AP - 057

STAGE 1 Abatement plan

DATE: OCT 2006



AP-57 Stage / Abatement Man October 2006

TEXACO NEW MEXICO "G" STATE BATTERY #22

STAGE 1 ABATEMENT PLAN (AP-57)

OCTOBER 2006

HESS CORPORATION MONUMENT, NM

PREPARED BY:

BBC INTERNATIONAL, INC. WORLD-WIDE ENVIRONMENTAL SPECIALISTS 1324 W. MARLAND BLVD. HOBBS, NEW MEXICO 88240 (505)397-6388 • FAX (505)397-0397 EMAIL: amy@bbcinternational.com





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VIA FEDERAL EXPRESS AIRBILL NUMBER: 7990 2057 8258

Mr. Wayne Price New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

SUBJECT: STAGE 1 ABATEMENT PLAN (AP-57) TEXACO NEW MEXICO "G" STATE BATTERY #22

Dear Mr. Price:

1

On behalf of Hess Corporation, BBC International, Inc. respectfully submits the enclosed Stage 1 Abatement Plan (AP-57).

If you have any questions, please do not hesitate to contact Cliff P. Brunson at (505) 397-6388 or via e-mail at <u>cbrunson@bbcinternational.com</u> or Amy C. Ruth at (505) 397-6388 or <u>Amy@bbcinternational.com</u>.

Sincerely,

President

BBC International, Inc.

Vennifer Gilkey for Cliff P. Brunson Cliff P. Brunson, CEI, CRS

cc: Hess Corporation (3)



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10/24/2006

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1.0 INTRODUCTION

The subject site is located north of Monument, New Mexico in Lea County in Unit Letter N, of Section 19, Township 19 South, and Range 37 East. The site is an abandoned tank battery, which had an associated pit that was operated from the late 1930's to 1991. The contamination at the former battery site was due to historical operation of the battery and the associated pit, which occurred prior to unitization of the North Monument Grayburg San Andres Unit (NMGSAU) in 1991, when the battery was decommissioned.

The site is situated near the bottom of a small draw, which contains a small perennial waterway with several depressions that hold one to two feet of water on a seasonal basis. During rainfall events the waterway carries storm water down hill to the southeast towards Monument Draw and water pools in the depressions which can persist for up to a month. It is likely that this draw is an area of local recharge for the unconfined Ogallala aquifer underlying the site, because the ground water is shallow in the area (less than 30 feet below ground surface). The site is elevated in reference this perennial waterway and is approximately 100 yards from any significant, seasonal water course. The hydrocarbons at the surface of the site were heavily weathered and clearly very old, so it is unlikely that the limited amount of storm water running off of the site has impacted this waterway in recent years. No visual evidence (oil sheen or free oil) was found that indicated hydrocarbons had impacted this surface water. No impacts were evident to the flora and fauna associated with the draw, and the amphibians and invertebrates observed in the ponded water of the draw appeared to be healthy and were reproducing regularly, as the water levels allowed.

Site assessment and remediation activities were conducted at the abandoned Hess Corporation (Hess), formerly Amerada Hess Corporation, former operator of the Texaco New Mexico "G" State Battery No. 22 beginning in May 2006. Hess developed a generic plan to investigate and remediate locations within the NMGSAU that have historical contamination in the Monument area. The New Mexico Oil Conservation Division (NMOCD) approved this generic work plan on December 5, 2005. Site investigation and remediation at the site was conducted in accordance with this plan.

Hess retained BBC International, Inc. (BBC) to investigate, remediate, and manage the site activities at the location.

2.0 SITE INVESTIGATION AND EXCAVATION

Site investigation and remediation at the location began with excavation of the battery and associated pit on May 4, 2006 as shown in the Site Diagram (**Figure 1**).



On May 5, 2006, BBC collected two (2) soil samples from the site, near the center of the hydrocarbon impacted area, to determine the extent of near surface hydrocarbon impacts between the battery pad and pit. The soil sample taken southeast of the center, entitled South East 2', was collected 2 feet below ground surface (bgs) and the sample collect near the center, entitled Center East 3', was taken 3 feet bgs. Please refer to **Figure 2** for the location of all samples collected relative to the battery pad and associated pit. These samples were submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPH), including speciation of gasoline range organics (GRO) and diesel range organics (DRO), chloride, benzene, toluene, ethylbenzene, and xylene (BTEX). None of the Constituents of Concern (COC) analyzed were detected above New Mexico Oil Conservation Division regulatory guidance in either sample, please see **Table 1** for summaries of all analytical data and **Appendix I** for all laboratory analytical reports.

On May 11, 2006, BBC personnel collected three (3) soil samples from the site, one to characterize excavated soils for disposal, and two to determine the extent of contamination in the open excavations. As soil sample was taken from the spoil pile in the center of the site, entitled G Lact Pile, and the analytical data for the sample indicated that the waste could be disposed of via landfarm (e.g. chlorides less than 1000 ppm). A soil sample was collected from 12 feet bgs in the bottom of the associated pit at the east end of the site, this sample was labeled G Lact NE Pit 12'. Data for the sample showed high TPH (greater than 5000 ppm) and chlorides were low, indicating that more soil should be excavated from the area underneath the associated pit. Another soil sample was collected from the soils under the former battery pad at 15 feet bgs on the west end of the site, which was labeled G Lact W Pit 15'. Data for the sample indicated that excavation had removed VOC and salts from the vadose zone to below regulatory guidance and excavation under the pad was ended.

After further excavation (three [3] additional feet) of the associated pit, two additional samples were collected from the area under the associated pit on May 22, 2006 to determine if the area had been adequately excavated. The samples were collected from the floor of the excavation at 15 feet bgs. A soil sample taken from the northeast portion of the excavation, labeled G Lact NE 15', showed elevated TPH (1,950 ppm) and low chlorides. The soil sample collected from the southeast portion of the excavation; labeled G Lact SE 15' had similar results indicating elevated TPH (771 ppm) and low chlorides. Due to the elevated TPH found in the excavation at 15 feet bgs, Hess determined that additional investigation with a drilling rig was required to determine if contaminants had impacted the ground water below the associated pit.

On behalf of Hess, BBC notified the NMOCD on May 31, 2006 of drilling and soil sampling to occur inside and within the immediate vicinity of the associated pit on June 5 and 6, 2006. However, due to an unforeseen circumstance, drilling was

rescheduled for June 6 and June 8, 2006, which the NMOCD acknowledged by email on June 5, 2006.

Drilling and soil sampling in proximity to the associated pit began on June 6, 2006 to delineate the lateral and vertical extents of hydrocarbon impact. Soil samples at each borehole were taken at 3 feet bgs, 5 feet bgs, at 5 foot intervals thereafter, and at the extent of boring. Headspace measurements using a photo ionization detector (PID) and chloride field screens were used to determine which samples qualified for laboratory analyses (e.g. the sample with highest results of field tests). The sample collected at the extent of boring was also submitted for laboratory analysis in each soil boring. The first soil boring was located in the center of the excavation for the associated pit at 15 foot bgs, this boring was labeled SB1. Hydrocarbon impact was found to extend from 15 feet bas to the ground water at 22 feet bgs. Free oil was visually detected in most samples from the boring and hydrocarbons were detected in all samples with a PID. Nonaqueous phase liquid (NAPL) was present on the ground water within SB1. A ground water sample collected from SB1 was submitted to an analytical laboratory for chloride analysis only and which was found to be less than the regulatory guidance. A second boring, SB2, was placed northwest of SB1 outside of the associated pit. A soil sample collected from SB2 at 20 feet bgs was submitted for laboratory analyses and showed low TPH and chlorides SB2 was completed as a monitor well and renamed MW1. All drilling logs are located in Appendix IV.

Acting on behalf of Hess, BBC notified NMOCD of groundwater contamination found at the site, and stated that additional site investigation would be conducted including the additional soil boring, soil sampling, and installation of ground water monitor wells. On the same day, Mr. Wayne Price of the NMOCD directed Hess to submit a Stage 1 Abatement Plan to the Santa Fe office for approval. On behalf of Hess, BBC proposed to the NMOCD to backfill the associated pit excavation due to safety concerns and to install, develop, and sample ground water monitor wells surrounding the site. The NMOCD responded on July 10, 2006 approving backfill of the excavation and installation of monitor wells with the instruction that this exchange of correspondences would be included in the Stage 1 Abatement Plan. The electronic correspondence regarding this approval can be referenced in **Appendix V**.

On June 8, 2006, NMOCD granted Hess approval to proceed with the proposed work with several conditions including:

- All submitted documents would be identified with the OCD# AP-57;
- NMOCD would be notified of all activities at the site;
- Monitor wells would be installed, developed, and sampled pursuant to approved EPA/NMOCD methods;
- Findings, conclusions, and recommendations would be submitted in a Stage 1 Abatement Plan by July 31, 2006; and



• Legal location, depth to groundwater, name of operator, and name of county would be sent to the NMOCD.

As requested, BBC returned requested information for the legal location, depth to groundwater, name of the operator, and name of the county to the NMOCD on June 12, 2006.

With the approval of the NMOCD, BBC continued soil boring, soil sampling and monitor well installation on June 8, 2006. Soil boring SB3 was drilled east of SB1 outside of the associated pit. Two soil samples from SB3 were submitted for laboratory analyses which indicated significant hydrocarbon contamination at the ground water interface. As a result of the field testing results and the presence of NAPL on the ground water the boring was not completed as a monitoring well and was properly plugged and abandoned. Another soil boring was made south of SB3 in an effort to delineate the eastern extent of the NAPL. Five (5) soil samples collected from this boring were submitted for analytical laboratory analysis, which indicated chloride impacts near the surface and no hydrocarbon impacts. As a result of the field testing results which indicated minimal impacts this boring was converted to a ground water monitoring well, MW3. Another boring was placed south of MW3 and what was believed to be directly down gradient of the impacted area. Field testing results and visual observations resulted in this boring not being completed as a groundwater monitoring well, and was labeled SB4 (originally labeled MW4). Three (3) soil samples were submitted to the laboratory from SB4, which indicated chloride impact near the surface and hydrocarbon impacts were found at the water interface. Another boring made northeast of the site, and due to negative testing results the boring was converted to a ground water monitoring well, MW2. A soil sample collected from this boring at 20 feet bgs was submitted for analyses, which indicated that the well had not been impacted with hydrocarbons or chlorides.

On the morning of June 20, 2006, the NMOCD was notified that closing soil samples would be collected from the tank battery area including the battery excavation on June 21, 2006. A total of eleven (11) soil samples were collected from the floor of the excavation and all samples were below the regulatory guidance for TPH and chlorides and indicated that the battery pad site could be closed and backfilled.

Further investigation of the impacts surrounding the associated pit began at the east end of the site on July 10, 2006. Four (4) boreholes were drilled, three (3) of which were converted to monitor wells, and soil samples were collected from each soil boring. The soil sample submitted for analyses from MW4 at 22 feet bgs showed no soil impacts above the regulatory guidance. SB5 was placed west of MW4 and directly south of the associated pit. A soil sample from 25 feet bgs was submitted and was found to have elevated levels of TPH. MW5 was placed southwest of SB5. A soil sample submitted from MW5 at 25 feet bgs showed no hydrocarbon or chloride impacts above the regulatory guidance.

MW6 was placed northeast of MW4 and a soil sample submitted for laboratory analysis also showed no impacts. At this point Hess had installed six (6) ground water monitoring wells which adequately delineate the vertical and horizontal hydrocarbon and chloride impacts to soil underneath the associate pit and vadose zone investigation was ceased.

3.0 EXCAVATION BACKFILL

Upon reviewing the laboratory results for eleven (11) closing samples collected from the battery on June 21, 2006, the NMOCD issued a verbal approval on the afternoon of June 29, 2006 to backfill the battery excavation. Written notification confirming the backfill approval along with the scheduled date to commence backfilling was sent to NMOCD on June 30, 2006. Backfill of the battery excavation began on July 18, 2006, and was completed on July 20, 2006 with 2,780 cubic yards of soil. Site photographs can be viewed in **Appendix III**.

On July 7, 2006, NMOCD verbally approved a proposal to backfill the associated pit excavation due to safety concerns, with a one-foot clay liner installed 6 feet bgs. On July 10, 2006, BBC confirmed via email that the rim of the associated pit would be excavated 6 feet outward from the edge and 6 feet downward. The excavation would be backfilled with fine soils from 15 feet bgs to 6 feet bgs (to the base of the 6 foot by 6 foot rim), a one foot thick clay liner would be installed, and the remaining 5 feet would be backfilled with topsoil. Approval was returned by the NMOCD on July 11, 2006.

Excavation of the associated pit rim began on July 21, 2006 immediately followed by backfilling activities. Backfill of the associated pit was completed on August 10, 2006 with 2,076 cubic yards of fine soils from 15 feet bgs to 6 feet bgs, 264 cubic yards of clay from 5 feet bgs to 6 feet bgs, and 4,932 cubic yards of topsoil from the ground surface to 5 feet bgs. To characterize additionally excavated soils on July 27, 2006, a composite sample, labeled Burn Pit Rim Spoils, was taken from the stockpile of excavated soil from the south and east rim of the associated pit. Laboratory analyses showed that the material was suitable for landfarming.

4.0 GROUNDWATER INVESTIGATION

On June 19-20, 2006, BBC personnel purged and developed MW1, MW2, and MW3. All depth measurements were taken from the top of casing, and three (3) well bore volumes were purged from each well. At MW1, depth to water was measured at 22.31 feet and total depth of the well was 32.10 feet. At MW2, depth to water was measured at 21.42 feet and total depth of the well was 30.41 feet. At MW3, non-aqueous phase liquids were measured at a depth of 23.54 feet, depth to water was at 23.58 feet, and total depth of the well was 32.35 feet.



On July 19, 2006, BBC personnel purged and developed MW4, MW5, and MW6. All depth measurements were taken from the top of casing, and three (3) well bore volumes were purged from each well. At MW4, depth to water was measured at 26.62 feet and total depth of the well was 34.29 feet. At MW5, depth to water was measured at 29.45 feet and total depth of the well was 36.18 feet. At MW6, depth to water was measured at 23.23 feet and total depth of the well was 33.80 feet. The groundwater gradient trended to the southeast at 0.0013 ft/ft. See **Figure 3** for a groundwater gradient map.

BBC conducted low flow purging and sampling of MW1, MW2, MW4, MW5, and MW6 on August 23-24, 2006. MW3 was gauged; however the well was not sampled due to presence of non-aqueous phase liquids (NAPL). At MW3, depth to product was 19.76 feet from the top of casing and depth to water was 20.22 All samples from the remaining monitor wells were submitted to a feet. laboratory and analyzed for volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), metals (including mercury), cyanide, anions, pH, and total dissolved solids (TDS). Laboratory results indicated that concentrations of VOC's and SVOC's for the five (5) monitor wells were non-detectable. Metals were within water guality standards according to 1991 New Mexico Water Quality Control Commission Regulations with the exception of manganese (Mn) content in MW4 of 1.57 ppm. Mercury (Hg) and cyanide levels were non-detectable in all monitor wells. Anions were within standards with the exception of the sample from MW6. Chlorides were present at 389 ppm and fluoride content was 2.18 ppm. pH in all monitor wells ranged between 6 and 8. TDS levels were within standards in all monitor wells with the exception of MW6 in which 1,690 ppm were present. See Figure 4 for a site diagram including analyte concentrations. A site diagram depicting estimated NAPL can be referenced in Figure 5. For original laboratory reports see Appendix II, for laboratory analytical summary tables see Table 2.

5.0 SURFACE OWNERSHIP

BBC conducted a one-mile radius search from the site of all known and registered surface owners. A review of the public tax rolls of Lea County, NM identified the name and addresses of the owners within one mile of the site. A diagram depicting the one-mile radius is found in **Figure 6**. A list of the surface owners can be found in **Appendix VI**.

6.0 ABATEMENT PROCESS

On behalf of Hess, BBC has submitted this Stage 1 Abatement Plan (AP-57) in accordance with NMOCD Rule 19 NMAC 15.1.19. Upon receipt of the NMOCD deeming the Stage 1 Abatement Plan administratively complete, Hess will create and publish a NMOCD approved public notice according to Rule 19 requirements.

APPENDIX

Soil Laboratory Analytical Results

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



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: 05/05/06 Reporting Date: 05/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT UNIT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/05/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/09/06	05/09/06	05/08/06
H11093-1 SOUTH EAST 2'	<10.0	<10.0	<8
H11093-2 CENTER EAST 3'	<10.0	<10.0	48
Quality Control	807	737	500
True Value QC	800	800	500
% Recovery	101	92.1	100
Relative Percent Difference	2.9	4.1	4.0

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 Chemist



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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: 05/05/06 Reporting Date: 05/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT UNIT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/05/06 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 DA	ATE	05/09/06	05/09/06	05/09/06	05/09/06	
H11093-1	SOUTH EAST 2'	<0.005	< 0.005	<0.005	< 0.015	
H11093-2	CENTER EAST 3'	<0.005	<0.005	<0.005	<0.015	
Quality Contro)	0.095	0.092	. 0.092	0.277	
True Value Q	2	0.100	0.100	0.100	0.300	
% Recovery		95.0	92.4	92.0	92.3	
Relative Perce	ent Difference	0.6	0.5	1.6	6.1	

METHOD: EPA SW-846 8260

esofflooke

10/06

Date

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City: Habba State: N/	M zlp: 88240	Attn: Randy B.	arnes			<u> </u>
Phone # 505-397-6388 Fax# 50	15-397-0397	Address:	99			
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† Cardinal canhot accept verbal changes. Please fax written changes to 505-393-2476.



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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 05/12/06 Reporting Date: 05/16/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/11/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/12/06	05/12/06	05/12/06
H11110-1 G LACT PILE	51.3	379	16
H11110-2 G LACT NE PIT 12'	73.6	5400	192
H11110-3 G LACT W PIT 15'	<10.0	52.3	32
Quality Control	784	773	510
True Value QC	800	800	500
% Recovery	98.0	96.6	102
Relative Percent Difference	3.1	0.4	1.8

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

Larry L. Bailey

5/16/06

Date



H11110A

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LAB NUMBER SAMPLE ID		BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	
ANALYSIS DATE		05/12/06	05/12/06	05/12/06	05/12/06	
H11110-1	G LACT PILE	<0.005	<0.005	0.010	0.076	
H11110-2	G LACT NE PIT 12'	<0.005	<0.005	0.018	0.089	
H11110-3	G LACT W PIT 15'	<0.005	<0.005	<0.005	<0.015	
			· · · · · · · · · · · · · · · · · · ·			
Quality Control	· · · ·	0.094	0.101	0.098	0.307	
True Value QC	•	0.100	0.100	0.100	0.300	
% Recovery		93.4	101	97.9	102.0	
Relative Perce	nt Difference	0.2	7.9	7.2	7.8	

METHOD: EPA SW-846 8260

nd. Bi

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5/16/06

Date

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USTODY AND ANALYSIS REQUEST	Pageof	ANALYSIS REQUEST	X-7-18	Threat and Constants Tak Fin and a many our and and the first of threat and the state of the sta	es DNo Add'l Phone #: 1	
CHAIN-OF-CL	2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240		Project Manager. [1:0] Brundann Address: 1324 U. Martan Andrean Address: 1324 U. Martan Andrean Company: Andreas Cry: Habbs Cry: Habbs Project Address: 1324 U. Martan Project Manager. [1:0] Project Manager.	PLEJCE HOTTE. Landy and Damages. Cardon's Select and doch used and that with the hot of hot and hot hot of the	Increase in the mark walk card when be not service and a service of cardial of house of house in the former of the construction of the constructio	Railinguighed By: Marcel Value Received By: (Lab/Staff) M. M. M. M. Time: Sample Condition CHECKEP BY: Cool Intert (In)thate) Deliveted By: (Gircle One) Sampler_ UBS - Bus - Other: Kine Kine Kine Kine Mo + Cardinal canhot accept verbal changes. Please fax written changes to 505-393-2476.

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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: 05/23/06 Reporting Date: 05/24/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT UNIT Project Location: MONUMENT, NM Sampling Date: 05/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	05/23/06	05/23/06	05/24/06
H11147-1 G LACT NE 15'	<10.0	1950	176
H11147-2 G LACT SE 15'	<10.0	771	192
Quality Control	778	763	480
True Value QC	800	800	500
% Recovery	97.3	95.4	96.0
Relative Percent Difference	3.5	7.5	3.0

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

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124/06

Date



H11147A

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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: 05/23/06 Reporting Date: 05/24/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT UNIT Project Location: MONUMENT, NM Sampling Date: 05/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	05/24/06	05/24/06	05/24/06	05/24/06
H11147-1	G LACT NE 15'	<0.005	< 0.005	<0.005	<0.015
H11147-2	G LACT SE 15'	<0.005	<0.005	<0.005	<0.015
	· · · · · · · · · · · · · · · · · · ·				
Quality Control	······································	0.092	0 101	0.090	0.273
True Value QC	· · · · · · · · · · · · · · · · · · ·	0.100	0.100	0.100	0.300
% Recovery		92.1	101	90.3	91.1
Relative Perce	nt Difference	2.3	7.6	1.0	1.2

METHOD: EPA SW-846 8260

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124104

Date

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ARDINAL LABORATORIES, INC.	
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 2015 1572-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476	Г
Company Name: QA Trific Line Line 2, The BILL TO	1
Project Manager 2127 - 1421 March 1900 157156	<u></u>
Address: 1324 W. 1 ar 1 and States NM ZIP: 88240 Attn: Rands, Barnes	<u>.</u>
Phone #. 505-397-6388 Fax# 505-397-0397 Address:	
Project Name: Lex 210 State G Lact Unit State: 1X ZIP: 3	
Project Location: N On Jun M C Fax #:	
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REMARKS:	
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Delivered BY: Tolrole One) Sample Condition CHECKED BY: Cool Intact [Initigie] Sampler_UPS - Bus - Other:	
† Cardinal canhot accept verbal changes. Please fax written changes to 505-393-2476.	

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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: 06/06/06 Reporting Date: 06/07/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATT. 22 Project Location: MONUMENT, NM Analysis Date: 06/07/06 Sampling Date: 06/06/06 Sample Type: SOIL, GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: HM

H11195-1 G LACT SB2 20	*16
H11195-2 SB1 WATER	84
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Quality Control	970
True Value QC	1000
% Recovery	.97
Relative Percent Difference	1.0

METHOD: Standard Methods 4500-CI⁻B *NOTE: Analysis performed on a 1:4 w:v aqueous extract.

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06-07-06 Date



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LAB NO. SAMPLE ID



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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: 06/06/06 Reporting Date: 06/07/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATT. 22 Project Location: MONUMENT, NM

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

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06
H11195-1 G LACT SB2 20	<10.0	41.2	<0.005	<0.005	<0.005	<0.015
		·····				
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Quality Control	778	763	0.102	0.102	0.099	0.304
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	97.3	95.4	102	102	98.9	101
Relative Percent Difference	3.5	7.5	1.8	1.7	1.1	1.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

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Date



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Project Manager:	ALL RULIDE MA			01000	¥ 0d #:								· · ·		
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SHY: HABBS	State: NMZip:	38240	At	tn: Rand	u Barne						•		<u></u>		
Phone #: 505	347-6388		Ac	Idress:		,				·					
ax# 505 - 3	397-0397		ō	ty: Sen	ninole						••••••••••••••••••••••••••••••••••••••	; ; ; ;			:
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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: 06/09/06 Reporting Date: 06/15/06 Project Owner: NOT GIVEN Project Name: TEXACO STATE G LACT UNIT BTRY 22 Project Location: MONUMENT, NM Analysis Date: 06/12/06 Sampling Date: 06/08/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

CI

LAB NO. SAMPLE ID

(mg/kg)

H11210-1	SB3-5'	768
H11210-2	SB3-20'	32
H11210-3	MW-3-3'	1520
H11210-4	MW-3-5'	448
H11210-5	MW-3-10'	304
H11210-6	MW-3-20'	16
H11210-7	MW-3-25'	16
H11210-8	MW-4-3'	576
H11210-9	MW-4-5'	960
H11210-10	MW-4-10'	480
H11210-11	MVV-2-20'	16
Quality Cont	trol	990
True Value (QC	1000
% Recovery		99
Relative Per	cent Difference	0.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

06-15-06 Date



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

Receiving Date: 6/9/06 Project Owner: NONE GIVEN Project Number: NONE GIVEN Project Name: TEXACO STATE G LACT UNIT BTRY 22 Project Location: MONUMENT NM Reporting Date: 6/15/06

Sampling Dates: 6/8/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: JC

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)
SB 3 - 5'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
SB 3 - 20'	2500	13200		<0.010	*1.212	*0.574	*3.609
MW - 3 - 3'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
MW - 3 - 5'	<50.0	<50.0		<0.002	<0.002	<0.002	< 0.006
MW - 3 - 10'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
MW - 3 - 20'	<50.0	<50.0		<0.002	<0.002	<0.002	< 0.006
MW - 3 - 25'	<50.0	<50.0		<0.002	<0.002	< 0.002	< 0.006
MW - 4 - 3'	<50.0	<50.0		<0.002	< 0.002	<0.002	< 0.006
MW - 4 - 5'	<50.0	<50.0		<0.002	< 0.002	<0.002	< 0.006
MW - 4 - 10'	<50.0	<50.0	GRO/DRO	< 0.002	< 0.002	<0.002	< 0.006
MW - 2 - 20'	<50.0	<50.0	(mg/kg)	< 0.002	< 0.002	<0.002	< 0.006
	SAMPLE ID SB 3 - 5' SB 3 - 20' MW - 3 - 3' MW - 3 - 5' MW - 3 - 10' MW - 3 - 20' MW - 3 - 25' MW - 4 - 3' MW - 4 - 5' MW - 4 - 10' MW - 2 - 20'	SAMPLE ID GRO C6-C12 (mg/kg) SB 3 - 5' <50.0	SAMPLE ID GRO DRO C6-C12 >C12-C28 (mg/kg) (mg/kg) SB 3 - 5' <50.0	SAMPLE ID GRO DRO C_6-C_{12} > $C_{12}-C_{28}$ (mg/kg) (mg/kg) SB 3 - 5' <50.0	SAMPLE ID GRO DRO C6-C12 >C12-C28 BENZENE (mg/kg) (mg/kg) (mg/kg) SB 3 - 5' <50.0	SAMPLE ID GRO DRO C6-C12 >C12-C28 BENZENE TOLUENE (mg/kg) (mg/kg) (mg/kg) (mg/kg) SB 3 - 5' <50.0	SAMPLE ID GRO DRO ETHYL- C6-C12 >C12-C28 BENZENE TOLUENE BENZENE (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) SB 3 - 5' <50.0

Extraction Date:	06/14/06	06/14/06	06/14/06	06/13/06	06/13/06	06/13/06	06/13/06
Analysis Date:	06/14/06	06/14/06	06/14/06	06/13/06	06/13/06	06/13/06	06/13/06
Method Blank	<50.00	<50.00	<50.00	<0.002	<0.002	< 0.002	< 0.006
LCS -				0.102	0.105	0.106	0.312
True Value LCS				0.100	0.100	0.100	0.300
LCS % Recovery				102%	105%	106%	104%
Matrix Spike (MS)		-	364				5 A. 1997
Matrix Spike Dup (MSD)			345				
True Value Matrix Spike			400				
MS % Recovery			90.9%				1999 (S. 1997)
MSD % Recovery			86.4%				
Matrix Spike RPD	1		5.2%	9.8%	11.9%	11.9%	12.6%
FLAGS: *Results should be	considered as estir	nates due to	high potrolou	mbudrooorbon	bookground in	torforonco	.I

be considered as estimates due to high petroleum hydrocarbon background interference.

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

H11210BTEX-TPHSOIL[1].xls

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	2111 Beechwood, Abilene, TX 79603 101 East Mi (915) 673-7001 Fax (915) 673-7020 (505) 393-2:	Company Name: BBC J m To 12 mon	Project Manager: ()() Buim Som	Address: 1324 00, Marland	City: Nobbs State: DM ZIP: 88240	Phone # 397-6388 Fax# 397-0397	Project # Project Owner:	Project Names / proc State 12 Lact Unit Bt.	Project Location: NOONU Drent, ND	Sampler Name: Hmy Kuth	FOR LEB LEE CNLY	га р С С С С С С С С С С С С С С С С С С	HU210-1 MU2-2-20' GI 0 > 0				ELECK FOR EACH STATE AND A MARKAL CARGAN IS REALY REAL CARCUL EXCEPTION IS INCOME IN THE WAY HAND CARGANISM IN THE AND A MARKAL MA MARKAL MARKAL MARKAL MARKAL MARKAL MARKAL MARKAL MARKAL M	Samphy Rellnquished:	Home Kuth "3: 30 on Genny	Relinquishedray: De-09.06 Receivedray: (I	Collycered By: (Circle One) Sample Cool Sample Cool Sample Cool Sample Cool	

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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: 06/21/06 Reporting Date: 06/27/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 06/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: BC/AB

GRO DRO $(C_6 - C_{10})$ $(>C_{10}-C_{28})$ CI* (mg/Kg) LAB NUMBER SAMPLE ID (mg/Kg) (mg/Kg)ANALYSIS DATE 06/24/06 06/24/06 06/23/06 H11258-1 14' <10.0 32 1 14.5 H11258-2 2 6' <10.0 <10.0 16 H11258-3 3 4' <10.0 45.1 <16 H11258-4 4 1' <10.0 117 <16 H11258-5 5 1' <10.0 260 16 2' H11258-6 6 <10.0 22.2 <16 H11258-7 7 1' <10.0 11.2 16 1' H11258-8 8 <10.0 317 <16 H11258-9 9 1' <10.0 80 91.1 H11258-10 10 2' <10.0 11.4 16 H11258-11 11 2' <10.0 <10.0 80 **Quality Control** 738 748 970 True Value QC 800 800 1000 % Recovery 92.3 93.0 97.0 **Relative Percent Difference** 4.2 1.5 2.0

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

Halooh

H11258A

6/27/06

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 interruptons, 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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Receiving Date: 06/21/06 Reporting Date: 06/27/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 06/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: BC

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NO. SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	06/23/06	06/23/06	06/23/06	06/23/06
H11258-1 1 14'	< 0.005	< 0.005	<0.005	<0.015
H11258-2 2 6'	< 0.005	<0.005	<0.005	<0.015
H11258-3 3 4'	< 0.005	<0.005	<0.005	<0.015
H11258-4 4 1'	< 0.005	<0.005	<0.005	<0.015
H11258-5 5 1'	< 0.005	<0.005	<0.005	<0.015
H11258-6 6 2'	<0.005	<0.005	<0.005	<0.015
H11258-7 7 1'	< 0.005	< 0.005	<0.005	<0.015
H11258-8 8 1'	< 0.005	<0.005	<0.005	<0.015
H11258-9 9 1'	< 0.005	<0.005	<0.005	<0.015
H11258-10 10 2'	< 0.005	<0.005	<0.005	<0.015
H11258-11 11 2'	< 0.005	< 0.005	<0.005	<0.015
Quality Control	0.101	0.101	0.103	0.301
True Value QC	0.100	0.100	0.100	0.300
% Recovery	101	101	103	100
Relative Percent Difference	4.2	3.2	4.8	0.8

METHOD: EPA SW-846 8260

Date

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obbs, NM 88240	505) 393-2478 BILL TO	:0.#. 45-15.715	company: Hess Cor	.ttn: .ddreas:	ity: Seminole	tate: TX ZIP:	ћопе #:	BX #: Tepeseevi samplin		н 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1 0/12/0 4	10/12/01	1 4/21/06	10/12/01	V 21/06	10/12/21/01	1/21/06	1 1/2/00	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	will be trigod to the encount put by the	d by Cardinal mikini 30 days mine conspond 14, or 1544 of profes training by clearly he a	d Lpon any of the poone its hed to to a to a				CHECKEU BT: UnHtials)	
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ARDINAL LABORATORIES, 2111 Beechwood, Abilene, TX 79503	(915) 673-7001 Fax (915) 673-7020 Остану Нате: 0 0 1 1-1 2 2 2 2 2 2	Project Manager (1:1) Brunson	Address: 1324 W. Marland	city: Hapbs state: NMZ	Phone # 505-541-6588 Fax # 502	Project # MON UN WEES BUT FIGER SWITH	Project Location: M M LLM Cht	Sampler Name: A.M. U. Ruth	FOR LAB USE CALY	Lab LD. Sample LD.		11/258-12 14		- 2 3 4		-66		- 88-	-99		LEUCE ROTE: LEVERY BY DERING ROL LA COM A PARAJ AN PARAJ AN PARAJ AN PARAJ Rayse, M. Caira Transta David R. Rayowan Mat and Carlo Mathematica Mathematica Rayse, J. Caira David R. La	errer. In the react was Contrar by Royal or reader a surveyor of the standard by Cardon Install or a accession surveyor and or activation performance of accession but under by Cardon The standard of the standard of the standard of the standard by Cardon		Relinduished By Daug: Calor MA	Moul Little Time:	Delivered By: (Circle Que)	Samplerauro · pus · ourier.

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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: 07/12/06 Reporting Date: 07/13/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM

Sampling Date: 07/10/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	07/12/06	07/12/06	07/12/06
	01112/00	01112100	0//12/00
H11336-1 MW 4-22'	<10.0	<10.0	48
H11336-2 SB 5-25'	201	1140	48
H11336-3 MW 5-25'	<10.0	<10.0	32
H11336-4 MW 6-22'	<10.0	<10.0	32
Quality Control	769	801	1000
True Value QC	800	800	1000
% Recovery	96.1	100	100
Relative Percent Difference	2.1	2.3	0.0

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

H11336A

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Receiving Date: 07/12/06 Reporting Date: 07/13/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/10/06 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 DAT	E	07/12/06	07/12/06	07/12/06	07/12/06
H11336-1	MW 4-22'	<0.005	<0.005	<0.005	<0.015
H11336-2	SB 5-25'	< 0.005	<0.005	0.025	0.346
H11336-3	MW 5-25'	<0.005	<0.005	<0.005	< 0.015
H11336-4	MW 6-22'	<0.005	<0.005	<0.005	<0.015
Quality Control		0.093	0.102	0.098	0.280
True Value QC		0.100	0.100	0.100	0.300
% Recovery		93.4	102	98.3	93.4
Relative Percer	nt Difference	<0.1	7.7	4.5	0.5

METHOD: EPA SW-846 8260

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Circ. Ларья Бали , М. Д.р., 8.72.40 М.П. Pienen F. 205-317-6.328 Pienen F. 205-317-6.328 Adremati Pienen F. 201-6.328 Pienen F. 205-317-6.328 Adremati Pienen F. 201-6.328 Pienen F. 205-317-6.328 Adremati Pienen F. 201-6.200 Pienen F. 202-347-0.329 Adremati Pienen F. 201-6.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F. 201-7.200 Pienen F. 202-200 Pienen F. 202-200 Pienen F.	Address 1274 N. Marland	COMPANY: HOSS CORP.		
Prome # 5/5-747-6.274 Face # 5/5-347-0377 Adment Prome # 5/5-747-6.274 Face # 5/5-347-0377 Prome # 5/5-347-6/27 Prome # 5/5-747-6/27 Prome # 5/5 Prome # 5/5-747-6/27 Prome # 5/5 Prome # 5/5 Prome # 5/5 Pr	City: H, bbc State: N/M ZIp: 87240	Attn:		
Peleere MANAN Black AD Project Conner. Hoss Arch. Dr. Chr. Sensi robid Peleere MANAN Black AD Repte, 14 Larde Larde Ad 20 Chr. Sensi robid Peleere MANAN Black AD Repte, 14 Larde Ad 20 Chr. Barter 7 Zin: Project conner. And Ad	Phone # 505-397-6388 Fax# 505-397-0397	Address:	08	
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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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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: 07/28/06 Reporting Date: 08/01/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/27/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	07/31/06	07/31/06	07/28/06
	<10.0	<10.0	160

ANALYSIS DATE	07/31/06	0//31/06	0/128/06
H11393-1 BURN PIT RIM SPOILS	<10.0	<10.0	160
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Quality Control	/80	//0	990
True Value QC	800	800	1000
% Recovery	97.5	96.2	99.0
Relative Percent Difference	0.9	7.2	1.0

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

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LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	07/31/06	07/31/06	07/31/06	07/31/06
H11393-1	BURN PIT RIM SPOILS	< 0.005	< 0.005	<0.005	<0.015
	, 				
Quality Con	itrol	0,100	0.105	0 106	0 299
True Value	QC	0.100	0.100	0.100	0.300
% Recovery	1	99.6	105	106	99.7
Relative Pe	rcent Difference	<0.1	6.7	7.8	2.0

METHOD: EPA SW-846 8260

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CHAIN-OF-CUSTO	- EX H(GUN) DED) 8012-W MOLIGE	LIME CLASS	Act for the section of the section o
land, Hobbs, NM 88240 56 Fax (505) 393-2478	P.O. #: 45-1571 Company: Це55 Attn: 7 Attn: 2 Attn: 2 Attn: 2 Attn: 2 Stats: Phons #: Fax #: SAMPL		a de det, milite la bad lo per manar pul tyrine al recent de la bad lo per manar pul tyrine al recent de create harmed by dent, he har a laur, er bie of profer harmed by dent, he in a based upon any el lipe abore inited researce in a based upon any el lipe abore inited researce for the definition of
TORIES, INC. 1, TX 79603 101 East Mar 1) 573-7020 (505) 393-232	NATER MATER		Reach is any data side hand many in the second many of the second solution in the second solution in the second solution is the second solution in the second solution is the second solution in the second solution is the second so
RDINAL LABORA 111 Beechwood, Abilene 1915) 573-7001 Fax (915	CULIC Brunge 24 LJ. Marlan 5 Stalan WM BLESBOL Proj Exaco State C Monument Amy Kuth Sample I.D.	own Pil Rim S	where a contract of the second states of the second
Company Name	Project Manage Address: 13 Crty: Hobb Phone #: 50 Project Hame: Project Location Sampler Name: Real a La D LD.	HI13734	Relucion marten de la commune

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APPENDIX II

Groundwater Laboratory Analytical Results

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

September 20, 2006

Cliff Brunson BBC International 1324 West Marland Blvd Hobbs, NM 88240

Tel: (505) 397-6388 Fax:

Re: Hess Texaco

Work Order : 0608511

Dear Cliff Brunson,

e-Lab Analytical, Inc. received 9 samples on 8/26/2006 8:15:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 66.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Odette E. Elliston Jeffrey L Croston Project Manager





G Lact MW5

G Lact MW4

G Lact MW6

Trip Blank 1

Trip Blank 2

Equipment Rinse

Duplicate

0608511-03

0608511-04

0608511-05

0608511-06

0608511-07

0608511-08

0608511-09

8/26/2006 08:15

8/26/2006 08:15

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8/26/2006 08:15

8/26/2006 08:15

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8/24/2006 11:08

8/24/2006 13:20

8/24/2006 14:54

8/24/2006 15:45

8/24/2006 15:45

8/24/2006 15:45

8/24/2006

CLIENT: Project: Work Order:	BBC International Hess Texaco 0608511			Work Order S	ample Sumn	nary
Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0608511-01	G Lact MW1	Water		8/23/2006 11:19	8/26/2006 08:15	
0608511-02	G Lact MW2	Water		8/23/2006 14:53	8/26/2006 08:15	
0608511-03	G Lact MW5	Water		8/24/2006 11:08	8/26/2006 08.15	

Water

Water

Water

Water

Water

Water

Water

Υ.	







CLIENT:BBC InternationalProject:Hess TexacoWork Order:0608511

Case Narrative

pH samples were received outside of the recommended holding time.

Nitrite (samples G Lact MW1 and G Lact MW2) were received outside of the recommended holding time.

Batch 19613 Metals MS/MSD was an unrelated sample.

Batch R41162 Volatiles MS/MSD RPD was an unrelated sample.

Batch R41214 Volatiles (sample G Lact MW4) MS recoveries were below the control limits for Acrylonitrile (55.3%). Several RPD's were outside of control limits, but met the method criteria in the LCS.

Batch's R41322, and R41405 Anions MS/MSD were unrelated samples.

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

 Project:
 Hess Texaco

 Lab ID:
 0608511-01

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL			SW7470)	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 6:59:40 PM
ICP METALS, TOTAL			SW6020)	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 1:22:00 AM
Arsenic	0.00509		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Barium	0.101		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Boron	0.220		0.0200	mg/L	1		9/2/2006 1:22:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 1:22:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Copper	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 1:22:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Manganese	0.00779		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Molybdenum	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Uranium	0.00532		0.00500	mg/L	1		9/19/2006 7:50:00 PM
Zinc	0.00818		0.00500	mg/L	1		9/2/2006 1:22:00 AM
SEMIVOLATILE ORGANICS BY G	C/MS		SW827	0	Prep Date:	8/28/2006	Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 1:43:00 PM
1-Methylnaphthalene	ND		10	μg/L	1		9/6/2006 1:43:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Chiorophenol	ND		10	hð\r	1		9/6/2006 1:43:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
3,3'-Dichlorobenzidine	ND		10	µg/L	1		9/6/2006 1:43:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM



ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

J - Analyte detected below quantitation limits

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-01

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Matrix: WATER

		• •	Report		Dilution	n Dete Analismed	
Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed	
4-Chloro-3-methylphenol	ND		10	μg/L	1	9/6/2006 1:43:00 PM	
4-Nitrophenol	ND		10	µg/Ľ	1	9/6/2006 1:43:00 PM	
Acenaphthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Acenaphthylene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Anthracene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Benzidine	ND		10	μg/L	1	9/6/2006 1:43:00 PM	
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Bis(2-ethylhexyl)phthalate	ND		10	μg/L	1	9/6/2006 1:43:00 PM	
Chrysene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Fluorene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Hexachloroethane	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Isophorone	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
N-Nitrosopyrrolidine	ND		10	µg/L	· 1	9/6/2006 1:43:00 PM	
Naphthalene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Nitrobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Phenanthrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
Pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM	
VOLATILES BY GC/MS			SW826	0		Analyst: PC	
1,1,1-Trichloroethane	ND		5.0	µg/L	. 1	8/28/2006 9:41:00 PM	
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 2 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-01

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Acrolein	ND		20	µg/L	1	8/28/2006 9:41:00 PM
Acrylonitrile	ND		10	µg/L	1	8/28/2006 9:41:00 PM
Benzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Bromomethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chloroform	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chloromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
m,p-Xylene	ND		10	µg/L	1	8/28/2006 9:41:00 PM
Methylene chloride	ND		10	µg/L	1	8/28/2006 9:41:00 PM
o-Xylene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Toluene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/28/2006 9:41:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	1	8/28/2006 9:41:00 PM
Surr: 4-Bromofluorobenzene	108		72.4-125	%REC	1	8/28/2006 9:41:00 PM
Surr: Dibromofluoromethane	109		71.2-125	%REC	1	8/28/2006 9:41:00 PM
Sur: Toluene-d8	106		75-125	%REC	1	8/28/2006 9:41:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	116		5.00	mg/L	10	9/3/2006 7:42:00 PM
Fluoride	0.709		0.100	mg/L	1	9/3/2006 2:12:00 AM
Sulfate	95.6		10.0	mg/L	10	9/3/2006 7:42:00 PM
Nitrate/Nitrite (as N)	1.22		0.500	mg/L	. 5	9/7/2006 10:03:00 AM
Surr: Selenate (surr)	110		80-120	%REC	10	9/3/2006 7:42:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-01

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	107		80-120	%REC	1	9/3/2006 2:12:00 AM
Surr: Selenate (surr)	116		80-120	%REC	5	9/7/2006 10:03:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM
NITRITE Nitrogen, Nitrite	ND	н	E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	6.65	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	740		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006





ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

BBC International

0608511

Hess Texaco

0608511-02

CLIENT:

Project:

Lab ID:

Work Order:

Date: September 20, 2006

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470)	Prep Date: 9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1	9/5/2006 7:01:28 PM
ICP METALS, TOTAL			SW6020)	Prep Date: 9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1	9/2/2006 1:29:00 AM
Arsenic	0.00636		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Barium	0.155		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Boron	0.0290		0.0200	mg/L	1	9/2/2006 1:29:00 AM
Cadmium	ND		0.00200	mg/L	1	9/2/2006 1:29:00 AM
Chromium	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Cobalt	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Copper	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Iron	ND		0.200	mg/L	1	9/2/2006 1:29:00 AM
Lead	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Manganese	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Molybdenum	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Nickel	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Selenium	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Silver	ND		0.00500	mg/L	1	9/2/2006 1:29:00 AM
Uranium	ND		0.00500	mg/L	1	9/19/2006 8:25:00 PM
Zinc	0.00898		0.00500	mg/L	1	9/2/2006 1:29:00 AM
SEMIVOLATILE ORGANICS BY GC/MS			SW827	D	Prep Date: 8/28/200	6 Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
1,2-Diphenylhydrazine	ND		10	μg/L	1	9/6/2006 3:05:00 PM
1-Methylnaphthalene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2-Chlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2-Methylnaphthalene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2-Methylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
2-Nitrophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
3&4-Methylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 5 of 25

Date: September 20, 2006

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-02

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benz(a)anthracene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Di-n-butyl phthalate	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Dibenz(a,h)anthracene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Dimethyl phthalate	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Hexachloroethane	ND		10	μg/L	1	9/6/2006 3:05:00 PM
indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosopyrrolidine	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Nitrobenzene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Pentachlorobenzene	ND		10	µg/∟	1	9/6/2006 3:05:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
VOLATILES BY GC/MS			SW826	0		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	μg/L	1	8/28/2006 10:09:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 6 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-02

Date: September 20, 2006

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloroethene	ND		5.0	μg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,2-Dichlorobenzene	ND		5.0	μg/L	· 1	8/28/2006 10:09:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Acrolein	ND		20	μg/L	1	8/28/2006 10:09:00 PM
Acrylonitrile	ND		10	µg/L	1	8/28/2006 10:09:00 PM
Benzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Bromomethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chloroform	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chloromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
m,p-Xylene	ND		10	µg/L	1	8/28/2006 10:09:00 PM
Methylene chloride	ND		10	µg/L	1	8/28/2006 10:09:00 PM
o-Xylene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Toluene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/28/2006 10:09:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	1	8/28/2006 10:09:00 PM
Surr: 4-Bromofluorobenzene	107		72.4-125	%REC	1	8/28/2006 10:09:00 PM
Surr: Dibromofluoromethane	108		71.2-125	%REC	1	8/28/2006 10:09:00 PM
Sur: Toluene-d8	106		75-125	%REC	1	8/28/2006 10:09:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	11.6		0.500	mg/L	1	9/3/2006 2:34:00 AM
Fluoride	0.827		0.100	mg/L	1	9/3/2006 2:34:00 AM
Sulfate	13.1		1.00	mg/L	1	9/3/2006 2:34:00 AM
Nitrate/Nitrite (as N)	2.46		0.500	mg/L	5	9/7/2006 10:25:00 AM
Surr: Selenate (surr)	108		80-120	%REC	1	9/3/2006 2:34:00 AM



Qualifiers:

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- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-02

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 10:25:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM
NITRITE Nitrogen, Nitrite	ND	н	E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	7.03	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	259		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006



ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 8 of 25

CLIENT:

Project:

Lab ID:

Work Order:

Date: September 20, 2006

Client Sample ID: G Lact MW5 Collection Date: 8/24/2006 11:08:00 AM

Hess Texaco 0608511-03

0608511

BBC International

Matrix: WATER

Analyses	Result	Report Qual Limit	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW74	70	Prep Date: 9/5/	2006 Analyst: JCJ
Mercury	ND	0.000200) mg/L	1	9/5/2006 7:03:16 PM
ICP METALS, TOTAL		SW602	20	Prep Date: 9/1/	2006 Analyst: SA
Aluminum	ND	0.010) mg/L	1	9/2/2006 1:35:00 AM
Arsenic	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Barium	0.0732	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Boron	0.158	0.020) mg/L	1	9/2/2006 1:35:00 AM
Cadmium	ND	0.0020) mg/L	1	9/2/2006 1:35:00 AM
Chromium	ND	0.00500) mg/L	1	9/2/2006 1:35:00 AM
Cobalt	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Copper	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Iron	ND	0.20) mg/L	1	9/2/2006 1:35:00 AM
Lead	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Manganese	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Molybdenum	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Nickel	ND	0.0050) m g/ L	1	9/2/2006 1:35:00 AM
Selenium	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Silver	ND	0.0050) mg/L	1	9/2/2006 1:35:00 AM
Uranium	0.00596	0.0050) mg/L	1	9/19/2006 8:30:00 PM
Zinc	0.00836	0.0050	0. mg/L	1	9/2/2006 1:35:00 AM
SEMIVOLATILE ORGANICS BY GO	/MS	SW82	70	Prep Date: 8/2	8/2006 Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND	1) µg/L	. 1	9/6/2006 3:32:00 PM
1,2-Diphenylhydrazine	ND	1) µg/L	1	9/6/2006 3:32:00 PM
1-Methylnaphthalene	ND	1) µg/L	1	9/6/2006 3:32:00 PM
2,3,4,6-Tetrachlorophenol	ND	1	D µg/L	1	9/6/2006 3:32:00 PM
2,4,5-Trichlorophenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2,4,6-Trichlorophenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2,4-Dichlorophenol	ND	1	0 μg/L	1	9/6/2006 3:32:00 PM
2,4-Dimethylphenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2,4-Dinitrophenol	ND	1	0 µg/L	1.	9/6/2006 3:32:00 PM
2,4-Dinitrotoluene	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2,6-Dichlorophenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2-Chlorophenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2-Methylnaphthalene	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2-Methylphenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
2-Nitrophenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
3&4-Methylphenol	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
3,3'-Dichlorobenzidine	ND	1	0 µg/L	1	9/6/2006 3:32:00 PM
4,6-Dinitro-2-methylphenol	ND	1	0 µg/L	1 .	9/6/2006 3:32:00 PM



Qualifiers:

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P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

0608511-03

Lab ID:

Date: September 20, 2006

Client Sample ID: G Lact MW5 Collection Date: 8/24/2006 11:08:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chioro-3-methylphenol	ND		10	μg/L	1	9/6/2006 3:32:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Anthracene	ND		10	μg/L.	1	9/6/2006 3:32:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Bis(2-chloroethyl)ether	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Bis(2-chloroisopropyl)ether	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitroso-di-n-butylamine	ND		10	μg/L	1	9/6/2006 3:32:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
VOLATILES BY GC/MS			SW826	D		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 10 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

0608511-03

Lab ID:

Date: September 20, 2006

Client Sample ID: G Lact MW5 Collection Date: 8/24/2006 11:08:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	μg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloroethane	ND		5.0	μg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Acrolein	ND		20	µg/L	1	8/30/2006 12:57:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 12:57:00 PM
Benzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Chloromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
m,p-Xylene	ND		10	µg/L	1	8/30/2006 12:57:00 PM
Methylene chloride	ND		10	µg/L	1	8/30/2006 12:57:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 12:57:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	. 1	8/30/2006 12:57:00 PM
Surr: 4-Bromofluorobenzene	110		72.4-125	%REC	1	8/30/2006 12:57:00 PM
Surr: Dibromofluoromethane	107		71.2-125	%REC	1	8/30/2006 12:57:00 PM
Surr: Toluene-d8	103		75-125	%REC	1	8/30/2006 12:57:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	170		5.00	mg/L	10	9/3/2006 8:26:00 PM
Fluoride	0.793		0.100	mg/L	1	9/3/2006 6:37:00 PM
Sulfate	97.0		10.0	mg/L	10.	9/3/2006 8:26:00 PM
Nitrate/Nitrite (as N)	4.08		0.500	mg/L	5	9/7/2006 10:47:00 AM
Surr: Selenate (surr)	108		80-120	%REC	1	9/3/2006 6:37:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 11 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-03

Date: September 20, 2006

Client Sample ID: G Lact MW5 Collection Date: 8/24/2006 11:08:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	108		80-120	%REC	10	9/3/2006 8:26:00 PM
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 10:47:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM
NITRITE Nitrogen, Nitrite	ND		E 354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	6.81	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	794		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006



ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range

H - Analyzed outside of Hold Time

BBC International

0608511

Date: September 20, 2006

Client Sample ID: G Lact MW4 Collection Date: 8/24/2006 1:20:00 PM

 Project:
 Hess Texaco

 Lab ID:
 0608511-04

CLIENT:

Work Order:

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470)	Prep Date: 9/5/2006	S Analyst: JCJ
Mercury	ND		0.000200	mg/L	1	9/5/2006 7:05:05 PM
ICP METALS. TOTAL			SW6020)	Prep Date: 9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	. 1	9/2/2006 1:41:00 AM
Arsenic	0.00551		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Barium	0.110		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Boron	0.152		0.0200	mg/L	1	9/2/2006 1:41:00 AM
Cadmium	ND		0.00200	mg/L	1	9/2/2006 1:41:00 AM
Chromium	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Cobalt	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Соррег	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Iron	ND		0.200	mg/L	1	9/2/2006 1:41:00 AM
Lead	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Manganese	1.57		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Molybdenum	0.00668		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Nickel	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Selenium	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Silver	ND		0.00500	mg/L	1	9/2/2006 1:41:00 AM
Uranium	0.00797		0.00500	mg/L	1	9/19/2006 10:03:00 PM
Zinc	0.00540		0.00500	mg/L	1	9/2/2006 1:41:00 AM
SEMIVOLATILE ORGANICS BY GC/MS	5		SW827	D	Prep Date: 8/28/200	6 Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
1-Methylnaphthalene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	μg/L	1	9/6/2006 8:33:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,4-Dinitrophenol	ND		10	μg/L	1	9/6/2006 8:33:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2-Chiorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2-Methylnaphthalene	ND		10	μg/L	1	9/6/2006 8:33:00 PM
2-Methylphenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
2-Nitrophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
3&4-Methylphenol	ND		10	μg/L	1	9/6/2006 8:33:00 PM
3,3'-Dichlorobenzidine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM

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Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

J - Analyte detected below quantitation limits

E - Value above quantitation range H - Analyzed outside of Hold Time

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CLIENT: BBC International Work Order: 0608511

Project: Lab ID:

Hess Texaco

0608511-04

Date: September 20, 2006

Client Sample ID: G Lact MW4 Collection Date: 8/24/2006 1:20:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	μg/L	1	9/6/2006 8:33:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Hexachlorobenzene	ND		10	μg/L	1	9/6/2006 8:33:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
isophorone	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitroso-di-n-butylamine	ND		10	μg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
VOLATILES BY GC/MS			SW826	0		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time



CLIENT:	BBC International
Work Order:	0608511
Project:	Hess Texaco
Lab ID:	0608511-04

Date: September 20, 2006

Client Sample ID: G Lact MW4 Collection Date: 8/24/2006 1:20:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Acrolein	ND		20	µg/L	1	8/30/2006 1:26:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 1:26:00 PM
Benzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chloromethane	ND		5.0	μg/L	1	8/30/2006 1:26:00 PM
cis-1,2-Dichloroethene	ND		5.0	μg/L	1	8/30/2006 1:26:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
m,p-Xylene	ND		10	µg/L	1	8/30/2006 1:26:00 PM
Methylene chloride	ND		10	μg/L	1	8/30/2006 1:26:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 1:26:00 PM
Surr: 1,2-Dichloroethane-d4	115		70-125	%REC	1	8/30/2006 1:26:00 PM
Surr: 4-Bromofluorobenzene	106		72.4-125	%REC	1	8/30/2006 1:26:00 PM
Surr: Dibromofluoromethane	113		71.2-125	%REC	1	8/30/2006 1:26:00 PM
Surr: Toluene-d8	104		75-125	%REC	1	8/30/2006 1:26:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	99.8		5.00	mg/L	10	9/3/2006 8:48:00 PM
Fluoride	1.16		0.100	mg/L	1	9/3/2006 6:58:00 PM
Sulfate	62.9		10.0	mg/L	10	9/3/2006 8:48:00 PM
Nitrate/Nitrite (as N)	ND		0.500	mg/L	5	9/7/2006 11:09:00 AM
Surr: Selenate (surr)	110		80-120	%REC	1	9/3/2006 6:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 15 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-04

Date: September 20, 2006

Client Sample ID: G Lact MW4 Collection Date: 8/24/2006 1:20:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	109		80-120	%REC	10	9/3/2006 8:48:00 PM
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 11:09:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM
NITRITE Nitrogen, Nitrite	ND		E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	6.82	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	646		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006



Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

Date: September 20, 2006

Client Sample ID: G Lact MW6 Collection Date: 8/24/2006 2:54:00 PM

Matrix: WATER

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

0608511-05

Lab ID:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL			SW747)	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 7:06:54 PM
ICP METALS, TOTAL			SW6020	D	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 2:05:00 AM
Arsenic	0.00956		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Barium	0.0522		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Boron	0.270		0.0200	mg/L	1		9/2/2006 2:05:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 2:05:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Copper	0.0161		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 2:05:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Manganese	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Molybdenum	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 2:05:00 AM
Uranium	0.00775		0.00500	mg/L	1		9/19/2006 10:09:00 PM
Zinc	0.00600		0.00500	mg/L	1		9/2/2006 2:05:00 AM
SEMIVOLATILE ORGANICS BY GC/MS			SW827	D	Prep Date:	8/28/2006	S Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	- µg/L	1		9/6/2006 9:00:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 9:00:00 PM
1-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	ug/L	1		9/6/2006 9:00:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2-Chlorophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2-Methylnaphthalene	ND		10	μg/L	1		9/6/2006 9:00:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM
3,3 ⁻ -Dichlorobenzidine	ND		10	µg/L	1		9/6/2006 9:00:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 9:00:00 PM



Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

 ${\bf S}$ - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

0608511-05

Lab ID:

Date: September 20, 2006

Client Sample ID: G Lact MW6 Collection Date: 8/24/2006 2:54:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 9:00:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Anthracene	ND		10	·µg/L	1	9/6/2006 9:00:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 9:00:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Pentachlorophenol	ND		10	μg/L	1	9/6/2006 9:00:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM
VOLATILES BY GC/MS			SW8260	נ		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-05

Date: September 20, 2006

Client Sample ID: G Lact MW6 Collection Date: 8/24/2006 2:54:00 PM

Matrix: WATER

		Report			Dilution		
Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed	
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,2-Dichlorobenzene	ND		5.0	μg/L	1	8/30/2006 1:55:00 PM	
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Acrolein	ND		20	µg/L	1	8/30/2006 1:55:00 PM	
Acrylonitrile	ND		10	µg/L	1	8/30/2006 1:55:00 PM	
Benzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Bromomethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chloroform	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chloromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
m,p-Xylene	ND		10	µg/L	1	8/30/2006 1:55:00 PM	
Methylene chloride	ND		10	µg/L	1	8/30/2006 1:55:00 PM	
o-Xylene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Toluene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 1:55:00 PM	
Surr: 1,2-Dichloroethane-d4	112		70-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: 4-Bromofluorobenzene	105		72.4-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: Dibromofluoromethane	108		71.2-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: Toluene-d8	104		75-125	%REC	1	8/30/2006 1:55:00 PM	
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD	
Chloride	389		10.0	mg/L	20	9/3/2006 9:10:00 PM	
Fluoride	2.18		0.100	mg/L	1	9/3/2006 7:20:00 PM	
Sulfate	489		20.0	mg/L	20	9/3/2006 9:10:00 PM	
Nitrate/Nitrite (as N)	7.49		0.500	mg/L	5	9/7/2006 11:30:00 AM	
Surr: Selenate (surr)	109		80-120	%REC	1	9/3/2006 7:20:00 PM	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits P - Dual Column results percent difference > 40%

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-05

Client Sample ID: G Lact MW6 Collection Date: 8/24/2006 2:54:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	106		80-120	%REC	20	9/3/2006 9:10:00 PM
Surr: Selenate (surr)	114		80-120	%REC	5	9/7/2006 11:30:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: LMD 9/3/2006
NITRITE Nitrogen, Nitrite	0.438		E354.1 0.0200	mg/L	2	Analyst: RPM 8/26/2006
PH pH	7.02	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	1,690		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006



ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 20 of 25

Date: September 20, 2006

CLIENT: BBC International Work Order: 0608511 **Project:** Hess Texaco Lab ID: 0608511-06

Client Sample ID: Duplicate Collection Date: 8/24/2006

Matrix: WATER

Analyses	Result	Ro Qual L	eport _imit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL		Ş	SW747(0	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND	0.	000200	mg/L	1		9/5/2006 7:08:44 PM
ICP METALS, TOTAL		\$	SW6020	0	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 2:11:00 AM
Arsenic	0.00505	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Barium	0.0735	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Boron	0.161		0.0200	mg/L	1		9/2/2006 2:11:00 AM
Cadmium	ND	(0.00200	mg/L	1		9/2/2006 2:11:00 AM
Chromium	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Cobalt	ND	(0.00500	mg/L	<u> </u>		9/2/2006 2:11:00 AM
Copper	. ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
iron	ND		0.200	mg/L	1		9/2/2006 2:11:00 AM
Lead	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Manganese	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Molybdenum	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Nickel	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Selenium	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Silver	ND	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
Uranium	0.00603		0.00500	mg/L	1		9/19/2006 10:15:00 PM
Zinc	0.00900	(0.00500	mg/L	1		9/2/2006 2:11:00 AM
SEMIVOLATILE ORGANICS BY G	C/MS	;	SW827	0	Prep Date:	8/28/2006	Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1		9/6/2006 4:55:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 4:55:00 PM
1-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,3,4,6-Tetrachiorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4-Dichlorophenol	ND		10	μg/L	1		9/6/2006 4:55:00 PM
2,4-Dimethylphenol	ND		10	μg/L	1		9/6/2006 4:55:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,6-Dichlorophenol	ND		10	μg/L	1		9/6/2006 4:55:00 PM
2-Chiorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
3,3 ⁻ -Dichlorobenzidine	ND		10	µg/L	1		9/6/2006 4:55:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-06

Date: September 20, 2006

Client Sample ID: Duplicate Collection Date: 8/24/2006

Matrix: WATER

			Report		Dilution	
Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	μg/L	1	9/6/2006 4:55:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Benzidine	ND		10	μg/L	1	9/6/2006 4:55:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 4:55:00 PM
indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 4:55:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM
VOLATILES BY GC/MS			SW8260)		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM

Qualifiers: ND

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

 ${\bf S}$ - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time



i,

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

0608511-06

Lab ID:

Date: September 20, 2006

Client Sample ID: Duplicate Collection Date: 8/24/2006

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Acrolein	ND		20	µg/L	1	8/30/2006 2:24:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 2:24:00 PM
Benzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Chloromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM ·
m,p-Xylene	ND		10	µg/L	1	8/30/2006 2:24:00 PM
Methylene chloride	ND		10	µg/L	1	8/30/2006 2:24:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 2:24:00 PM
Surr: 1,2-Dichloroethane-d4	111		70-125	%REC	1	8/30/2006 2:24:00 PM
Surr: 4-Bromofluorobenzene	100		72.4-125	%REC	1	8/30/2006 2:24:00 PM
Surr: Dibromofluoromethane	106		71.2-125	%REC	1	8/30/2006 2:24:00 PM
Surr: Toluene-d8	99.7		75-125	%REC	1	8/30/2006 2:24:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: PV
Chloride	173		5.00	mg/L	10	9/6/2006 4:06:00 AM
Fluoride	0.818		0.100	mg/L	1	9/6/2006 3:44:00 AM
Sulfate	97.5		10.0	mg/L	10	9/6/2006 4:06:00 AM
Nitrate/Nitrite (as N)	4.15		0.500	mg/L	5	9/7/2006 11:52:00 AM
Surr: Selenate (surr)	104		80-120	%REC	1	9/6/2006 3:44:00 AM



Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits P - Dual Column results percent difference > 40%

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-06

Client Sample ID: Duplicate Collection Date: 8/24/2006

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	102		80-120	%REC	10	9/6/2006 4:06:00 AM
Surr: Selenate (surr)	119		80-120	%REC	5	9/7/2006 11:52:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: LMD 9/3/2006
NITRITE Nitrogen, Nitrite	ND		E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
РН pH	6.89	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	726		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006



ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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BBC International

0608511

Hess Texaco

0608511-07

CLIENT:

Project: Lab ID:

Work Order:

Date: September 20, 2006

Client Sample ID: Equipment Rinse Collection Date: 8/24/2006 3:45:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS			SW8260)		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,1-Dichloroethene	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Acrolein	ND		20	µg/l_	1	8/30/2006 4:52:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 4:52:00 PM
Benzene	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Chloromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Ethylbenzene	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM
m,p-Xylene	ND		10	µg/L	1	8/30/2006 4:52:00 PM
Methylene chloride	ND		10	µg/L	1 · .	8/30/2006 4:52:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 4:52:00 PM
Surr: 1,2-Dichloroethane-d4	113		70-125	%REC	1	8/30/2006 4:52:00 PM
Surr: 4-Bromofluorobenzene	104		72.4-125	%REC	1	8/30/2006 4:52:00 PM
Surr: Dibromofluoromethane	110		71.2-125	%REC	1	8/30/2006 4:52:00 PM
Surr: Toluene-d8	105		75-125	%REC	1	8/30/2006 4:52:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

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CLIENT:	BBC International
Vork Order:	0608511
Project:	Hess Texaco

Date: Sep 20 2006

QC BATCH REPORT

												
Batch ID: 19	613 Instrument ID I	CP7500		Method	: SW602	20						
MBLK	Sample ID: MBLKW4-09010	6					Ur	nits: mg/L	-	Analysis D	ate: 09/05	5/06 14:55
Client ID:		Run	ID: ICP7500	_060905A		Se	eqNo: 9424	37	Prep Date: 9	/1/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic		ND	0.0050									
Barium		ND	0.0050									
Cadmium		ND	0.0020									
Chromium		ND	0.0050									
Cobalt		ND	0.0050									
Copper		ND	0.0050									
Lead		ND	0.0050									
Manganese		ND	0.0050									
Nickel		ND	0.0050			• • •						
Selenium		ND	0.0050									
Silver		ND	0.0050		<u>.</u>							
Zinc		ND	0.0050									
LCS	Sample ID: MLCSW4-09010)6					U	nits: ma/L	_	Analysis D)ate: 09/02	2/06 0:39
Client ID:		Rur	n ID: ICP750	0 060901A		Se	eqNo: 9418	B62	Prep Date: 9	/1/2006	DF: 1	
				_		,	•	0			חחמ	
Analyte		Result	POI	SPK Val	Value	[%REC	Limit	Value	%RPD	Limit	Qual
	· · · · · · · · · · · · · · · · · · ·	T Coult					701120					
Arsenic		0.04941	0.0050	0.05		0	98.8	80-121	,	0		
Banum		0.04709	0.0050	0.05		0	94.2	79.8-119	<u>}</u>	0		
Cadmium		0.04779	0.0020	0.05		0	95.6	79.1-119)	0		
Chromium	4757 <u>-7-714</u>	0.04729	0.0050	0.05		0	94.6	79.3-121		0		·
Cobalt		0.05226	0.0050	0.05		0	105	82-121		0		
Copper		0.04715	0.0050	0.05		0	94.3	81-120		0		
Lead		0.0485	0.0050	0.05		0	97	80-118		0		
Manganese		0.0434	0.0050	0.05		0	86.8	82-119		0		
Nickel		0.04936	0.0050	0.05		0	98.7	82-120		0		
Selenium		0.04814	0.0050	0.05		0	96.3	79.2-118	3	0		
Silver		0.04842	0.0050	0.05		0	96.8	80-117		0		
Zinc		0.05255	0.0050	0.05		0	105	79-118		0		

- D Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- O Referenced analyte value is > 4 times amount spiked
- S Spike Recovery outside accepted recovery limits
- its B Analyte detected in assoc. Method Blank
 - U Analyzed for but not detected
- P Dual Column results percent difference > 40%

R - RPD outside accepted recovery limits

E - Value above quantitation range QC Page: 1 of 32

CLIENT: Work Order:

BBC International 0608511

QC BATCH REPORT

Hess Texaco roject:

Batch ID: 19	613 Instrument	ID ICP7500		Method	: SW6020						
MS	Sample ID: 0608575-09	AMS		<u></u>		U	nits: mg/L		Analysis Da	ate: 09/02 /	/06 3:55
Client ID:		Run	D: ICP750	0_060901A	Se	qNo: 941	904 f	Prep Date: 9/1/	2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic		0.05309	0.0050	0.05	0.0007945	105	80-121	0			
Barium		0.7217	0.0050	0.05	0.6631	117	79.8-119	0			0
Cadmium		0.05282	0.0020	0.05	0.0001334	105	79.1-119	0			
Chromium		0.05078	0.0050	0.05	0.001275	99	79.3-121	0			
Cobalt		0.0532	0.0050	0.05	0.0004028	106	82-121	0			
Copper		0.04924	0.0050	0.05	0.001655	95.2	80-120	_0			
Lead		0.05267	0.0050	0.05	0.0004033	105	80-118	0			
Manganese		0.08464	0.0050	0.05	0.03973	89.8	82-119	0			
Nickel		0.0512	0.0050	0.05	0.001156	100	82-120	0			
Selenium	·	0.05156	0.0050	0.05	0.001587	99.9	79.2-118	0			
Silver		0.04893	0.0050	0.05	-0.0002642	98.4	80-117	0			
Zinc		0.05685	0.0050	0.05	0.00643	101	79-118	0			
MSD	Sample ID: 0608575-09	AMSD				U	nits: mg/L	/	Analysis Da	ate: 09/02	/06 4:01
Client ID:		Run	ID: ICP750	0_060901A	Se	qNo: 941	905	Prep Date: 9/1/	2006	DF: 1	
inalyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quai
Arsenic		0.05162	0.0050	0.05	0.0007945	102	80-121	0.05309	2.81	15	
Barium		0.6844	0.0050	0.05	0.6631	42.6	79.8-119	0.7217	5.31	15	SO
Cadmium		0.05089	0.0020	0.05	0.0001334	102	79.1-119	0.05282	3.72	15	
Chromium		0.05031	0.0050	0.05	0.001275	98.1	79.3-121	0.05078	0.93	15	
Cobalt		0.05248	0.0050	0.05	0.0004028	104	82-121	0.0532	1.36	15	
Copper		0.04926	0.0050	0.05	0.001655	95.2	81-120	0.04924	0.0406	15	
Lead		0.05214	0.0050	0.05	0.0004033	103	80-118	0.05267	1.01	15	
Manganese		0.0839	0.0050	0.05	0.03973	88.3	82-119	0.08464	0.878	15	
Nickel		0.0503	0.0050	0.05	0.001156	98.3	82-120	0.0512	1.77	15	
Selenium		0.05087	0.0050	0.05	0.001587	98.6	79.2-118	0.05156	1.35	15	
Silver		0.04919	0.0050	0.05	-0.0002642	98.9	80-117	0.04893	0.53	15	-

Zinc

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

0.05598

0.0050

0.05

S - Spike Recovery outside accepted recovery limits

0.00643

99.1

79-118

0.05685

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

1.54

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 2 of 32

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QC BATCH REPORT

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CLIENT: BBC International

0608511

Work Order: Project: Hess Texaco

Batch ID: 19	613 Instrument ID ICP7500		Method	: SW602 0						
DUP	Sample ID: 0608575-09ADUP				U	nits: mg /	L A	nalysis Da	ate: 09/02	06 3:31
Client ID:	Run	ID: ICP7	500_060901A	s	eqNo: 941	901	Prep Date: 9/1/2	2006	DF: 1	
Analyte	Result	PQL	_ SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050	0 (0	0	0-0	0.0007945	0	25	
Barium	0.641	0.0050) 0	0	0	0-0	0.6631	3.39	25	
Cadmium	ND	0.0020	0 0	0	0	0-0	0.0001334	0	25	
Chromium	0.001022	0.0050	0 0	0	0	0-0	0.001275	0	25	J
Cobalt	0.0003393	0.0050) ()	0	0	0-0	0.0004028	0	25	J
Copper	0.001538	0.0050	0 0	0	0	0-0	0.001655	0	25	J
Lead	0.0004733	0.0050) ()	0	0	0-0	0.0004033	0	25	J
Manganese	0.03879	0.0050	0 0	0	0	0-0	0.03973	2.39	25	
Nickel	0.001091	0.0050) 0	0	0	0-0	0.001156	0	25	J
Selenium	ND	0.0050	0 0	0	0	0-0	0.001587	0	25	
Silver	ND	0.0050	0 0	0	0	0-0	-0.0002642	0	25	
Zinc	0.008021	0.0050	0 0	0	0	0-0	0.00643	22	25	
The followi	ng samples were analyzed in this batch	n:	0608511-01D 0608511-04D	060	8511-02D 8511-05D	06	08511-03D 08511-06D			



ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 3 of 32

Work Orde Project:	er: 0608511 Hess Texaco										
Batch ID: 19	35 Instrument ID Mercury		Metho	d: SW74 7	70						
MBLK	Sample ID: GBLKW3-090506					UI	nits: mg/l	_ A	nalysis D	ate: 09/05 /	06 18:34
Client ID:	Run	ID: MERC	CURY_06090	5C ·	Sec	qNo: 942	523	Prep Date: 9/5/2	2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020)								
LCS	Sample ID: GLCSW3-090506					U	nits: mg/l	L A	nalysis D	ate: 09/05 /	06 18:36
Client ID:	Run	ID: MERC	CURY_06090	5C	Sec	qNo: 942!	524	Prep Date: 9/5/2	2006	DF: 1	
Analyte	Result	PQL	_ SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.00020	0.005		0	101	85-115	0			
LCSD	Sample ID: GLCSDW3-090506	· · · · · · · · · · · · · · · · · · ·				U	nits: mg/l	L A	nalysis D	ate: 09/05 /	06 18:38
Client ID:	Run	ID: MER	CURY_06090	5C	Sec	qNo: 942	525	Prep Date: 9/5/2	2006	DF: 1	
Analyte	Result	PQI	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00504	0.00020	0 0.005		0	101	85-115	0.00506	0.396	3 20	
MS	Sample ID: 0608613-08CMS					U	nits: mg/ i	L A	nalysis D)ate: 09/05 /	/06 18:47
Client ID:	Run	ID: MER	CURY_06090	5C	Sec	qNo: 942	528	Prep Date: 9/5/2	2006	DF: 1	
Analyte	Result	PQI	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.00020	0 0.005	0.0000	55	9 5.5	85-115	· 0			
MSD	Sample ID: 0608613-08CMSD	· · · · · · · · · · · · · · · · · · ·				U	nits: mg/	L A	nalysis D)ate: 09/05 /	06 18:48
Client ID:	Run	ID: MER	CURY_06090	5C	Se	qNo: 942	529	Prep Date: 9/5/2	2006	DF: 1	
Analyte	Result	PQI	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.00020	0.005	0.0000	55	98.5	85-115	0.00483	3.0	5 20	
DUP	Sample ID: 0608613-08CDUP					U	nits: mg/	L A	nalysis D)ate: 09/05 /	/06 18:45
Client ID:	Run	ID: MER	CURY_06090	5C	Se	qNo: 942	527	Prep Date: 9/5/	2006	DF: 1	
Analyte	Result	PQI	L SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.0002	0 0		0	0	0-0	0.000055	1	0 20	
The followir	ng samples were analyzed in this batch	n:	0608511-01D 0608511-04D	0	6085 6085	511-02D 511-05D	06 06	08511-03D 08511-06D			



CLIENT:

BBC International

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits P - Dual Column results percent difference > 40% B - Analyte detected in assoc. Method Blank

QC BATCH REPORT

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 4 of 32

CLIENT:	BBC International								QC	BATC	H REI	PORT
Work Order Project:	Hess Texaco											
Batch ID: 1986	1 Instrument ID ICF	MS02		Method	l: SW60;	20						
MBLK S	Sample ID: MBLKW1-091806				<u></u>		Uı	nits: mg/l		Analysis Da	ate: 09/19 /	06 19:38
Client ID:		Run	id: ICPM	502_060919A	L .	Seq	jNo: 9521	120	Prep Date: 9/	18/2006	DF: 1	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium		ND	0.0050)						· · · · · · · · · · · · · · · ·		
LCS	Sample ID: MLCSW1-091806						U	nits: mg/l		Analysis Da	ate: 09/19 /	06 19:44
Client ID:		Run	ID: ICPM	S02_060919A	N N	Sec	7No: 952	121	Prep Date: 9/	18/2006	DF: 1	
Analyte	f	Result	PQL	SPK Val	SPK Ref Value	· ·	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	0.0	04614	0.0050	0.05		0	92.3	80-120		0		
MS	Sample ID: 0608511-01DMS						U	nits: mg/l		Analysis Da	ate: 09/19/	06 20:07
Client ID: G La	act MW1	Run	ID: ICPM	S02_060919A	۱.	Sec	įNo: 952 '	125	Prep Date: 9/	18/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	F	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	0.1	05551	0.0050	0.05	0.0053	324	100	80-120		0		
MSD	Sample ID: 0608511-01DMSD						U	nits: mg/l	L	Analysis Da	ate: 09/19 /	06 20:13
Client ID: G La	act MW1	Run	ID: ICPM	S02_060919A	4	Sec	No: 952	126	Prep Date: 9/	18/2006	DF: 1	
Analyte		Result	PQL	_ SPK Val	SPK Ref Value	F	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	0.	05597	0.0050	0.05	0.0053	324	101	80-120	0.0555	51 0.825	15	
DUP	Sample ID: 0608511-01DDUP						U	nits: mg/	 L	Analysis Da	ate: 09/19/	06 19:55
Client ID: G L	act MW1	Run	ID: ICPM	IS02_060919/	4	Sec	qNo: 952	123	Prep Date: 9/	18/2006	DF: 1	
Analyte	1	Result	PQI	_ SPK Val	SPK Rei Value	F	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	0.0	05577	0.0050	0 0		0	0		0.00532	24 4.64	20	
The following	samples were analyzed in th	nis batch	ະ [0608511-01D 0608511-04D	0	6085 6085	11-02D 11-05D	06	08511-03D 08511-06D			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 5 of 32
BBC International

0608511

QC BATCH REPORT

Project: Hess Texaco

CLIENT:

Work Order:

Batch ID: 19509	Instrument ID SV-2		Method	d: SW82	70					
MBLK Sample ID: \$	SBLKW1-060828				U	nits: µg/L	-	Analysis D	ate: 08/29	0/06 14:08
Client ID:	Ru	in ID: SV-2_0	60830A		SegNo: 938	558	Prep Date: 8/	28/2006	DF: 1	
				SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
1,2,4,5-Tetrachlorobenzene	e ND	10								
1,2-Diphenylhydrazine	ND	10								
1-Methylnaphthalene	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10	• • • • • • • • • • • • • • • • • • •				····			
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2-Chlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2 Nitrophonol		10		·····						
2-Millophenol		10								
3 3'-Dicblorobenzidine		10					against a lands			
4 6-Dinitro-2-methylphenol	ND ND	10								
4-Chloro-3-methylphenol	ND	10	,							
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ethe	r ND	10								
Bis(2-etnyinexyi)phthalate		10								
Di-n-bubyl obtbalate		10						1		
Dibenz(a h)anthracene		10								
Diethvi phthalate	ND	10								
Dimethyl phthalate	ND	10						<u></u>		
Fluoranthene	ND	10								
Fluorene	ND	10								• • • • • • • • •
Hexachlorobenzene	ND	10								
		· · · · · · · · · · · · · · · · · · ·								

WD - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method BlankU - Analyzed for but not detected

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40% E - Value above quantitation range

BBC International

QC BATCH REPORT

Work Order: Project:

í

0608511 Hess Texaco

Batch ID: 19509	Instrument ID SV-2	Method: SW8270
Hexachlorocyclopentadiene	e ND 10	
Hexachloroethane	ND 10	
indeno(1,2,3-cd)pyrene	ND 10	······································
Isophorone	ND 10	
N-Nitroso-di-n-butylamine	ND 10	
N-Nitrosodiethylamine	ND 10	
N-Nitrosodimethylamine	ND 10	
N-Nitrosodiphenylamine	ND 10	
N-Nitrosopyrrolidine	ND 10	
Naphthalene	ND 10	
Nitrobenzene	ND 10	
Pentachlorobenzene	ND 10	
Pentachlorophenol	ND 10	
Phenanthrene	ND 10	
Pyrene	ND 10	

ID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 7 of 32

Work Order:

0608511

QC BATCH REPORT

Project: Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Metho	d: SW827	70					
MBLK Sample ID: \$	SBLKW1-060828				U	Inits: µg/L	-	Analysis D	ate: 09/06	5/06 13:16
Client ID:	Ru	n ID: SV-2_0	60830A		SeqNo: 944	005	Prep Date: 8/	28/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1245 Tetrachlorobenzen		10								
1.2.Dinbenvlbydrazine		10			····•					<u>_</u>
1-Methylnaphthalene	ND	10								
2346-Tetrachlorophenol	ND	10								
2.4.5-Trichlorophenol	ND	10								
246-Trichlorophenol	ND	10								
2.4-Dichlorophenol	ND	10								
2.4-Dimethylphenol	ND	10					······································			
2.4-Dinitrophenol	ND	10								
2.4-Dinitrotoluene	ND	10								
2,6-Dichlorophenol	ND	10								
2-Chlorophenol	ND	10		_,						
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitrophenol	ND	10								
3&4-Methylphenol	ND	10								
3,3'-Dichlorobenzidine	ND	10								
4,6-Dinitro-2-methylphenol	ND	10				-				
4-Chloro-3-methylphenol	ND	10								
4-Nitrophenol	ND	10					· · ·			
Acenaphthene	ND	10								
Acenaphthylene	ND	10				· ·				
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Benzo(a)pyrene	ND	10		·						
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ethe	r ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								

ND

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 8 of 32

Work Order:

BBC International

0608511

QC BATCH REPORT

Project: Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Method:	SW8270	
Hexachlorocyclopentadiene	ND	10			
Hexachloroethane	ND	10			
Indeno(1,2,3-cd)pyrene	ND	10			
Isophorone	· ND	10			
N-Nitroso-di-n-butylamine	ND	10			
N-Nitrosodiethylamine	ND	10			
N-Nitrosodimethylamine	ND	10			
N-Nitrosodiphenylamine	ND	10			
N-Nitrosopyrrolidine	ND	10			
Naphthalene	ND	10			
Nitrobenzene	ND	10			
Pentachlorobenzene	ND	10			
Pentachlorophenol	ND	10			
Phenanthrene	ND	10			
Pyrene	ND	10			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

CLIENT: BBC International

Work Order: 0608511

QC BATCH REPORT

Project: Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Metho	d: SW8270						
LCS Sample ID: S	SLCSW1-060828				L	Inits: µg/L	<u></u>	Analysis D	Date: 08/30)/06 11:15
Client ID:	Rur	ID: SV-2_0	60830A	· s	eqNo: 938	560 I	Prep Date: 8	/28/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1245-Tetrachlombenzene	52 50	10	50	^	105	30 1-115		۰۰۰۰۰۰ ۵		
1.2,4,0-Tetracillorobenzene	- JZ.J9 31.55	10	50	0	63.1	59-134		0		
1-Methvinaphthalene	34.68	10	50	0	69.4	58 5-137		0	······ · ·	
2.3.4.6-Tetrachlorophenol	68.79	10	100	0	68.8	61.3-125		0		
2.4.5-Trichlorophenol	67.37	10	100	0	67.4	59.2-126		0		
2,4,6-Trichlorophenol	69.24	10	100	0	69.2	59.8-120		0		
2,4-Dichlorophenol	69.65	10	100	0	69.6	57.6-121		0		
2,4-Dimethylphenol	67.21	10	100	0	67.2	57.2-115		0		
2,4-Dinitrophenol	67.32	10	100	0	67.3	46.2-124		0.		
2,4-Dinitrotoluene	34.63	10	50	0	69.3	62.9-126		0		
2,6-Dichlorophenol	93.6	10	100	0	93.6	63.1-120		0		
2-Chlorophenol	71.49	10	100	0	71.5	54.3-115		0		
2-Methylnaphthalene	38.09	10	50	0	76.2	51.4-124		0		
2-Methylphenol	74.44	10	100	0	74.4	41.5-115		0		
2-Nitrophenol	68.67	10	100	0	68.7	57.2-115		0		
3&4-Methylphenol	110.8	10	150	0	73.9	33.3-115		0		
3,3'-Dichlorobenzidine	29.08	10	50	0	58.2	26.7-118		0		
4,6-Dinitro-2-methylphenol	70.53	10	100	0	70.5	60.1-129		0		
4-Chioro-3-methylphenol	69.15	10	100	0	69.2	55.5-120		0		
4-Nitrophenol	75.35	10	100	0	75.4	17-100		0		
Acenaphthene	34.44	10	50	0	68.9	63.1-120	•	0		
Acenaphthylene	34.09	10	50	0	68.2	62.8-118		0		
Anthracene	34.31	10	50	0	68.6	64.5-128		0		
Benz(a)anthracene	36.31	10	50	0	72.6	60.1-125		0		
Benzidine	15.53	10	50	0	31.1	10-115		0		
Benzo(a)pyrene	34.2	10	50	0	68.4	56.7-135		0		
Benzo(b)fluoranthene	36.33	10	50	0	72.7	50.5-134		0		
Benzo(g,h,i)perylene	34.14	10	50	0	68.3	52.2-138		0		
Benzo(K)nuoraninene	34.32	10	50	0	68.6	60-140		0		
Bis(2-chiloroethyl)ether	30.88	10	50	0	/1.8	62.3-115		0		
Bis(2-chiloroisopropyi)ether	30.14 35.50	10	50	0	70.3	54.9-117		0		
Chorsene	35.00	10	50	0	71.1	09.1-130 62.4.105		0		
Di-n-bubyl phthalate	35.66	10	50	0	71.3	64 6 133		0		
Dibenz(a h)anthracene	34.87	10	50	0	69.7	49.2-136	N1-03-0-1	0		
Diethyl phthalate	34 27	10	50	0 n	68.5	62 7-120		0		
Dimethyl phthalate	34 62	10	<u> </u>	0	60.0	63 7-129		0		
Fluoranthene	35.4	10	50	0 N	70.8	61 2-129		n		
Fluorene	34.44	10	50	0	68.9	64 9-121		0		
Hexachlorobenzene	33.57	10	50	0	67.1	65.6-126		0		
				-						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

P - Dual Column results percent difference > 40%

Project:

BBC International

Work Order: 0608511 Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Method:	SW8270				
Hexachlorocyclopentadiene	30.78	10	50	0	61.6	43.4-120	0	
Hexachloroethane	35.15	.10	50	0	70.3	60-115	0	
Indeno(1,2,3-cd)pyrene	32.77	10	50	0	65.5	50.3-123	0	
Isophorone	35.19	10	50	0	70.4	62-121	0	
N-Nitrosodimethylamine	35.79	10	50	0	71.6	18-115	0	
N-Nitrosodiphenylamine	35.5	10	50	0	71	65.1-136	0	
Naphthalene	34.77	10	50	0	69.5	59.9-115	0	
Nitrobenzene	35.06	10	50	0	70.1	59.1-134	0	
Pentachlorobenzene	55.13	10	50	0	110	40-130	0	
Pentachiorophenol	68.54	10	100	0	68.5	51.3-134	0	
Phenanthrene	34.58	10	50	0	69.2	65.2-122	0	
Pyrene	35.41	10	50	0	70.8	59.7-121	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

BBC International Work Order: 0608511

Hess Texaco Project:

Batch ID: 19509	Instrument ID SV-2		Metho	d: SW8270						
LCSD Sample ID: S	LCSDW1-060828				U	nits: µg/L	A	nalysis Da	ate: 08/30/	06 11:43
Client ID:	Ru	n ID: SV-2_0	60830A	Se	qNo: 938	561 F	Prep Date: 8/28	/2006	DF: 1	
Analyte	Result	POI	SPK Val	SPK Ref Value	%RFC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
		1 QL	<u>oricitar</u>		70.120					
1,2,4,5-Tetrachlorobenzene	54.39	10	50	0	109	39.4-115	52.59	3.37	20	
1,2-Diphenylhydrazine	31.85	10	50	0	63.7	59-134	31.55	0.921	20	
1-Methylnaphthalene	35.77	10	50	0	71.5	58.5-137	34.68	3.08	·20	
2,3,4,6-Tetrachlorophenol	70.43	10	100	0	70.4	61.3-125	68.79	2.36	20	
2,4,5-Trichlorophenol	68.44	10	100	0	68.4	59.2-126	67.37	1.57	20	
2,4,6-Trichlorophenol	69.27	10	100	0	69.3	59.8-120	69.24	0.0465	20	
2,4-Dichlorophenol	71.63	10	100	0	71.6	57.6-121	69.65	2.81	20	
2,4-Dimethylphenol	69.59	10	100	0	69.6	57.2-115	67.21	3.48	20	
2,4-Dinitrophenol	71.42	10	100	0	71.4	46.2-124	67.32	-5.91	20	
2,4-Dinitrotoluene	35.58	10	50	0	71.2	62.9-126	34.63	2.7	20	
2,6-Dichlorophenol	97.28	10	100	0	97.3	63.1-120	93.6	3.86	20	
2-Chlorophenol	72.58	10	100	0	72.6	54.3-115	71.49	1.51	20	
2-Methylnaphthalene	39.2	10	50	0	78.4	51.4-124	38.09	2.88	20	
2-Methylphenol	77.66	10	100	0	77.7	41.5-115	74.44	4.23	20	
2-Nitrophenol	70.14	10	100	0	70.1	57.2-115	68.67	2.12	20	
3&4-Methylphenol	115.3	10	150	0	76.8	33.3-115	110.8	3.97	20	
3,3'-Dichlorobenzidine	26.13	10	50	0	52.3	26.7-118	29.08	10.7	20	
4,6-Dinitro-2-methylphenol	71.39	10	100	0	71.4	60.1-129	70.53	1.22	20	
4-Chloro-3-methylphenol	72.32	10	100	0	72.3	55.5-120	69.15	4.48	20	
4-Nitrophenol	76.36	10	100	0	76.4	17-100	75.35	1.32	20	
Acenaphthene	35.15	10	50	0	70.3	63.1-120	34.44	2.04	20	
Acenaphthylene	34.6	10	50	0	69.2	62.8-118	34.09	1.5	20	
Anthracene	35.15	10	50	0	70.3	64.5-128	34.31	2.44	20	
Benz(a)anthracene	36.29	10	50	0	72.6	60.1-125	36.31	0.0552	20	
Benzidine	14.21	10	50	0	28.4	10-115	15.53	8.87	20	
Benzo(a)pyrene	34.74	10	50	0	69.5	56.7-135	34.2	1.55	20	
Benzo(b)fluoranthene	36.99	10	50	0	74	50.5-134	36.33	1.81	20	
Benzo(g,h,i)perylene	33.76	10	50	0	67.5	52.2-138	34.14	1.11	20	
Benzo(k)fluoranthene	35.42	10	50	0	70.8	60-140	34.32	3.18	20	
Bis(2-chloroethyl)ether	36.58	10	50	0	73.2	62.3-115	35.88	1.95	20	
Bis(2-chloroisopropyl)ether	39.18	10	50	0	78.4	54.9-117	38.14	2.71	20	
Bis(2-ethylhexyl)phthalate	35.84	10	50	0	71.7	59.1-13 6	35.56	0.791	20	
Chrysene	35.15	10	50	0	70.3	62.4-125	35.22	0.192	20	
Di-n-butyl phthalate	36.33	10	50	0	72.7	64.6-133	35.66	1.84	20	
Dibenz(a,h)anthracene	34.51	10	50	0	69	49.2-136	34.87	1.04	20	
Diethyl phthalate	35.69	10	50	0	71.4	62.7-129	34.27	4.08	20	
Dimethyl phthalate	35.6	10	50	0	71.2	63.7-126	34.62	2.78	20	
Fluoranthene	36.09	10	50	0	72.2	61.2-128	35.4	1.93	20	
Fluorene	35.37	10	50	. 0	70.7	64.9-121	34.44	2.67	20	
Hexachlorobenzene	33.74	10	50	0	67.5	65.6-126	33.57	0.515	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Method:	SW8270						
Hexachlorocyclopentadien	e 30.48	10	50	0	61	43.4-120	30.78	0.981	20	
Hexachloroethane	35.47	10	50	0	70.9	60-115	35.15	0.922	20	
Indeno(1,2,3-cd)pyrene	33.56	10	50	0	67.1	50.3-123	32.77	2.37	20	_
Isophorone	36.14	10	50	0	72.3	62-121	35.19	2.68	20	-
N-Nitrosodimethylamine	36.24	10	50	0	72.5	18-115	35.79	1.24	20	
N-Nitrosodiphenylamine	35.03	10	50	Ð	70.1	65.1-136	35.5	1.33	20	
Naphthalene	35.55	10	50	0	71. 1	59.9-115	34.77	2.22	20	
Nitrobenzene	35.53	10	50	0	71.1	59.1-134	35.06	1.35	20	
Pentachlorobenzene	59.05	10	50	0	118	40-130	55.13	6.86	20	
Pentachlorophenol	70.17	10	100	0	70.2	51.3-134	68.54	2.35	20	
Phenanthrene	34.77	10	50	0	69.5	65.2-122	34.58	0.54	20	
Pyrene	36.03	10	50	0	72.1	59.7-121	35.41	1.74	20	
The following samples v	vere analyzed in this batch:	060	8511-01E	06085	11-02E	060851	1-03E	<u> </u>		

0608511-05E

0608511-06E

0608511-04E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 13 of 32

CLIENT: BBC International

Work Order: 0608511

Hess Texaco

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QC BATCH REPORT

Project:

Batch ID: R41162 Ins	strument ID VOA1		Method	: SW820	60					
MBLK Sample ID: VBL	KW-0828				U	Inits: µg/L		Analysis D	ate: 08/28	3/06 11:51
Client ID:	Run IE): VOA1_(060830A		SeqNo: 938	115	Prep Date:		DF: 1	
Analyte	Result	POL	SPK Val	SPK Ref Value	%RFC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0						· · · · ·		
1,1,2,2-letrachloroethane	ND	5.0								
1,1,2-I richloroethane	ND	5.0						· · ·		
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0		· · · · ·						
1,1-Dichloropropene	ND	5.0								
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
Acrolein	ND	20								
Acrylonitrile	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0		and the second se						
Bromomethane	ND	5.0								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,2-Dichloroethene	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0			,					
Dichlorodifluoromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
o-Xylene	ND	5.0								
Tetrachloroethene	ND	5.0			· · · · · · · · · · · · · · · · · · ·					
Toluene	ND	5.0								
trans-1,2-Dichloroethene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								· · · · · · · · · · · · · · · · · · ·
Trichlorofluoromethane	ND	5.0								
Vinyl chloride	ND	2.0								
Surr: 1.2-Dichloroethane-d4	54.16	5.0	50		0 108	70-125		0		
Surr: 4-Bromofluorobenzene	54.64	5.0	50	·	0 109	72.4-12	5	0	<u> </u>	····· ································
Surr: Dibromofluoromethane	e 54.42	5.0	50		0 109	71.2-12	- 5	0		
Surr: Toluene-d8	53.91	5.0	50		0 108	75-125	-	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

- O Referenced analyte value is > 4 times amount spiked
- R RPD outside accepted recovery limits

 $\ensuremath{\mathsf{B}}$ - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected E - Value above quantitation range

P - Dual Column results percent difference > 40%

QC Page: 14 of 32

QC BATCH REPORT

CLIENT: BBC International 0608511

Hess Texaco Project:

Work Order:

Batch ID: R41162	Instrument ID	VOA1		Metho	d: SW8260	0						
LCS Sample IE): VLCSW-0828						U	nits: µg/L		Analysis E	Date: 08/2	8/06 12:19
Client ID:		Run I	D: VOA1_0	D60830A		Seq	INo: 938	116 1	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1 1 1 Trichloroethane	·····	51 12	5.0	50		<u></u>	103	79 6-120		0		
1122-Tetrachloroethar		46 71	5.0	50		0 0	93.4	78.9-121		0		
1.1.2-Trichloroethane		47.88	5.0	50		0	95.8	80-120		0		
1.1-Dichloroethane		46.02	5.0	50		0	92	74.2-122		0		
1.1-Dichloroethene		49.88	5.0	50		0	99.8	75.8-122		0		
1,1-Dichloropropene	· · · ·	51.08	5.0	50	· · · · · · · · · · · · · · · · · · ·	0	102	80-120		0		
1,2-Dibromoethane		48.12	5.0	50		0	96.2	80-120		0		
1,2-Dichlorobenzene		48.22	5.0	50		0	96.4	80-120		0		
1,2-Dichloroethane		48.5	5.0	50		0	97	78.8-120		0		
Acrolein		93.34	20	100		0	93.3	68.9-129		0		
Acrylonitrile		89.72	10	100		0	89.7	68.8-129		0		
Benzene		46.61	5.0	50		0	93.2	80-120		0		
Bromodichloromethane		51.03	5.0	50		0	102	80-120		0		
Bromomethane		53.66	5.0	50		0	107	52.8-147		0		
Carbon tetrachloride		54.31	5.0	50		0	109	76.8-120		0		
Chlorobenzene		49.43	5.0	50		0	98.9	80-120		0		
Chloroform		48.31	5.0	50		0	96.6	80-120		0		
Chloromethane		45.13	5.0	50		0	90.3	63.5-133		0		
cis-1,2-Dichloroethene		46.16	5.0	50		0	92.3	80-120		0		
cis-1,3-Dichloropropene		50.44	5.0	50		0	101	80-120	,	0		
Dichlorodifluoromethane	•	51.48	5.0	50		0	103	68.6-126		0		
Ethylbenzene		48.82	5.0	50		0	97.6	80-120		0		
m,p-Xylene		98.98	10	100		0	99	80-120		0		
Methylene chloride		49.6	10	50		0	99.2	74.7-120		0		
o-Xylene		49.73	5.0	50		0	99.5	80-120		0		
Tetrachloroethene		51.47	5.0	50		0	103	80-120		0		
Toluene		49.29	5.0	50		0	98.6	80-120		0		
trans-1,2-Dichloroethen	е	48.52	5.0	50		0	97	75.9-122		0		
trans-1,3-Dichloroprope	ne	51.08	5.0	50		0	102	80-120		0		
Trichloroethene		50.24	5.0	50		0	100	80-120		0		
Trichlorofluoromethane		53.05	5.0	50		0	106	70.3-126		0		
Vinyl chloride		47.89	2.0	50		0	95.8	76.2-121		0		
Surr: 1,2-Dichloroeth	ane-d4	52.86	5.0	50		0	106	70-125		0		
Surr: 4-Bromofluorob	enzene	55.31	5.0	50		0	111	72.4-125		0		
Surr: Dibromofluoron	nethane	53.51	5.0	50		0	107	71.2-125		0		
Surr: Toluene-d8		53.04	5.0	50		0	106	75-125		0		

D - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits
- B Analyte detected in assoc. Method Blank U - Analyzed for but not detected

J - Analyte detected below quantitation limits

- O Referenced analyte value is > 4 times amount spiked
- P Dual Column results percent difference > 40%

CLIENT: **BBC** International

0608511

OC BATCH REPORT

Project:

Work Order:

Hess Texaco

Instrument ID VOA1 Method: SW8260 Batch ID: R41162 Analysis Date: 08/28/06 14:40 Sample ID: 0608518-01AMS Units: µg/L MS Client ID: DF: 25 Run ID: VOA1 060830A SeaNo: 938120 Prep Date: RPD SPK Ref Control RPD Ref Value Limit Value Limit %RPD SPK Val %REC Qual Analyte Result PQL -. 1129 120 1250 0 0 1,1,1-Trichloroethane 90.3 79.6-120 1.1.2.2-Tetrachloroethane 1229 120 1250 0 98.3 78.9-121 0 1250 0 1,1,2-Trichloroethane 1213 120 0 97 80-120 0 1148 120 1250 0 91.9 1,1-Dichloroethane 74.2-122 1.1-Dichloroethene 1068 120 1250 0 85.5 75.8-122 0 1,1-Dichloropropene 1089 120 1250 0 87.1 80-120 0 1266 120 1250 0 101 0 1,2-Dibromoethane 80-120 0 1.2-Dichlorobenzene 1149 120 1250 0 91.9 80-120 1,2-Dichloroethane 1275 120 1250 102 78.8-120 0 0 2416 500 0 Acrolein 2500 0 96.6 68.9-129 Acrylonitrile 2148 250 2500 0 85.9 68.8-129 0 Benzene 1158 120 1250 0 92.6 80-120 0 1316 120 1250 0 Bromodichloromethane 0 105 80-120 1339 120 1250 0 0 Bromomethane 107 52.8-147 1099 120 0 Carbon tetrachloride 1250 0 87.9 76.8-120 1190 120 0 0 Chlorobenzene 1250 95.2 80-120 Chloroform 120 1494 1250 282.8 96.9 80-120 0 Chloromethane 1040 120 1250 0 0 83.2 63.5-133 cis-1,2-Dichloroethene 1181 120 1250 0 94.5 80-120 0 0 cis-1,3-Dichloropropene 1265 120 1250 101 0 80-120 Dichlorodifluoromethane 881.3 120 1250 0 70.5 68.6-126 0 120 0 Ethylbenzene 1089 1250 0 87.1 80-120 250 2500 m,p-Xylene 2197 0 87.9 80-120 0 Methylene chloride 1220 250 1250 ٥ 97.6 74.7-120 0 o-Xylene 1152 120 1250 ٥ 92.2 80-120 0 1065 120 1250 Tetrachloroethene 0 85.2 80-120 0 Toluene 1138 120 1250 0 91 80-120 0 trans-1,2-Dichloroethene 1191 120 1250 0 95.3 75.9-122 0 120 1250 trans-1,3-Dichloropropene 1309 0 105 n 80-120 Trichloroethene 1193 120 1250 0 95.4 0 80-120 Trichlorofluoromethane 969 120 1250 0 0 77.5 70.3-126 Vinyl chloride 1008 50 1250 0 0 80.7 76.2-121 Surr: 1,2-Dichloroethane-d4 1352 120 1250 0 108 70-125 0 120 Surr: 4-Bromofluorobenzene 1342 1250 0 107 72.4-125 0 Surr: Dibromofluoromethane 1375 120 1250 0 110 0 71.2-125 Surr: Toluene-d8 1332 120 1250 0 0 107 75-125

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

- R RPD outside accepted recovery limits
 - E Value above quantitation range

U - Analyzed for but not detected

B - Analyte detected in assoc. Method Blank

P - Dual Column results percent difference > 40%

QC Page: 16 of 32

O - Referenced analyte value is > 4 times amount spiked

OC BATCH REPORT

R

BBC International

0608511 Work Order: **Project:** Hess Texaco

CLIENT:

Batch ID: R41162	Instrument ID VOA	1		Metho	d: SW8260						
MSD Sample I	D: 0608518-01AMSD					L	nits: µg/L	Æ	\nalysis Da	ite: 08/28/	/06 15:08
Client ID:		Run	ID: VOA1_C	60830A	S	eqNo: 938	121	Prep Date:		DF: 25	
Analyte	Re	esult	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1	260	120	1250	0	101	79.6-120	1129	10.9	20	
1,1,2,2-Tetrachloroetha	ine 1	256	120	1250	0	100	78.9-121	1229	2.2	20	
1,1,2-Trichloroethane	1	247	120	1250	0	99.7	80-120	1213	2.79	20	
1,1-Dichloroethane	1	180	120	1250	0	94.4	74.2-122	1148	2.73	20	
1,1-Dichloroethene	1	244	120	1250	0	99.5	75.8-122	1068	15.2	20	
1,1-Dichloropropene	1	250	120	1250	0	100	80-120	1089	13.8	20	
1,2-Dibromoethane	1	305	120	1250	0	104	80-120	1266	3.07	20	
1,2-Dichlorobenzene	1	241	120	1250	0	99.3	80-120	1149	7.75	20	
1,2-Dichloroethane	1	302	120	1250	0	104	78.8-120	1275	2.1	20	
Acrolein	2	521	500	2500	0	101	68.9-129	2416	4.26	20	
Acrylonitrile	2	427	250	2500	0	97.1	68.8-129	2148	12.2	20	
Benzene	1	169	120	1250	0	93.5	80-120	1158	1.02	20	
Bromodichloromethane	e 1	330	120	1250	0	106	80-120	1316	1.02	20	
Bromomethane	1	313	120	1250	0	105	52.8-147	1339	1.95	20	
Carbon tetrachloride	1	314	120	1250	0	105	76.8-120	1099	17.8	20	
Chlorobenzene	1	248	120	1250	0	99.9	80-120	1190	4.81	20	
Chloroform	1	529	120	1250	282.8	99.7	80-120	1494	2.31	20	
Chloromethane	1	062	120	1250	0	85	63.5-133	1040	2.14	20	
cis-1,2-Dichloroethene	1	185	120	1250	0	94.8	80-120	1181	0.31	20	
cis-1,3-Dichloropropen	e 1	286	120	1250	0	103	80-120	1265	1.64	20	<u> </u>
Dichlorodifluoromethar	ie 1	199	120	1250	0	95.9	68.6-126	881.3	30.6	20	R
Ethylbenzene	•	224	120	1250	0	97.9	80-120	1089	11.7	20	
m,p-Xylene	2	2456	250	2500	0	98.2	80-120	2197	11.1	20	
Methylene chloride	1	265	250	1250	0	101	74.7-120	1220	3.62	20	
o-Xylene	1	258	120	1250	0	101	80-120	1152	8.78	20	
Tetrachloroethene		267	120	1250	0	101	80-120	1065	17.3	20	
Toluene	-	202	120	1250	0	96.2	80-120	1138	5.49	20	
trans-1,2-Dichloroether	ne	261	120	1250	0	101	75.9-122	1191	5.73	20	

The following samples were analyzed in this batch:

1313

1246

1322

1133

1372

1350

1364

1311

120

120

120

50

120

120

120

120

1250

1250

1250

1250

1250

1250

1250

1250

0608511-01A 0608511-02A

trans-1,3-Dichloropropene

Trichlorofluoromethane

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Trichloroethene

Vinyl chloride

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

0

0

0

0

0

0

0

0

105

99.6

106

90.6

110

108

109

105

80-120

80-120

70.3-126

76.2-121

70-125

72.4-125

71.2-125

75-125

- R RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

0.291

4.35

30.8

11.6

1.52

0.583

0.78

1.57

20

20

20

20

20

20

20

20

U - Analyzed for but not detected

1309

1193

969

1008

1352

1342

1375

1332

E - Value above quantitation range

QC Page: 17 of 32

Work Order:

QC BATCH REPORT

Project: Hess Texaco

Batch ID: R4	41214	Instrument ID	VOA1		Metho	d: SW82	50					
MBLK	Sample ID: \	/BLKW-0830	<u></u>	· ·			ι	Jnits: µg/L		Analysis D	ate: 08/30	0/06 12:00
Client ID:	·· ·· .		Run II	D: VOA1_	060830C		SeqNo: 939	256	Prep Date:		DF: 1	
						SPK Ref		Control	RPD Ref		RPD Limit	
Analyte			Result	PQL	SPK Val	value	%REC	Limit	value	%RPD	C IIIII	Qual
1,1,1-Trichlo	proethane		ND	5.0								
1,1,2,2-Tetra	achloroethane		ND	5.0								
1,1,2-Trichlo	proethane		ND	5.0								
1,1-Dichloro	bethane		ND	5.0								
1,1-Dichloro	bethene		ND	5.0								
1,1-Dichloro	propene		ND	5.0								
1,2-Dibromo	oethane		ND	5.0								
1,2-Dichloro	benzene		ND	5.0								
1,2-Dichloro	oethane		ND	5.0								
Acrolein			ND	20								
Acrylonitrile	H		ND	10								
Benzene			ND	5.0								
Bromodichle	oromethane		ND	5.0								
Bromometh	ane		ND	5.0								
Carbon tetra	achloride		ND	5.0								
Chlorobenz	ene		ND	5.0								
Chloroform			ND	5.0								
Chlorometh	ane		ND	5.0								
cis-1,2-Dich	nloroethene		ND	5.0								
cis-1,3-Dich	loropropene		ND	5.0								
Dichlorodiflu	uoromethane		ND	5.0								
Ethylbenzer	ne		ND	5.0								
m,p-Xylene			ND	10								
Methylene o	chloride		ND	10								
o-Xylene			ND	5.0								
Tetrachloro	ethene		ND	5.0					· · · · · · · · · · · · · · · · · · ·			
Toluene			ND	5.0								
trans-1,2-D	ichloroethene		ND	5.0								
trans-1,3-D	ichloropropene		ND	5.0								
Trichloroeth	nene		ND	5.0								
Trichloroflu	oromethane		ND	5.0								
Vinyl chlorid	de		ND	2.0								
Surr: 1,2-	-Dichloroethan	e-d4	53.39	5.0	50		0 107	70-125	5	0		
Surr: 4-B	Bromofluoroben	zene	55.12	5.0	50		0 110	72.4-12	5	0		
Surr: Dib	promofluoromet	hane	53.13	5.0	50		0 106	71.2-12	5	0		· · · ·
Surr: Tol	luene-d8		52.03	5.0	50		0 104	75-125	5	0		

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 18 of 32

Work Order:

BBC International

0608511

QC BATCH REPORT

Project: Hess Texaco

Batch ID: R41214	Instrument ID V	OA1		Method	l: SW826	50						
LCS Sample ID	VLCSW-0830						U	nits: µg/L		Analysis	Date: 08/3	0/06 12:29
Client ID:		Rur	ID: VOA1_	060830C		Ser	qNo: 939	257	Prep Date:		DF: 1	
					SPK Ref			Control	RPD Ref		RPD Limit	
Analyte		Result	PQL	SPK Val	value		%REC	Limit	value	%RPI		Qual
1,1,1-Trichloroethane		49.57	5.0	50		0	99.1	79.6-120		0		
1,1,2,2-Tetrachloroethan	9	47.47	5.0	50		0	94.9	78.9-121		0		
1,1,2-Trichloroethane		48.06	5.0	50		0	96.1	80-120	_	0		
1,1-Dichloroethane		45.16	5.0	50		0	90.3	74.2-122		0		
1,1-Dichloroethene		48.03	5.0	50		0	96.1	75.8-122		0		
1,1-Dichloropropene		47.02	5.0	50		0	94	80-120		0		
1,2-Dibromoethane		50.1	5.0	50		0	100	80-120		0		
1,2-Dichlorobenzene		47.61	5.0	50		0	95.2	80-120		0		
1,2-Dichloroethane		51.33	5.0	50		0	103	78.8-120		0		
Acrolein		96.16	20	100		0	96.2	68.9-129		0		
Acrylonitrile		91.59	10	100		0	91.6	68.8-129		0		
Benzene		46.42	5.0	50		0	92.8	80-120		0		
Bromodichloromethane		51.88	5.0	50		0	104	80-120		0		
Bromomethane	······································	49.96	5.0	50		0	99.9	52.8-147		0		
Carbon tetrachloride		50.65	5.0	50		0	101	76.8-120		0		
Chlorobenzene		48.66	5.0	50		0	97.3	80-120		0		
Chloroform		47.79	5.0	50		0	95.6	80-120		0		
Chloromethane		41.59	5.0	50		0	83.2	63.5-133		0		
cis-1,2-Dichloroethene		45.67	5.0	50		0	91.3	80-120		0		
cis-1,3-Dichloropropene	······································	50.39	5.0	50		0	101	80-120		0		
Dichlorodifluoromethane		45.19	5.0	50		0	90.4	68.6-126		0		
Ethylbenzene		46.87	5.0	50		0	93.7	80-120		0		
m,p-Xylene		94	10	100		0	94	80-120		0		
Methylene chloride		50.58	10	50		0	101	74.7-120		0		
o-Xylene		47.4	5.0	50		0	94.8	80-120		0		
Tetrachloroethene		48.11	5.0	50	······	0	96.2	80-120		0	···	
Toluene		46.18	5.0	50		0	92.4	80-120		0		
trans-1,2-Dichloroethene		47.17	5.0	50		0	94.3	75.9-122		0		
trans-1,3-Dichloropropen	e	52.22	5.0	50		0	104	80-120		0		
Trichloroethene		48.92	5.0	50		0	97.8	80-120		0		
Trichlorofluoromethane		48.69	5.0	50		0	97.4	70.3-126		0		
Vinyl chloride		46.6	2.0	50		0	93.2	76.2-121		0		
Surr: 1,2-Dichloroetha	ne-d4	52.05	5.0	50		0	104	70-125		0		
Surr: 4-Bromofluorobe	nzene	56.36	5.0	50		0	113	72.4-125		0		
Surr: Dibromofluorome	thane	53.23	5.0	50		0	106	71.2-125		0		
Surr: Toluene-d8		51.38	5.0	50		0	103	75-125		0		

D - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

- Analyte detected below quantitation limits
- O Referenced analyte value is > 4 times amount spiked
- R RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

- B Analyte detected in assoc. Method Blank
- U Analyzed for but not detected
- E Value above quantitation range

AQC Page: 19 of 32

CLIENT: BBC International

0608511

QC BATCH REPORT

Work Order: Hess Texaco **Project:**

Batch ID: R41214	Instrument ID VC	DA1		Method	: SW8260						
MS Sample ID:	0608511-04AMS				······································	U	nits: µg/L		Analysis D	ate: 08/30	0/06 15:53
Client ID: G Lact MW4		Rur	ID: VOA1_	060830C	Se	qNo: 939	262 I	Prep Date:		DF: 1	
Analyte	!	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1 1 1-Trichlomethane		51.81	50	50	0	104	79.6-120		0		
1.1.2.2-Tetrachloroethane		50.7	5.0	50	0	101	78.9-121		0		
1,1,2-Trichloroethane		49.28	5.0	50	0	98.6	80-120		0		
1.1-Dichloroethane		47.3	5.0	50	0	94.6	74.2-122		0		
1,1-Dichloroethene		51.25	5.0	50	0	102	75.8-122		0		
1,1-Dichloropropene		49.37	5.0	50	0	98.7	80-120		0		
1,2-Dibromoethane		50.76	5.0	50	0	102	80-120		0		
1,2-Dichlorobenzene		48.53	5.0	50	0	97.1	80-120		0		
1,2-Dichloroethane		53.2	5.0	50	0	106	78.8-120		0		
Acrolein	· · · · · · · · · · · · · · · · · · ·	102.1	20	100	0	102	68.9-129		0		
Acrylonitrile		55.3	10	100	0	55.3	68.8-129		0		S
Benzene		46.31	5.0	50	0.4801	91.7	80-120		0		
Bromodichloromethane		52.48	5.0	50	0	105	80-120		0		
Bromomethane		48.77	5.0	50	0	97.5	52.8-147		0		
Carbon tetrachloride		53.38	5.0	50	0	107	76.8-120		0		
Chlorobenzene		48.69	5.0	50	0	97.4	80-120		0		
Chloroform		49.63	5.0	50	0	99.3	80-120		0		
Chloromethane		41.04	5.0	50	0	82.1	63.5-133		0		
cis-1,2-Dichloroethene		48.1	5.0	50	0	96.2	80-120		0		
cis-1,3-Dichloropropene		51.03	5.0	50	0	102	80-120		0		
Dichlorodifluoromethane		47.26	5.0	50	0	94.5	68.6-126		0		
Ethylbenzene		47.61	5.0	50	0	95.2	80-120		0		
m,p-Xylene		94.16	10	100	0	94.2	80-120		0		
Methylene chloride		49.58	10	50	0	99.2	74.7-120		0		
o-Xylene		48.49	5.0	. 50	0	97	80-120		0		
Tetrachloroethene		48.88	5.0	50	0	97.8	80-120		0		
Toluene		46.31	5.0	50	0	92.6	80-120		0		
trans-1,2-Dichloroethene		41.01	5.0	50	0	82	75.9-122		0		
trans-1,3-Dichloropropene	;	51.87	5.0	50	0	104	80-120		0		
Trichloroethene		49.24	5.0	50	0	98.5	80-120		0		
Trichlorofluoromethane		53.17	5.0	50	0	106	70.3-126		0		
Vinyl chloride		45.41	2.0	50	0	90.8	76.2-121		0		
Surr: 1,2-Dichloroethan	e-d4	56.25	5.0	50	0	113	70-125		0		
Surr: 4-Bromofluoroben	nzene	51.56	5.0	50	0	103	72.4-125		0		
Surr: Dibromofluoromet	thane	56.42	5.0	50	0	113	71.2-125		0		
Surr: Toluene-d8		51.45	5.0	50	0	103	75-125		0		

ND - Not Detected at the Reporting Limit

.

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 20 of 32

CLIENT: BBC International 0608511

Project: Hess Texaco

Work Order:

Batch ID: R41214	Instrument ID VOA1		Metho	d: SW8260						
MSD Sample ID: 0	608511-04AMSD				U	nits: µg/L	A	nalysis Da	te: 08/30/	06 16:22
Client ID: G Lact MW4	Run ID:	VOA1_	060830C	Se	qNo: 939	263 F	Prep Date:		DF: 1	
Analyte	Result	POI	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
		1 021						7014 12		
1,1,1-Trichloroethane	43.61	5.0	50	0	87.2	79.6-120	51.81	17.2	20	
1,1,2,2-Tetrachloroethane	49.87	5.0	50	0	99.7	78.9-121	50.7	1.66	20	
1,1,2-Trichloroethane	47.67	5.0	50	0	95.3	80-120	49.28	3.33	20	
1,1-Dichloroethane	44.75	5.0	50	0	89.5	74.2-122	47.3	5.54	20	
1,1-Dichloroethene	43.25	5.0	50	0	86.5	75.8-122	51.25	16.9	20	
1,1-Dichloropropene	42.12	5.0	50	0	84.2	80-120	49.37	15.9	20	
1,2-Dibromoethane	.51.22	5.0	50	0	102	80-120	50.76	0.907	20	
1,2-Dichlorobenzene	45.31	5.0	50	0	90.6	80-120	48.53	6.86	20	
1,2-Dichloroethane	51.94	5.0	50	0	104	78.8-120	53.2	2.4	20	<u></u>
Acrolein	100	20	100	0	100	68.9-129	102.1	2.05	20	
Acrylonitrile	73.78	10	100	0	73.8	68.8-129	55.3	28.6	20	R
Benzene	44.63	5.0	50	0.4801	88.3	80-120	46.31	3.7	20	
Bromodichloromethane	52.17	5.0	50	0	104	80-120	52.48	0.589	20	
Bromomethane	52.26	5.0	50	0	105	52.8-147	48.77	6.91	20	
Carbon tetrachloride	42.13	5.0	50	0	84.3	76.8-120	53.38	23.6	20	R
Chlorobenzene	46.13	5.0	50	0	92.3	80-120	48.69	5.4	20	
Chloroform	48.58	5.0	50	0	97.2	80-120	49.63	2.13	20	
Chloromethane	39.28	5.0	50	0	78.6	63.5-133	41.04	4.4	20	
cis-1,2-Dichloroethene	47.23	5.0	50	0	94.5	80-120	48.1	1.82	20	
cis-1,3-Dichloropropene	51.2	5.0	50	0	102	80-120	51.03	0.326	20	
Dichlorodifluoromethane	35.89	5.0	50	0	71.8	68.6-126	47.26	27.3	20	R
Ethylbenzene	44.19	5.0	50	0	88.4	80-120	47.61	7.45	20	
m,p-Xylene	86.84	10	100	0	86.8	80-120	94.16	8.08	20	
Methylene chloride	48.88	10	50	0	97.8	74.7-120	49.58	1.43	20	
o-Xylene	45.62	5.0	50	0	91.2	80-120	48.49	6.1	20	
Tetrachloroethene	42.4	5.0	50	0	84.8	80-120	48.88	14.2	20	
Toluene	43.87	5.0	50	0	87.7	80-120	46.31	5.41	20	
trans-1,2-Dichloroethene	44.84	5.0	50	0	89.7	75.9-122	41.01	8.91	20	
trans-1,3-Dichloropropene	52.08	5.0	50	0	104	80-120	51.87	0.4	20	
Trichloroethene	46.41	5.0	50	0	92.8	80-120	49.24	5.91	20	
Trichlorofluoromethane	40.88	5.0	50	0	81.8	70.3-126	53.17	2 6.1	20	R
Vinyl chloride	39.38	2.0	50	0	78.8	76.2-121	45.41	14.2	20	
Surr: 1,2-Dichloroethane-	d4 56.65	5.0	50	0	113	70-125	56.25	0.701	20	
Surr: 4-Bromofluorobenze	ene 51.77	5.0	50	0	104	72.4-125	51.56	0.407	20	
Surr: Dibromofluorometha	ane 55.53	5.0	50	0	111	71.2-125	56.42	1.6	20	
Surr: Toluene-d8	52.35	5.0	50	0	105	75-125	51.45	1.74	20	
The following samples we	re analyzed in this batch:	00	608511-03A	0608	511-04A	060	8511-05A			······································

a in this batch:

0608511-06A

0608511-07A

511-05A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- O Referenced analyte value is > 4 times amount spiked
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in assoc. Method Blank R - RPD outside accepted recovery limits
 - U Analyzed for but not detected
- P Dual Column results percent difference > 40%

E - Value above quantitation range

QC Page: 21 of 32

CLIENT: Work Order: ^P roject:	BBC International 0608511 Hess Texaco								QC	C BATC	H RE	PORT
Batch ID: R41073	Instrument ID	NetChem		Metho	d: E150.1	1						
LCS Sam	ple ID: WCSW1-082606	5					U	nits: pH u	inits	Analysis D	ate: 08/26	/06 0:00
Client ID:	·····	Run I[D: WETCH	IEM_06082	6A	Sec	qNo: 935	673	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
рН		6.02	0.10	6		0	100	90-110		0		
DUP Sam	ple ID: 0608511-01CDL	IP			\ .		U	nits: pH u	inits	Analysis D	ate: 08/26	/06 0:00
Client ID: G Lact N	////1	Run II	D: WETCH	IEM_06082	6A	Sec	qNo: 935	680	Prep Date:		DF: 1	
Analyte	•••••••	Result	PQL	SPK Val	SPK Ref Value	:	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
рН		6.67	0.10	0		0	0	0-0	6.	65 0.3	3 20	Н
The following san	noles were analyzed in	this batch:	[OF	08511_010		6085	11-020		08511-030			

0608511-05C

0608511-04C

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

0608511-06C

E - Value above quantitation range QC Page: 22 of 32

CLIENT: Work Order: Project:	BBC International 0608511 Hess Texaco								QC	E BATC	H RE	PORT
Batch ID: R4112	21 Instrument ID U	IV-2450		Method	d: E335.3							
MBLK S	ample ID: WBLKW1-08280	6					Uı	nits: mg/l	-	Analysis D	ate: 08/28	1/06 16:30
Client ID:		Runl	D: UV-24	50_060828A		Seq	No: 9369	928	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020									
LCS S	ample ID: WLCSW1-08280	6					Ui	nits: mg/l	-	Analysis D	ate: 08/28	1/06 16:30
Client ID:		Run	D: UV-24	50_060828A		Seq	No: 9369	929	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.193	0.020	0.2		0	96.5	80-120		0		
MS S	ample ID: 0608492-03AMS						U	nits: mg /l	<u> </u>	Analysis D	ate: 08/28	3/06 16:30
Client ID:		Run	ID: UV-24	50_060828A		Seq	No: 9369	945	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.182	0.020	0.2	-0.0	03	92.5	80-120		0		
DUP S	ample ID: 0608492-03ADU	P					U	nits: mg/	<u> </u>	Analysis D	ate: 08/28	3/06 16:30
Client ID:		Run	ID: UV-24	50_060828A		Seq	No: 9369	944	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020	0		0	0	0-0	-0.0	03 () 20	
The following	samples were analyzed in	this batch	: C	0608511-01B 0608511-04B	0	60851	11-02B	06	08511-03B			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

•

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 23 of 32

CLIENT: BBC International

Work Order: 0608511

Project: Hess Texaco

QC BATCH REPORT

Batch ID: I	R41132 Instrur	nent ID Balance1		Metho	d: E160.1						
MBLK	Sample ID: WBLKW	/1					Units: m	g/L	Analysis Di	ate: 08/29	/06 0:00
Client ID:		Run ID	: BALAN	CE1_06082	29A	SeqNo:	937397	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%R	Contr EC Lim	ol RPD Ref it Value	%RPD	RPD Limit	Qual
Total Diss	olved Solids (Residue, F	il ND	10								
LCS	Sample ID: WLCSW	/1					Units: m	g/L	Analysis D	ate: 08/29	/06 0:00
Client ID:		Run ID	: BALAN	ICE1_06082	29A	SeqNo:	937398	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%R	Contr EC Lim	ol RPD Ref it Value	%RPD	RPD Limit	Qual
Total Diss	olved Solids (Residue, F	il 924	10	1000		0 92	2.4 85-1	15	0		
DUP	Sample ID: 060851	1-01C DUP					Units: m	g/L	Analysis D	ate: 08/29	/06 0:00
Client ID:	G Lact MW1	Run ID): BALAN	ICE1_06082	29A	SeqNo:	937377	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%R	Conti EC ^{Lim}	ol RPD Ref it Value	%RPD	RPD Limit	Qual
Total Diss	olved Solids (Residue, F	il 764	10	0		0	0 0-0) 7	40 3.19	20	
The follow	wing samples were ana	lyzed in this batch:	0	608511-01C 608511-04C	; 0 ; 0	608511-02 608511-02	2C 5C	0608511-03C 0608511-06C			

D - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 24 of 32

CLIENT: Work Order: roject:	BBC International 0608511 Hess Texaco								QC	BATO	CH	REI	PORT
Batch ID: R41289	Instrument ID I	JV-2450		Method	I: E354.1								
MBLK Sam	ple ID: WBLKW1-0826(06	<u></u>				U	nits: mg/l	_	Analysis	Date:	08/26/	06 0:00
Client ID:		Run	ID: UV-245	50_060826A		Seq	No: 9407	768	Prep Date:	· ·	DF	: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RF Li	PD mit	Qual
Nitrogen, Nitrite		ND	0.010										
L CS . Sam	ple ID: WLCSW1-08260	06					U	nits: mg/l	<u></u>	Analysis	Date:	08/26/	06 0:00
Client ID:		Run	ID: UV-24!	50_060826A		Seq	No: 9407	769	Prep Date:		DF	: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RF Li	PD mit	Qual
Nitrogen, Nitrite		0.101	0.010	0.1		0	101	80-120		0			
VIS Sam	ple ID: 0608511-06CMS	3					U	nits: mg/ l		Analysis	Date:	08/26/	06 0:00
Client ID: Duplicat	e	Run	ID: UV-24	50_060826A		Seq	No: 940	782	Prep Date:		DF	: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	, Li	PD mit	Qual
Nitrogen, Nitrite		0.099	0.010	0.1	0.0	01	98	75-125		0.			
DUP Sam	ple ID: 0608511-06CDL	JP		· · · · · · · · · · · · · · · · · · ·			U	nits: mg/	L	Analysis	Date:	08/26	/06 0:00
lient ID: Duplicat	e	Run	ID: UV-24	50_060826A		Seq	No: 940	781	Prep Date:		DF	: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	, Li	PD mit	Qual
Nitrogen, Nitrite		ND	0.010	0		0	0	0-0	0.0	D1	0	20	
The following san	nples were analyzed in	this batch	: 0 0	608511-01C 608511-04C	0	60851 60851	1-02C 1-05C	06	08511-03C				



ID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 25 of 32

CLIENT: Work Order: Project:	BBC International 0608511 Hess Texaco							QC	BATC	'H REI	PORT
Batch ID: R4132	1 Instrument ID UV-2450		Metho	d: E335.3							
MBLK Sa	ample ID: WBLKW1-090106					U	nits: mg/l	-	Analysis D	ate: 09/03/	06 0:00
Client ID:	Run II	D: UV-245	0_060903B		SeqNo:	9414	166	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020									
LCS Sa	ample ID: WLCSW1-090106					U	nits: mg/l	_	Analysis D	ate: 09/03/	06 0:00
Client ID:	Run II	D: UV-245	0_060903B		SegNo:	9414	467	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.211	0.020	0.2		0	106	80-120		0		
MS Sa	ample ID: 0608605-01BMS		- <u></u>			U	nits: mg /l		Analysis D	ate: 0 9/03/	06 0:00
Client ID:	Run II	D: UV-245	60_060903B	1	SeqNo	9414	480	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.204	0.020	0.2	-0.0)2	103	80-120		0		
MSD Sa	ample ID: 0608605-01BMSD					U	nits: mg /l	L	Analysis D)ate: 09/03 /	06 0:00
Client ID:	Run I	D: UV-245	50_060903B	;	SeqNo	941	481	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.209	0.020	0.2	-0.0	02	106	80-120	0.2	04 2.42	2 20	
DUP Sa	ample ID: 0608605-01BDUP					U	nits: mg /	L	Analysis D)ate: 09/03 /	06 0:00
Client ID:	Run I	D: UV-24	50_060903B	1	SeqNo	941	479	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020	0		0	0	0-0	-0.0	02 0	0 20	
The following s	amples were analyzed in this batch:	0	608511-05B	06	08511-4	06B					

ID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

QC Page: 26 of 32

CLIENT: BBC International

0608511

QC BATCH REPORT

Project: Hess Texaco

Work Order:

Batch ID: R4	41322	Instrument ID IC201		Metho	d: E300							
MBLK	Sample ID:	WBLKW1-090206	· ·				Ur	nits: mg/L	-	Analysis Da	te: 09/02	/06 16:21
Client ID:		Run	ID: IC201_0	060902A		Sec	qNo: 9414	186	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		ND	0.50									
Fluoride		ND	0.10									
Sulfate	•••••	ND	1.0		·····							
Surr: Sele	enate (surr)	5.057	0.10	5		0	101	85-115		0.		
LCS	Sample ID:	WLCSW1-060-83-		<u> </u>			Ui	nits: mg/l		Analysis Da	te: 09/02	/06 16:42
Client ID:	·	Run	ID: IC201_	060902A		Se	qNo: 9414	487	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		20.24	0.50	20		0	101	90-110		0		
Fluoride		4.257	0.10	4		0	106	90-110		0		
Sulfate		20.26	1.0	20		0	101	90-110		0		
Surr: Sele	enate (surr)	5.051	0.10	5		0	101	85-115		0		
LCSD	Sample ID:	WLCSDW1-060-83					U	nits: mg/l	L_	Analysis Da	te: 09/02	/06 17:04
Client ID:		Run	ID: IC201_	060902A		Se	qNo: 9414	488	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		20.26	0.50	20		0	101	90-110	20.2	24 0.123	20	
Fluoride		4.265	0.10	4		0	107	90-110	4.2	0.188	20	
Sulfate		20.28	1.0	20		0	101	90-110	20.2	26 0.123	20	
Surr: Sele	enate (surr)	5.058	D.10	5		0	101	85-115	5.0	51 <i>0.138</i>	20	
MS	Sample ID:	0609004-01BMS					U	nits: mg/l	L	Analysis Da	te: 09/02	/06 18:10
Client ID:		Run	D: IC201	060902A		Se	qNo: 941	491	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		34.41	0.50	10	25	05	93.6	80-120		0		
Fluoride		3.317	0.10	.3	1.1	81	107	80-120		0		
Sulfate		137.5	1.0	10	130).8	67.8	80-120		0		SEO
Surr: Sele	enate (surr)	4.889	0.10	5		0	97.8	80-120		0		

D - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

- B Analyte detected in assoc. Method Blank
- U Analyzed for but not detected

E - Value above quantitation range QC Page: 27 of 32

Work Order:

BBC International 0608511

QC BATCH REPORT

Project: Hess Texaco

Batch ID: R	41322	Instrument ID IC201		Metho	d: E300					<u>.</u>	
MSD	Sample ID:	0609004-01BMSD				υ	nits: mg/L	A	nalysis Da	te: 09/02	06 18:32
Client ID:		Run 10	D: IC201_	060902A	Se	qNo: 941	492	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		34.57	0.50	10	25.05	95.2	80-120	34.41	0.452	20	
Fluoride	<u> </u>	3.356	0.10	2	1.181	109	80-120	3.317	1.17	20	
Sulfate		138.3	1.0	10	130.8	75.4	80-120	137.5	0.552	20	SEO
Surr: Sele	enate (surr)	4.905	0.10	5	0	98.1	80-120	4.889	0.327	20	
DUP	Sample ID:	0609004-01BDUP				U	nits: mg/L	A	nalysis Da	te: 09/02 /	06 17:48
Client ID:		Run II	D: IC201_	060902A	Se	qNo: 941	490	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		25.01	0.50	0	0	0	0-0	25.05	0.148	20	
Fluoride		1.181	0.10	0	0	0	0-0	1.181	0	20	
Sulfate		130.6	1.0	0	0	0	0-0	130.8	0.101	20	E
Surr: Sel	enate (surr)	4.819	0.10	5	0	96.4	80-120	4.821	0.0415	20	
DUP	Sample ID:	0609004-01BDUP				U	nits: mg/L	A	nalysis Da	ite: 09/02	/06 20:00
Client ID:		Run II	D: IC201_	060902A	Se	qNo: 941	496	Prep Date:		DF: 5	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		25.86	2.5	0	0	0	0-0	25.97	0.417	20	
Fluoride		1.21	0.50	0	0	0	0-0	1.262	4.21	20	
Sulfate		134	5.0	0	0	0	0-0	138.6	3.39	20	
Surr: Sel	enate (surr)	25	0.50	25	0	100	80-120	20 24.96 0.176 20			
, The followi	ing samples v	vere analyzed in this batch:	0	608511-01C 608511-04C	0608 0608	511-02C 511-05C	060	8511-03C			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range QC Page: 28 of 32

Work Ord Project:	ler: 060 Hes	s Texaco											
Batch ID: R	41405	Instrument ID IC20	1		Metho	d: E300							
MBLK	Sample ID:	WBLKW1-090506						Ur	nits: mg/l		Analysis Da	te: 09/06 /	/06 2:39
Client ID:		a	Run I	D: IC201_C	60905C		Sec	No: 9436	88	Prep Date:		DF: 1	
Analyte		Re	sult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride			ND	0.50									
Fluoride			ND	0.10									
Sulfate			ND	1.0									
Surr: Sele	enate (surr)	5.	282	0.10	5		0	106	85-115		0		
LCS	Sample ID:	WLCSW1-090506/						U	nits: mg/ l	_	Analysis Da	ite: 09/06	/06 3:00
Client ID:			Run I	ID: IC201_0	060905C		Sec	qNo: 9436	591	Prep Date:		DF: 1	
Analyte		Re	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		2	21.3	0.50	20	·	0	106	90-110		0		
Fluoride	HTLU 1	4.	327	0.10	- 4		0	108	90-110	n	0		<u></u>
Sulfate		2'	1.27	1.0	20		0	106	90-110		0		
Surr: Sel	enate (surr)	5.	281	0.10	5		0	106	85-115		0		
LCSD	Sample ID:	WLCSDW1-09050		····				U	nits: mg /		Analysis Da	ate: 09/06	/06 3:22
Client ID:			Run	ID: IC201_ (060905C		Se	qNo: 943 I	592	Prep Date:		DF: 1	
Analyte	,	Re	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride			21.3	0.50	20		0	106	90-110	21	.3 0.00939	2 0	
Fluoride		4.	.324	0.10	4		0	108	90-110	4.32	0.0694	20	
Sulfate		21	1.25	1.0	20		0	106	90-110	21.2	.7 0.103	20	
Surr: Sel	lenate (surr)		5.28	0.10	5		0	106	85-115	5.28	0. <i>01</i> 89	20	
MS	Sample ID	0608523-01BMS						U	nits: mg /	<u> </u>	Analysis Da	ate: 09/06	/06 5:12
Client ID:			Run	ID: IC201_ (060905C		Se	qNo: 943	697	Prep Date:		DF: 1	
						SPK Ref			Control	RPD Ref		RPD	
Analyte		Re	esult	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
Chloride		7	33.9	0.50	10	73	B. 1	-42.7	80-120		0		SEO
Fluoride		2	.529	0.10	2	0.1	62	118	80-120		0		

Surr: Selenate (surr)

Sulfate

CLIENT:

BBC International

S - Spike Recovery outside accepted recovery limits

- Analyte detected below quantitation limits

D - Not Detected at the Reporting Limit

O - Referenced analyte value is > 4 times amount spiked

62.42

5.051

1.0

0.10

10

5

51.91

0

105

101

80-120

80-120

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

QC BATCH REPORT

U - Analyzed for but not detected

0

0

E - Value above quantitation range

QC Page: 29 of 32

ΕO

CLIENT: Work Ord ^P roject:	ler:	BBC International 0608511 Hess Texaco							QCI	BATC	H RE	POR
Batch ID: R4	41405	Instrument ID I	C201		Metho	od: E300						
MSD	Samp	le ID: 0608523-01BMS	SD				Ū	nits: mg/l	<i>F</i>	Analysis Da	ate: 09/06	06 5:34
Client ID:			Run I	D: IC201_	060905C	Se	qNo: 943	698	Prep Date:		DF: 1	
Analyte			Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride			733	0.50	10	738.1	-50.9	80-120	733.9	0.112	20	SEO
Fluoride			2.547	0.10	2	0.162	119	80-120	2.529	0.709	20	
Sulfate			62.52	1.0	10	51.91	106	80-120	62.42	0.149	20	EO
Surr: Sele	enate (s	urr)	5.055	0.10	5	0	101	80-120	5.051	0.0792	20	
DUP	Samp	ble ID: 0608523-01BDL	IP				U	nits: mg/l	#	Analysis Da	ate: 09/06 /	06 10:4
Client ID:		· · ·	Run I	D: IC201_	060905C	Se	qNo: 943	672	Prep Date:		DF: 10	
						SDK Dof		Control			PPD	

Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Quai
Chloride	723.3	5.0	0	0	0	0-0	720.7	0.359	20	Е
Fluoride	ND	1.0	0	0	0	0-0	0.159	0	20	
Sulfate	50.09	10	0	0	0	0-0	50.53	0.867	20	
Surr: Selenate (surr)	50.46	1.0	50	0	101	80-120	50.56	0.182	20	
DUP Sample ID: 060852	3-01BDUP				1	nits: mall	4	analysis Da	te: 09/06/	06 4.50

DUP	Sample ID: 0608523-01BDUI	2					ុប	nits: mg/l	L	Analysis Da	ate: 09/06 /	06 4:50
Client ID:		Run	D: IC201_	060905C		Se	qNo: 943 1	696	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		738.6	0.50	0		0	0	0-0	738.	1 0.0642	20	Е
Fluoride		0.157	0.10	0		0	0	0-0	0.16	2 3.13	20	
Sulfate		51.97	1.0	0		0	0	0-0	51.9	1 0.121	20	Е
Surr: Sele	nate (surr)	5.038	0.10	5		0	101	80-120	5.03	9 0.0198	20	

The following samples were analyzed in this batch:

0608511-06C

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

QC Page: 30 of 32

OC BATCH REPORT

0.41

BBC International

0608511

QC BATCH REPORT

roject: Hess Texaco

CLIENT:

Work Order:

Batch ID: R41446	Instrument ID IC201		Metho	d: E300							
MBLK Sample I	D: WBLKW2-090606					U	nits: mg/L	-	Analysis Da	ite: 09/06/	06 20:54
Client ID:	Ru	n ID: IC201_	060906B		Sec	qNo: 9444	159	Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N) Surr: Selenate (surr)	ND 5.375	0.10 0.10	5		0	108	85-115		0		
LCS Sample II	D: WLCSW2-090606/		······		•	Ui	nits: mg/L	-	Analysis Da	ite: 09/06/	06 21:16
Client ID:	Ru	in ID: IC201_	060906B		Sec	qNo: 944 4	160	Prep Date:	·	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N) Surr: Selenate (surr)	8.7 5.26	0.10 0.10	8 5		0 0	109 <i>10</i> 5	90-110 <i>85-115</i>		0 0		
LCSD Sample I	D: WLCSDW2-09060	<u>.</u>				U	nits: mg/L	- <u></u>	Analysis Da	ite: 09/06 /	06 21:38
Client ID:	Ru	in ID: IC201_	060906B		Se	qNo: 944 4	1 61	Prep Date:	·	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N) Surr: Selenate (surr)	8.661 5.248	0.10	8		0	108 105	90-110 85-115	8	.7 0.449	20 20	
MS Sampla II									Analusia Da		00 4.47
Client ID:	9. 0609038-05AMS Ru	m ID: IC201_	060906B		Se	qNo: 944 4	165 165	- Prep Date:	Analysis Da	DF: 1	06 1:17
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N) Surr: Selenate (surr)	4.32 5.15	0.10	4		0	108 103	80-120 80-120	· .	0		
	0.70	0.10			-		00-120				
MSD Sample II	D: 0609038-05AMSD	ID: 10204	0000088		6.	U able: 044.	nits: mg/l 176	- Dran Data:	Analysis Da	ate: 09/07/	06 3:07
Analyte	Recult	POI	SPK Val	SPK Ref Value	96	4140: 9444	Control	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N)	4.293	0.10	4	<u> </u>	0	107	80-120	4.	32 0.627	20	
Surr: Selenate (surr)	5.142	0.10	5		0	103	80-120	5.	15 <i>0.155</i>	20	

D - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 31 of 32

CLIENT: Work Order: ^P roject:	BBC International 0608511 Hess Texaco								QC	BATC	H RE	PORT
Batch ID: R41446	Instrument ID	IC201		Method	d: E300							
DUP Sam	ple ID: 0609038-05ADL	IP					U	nits: mg/l	<u></u>	Analysis Da	ite: 09/07	/06 0:55
Client ID:	,	Run II): IC201	060906B		SeqNo	944	463	Prep Date:		DF: 1	NUMPER OF STREET
Analyte		Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitrite (as N))	ND	0.10	0		0	0	0-0		0 0	20	
Surr: Selenate (s	surr)	5.128	0.10	5		0	103	80-120	5.11	6 0.234	20	
Dichloroacetic acid	(surr)	ND	0.10	0	dimentational at an end of the	0	0	0-0		00	0	
The following san	nples were analyzed in	this batch:		0608511-01C 0608511-04C	06	08511-	02C 05C	06	08511-03C 08511-06C			

D - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 32 of 32

Induction Induction Induction Induction Instrument Rest of Current in the region of Current in the		/Method Request for Analysis	Full Scheen	THI) Screen			N C, E					E A BUNCH AND											Reputts Due Date:		CC Package: (Check Orie Box Balow)	C Level III Std QC/Raw Data TFRP Level IV	Other	Copyright 2006 by e-Lab Analytical, inc.
House Marker Ku, FUI House Marker Ku, FUI House Marker Ku, FUI Fase Tops Fase Trons Fase Trons Fase Trons Fase Trons <td> must be completed accurately. </td> <td>Parameter</td> <td>A 3-82608</td> <td>B 8270C F</td> <td>6 6010B</td> <td>1 7471 A</td> <td>E SM 45000</td> <td>1 (PD. 1</td> <td>E 150.1</td> <td></td> <td></td> <td>es A B B C C D</td> <td></td> <td>s: (Check Box) 🛛 🗍 Difter 💦 5 Wk Deys 🖓</td> <td>Notes:</td> <td>e-Lab Analytical Trib Blank</td> <td></td> <td></td> <td></td>	 must be completed accurately. 	Parameter	A 3-82608	B 8270C F	6 6010B	1 7471 A	E SM 45000	1 (PD. 1	E 150.1			es A B B C C D											s: (Check Box) 🛛 🗍 Difter 💦 5 Wk Deys 🖓	Notes:	e-Lab Analytical Trib Blank			
Instruction Instruction Instruction Instruction Instruction Cuestomer Information East 7095 Fax) 281.530.5687 The Chein of The	Custody is a Legal Document. All Informatio	Project Information	Texaco State G Lant		Hess Corporation	Randy Barnes	P.D. Box 84D	Seminole TX 7936.D	432-758-6778			ne 👘 Matrix 👔 Pres. 🕴 # Bottli	50 Water 8 2	ol Water 8 1	5 Water 4/7 1	5 Water 2 1	7 Water 1 3	31 Water 2 1	36 Water 8 2	He Water 8 1	50 Water 4/7 1	3 Water 1 3	od Required Turnaround Tim	d by:	dor't aboratory BIL 1 10 10815	d by the formation of the second s	VaHSO4 7-0(her 8-4°C 9-5035	bmitted to e-Lab Analytical, Inc.
Customer Information Customer Information Customer Information Customer Information Customer Information Customer Information BBC Truter Internal BBC	00 Stanchtf Rd. #210 ston, Texas 77099 281.530.5656 281.530.5887 The Chain of e		Project Name		ci DN Z	Ty)	r) and Abbress	· 82 山り Chy/State/Zp	3 8 8	397 Fax	e-Mail Address		8/23/06 105	8/23/06 11	8/23/06 110	8/23/06 111	8/23/06 1110	8/23/06/143	8/23/06 143	8/23/06 141	8/23/00 143	8/23/06 145	Etto Red Ex	25/D/2 207 Dwg	Time: Record	Time: Checke	0. 4-NaOH 5-Na-S20, 6-N	samples and COC Form have been sul
「「「「「「「「「「」」」「「「」」」「「」」」「「」」」」「「」」」」」」	Hou HULLER DE DE DE HOU HULLER EN DE	Customer Information	ler	161	me BBC Internat	to Cliff Brunsb	1324 W. Man	TP Hobbs NM 8	10 505-397-6:	× 505-397-0		Sample Description	of MM T	of MM1	TMW to	ut M W I	the MW1	ict MW 2	act MW 2	iet MWZ	act MW2	act MW 2	Кили Стана вы	N 2. H C Date:	Date	atory): Dato	ey: 1-HCI 2-HNO ₃ 3-H ₂ Si	anges must he made in writing once otherwise nerved in a formal contrac

3352 128th Avenue Holland, Michigan 49424 (Tel) 616.399.6070 (Fax) 616.399.6185	D Work Greet HIN WOCKSVI	lethod Request for Analysis	W/ Soreen	U OUVERN		L.C.E.					F Hold H									auguste i Acad (Results Due Dates, s. e.	A Hour		C Packege (Oriteck Ohe Box Belicity)	J Level III Std OC/Raw Data [] TRRP Level IV] Level III Std OC/Raw Data [] TRRP Level IV] Other	Copyright 2006 by e-Lab Analytical, Inc.
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Page 2 of 2	e Lab Project Manage	oject information		ese Anoration	andu Barnes	D. Box 840	minole, TX 79360	32-758-6778		and a second	Matrix Pres. # Bott	Water 8 2	Water 8 1	Water 4/7	Water 2 1	Water 1 3				Required Turnaround Tim	IN STD 10 WK Days	-	CHANNEL OF IN ORIS	Hobinatory/	SO 7-Other 8-4°C 0-503	tted to e-Lab Analytical, Inc. nc. are expressly limited to the terms s
ancJiff Rd. #210 Texas 77099 530.5656 .530.5887 The Chain of Cusi			Project Number			Address P.	40 Chy/State/Zip Se	μ blome μ		e-Mail Address	Date Time	8/24/06 1003	8/24/000 1045	8/24/06 1054	8/24/06 1101	8/24/06 1108				「 数字でする 数字でも Shipment Method	to Fed Ex	Ole ZDD DVM Beceived by	Time: Received by	STIMe: Checked by	4-NBOH 5-Na2SPO3 6-NBH	les and COC Form have been submit vices provided by e-Lab Analytical, I
- 10450 Stu Houston, (Tel) 281, • SERVICE	listomor Information			BBC Internation	Cliff Branson	1324 W. Marland	Hobbs, NN 882	505-397-6388	505-397-0397		Sample Description	MM ST	MLNS	MWS	MMS	MMS			· · · · · · · · · · · · · · · · · · ·	Hits sign	The Charles All	Zich Date:	Date:	Date	1.HOI 2-HNO, 3-H;50,	must be made in writing once samp) vise agreed in a formal contract, ser
A CALIFY ANY REGENT		Dim Hate Omor	Work Order	Company Name	Sehd Report To	Address	City/State/Zip	Phone	Fax	e-Mail Address	No,	A C Lact	2 C Lack	3 C3 Lact	4 Ca Lact	TI Lact	4	8	6	10 Sampler(s) Please Ph	Amu C. Ru	Relinduiafied by	Helinquished by:	Logged by (Laboratory):	Preservative Key:	fote: 1. Any changes 2. Unless others

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Completed acourately. (Fax) 616.399.6185	Parameter/Method Request for Analysis	S-8260B Full Sareen	8270C Full Sureen	6010 B	<i>ユイヤ, A</i>	SM 4500 CN CE	300,0	160. I	50														30X) [] Other		najviteal Trip Blank (QC Paskage: JOheck One Box Bajoy)	Contract Contrect Contract Contract Contract Contract Contract Contract Contrac	(1) [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	Copyright 2006 by e-Lab Analytical, Inc.
#210 099 The Chain of Custody is a Legal Document. All Information must be comment. All Information must be comment.	Project Information	Project Name	Project Number	IIII TO COMPANY HESS CONDOCTATION C	moussann Rander Barres D	Address P. D. Box 840		CONSERVING Seminole, TX 79360 al 1	Phone 432-758-6778 H 1	Fax	e Mail Address	Date // Time // Matrix / Pres/ / #Bottles / A	24/06 1301 Water 8 2	124/04 1308 Water 2 1	24/04 1314 Water 8 1	241/04 1316 Hater 4/7 1	24/06 1320 Water 1 3 V	24/06 (503 Water 2 1	24/06 (507 Water 8 1	24/06 1508 Water 4/7 1	24/06 15-11 Water 1 3 V	24/06 1454 Water 8 2	Shipment Method Required Turneround Time: (Check E $Fed E_X$	D. D.M. Received by:	Preserved to the borner of the OGIS Contract in the Contract of the contract o	Checked by/Laboratory)	: 5-Ne2S2O3 - 4 6-NaHSO3, 1 7-Other 3 8-4 C - 9-5035	C Form have been submitted to e-Lab Analytical, Inc.cd by e-Lab Analytical, Inc. are expressly limited to the terms and condition
U450 Stancliff Rd. Houston, Texas 77 (Tel) 281.530.5686 QUALITY-INTEGRITT-SERVICE	Customer Information	Purchase Order	Workforder	Company Name BBC Infernational	Send Report to CILL Bringer	Address 1224 W. Marland		Olly Salah Zap Hobbs, NM 88240	Phone 505-397-6388	Fax 505-397-0397	e-Mail Address	No 😥 Sainpija Description 💦 👔 👘	1 G Lact MW 4 8/	2 G Lad MW 4 8,	2 CLact MW4 B/	C Lart MW4 81	S G Lact MW4 81	CLact MW 6 81	C Lact MW Le 81	C Lact MW C 81	C Lact MW 6 8/	10 C Lact MWG 8/2	Semplerics Please Print & Sign Ameri Amy C. Ruth Wine Cont	Ballightshed by 1 2 25/06 71	Boundursfiedby: Date: Time:	Logged by (Laboratory):	Preservative Key: 1+HC 2-HNO, 3-H2O, 4-NaOH	Vote: 1. Any chunges must be made in writing once samples and COI 2. Unless otherwise agreed in a formal contract, services provid

	r/Method Request for Analysis	The Severn	11 Surrow			IN COE					E H B B H H I N HOIR										i Albur		CO.Packape. (Check One Box Below)	C Level III Std OC/Raw Data TRRP Level IV	1 other	Copyright 2006 by e-Lab Analytical, Inc.
r v v · · · · · · · · · · · · · · · · ·	1996 Parameter	\$ S-8260B F	1 3270C FL	1 6 6010 B	0 7471 A	E 300 A	0 G 160.1	H 150.1			otties A B C C	3	>				3 <			Dime: (Check Box)	🖂 6 Wk Daiys 🖂 🖂 2 Wk Baye	Notes:	B-Lab Anelytical Trip Blank Cooler 10 Number			
Page 2 of 2 Ustody is a Legal Document. All Inform	Project Information			Hess Corporation	Randy Barnes	P.D. Box 840	Seminole TX 7936	432-758-6778			ie////Matrix////Pres	Water 1	Water 8	Water 2 1	Water 4/7	Water 8	15 Water 1			d Record	Wisto to we bays	1 by:)	by (Laboratory) B. O. W. J.	by Raboratory.	laHS0, 7-Other 8:4°C 9-5	unitted to e-Lab Analytical, Inc.
clift Kd. #210 exas 77099 80.5666 30.5887 The Chain of C	<u>**</u>	Project Name	Project Number	La / Bill To Company	Invoise Atth	ر Stertbox	ノン City/State/Zip 。		Har Har	e-Mail Address	Cate 1 Th	8/24/0r	8/24/06	8/24/06	8/24/06	8/24/01	8/24/06 154				b Falex	10 200 Dum	Time: Tepelver	Timer	t-NaOH 5-Na2SiO3 6-N	s and COC Form have been sub
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A CHARGE AND A CHA	Cus	Purchase Order	Work Order	Gompany Name B	Send Report To	Address / ;	City/State/Zip H	Phone S	EAX 7	e-Mail Address	No	1 Duchicate	2 Duplicat	Duplicat	1 Duplicat	5 Duplicat	· Equipme	80	0	10 Samnlaria: Plaasa Print	Amu & Ruth	Bellined Shed by:	Relinquished by:	Logged by (Laboratory)	Prèservative Key: 14	lote: I. Any changes m

2. Unless otherwise agreed in a formul contract, services provided by e-Lab Analytical, Iac, are expressly limited to the terms and conditions stated on the reverse.

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name BBC				Date/Tim	e Received:	<u>8/26/20</u>	06 8:15:00 AM
Work Order Number	0608511			Received	by: <u>RS</u>	7	
Checklist completed b	N RICHARDSAN	HQ2 Date	2616	Reviewed	by O		8/30/0V
Matrix:	N	Carrier name	FedEx				
Shipping container/co	oler in good condition?		Yes 🗸	No	No: Present		
Custody seals intact o	n shipping container/cooler?		Yes L	No	Noi Present	✓.	
Custody seals intact o	on sample bottles?		Yes	No 🗀	Not Present	Ý	
Chain of custody pres	ent?		Yes 🗹	No 🗔			
Chain of custody sign	ed when relinquished and recei	ved?	Yes 🗹	No 🗌			
Chain of custody agre	es with sample labels?		Yes 🗹	No 🗔			
Samples in proper cor	ntainer/bottle?		Yes 🗹	No 🗌			
Sample containers int	aci?		Yes 🗹	No 🗌			
Sufficient sample volu	me for indicated test?		Yes 🗹	No 🗔			
All samples received	within holding time?		Yes 🗹	No 🗌			
Container/Temp Blank	k temperature in compliance?		Yes 🗹	No 🗔			
Temperature(s)/Them	nomeler(s):		<u>3.7c, 2.9c</u>	002	· · · · · · · · · · · · · · · · · · ·		
Water - VOA vials hav	ve zero headspace?		Yes 🗹	No 🗌 N	lo VOA vials s	ubmitted	
Water - pH acceptable	e upon receipt?		Yes 🗹	No 🗔 N			
	Adju	isted?	Ch	ecked by			
Login Notes: <u>T</u>	rlp blank not on COC; logged in	without analysi	<u>s.</u>				
	,						
	1	•••••• •••• •••	••••••••••••••••••••••••••••••••••••••				
Client contacted	Date	e contacted:		F	Person contact	ed	
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APPENDIX III

Site Photographs

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.





Texaco State "G" Lact Unit Battery #22 Tank Battery Area



Texaco State "G" Lact Unit Battery #22 excavation of Burn Pit



Texaco State "G" Lact Unit Battery #22 Battery Excavation



Texaco State "G" Lact Unit Battery #22 Tank Battery Area and Burn Pit



Texaco State "G" Lact Unit Battery #22 Burn Pit



Texaco State "G" Lact Unit Battery #22 Burn Pit




Texaco State "G" Lact Unit Battery #22 drilling of SB3



Texaco State "G" Lact Unit Battery #22 Burn Pit with SB1 at bottom



Texaco State "G" Lact Unit Battery #22 drilling of MW2



Texaco State "G" Lact Unit Battery #22 excavation of Burn Pit rim



Texaco State "G" Lact Unit Battery #22 Burn Pit backfill of fines to 6' bgs



Texaco State "G" Lact Unit Battery #22 Burn Pit installation of clay liner



Texaco State "G" Lact Unit Battery #22 backfill of Burn Pit complete

APPENDIX IV

Drilling Logs

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

с;

Prepared for: Hess Corporation Seminole, Texas

.October, 2006



Project Name: Texaco State G Lact Unit Battery 22

Borchold Number: <u>MW-1</u>_____

Drilled by:______Eades Drilling & Pump Service______

Date/Time Started: 6/06/06 08:50

Air Monitoring Type:

Project No.:	
Logged by:	Alan G. Eades
Drilling/Rig Method(s)	Air Rotary
Date/Time Completed:	6/06/06 08:50
GWL Depth:	

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
() - -		0`-2`		Top Soil			
- 5 		2'-6'		Caliche			
- 							
- 							
- 20 -		6' - 30'		Sand			
- 25 -							
- - 30 -							
- - 35 -							
- - 40							

Comments: ___

Technician Signature:



Project Name: <u>Texaco State G Lact Unit Battery 22</u>	Project No.:
Borehold Number: <u>MW-2</u>	Logged by: Alan G. Eades
Drilled by: Eades Drilling & Pump Service	Drilling/Rig Method(s): <u>Air Rotary</u>
Date/Time Started:6/06/0608:50	Date/Time Completed: 6/06/06 08:50
Air Monitoring Type <u>:</u>	GWL Depth:

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
() - -		0' - 2'		Top Soil			
- - 5		2'-6'		Caliche			
		6' - 30'		Sand			

Comments: ____





Project Name:	Texaco State G Lact Unit Battery 22
Borehold Number:	<u>MW-3</u>
Drilled by:	Eades Drilling & Pump Service
Date/Time Started:	6/06/06 08:50
Air Monitoring Type;	

Project No.:		
Logged by:	Alan G. Eades	
Drilling/Rig Method(s)	Air Rotary	
Date/Time Completed;	6/06/06_08:50	
GWL Depth:		

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
() - -		0' - 2'		Top Soil			
- - 5		2'-6'		Caliche			
- - - 							
		6` 30`		Sand			
- 							

Comments: ____



Project Name:	Texaco State G Lact Unit Battery 22	Project No.:
Borehold Number:	MW-4	Logged by: Alan G. Eades
Drilled by:	Eades Drilling & Pump Service	Drilling/Rig Method(s): <u>Air Rotary</u>
Date/Time Started:	6/06/06 08:50	Date/Time Completed: <u>6/06/06 08:50</u>
Air Monitoring Type <u>:</u>		GWL Depth:

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
0 - -		0'-2'		Top Soil			
- - 5		2'-6'		Caliche			
-							
- 10							
-							
15 -							
		6' - 30'		Sand			
-	i ,						
-							
30 -							
- 35							
-							
- 40							

Comments: ____

Technician Signature:





Project Name:	Texaco State G Lact Unit Battery 22
---------------	-------------------------------------

Borehold Number: <u>MW-5</u>_____

Drilled by:_____ Eades Drilling & Pump Service_____

Date/Time Started: 6/06/06 08:50

Air Monitoring Type<u>:</u>_____

Project No.:		
Logged by:	Alan G. Eades	
Drilling/Rig Method(s);	Air Rotary	
Date/Time Completed:	6/06/06 08:50	
GWL Depth:		

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
0 - -		0'-2'		Top Soil			
- - 5 -		2' - 6'		Caliche			
- 							
- - 15 -							
- - 20		6` - 30`		Sand			
- - 25							
- - 35							
- - 							

Comments:

Technician Signature:



Project Name:	Texaco State G Lact Unit Battery 22	Project No.:	
Borehold Number:	MW-6	Logged by:	Alan G. Eades
Drilled by:	Eades Drilling & Pump Service	Drilling/Rig Method(s);	Air Rotary
Date/Time Started:	6/06/06 08:50	Date/Time Completed;	6/06/06 08:50
Air Monitoring Type:		GWL Depth:	

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments
() - -		0' - 2'		Top Soil			
- - 5		2'-6`		Caliche			
-							
10 - -							
- 15 -							
- - 		6' - 30'		Sand			
25 							
- - 							
-							
35 - -							
- 40							

Comments: _____

Technician Signature:

APPENDIX V

Correspondence

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Amy C. Ruth

From: Price, Wayne, EMNRD [wayne.price@state.nm.us]

Sent: Tuesday, July 11, 2006 12:03 PM

To: Cliff P. Brunson

Cc: Drew Hall ; Amy C. Ruth; Jennifer Gilkey

Subject: RE: Hess Corp - Texaco State G Lact Unit Battery 22 - AP-57

OCD hereby approves with the following condition:

- 1. This E-mail approval will be included in the Stage 1 proposal.
- 2. Notify the District office of future activities.

Please be advised that NMOCD approval of this plan does not relieve the owner/operator of responsibility should operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Monday, July 10, 2006 2:44 PM
To: Price, Wayne, EMNRD
Cc: Drew Hall ; Amy C. Ruth; Jennifer Gilkey
Subject: RE: Hess Corp - Texaco State G Lact Unit Battery 22 - AP-57

Wayne,

This message is to confirm our conversation on the morning of July 7, 2006, concerning the burn pit excavation at the Hess Texaco State G Lact Unit Battery site which has been assigned an abatement number of AP-57. As we discussed, Hess is requesting an emergency action to backfill this open excavation due to safety concerns. The excavation is 15 feet deep with sheer walls and poses a safety risk. The excavation will be backfilled with clean soil to six (6) feet below ground surface then a one foot thick compacted clay liner will be installed then covered with five (5) feet of clean top soil.

In addition to our conversation, I want to remind you that Hess will be advancing additional groundwater monitoring wells the week of July 10th to further delineate the hydrocarbon plume that exists on the water table. A Stage 1 Abatement Report will be submitted shortly after completion of the backfilling and installation of the additional monitoring wells. The Stage 1 report will include descriptions of all site activities, analytical data, site and potentiometric maps and all requirements for the abatement process. Hess will address remedial options for the groundwater and the remaining impacted soil in the bottom of the burn pit in consultation with you and in additional reports as we flow through the Abatement process.

I appreciate your cooperation and approval on this matter as the hydrocarbon impact is addressed and remediated.

Thanks,

Cliff

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please

immediately notify the sender by e-mail or by collect telephone call to (505) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

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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APPENDIX VI

List of Surface Owners

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

1819 N. Turner, Suite B Hobbs, N.M. 88240 Phone (505) 393-7706 Fax (505) 393-7725





115 E. Washington Lovington, N.M. 88260 Phone (505) 396-5846 Fax (505) 396-2490

ELLIOTT & WALDRON TITLE & ABSTRACT CO., INC.

August 29, 2006

BBC International Mr. Cliff Brunson 1324 W. Marland Blvd Hobbs, N.M.88240

Dear Cliff,

Pursuant to your request, please note the following names and addresses of the property owners located within the radius noted on the attached survey;

Portion located in Section 18, Township 19 South, Range 37 East Jimmie T. Cooper and Betty B. Cooper Trust Star Route A. Box 55 Monument, N.M. 88265

Portion located in Section 19, Township 19 South, Range 37 East Jimmie T. Cooper and Betty B, Box 55 Monument, N.M. 88265

Portion located in Section 13, Township 19 South, Range 36 East El Paso Natural Gas Company P.O. Box 1087 Colorado Springs, Co 80944

Portion located in Section 29, Township 19 South, Range 37 East State of New Mexico Commissioner of Public Lands

Portion located in Section 24, Township 19 South, Range 36 East Jimmie T. Cooper and Betty B. Cooper Trust and Jimmie T. Cooper Star Route A. Box 55 Monument, N.M. 88265

Portion located in Section 25, Township 19 South, Range 36 East Betty Baum Cooper & Jimmie T. Cooper Star Route A. Box 55 Monument, N.M. 88265

Portions located in Section 30, Township 19 South, Range 37 East; Roy Stoffer Box 201 Monument, N.M. 88265

Ernest D. Long 9529 W. Monument RD Hobbs, N.M. 88240

H.F. Stephens Box 24 Monument, N.M. 88265

Morris Shepard General Delivery Monument, N.M. 88265

C.E. Dickson P.O. Box 166 Monument, N.M. 88265

DLD Corporation 3027 Point Clear Dr. Fort Mill, SC 29715

Jacky C. & Loretta Byrd 2806 N. Fowler Hobbs, N.M. 88240

Linda Dunn P.O. Box 463 Hobbs, N.M. 88241

Marcos and Shawna Prada P.O. Box 374 Hobbs, N.M. 88240





Danny A. Dickenson 1837 N. Steven Dr. Hobbs, N.M. 88240

Stephen W. Barr 11424 State Hwy 322 Monument, NM 88265

Melanie & Chris Allen P.O. Box 5 Monument, N.M. 88265

Mike Foreman P.O. Box 193 Monument, N.M. 88265

Jose & Leticia Martinez 1004 E. Clinton Hobbs, N.M. 88240

Brad Graj P.O. Box 2550 Hobbs, N.M. 88241

If you should need any further information please do not hesitate to give me a call.



David A. Pyeatt

DAP/ sf



TABLE 1

Soil Laboratory Analytical Results Summary

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

3

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Table 1. Soil Laboratory Analytical Results Summary

		Sample	South East 2'	Center East 3'
Analyte	Method	Date		
			mg/Kg	mg/Kg
Benzene	S 8021B	05/05/06	< 0.005	< 0.005
Toluene	S 8021B	05/05/06	<0.005	<0.005
Ethylbenzene	S 8021B	05/05/06	<0.005	<0.005
Total Xylenes	S 8021B	05/05/06	<0.015	<0.015
Chloride	4500-CI ⁻ B	05/05/06	<8	48
GRO	SW-846 8015 M	05/05/06	<10.0	<10.0
DRO	SW-846 8015 M	05/05/06	<10.0	<10.0

		Sample	G Lact Pile	G Lact NE Pit 12'	G Lact W Pit 15
Analyte	Method	Date			
			mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/11/06	< 0.005	<0.005	<0.005
Toluene	S 8021B	05/11/06	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	05/11/06	0.010	0.018	<0.005
Total Xylenes	S 8021B	05/11/06	0.076	0.089	<0.015
Chloride	4500-CI ⁻ B	05/11/06	16	192	32
GRO	SW-846 8015 M	05/11/06	51.3	73.6	<10.0
DRO	SW-846 8015 M	05/11/06	379	5400	52.3

G Lact NE G Lact SE Sample 15' 15' Method Analyte Date mg/Kg mg/Kg Benzene S 8021B 05/22/06 < 0.005 < 0.005 S 8021B Toluene 05/22/06 < 0.005 < 0.005 Ethylbenzene <0.005 S 8021B 05/22/06 < 0.005 **Total Xylenes** S 8021B 05/22/06 <0.015 <0.015 Chloride 4500-CI⁻B 05/22/06 176 192 GRO <10.0 SW-846 8015 M 05/22/06 <10.0 DRO 1950 771 SW-846 8015 M 05/22/06

		Sample	G Lact SB2 20
Analyte	Method	Date	
			mg/Kg
Benzene	S 8021B	06/07/06	<0.005
Toluene	S 8021B	06/07/06	<0.005
Ethylbenzene	S 8021B	06/07/06	<0.005
Total Xylenes	S 8021B	06/07/06	<0.015
Chloride	4500-CI ⁻ B	06/07/06	*16
GRO	SW-846 8015 M	06/07/06	<10.0
DRO	SW-846 8015 M	06/07/06	41.2

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Table 1. Soil Laboratory Analytical Results Summary

		Sample	SB3-5'	SB3-20'	MW-3-3'	MW-3-5'	MW-3-10'	MW-3-20'	MW-3-25'
Analyte	Method	Date							
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/12/06	<0.002	<0.010	<0.002	<0.002	<0.002	< 0.002	<0.002
Toluene	S 8021B	06/12/06	<0.002	*1.212	< 0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	06/12/06	< 0.002	*0.574	< 0.002	<0.002	< 0.002	< 0.002	<0.002
Total Xylenes	S 8021B	06/12/06	<0.006	*3.609	<0.006	<0.006	<0.006	<0.006	<0.006
Chloride	4500-CI ⁻ B	06/12/06	768	32	1520	448	304	16	16
GRO	SW-846 8015 M	06/12/06	<50.0	2500	<50.0	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	06/12/06	<50.0	13200	<50.0	<50.0	<50.0	<50.0	<50.0

		Sample	MW-4-3'	MW-4-5'	MW-4-10'	MW-2-20'
Analyte	Method	Date				
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/12/06	<0.002	<0.002	< 0.002	< 0.002
Toluene	S 8021B	06/12/06	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	06/12/06	<0.002	<0.002	<0.002	<0.002
Total Xylenes	S 8021B	06/12/06	<0.006	<0.006	<0.006	<0.006
Chloride	4500-CI ⁻ B	06/12/06	576	960	480	16
GRO	SW-846 8015 M	06/12/06	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	06/12/06	<50.0	<50.0	<50.0	<50.0

*Results should be considered as estimates due to high pertoleum hydrocarbon background interference.

		Sample	1 14	2 6'	3 4'	4 1	5 1'	6 2'	7 1'
Analyte	Method	Date							
			mg/Kg	mg/Kg	📐 mg/Kg 🖾	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/21/06	< 0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005
Toluene	S 8021B	06/21/06	< 0.005	<0.005	< 0.005	<0.005	<0.005	< 0.005	<0.005
Ethylbenzene	S 8021B	06/21/06	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylenes	S 8021B	06/21/06	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Chloride	4500-CI ⁻ B	06/21/06	32	16	<16	<16	16	<16	16
GRO	SW-846 8015 M	06/21/06	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	06/21/06	14.5	<10.0	45.1	117	260	22.2	11.2

		Sample	8 1'	9 1'	10 2'	11 2'
Analyte	Method	Date				
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005
Toluene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005
Total Xylenes	S 8021B	06/21/06	<0.015	<0.015	<0.015	<0.015
Chloride	4500-CI ⁻ B	06/21/06	<16	80	16	80
GRO	SW-846 8015 M	06/21/06	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	06/21/06	317	91.1	11.4	<10.0



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Table 1. Soil Laboratory Analytical Results Summary

12.5%

		Sample	MW 4-22'	SB 5-25'	MW 5-25'	MW 6-22'
Analyte	Method	Date				
			mg/Kĝ	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	07/10/06	<0.005	<0.005	<0.005	<0.005
Toluene	S 8021B	07/10/06	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	07/10/06	<0.005	0.025	<0.005	<0.005
Total Xylenes	S 8021B	07/10/06	<0.015	0.346	<0.015	<0.015
Chloride	4500-CI ⁻ B	07/10/06	48	48	32	32
GRO	SW-846 8015 M	07/10/06	<10.0	201	<10.0	<10.0
DRO	SW-846 8015 M	07/10/06	<10.0	1140	<10.0	<10.0

		Sample	Burn Pit Rim Spoils
Analyte	Method	Date	
			mg/Kg
Benzene	S 8021B	07/27/06	<0.005
Toluene	S 8021B	07/27/06	<0.005
Ethylbenzene	S 8021B	07/27/06	<0.005
Total Xylenes	S 8021B	07/27/06	<0.015
Chloride	4500-CI ⁻ B	07/27/06	*160
GRO	SW-846 8015 M	07/27/06	<10.0
DRO	SW-846 8015 M	07/27/06	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract





TABLE 2

Groundwater Laboratory Analytical Results Summary

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006



		G Lact	G Lact	G Lact		G Lact
		Sample :	Sample :	Sample :	Sample :	Sample :
Analyte	Method	0608511-01	0608511-02	0608511-03	0608511-04	0608511-05
	014/7470	Simg/Last	mg/L	Smg/L	ି mg/L୍ରୁ ଧାର	mg/L
lotal Mercury	SW7470	ND	ND	ND	ND	ND
		28.200 at 19.00	2014 - 1 46 <u>1</u> 8858	1454 N	in is not and	
	011/0000	ing/L	mg/L	mg/L	a mg/L ⊴	mg/L
Aluminum	SW6020	ND	ND		ND	ND
Arsenic	SW6020	0.00509	0.00636		0.00551	0.00956
Barium	SW6020	1.101	0.155	0.0732	0.110	0.0522
Boron	SW6020	0.220	0.029	0.158	0.152	0.270
Cadmium	SW6020			ND	ND	ND
Chromium	SW6020			ND	ND	ND
Cobalt	SW6020	ND		ND		ND
Copper	SW6020		ND		ND	0.0161
Iron	SW6020	ND			ND	ND
	SW6020		ND	ND	ND	ND
Manganese	SW6020	0.00779	ND		1.57	ND
Molybdenum	SW6020				0.00668	ND
	SW6020		ND			ND
	SW6020		ND			ND
Silver	SW6020					
	SW6020	0.00532		0.00596	0.00797	0.00775
ZINC	5006020	0.00818	0.00898	0.00836	0.00540	0.00600
		in all		a di Lingen	W. Carry Siller	i stanin i s
1245 Totrachlorohanzona	SW/9270	H9/L		<u>∦</u> g/≌,∞, ND		ND
1.2-Diphenylhydrazine	SW/8270					
1-Methylnanhthalene	SW8270			ND		
2 3 4 6-Tetrachlorophenol	SW8270			ND		ND
2 4 5-Trichlorophenol	SW8270	ND	ND	ND	ND	ND
2.4.6-Trichlorophenol	SW8270	ND	ND	ND	ND	ND
2.4-Dichlorophenol	SW8270	ND	ND	ND	ND	ND
2.4-Dimethylphenol	SW8270	ND	ND	ND	ND	ND
2.4-Dinitrophenol	SW8270	ND	ND	ND	ND	ND
2.4-Dinitrotoluene	SW8270	ND	ND	ND	ND	ND
2,6-Dichlorophenol	SW8270	ND	ND	ND	ND	ND
2-Chlorophenol	SW8270	ND	ND	ND	ND	ND
2-Methylnaphtalene	SW8270	ND	ND	ND	ND	ND
2-Methylphenol	SW8270	ND	ND	ND	ND	ND
2-Nitrophenol	SW8270	ND	ND	ND	ND	ND
3&4-Methylphenol	SW8270	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	SW8270	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	SW8270	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	SW8270	ND	ND	ND	ND	ND
4-Nitrophenol	SW8270	ND	ND	ND	ND	ND
Acenaphthene	SW8270	ND	ND	ND	ND	ND
Acenaphthylene	SW8270	ND	ND	ND	ND	ND
Anthracene	SW8270	ND	ND	ND	ND	ND
Benz(a)anthracene	SW8270	ND	ND	ND	ND	ND
Benzidine	SW8270	ND	ND	ND	ND	ND





Table 2. Groundwater Laboratory Analytical Results Summary



		G Lact MW1	G Lact MW2	G Lact MW5	G Lact MW4	G Lact MW6
Analvte	Method	Sample :	Sample : 0608511-02	Sample :	Sample :	Sample :
Benzo(a)pyrene	SW8270	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	SW8270	ND	ND	ND	ND	ND
Benzo(g.h.i)pervlene	SW8270	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	SW8270	ND	ND	ND	ND	ND
Bis(2-chloroethy)ether	SW8270	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	SW8270	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	SW8270	ND	ND	ND	ND	ND
Chrysene	SW8270	ND	ND	ND	ND	ND
Di-n-butyl phthalate	SW8270	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	SW8270	ND	ND	ND	ND	ND
Diethyl phthalate	SW8270	ND	ND	ND	ND	ND
Dimethyl phthalate	SW8270	ND	ND	ND	ND	ND
Fluoranthene	SW8270	ND	ND	ND	ND	ND
Fluorene	SW8270	ND	ND	ND	ND	ND
Hexachlorobenzene	SW8270	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	SW8270	ND	ND	ND	ND	ND
Hexachloroethane	SW8270	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	SW8270	ND	ND	ND	ND	ND
Isophorone	SW8270	ND	ND	ND	ND	ND
N-Nitroso-di-n-butylamine	SW8270	ND	ND	ND	ND	NĎ
N-Nitrosodiethylamine	SW8270	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	SW8270	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	SW8270	ND	ND	ND	ND	ND
N-Nitrosopyrrolidine	SW8270	ND	ND	ND	ND	ND
Naphthalene	SW8270	ND	ND	ND	ND	ND
Nitrobenzene	SW8270	ND	ND	ND	ND	ND
Pentachlorobenzene	SW8270	ND	ND	ND	ND	ND
Pentachlorophenol	SW8270	ND	ND	ND	ND	ND
Phenanthrene	SW8270	ND	ND	ND	ND	ND
Pyrene	SW8270	ND	ND	ND	ND	ND
	_	NAME COMPANY OF A	salar di S. Mandadi S	be build be all the	1.1 10 1 1 1	
		//µg/L	µg/L	µg/L	µg/L	,`µg/L
1,1,1-Trichloroethane	SW8260	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	SW8260	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	SW8260				ND ND	ND
1,1-Dichloroethane	SW8260				ND	ND
1,1-Dichloroethene	5008260					ND
1,1-Dichioropropene	SVV8260			ND		
1,2-Dibromoetnane	SW0200					
1,2-Dichlorobenzene	SW8260					
1,2-Dichloroethane	SW0200					
Acrolein	SW8260					
Acryionitrile	SW020U					
Derizerie Dromodiablezamethana	SW0200					
Bromomothere	SW0200					
Corbon totrochloride	SW0200					
	SVV020U					
Iomoropenzene	J388020U		טאו ן	עא ן	עא ן	- עא



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Table 2. Groundwater Laboratory Analytical Results Summary



		G Lact MW1	G Lact MW2	G Lact MW5	G Lact MW4	G Lact MW6
Analyte	Method	Sample : 0608511-01	Sample : 0608511-02	Sample : 0608511-03	Sample : 0608511-04	Sample : 0608511-05
Chloroform	SW8260	ND	ND	ND	ND	ND
Chloromethane	SW8260	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	SW8260	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	SW8260	ND	ND	ND	ND	ND
Dichlorodifluoromethane	SW8260	ND	ND	ND	ND	ND
Ethylbenzene	SW8260	ND	ND	ND	ND	ND
m,p-Xylene	SW8260	ND	ND	ND	ND	ND
Methylene chloride	SW8260	ND	ND	ND	ND	ND
o-Xylene	SW8260	ND	ND	ND	ND	ND
Tetrachloroethene	SW8260	ND	ND	ND	ND	ND
Toluene	SW8260	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	SW8260	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	SW8260	ND	ND	ND	ND	ND
Trichloroethene	SW8260	ND	ND	ND	ND	ND
Trichlorofluoromethane	SW8260	ND	ND	ND	ND	ND
Vinyl_chloride	SW8260	ND	ND	ND	ND	ND
		mg/L	mg/L	∭mg/L	mg/L	mg/L
Chloride	E300	116	11.6	170	99.8	389
Fluoride	E300	0.709	0.827	0.793	1.16	2.18
Sulfate	E300	95.6	13.1	97.0	62.9	489
Nitrate-Nitrite (as N)	E300	1.22	2.46	4.08	ND	7.49
		mg/L	mg/L	rs mg/L ;	mg/L	mg/L
Cyanide	E335.3	ND	ND	ND	ND	ND
		mg/L	`mġ/L`	mg/L	mg/L	mg/L
Nitrogen, Nitrite	E354.1	ND	ND	ND	ND	0.438
		pH units	pH units	pH units	pH units	pH units
рН	E150.1	6.65	7.03	6.81	6.82	7.02
		mg/L	mg/L	mg/L	mg/L	mg/L
Total Dissolved Solids	E160.1	740	259	794	646	1690





TABLE 3

LNAPL and Groundwater Elevation

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

MONITORING	TOP OF	DATE	DEPTH TO	DEPTH TO	LNAPL	CORRECTED
WELL	CASING		GROUNDWATER	LNAPL	THICKNESS	GROUNDWATER

20.68

18.22

20.22

23.83

27.64

19.25







MW-1

MW-2

MW-3

MW-4

MW-5

MW-6









3656.47

3654.85

3656.43

3659.16

3662.34

3655.85

8/23/2006

8/23/2006

8/23/2006

8/23/2006

8/23/2006

8/23/2006















0.00

0.00

0.34

0.00

0.00

0.00

3635.79

3636.63

3636.55

3635.33

3634.70

3636.60

ND

ND

19.76

ND

ND

ND

