# AP - 019

# STAGE 2 REPORT

01/2007



# NMGSAU BATTERY #94

# STAGE 2 ABATEMENT PLAN (AP-19) FINAL REPORT

# **JANUARY 2007**

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# HESS CORPORATION (Formerly Amerada Hess Corp.) 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: cbrunson@bbcinternational.com WEBSITE: www.bbcinternational.com

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#### 1.0 INTRODUCTION

The subject site is located southeast of Monument, NM in Section 3, T-20-S, R-36-E of Lea County. Assessment activities were conducted at the abandoned Amerada Hess Corporation (AHC, Hess) operated NMGSAU Battery No. 94, situated within the boundary of the C & C Landfarm. Site pictures are available in **Appendix I**.

AHC purchased the well and tank battery equipment as well as the San Andres rights beneath the Cooper F & G leases from the Byrom Oil Company in 1989. The contamination was resultant from battery and evaporation pit operations.

In August of 2000 AHC proposed to excavate, take samples, install a clay barrier depending on degree of contamination, blend contaminated stockpile with clean material until total petroleum hydrocarbon (TPH) concentration fell below 5000 ppm, backfill with blended material up to three (3) feet of the surface, and complete backfilling with clean soil. It was proposed that excavation would begin with the obvious surface contamination to two (2) feet below ground surface (bgs). Excavation would proceed until TPH bottom hole levels fell below 5000 parts per million (ppm). If, from that point TPH levels of <1000 ppm could be reached within a further five feet, excavation would continue to that point.

During excavation operations in October of 2000, significant hydrocarbon contamination was followed to a depth of thirty one (31) feet with no indication that bottom would be reached. Groundwater contaminated with crude oil was encountered at thirty four (34) feet bgs.

In accordance with SW Rule 19, E, (2)(b)(3), AHC submitted a Stage 1 Abatement Plan to the New Mexico Oil Conservation Division (NMOCD) to determine administrative completion.

The Stage 1 Abatement Plan proposed that four (4) soil borings would be drilled surrounding the excavated area, during which time, soil samples would be collected at vertical intervals and tested for Benzene-Toluene-Ethyl-benzene-Xylene (BTEX), chloride, and Total Petroleum Hydrocarbons (TPH). Three (3) of the soil borings would be placed in the assumed down gradient and one (1) would be placed in the assumed up gradient as all of the soil borings were to be completed as groundwater monitor wells. These monitor wells would then be sampled and analyzed for BTEX, chloride, and Total Dissolved Solids (TDS) concentrations. Groundwater samples would continue to be taken and analyzed quarterly for the first year after drilling and then yearly for the duration of the abatement plan.

The NMOCD granted administrative completion to the Stage 1 Abatement Plan Proposal on July 5, 2001.

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#### 2.0 PUBLIC NOTIFICATION-STAGE 1

As stated in NMOCD Rule 19.G.(1), AHC issued written notice of the Stage 1 proposal to "those persons, as identified by the Director, who have requested notification".

Pursuant to NMOCD Rule 19.G.(2), AHC's Stage 1 notice of publication was issued in the Albuquerque Journal, the Lovington Daily Leader, and the Hobbs News Sun.

#### 2.1 NMOCD Rule 19.G

**G.** Public notice and participation

(1) Prior to public notice, the applicant shall give written notice, as approved by the division, of stage 1 and stage 2 abatement plans to the following persons:

(a) surface owners of record within one (1) mile of the perimeter of the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded;

(b) the county commission where the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located;

(c) the appropriate city official(s) if the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located or is partially located within city limits or within one (1) mile of the city limits;

(d) those persons, as identified by the director, who have requested notification, who shall be notified by mail;

(e) the New Mexico trustee for natural resources, and any other local, state or federal governmental agency affected, as identified by the director, which shall be notified by certified mail;

(f) the appropriate governor or president of any Indian tribe, pueblo or nation if the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located or is partially located within tribal boundaries oar within one (1) mile of the tribal boundaries, who shall be notified by certified mail;

(g) the distance requirements for notice may be extended by the director is the director determines the proposed abatement plan has the potential to adversely impact public health or the environment at a distance greater than one (1) mile. The director may require additional notice as needed. A copy and proof of such notice will be furnished to the division.

(2) Within fifteen days after the division determines that a stage 1 abatement plan or a stage 2 abatement plan is administratively complete, the responsible person will issue public notice in a form approved by the division in a newspaper of general circulation in the county in which the release occurred, and in a newspaper of general circulation in the state. For the purposes of this paragraph, an administratively complete stage 1 abatement plan is a document that satisfies the requirements of Section 19.15.1.19 NMAC, Subsection E, Paragraph E (3) and an administratively complete stage 2 abatement plan is a document that satisfies the requirements of Section 19.15.1.19 NMAC, Subsection E, Paragraph (4), Subparagraph (b). The public notice shall include, as approved in advance by the director: (a) name and address of the responsible person;

(b) location of the proposed abatement;

(c) brief description of the source extent, and estimated volume of release, whether the release occurred into the vadose zone, ground water or surface water; and a description of the proposed stage 1 or stage 2 abatement plan;

(d) brief description of the procedures followed by the director in making a final determination;

(e) statement that a copy of the abatement plan can be viewed by the public at the division's main office or at the division's district office for the area in which the release occurred, and a statement describing how the abatement plan can be accessed by the public electronically from a division-maintained site if such access is available;

(f) statement that the following comments and requests will be accepted for consideration if received by the director within thirty (30) days after the date of publication of the public notice:

(i) written comments on the abatement plan; and

(ii) for a stage 2 abatement plan, written requests for a public hearing that include reasons why a hearing should be held.

(g) address and phone number at which interested persons may obtain further information.

AHC provided proof of publication and proof of written notice to the NMOCD on August 6, 2001.

#### 3.0 SUMMARY OF STAGE 1 ABATEMENT ACTIVITIES

Stage 1 Abatement activities began on July 26, 2001 with the drilling of four (4) soil borings that were to be completed as monitor wells. By agreement between AHC and Meridian Alliance Group, L.L.C., White Drilling Company positioned the soil borings surrounding the existing excavation.

#### 3.1 Soils Investigation

For each of the four (4) borings soil samples were collected at five (5) foot intervals to maximum depths of forty (40) feet. The samples were field screened by an Organic Vapor Monitor (OVM) to determine which samples would be submitted for laboratory analysis. Millennium Laboratories, Inc. analyzed the samples for BTEX (Method SW-846 5030B/8021B), Chloride (Method EPA 300.0), and TPH (Method 418.1).

All samples directly above the groundwater interface (26 to 29 ft bgs) were submitted. In addition, for each of the borings, the sample with the highest OVM reading was also submitted. In soil borings 2 and 4, the samples in the 26 to 29 ft bgs also had the highest OVM readings. In samples 1 and 3, the highest OVM readings were in the 5 to 7 bgs range. Two samples each were submitted for borings 1 and 3, and one each for borings 2 and 4. A total of six (6) samples were turned in to Millennium Laboratories.

#### 3.2 Groundwater Investigation

The four (4) soil borings were completed as monitor wells following drilling activities. Groundwater was located at about 36 ft from the top of casing (TOC), and trended to the southwest at 0.0015 ft/ft.

Meridian personnel sampled each monitor well on July 7, 2001. Lab results revealed 163 mg/L TPH in MW-2. However, BTEX was non-detect for all four monitor wells. On July 24, 2001, groundwater samples were lab tested for chlorides, and all levels were below New Mexico WQCC Standards. The chloride level in MW-1 showed 97.8 mg/L, MW-2 contained 71.7 mg/L, MW-3 revealed 71.5 mg/L, and MW-4 had 73.9 mg/L. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

BBC sampled the monitor wells on July 30, 31, and August 1, 2002 during which time, a well recharge test was also conducted. BTEX was non-detect for all monitor wells. Chloride results for MW-1, MW-2, MW-3, and MW-4 were 132 mg/L, 88 mg/L, 108 mg/L, and 100 mg/L respectively. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

BBC also sampled groundwater on April 26 and August 17, 2005. Laboratory analyses showed that chloride levels in MW-1 remained at 112 mg/L from April to August. MW-2 levels from April to August remained at 92 mg/L. MW-3 chloride levels decreased from 380 mg/L in April to 208 mg/L in August, and MW-4 levels decreased from 108 mg/L in April to 96 mg/L in August. BTEX remained non-detect. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

#### 4.0 CORRESPONDENCE

On October 18, 2001, the AHC sent a proposal to close the excavation by lining the bottom with three (3) feet of red bed clay, backfilling to within three (3) feet with excavated soil blended with clean soil to less that 5000 ppm TPH and 50 ppm BTEX, and then backfilling the remaining three (3) feet with clean soil.

The NMOCD replied on January 31, 2002 stating that further information is required before evaluating Stage 2 of the abatement. The OCD required soil samples in the 29 to 36 ft bgs in the area of the release site, soil samples from the walls and bottom of the excavation, groundwater samples from under the excavated site, groundwater samples from down gradient of the site, and descriptions of how the monitoring wells were developed.

AHC sent notification to the NMOCD on February 27, 2002 that more accurate depth to groundwater had yet to be determined as there was some question

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about the actual static groundwater level, another monitor well would be installed to obtain a down gradient water sample, and AHC proposed not to sample the bottom or walls of the excavation due to safety concerns.

Following a meeting between the NMOCD and AHC, a memo was sent to NMOCD by AHC summarizing the meeting items of discussion. AHC would have the fluid levels in the existing monitor wells confirmed, monitor well recharge rates would be measured to determine whether the groundwater is "protected groundwater" per Rule 19, and the spoil piles would be sampled at two (2) to three (3) feet within the piles and analyzed for TPH and BTEX.

The NMOCD sent notification on April 19, 2002 stating that bottom or wall samples as well as groundwater samples beneath the excavation should be submitted if at all feasible in a safe manner.

On July 30, July 31, and August 1, 2002, BBC International, Inc. conducted groundwater sampling, spoils pile sampling, and performed a well recharge test. Results were submitted to the NMOCD on September 30, 2002.

On May 14, 2003 the NMOCD stated that the BBC results showed the groundwater to be "protectable". If the absence of BTEX impact on groundwater could be shown, the OCD would withdraw the AP process and approve a remediation plan.

AHC submitted a work plan for closure of the NMGSAU Battery No. 94 on September 24, 2004 to the NMOCD. If the NMOCD determined that the operation was to remain under Rule 19, the work plan would be considered a Stage 2 Abatement Plan.

AHC proposed to first prepare the site for safe re-entry of the excavation which may require one or two of the monitor wells to be plugged. Any remaining hydrocarbon contamination exceeding NMOCD threshold concentrations would be removed from the walls and bottom by analyzing composite samples for TPH and BTEX concentrations. The bottom of the excavation would then be lined with two (2) feet of compacted clay and backfilled to ground level with material remediated to acceptable concentrations.

To date, there has been no decision or correspondence from the NMOCD concerning the work plan submitted on September 24, 2004.

#### 5.0 STAGE 2 ABATEMENT PLAN PROPOSAL

AHC proposes to close the NMGSAU Battery 94 site by first preparing the current excavation for safe re-entry of equipment. Once the site is deemed safe to operate in, the excavation will be backfilled with the soil that had been excavated and stockpiled on site.

A significant amount of the soil stockpiled has not been impacted by hydrocarbons as this was over-burden soil that was removed in order to excavate the impacted soil. This soil will first be placed into the bottom of the excavation since it has not been impacted. After this soil has been placed back into the excavation, a clay liner of one (1) foot thickness will be placed into the excavation and compacted to the appropriate Proctor compaction standards. This liner will serve as an impermeable barrier to protect the existing groundwater.

Prior to the remaining soil being placed in the excavation, it will be blended on site with other soil not to exceed the threshold levels of 2000 ppm of Total Petroleum Hydrocarbons (TPH) and 1000 ppm Chloride. Periodic composite samples will be taken of the blended soil for confirmation that the soil is within these thresholds. Upon laboratory confirmation, the blended soil will be placed into the excavation until a depth of three (3) feet below ground surface (bgs) is achieved. In the event that a portion of the impacted soil cannot meet the thresholds, this soil will be disposed of at an NMOCD-approved disposal facility and clean soil will be brought in to replace it.

After reaching the three (3) foot bgs level, a 20 mil poly liner will be placed into the excavation. The poly liner will cover approximately three (3) feet beyond the edges of the area of impact. This liner will serve as an additional impermeable barrier to protect the existing groundwater. The remaining excavation will then be backfilled with clean soil and leveled to grade.

Upon completion of the backfilling activities, AHC will request closure of the site. In the meantime, AHC will continue to monitor the groundwater at the site until an appropriate amount of consecutive quarters of non-detect laboratory results is reached.

#### 6.0 STAGE 2 ABATEMENT PLAN PROCEDURES

Once NMOCD grants administrative completion to the Stage 2 Abatement Plan, AHC, in accordance with Rule 19, will prepare a public notice approved by the NMOCD and will issue the notice in writing to all surface owners within a one mile radius of the site, the list of persons provided by NMOCD that have requested notification, and publish the notice in both local and state papers.

Upon receiving notification from the NMOCD that the Stage 2 Abatement Plan is approved, AHC will commence site activities according to the Stage 2 Abatement Plan.

#### 7.0 STAGE 2 ABATEMENT PLAN SITE CLOSURE ACTIVITIES

On January 17, 2006 NMOCD approved the Stage 2 Abatement Plan. The following details the site activities in accordance with the approval conditions. A copy of the approval letter can be reviewed in **Appendix IV**.

The backfill soil stockpiled near the south side of the pit was blended and then sampled to determine concentrations of total petroleum hydrocarbons (TPH) and chloride. Laboratory results ranged from non-detect to 105 parts per million (ppm) TPH and chloride ranged from 48 ppm to 192 ppm. Soil laboratory analytical data can be found in **Appendix VI** and a summary table of soil laboratory analytical data can be found in **Table 1**.

On March 24, 2006, Hess began site closure activities by preparing the current excavation for safe re-entry. Soil from the stockpile was used to build a ramp on the west side of the excavation and some of the standing water in the bottom of the pit was drained. Stockpile soil was pushed down the ramp into the pit bottom to level the floor. Site photographs can be viewed in **Appendix I**.

On April 11, 2006, a one-foot thick clay liner was installed on the floor of the pit and exceeded the Proctor compaction standard. Proctor compaction test results can be found in **Appendix V**.

Hess backfilled the excavation with soil from the stockpile in two (2) foot vertical increments. After each two (2) foot lift was installed, two composite samples were collected from the floor and submitted for laboratory analyses. A fixed sample pattern was followed in the collection of lift samples. See **Appendix II** for a sampling diagram depicting the placement of sample points within the excavation for each sample event. The excavation was divided into north and south halves. For each half, five (5) points were sampled and mixed for a representative composite. Lift samples were collected on the following dates in 2006: May 5, May 12, May 22, May 26, June 2, June 14, June 22, July 14, July 31, and August 17. Results for TPH ranged from non-detect to 189 ppm. Chloride ranged from 48 ppm to 338 ppm. Soil lifts were placed until a depth of three (3) feet below ground surface (bgs) was reached.

On September 1, 2006, a 20-mil poly liner was installed at three (3) feet bgs and extended at least three feet beyond the area of impact.

The remaining space was backfilled with clean soil and the site was leveled to grade. Backfill and contour of the site was completed on September 14, 2006.

#### 8.0 STAGE 2 ABATEMENT PLAN GROUNDWATER ACTIVITIES

In addition to the groundwater sampling events described in Section 3.2 of this report, BBC also sampled groundwater on December 30, 2005. Laboratory

analyses showed that chloride in MW-1 was 108 mg/L. MW-2 chloride was 104 mg/L. MW-3 chloride was 134 mg/L and MW-4 chloride was 136 mg/L. BTEX remained non-detect in all samples.

The groundwater was sampled again on March 21, 2006. Laboratory analyses showed that chloride in MW-1 was still 108 mg/L. MW-2 chloride was 92 mg/L. MW-3 chloride was 180 mg/L and MW-4 chloride was 184 mg/L. BTEX remained non-detect in all samples.

Another sampling event occurred on June 29, 2006. Laboratory analyses showed that chloride in MW-1 was 108 mg/L. MW-2 chloride was 116 mg/L. MW-3 chloride was 208 mg/L and MW-4 chloride was 204 mg/L. BTEX remained non-detect in all samples.

Groundwater was additionally sampled on September 25, 2006. Laboratory analyses showed that chloride in MW-1 was 140 mg/L. MW-2 chloride was 152 mg/L. MW-3 chloride was 260 mg/L and MW-4 chloride was 280 mg/L. BTEX remained non-detect in all samples.

Upon review of the groundwater and soil lift laboratory data, the evidence points to the C & C Landfarm as the potential source of the chloride present in the groundwater. The landfarm had accepted chloride impacted soil for many years prior to recent NMOCD rule changes barring landfarms from accepting high concentrations of chloride impacted soils. The September groundwater sampling event shows increased levels of chloride in all of the monitor wells, including MW-3 and the up gradient MW-2 which are located within the boundary of the landfarm. The soil lift data shows chloride was not present in high concentrations, therefore it appears that the excavated soil was not a contributing factor. Since the excavation was open to the groundwater for several years and chloride concentrations in the groundwater were consistent, the former battery does not appear to be the chloride source. The chloride concentration in the groundwater increased between the second and third quarters of 2006 after the Monument area received a significant amount of rainfall. This rainfall event occurred after the excavation had been lined with both a compacted clay and 20mil plastic liner.

Based on this evidence, Hess respectfully requests that the four groundwater monitoring wells be plugged and abandoned. Groundwater laboratory analytical data can be viewed in **Appendix VII**. The laboratory data is summarized in a table located in **Table 2**. Site and gradient maps are available in **Appendix III**.

#### 9.0 CONCLUSION

Hess Corporation respectfully requests the NMOCD to grant final closure for the NMGSAU Battery #94 Abatement Plan (AP-19). Hess has complied with and

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exceeded the soil closure requirements as set forth in the approval of the Stage 2 Abatement Plan granted on January 17, 2006.

Hess also requests that all four (4) groundwater monitoring wells be permanently plugged and abandoned according to NMOCD requirements.

#### 10.0 REFERENCES

Amerada Hess Corporation, Cooper Lease Site Assessment Report (Site Assessment Investigation); Meridian Alliance Group, L.L.C.; August 10, 2001

Amerada Hess NMGSAU Battery 94, Sampling Event And Monitoring Well Recharge Test; BBC International Inc.; September 12, 2002

New Mexico Oil Conservation Division Rule 19 Paragraph G Sections 1 and 2

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# APPENDIX I

# Site Photographs

## NMGSAU Battery #94 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.



## Backfilling and Preparation of Excavation







## Backfilling and Preparation of Excavation







## Installation of Clay Liner







#### Installation of Blended Soil Lifts







## Installation of 20 mil Plastic Liner







## Final Backfilling and Contouring of Site







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## **Sampling Diagram**

## NMGSAU Battery #94

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.

# HESS CORPORATION NMGSAU BATTERY #94

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# **APPENDIX III**

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## **Site and Gradient Maps**

# NMGSAU Battery #94

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.









# APPENDIX IV

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## **Approval Letter**

## NMGSAU Battery #94 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor

Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

January 17, 2006

Mr. Samuel W. Small, P.E. Environmental Coordinator Amerada Hess Corp. P.O. Box 840 Seminole, TX 79360

RE: NMGSAU Battery 94 Section 3, Township 20 South, Range 36 East Lea County New Mexico Stage 2 Abatement Plan (AP-19) November 2005

Dear Mr. Small:

The New Mexico Oil Conservation Division has reviewed the proposed abatement plan shown above. This plan is hereby approved with the following conditions and understandings:

- 1. Amerada Hess Corp. (AHC) will prepare the current excavation for safe re-entry of equipment. Once the site is deemed safe, the excavation will be backfilled with the soil that had been excavated and stockpiled on site.
- 2. Stockpiled soil that had been un-impacted by the hydrocarbon release will be placed in the excavation first.
- 3. Upon this layer of un-impacted soil, AHC will install a one-foot thick clay barrier, which shall be compacted to 95% Proctor compaction standard.
- 4. Remaining stockpiled (impacted) soil will be blended on site such that the resulting blended soil does not exceed 2,000 ppm total petroleum hydrocarbons (TPH) and 1,000 ppm chloride. Composite samples shall be taken for confirmation that the blended soils are within these thresholds. This blended soil will then be placed in the excavation on top of the clay barrier, and up to a depth of three feet below ground surface.
- 5. Stockpiled soils exceeding the thresholds in #4 above will be disposed of at an NMOCD-approved disposal facility.
- 6. At the resulting depth of three feet below ground surface AHC will install a 20-mil poly liner. Such poly liner shall extend three feet beyond the edges of the area of impact.
- 7. AHC will then backfill to ground surface with clean soil and the site will be leveled to grade.
- 8. AHC will continue groundwater monitoring at the site in the remaining monitor wells until eight consecutive quarters are reached in which New Mexico Water Quality Control Commission groundwater standards are not exceeded. Annual reports shall be submitted to the NMOCD Santa Fe office summarizing such activities.
- 9. Upon completion of the required activities, AHC will submit to the NMOCD Santa Fe office a report summarizing the activities and including all laboratory analyses results.

Amerada Hess Corp. AP-19 Approval January 17, 2006 Page 2 of 2

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NMOCD approval of this abatement plan does not relieve AHC of liability should its operations at this site prove to have been harmful to fresh water, public health, or the environment. Nor does it relieve AHC of its responsibility to comply with the rules and regulations of any other governmental entity.

If you have any questions, contact Ed Martin at (505) 476-3492 or ed.martin@state.nm.us

NEW-MEXICO OIL CONSERVATION DIVISION

Roger C. Anderson Environmental Bureau Chief

Copy: NMOCD, Hobbs BBC International, Inc.

# APPENDIX V

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## **Proctor Compaction Test**

NMGSAU Battery #94 Monument, New Mexico

> Prepared for: Hess Corporation Seminole, Texas

> > January, 2007

Prepared by: BBC International, Inc.

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N. Marth	Test #		LOCATION:	Depth of Probe:		Elevation:		······································
1.4.1	DC Contact CPM	MC Moisture CPM	Air Gap CPM	WD Bulk Density PCF	M Moisture PCF	DD Dry Density PCF	% Moisture	% Density
	Avg. Dry Density:	· · · · · ·	4.0.00.0	% M % Moisture (avg.)		% Comp. % Lab Dens (avg.)		
<u>العليه</u>	Required:	959	-			Tech Time		
74. Y.C	Copies:	1-00				If testing by time Tested By:	RF.	

# APPENDIX VI

## **Soil Laboratory Analytical Results**

Contraction of the

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NMGSAU Battery #94 Monument, New Mexico

> Prepared for: Hess Corporation Seminole, Texas

> > January, 2007

Prepared by: BBC International, Inc.

#### Table 1. Soil Laboratory Analytical Results Summary

		Sample	1	2	3	4
Analyte	Method	Date	Sample #: H10957-1	Sample #: H10957-2	Sample #: H10957-3	Sample #: H10957-4
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	03/30/06	<0.002	<0.002	< 0.002	<0.002
Toluene	S 8021B	03/30/06	<0.002	<0.002	<0.002	< 0.002
Ethylbenzene	S 8021B	03/30/06	<0.002	< 0.002	<0.002	<0.002
Total Xylenes	S 8021B	03/30/06	<0.006	<0.006	<0.006	<0.006
Chloride	4500-CI <sup>°</sup> B	03/30/06	160	96	128	176
GRO	SW-846 8015 M	03/30/06	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	03/30/06	178	72	287	<50.0

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

		Sample	N Pile SW	N Pile SE	S Pile SW	S Pile S	S Pile SE	S Pile E	S Pile NE
Analyte	Method	Date	Sample #: H11054-1	Sample #: H11054-2	Sample #: H11054-3	Sample #: H11054-4	Sample #: H11054-5	Sample #: H11054-6	Sample #: H11054-7
		04/24/06	mg/Kg	mg/Kg	mg/Kg	mg/Kg 💸	mg/Kg	ing/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	04/24/06	192	160	128	144	96	48	48
GRO	SW-846 8015 M	04/24/06	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	04/24/06	<10.0	<10.0	40.2	55.2	58.0	91.6	105

		Sample	S Pile N	S Pile NW	S Pile W	S Pile NW	S Pile NE
Analyte	Method	Date	Sample #: H11054-8	Sample #: H11054-9	Sample #: H11054-10	Sample #: H11054-11	Sample #: H11054-12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	4500-CI'B	04/24/06	144	80	80	128	64
GRO	SW-846 8015 M	04/24/06	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	04/24/06	59.9	52.4	<10.0	<10.0	<10.0

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

		Sample	South Composite	North Composite
Analyte	Method	Date	Sample #: H11094-1	Sample #: H11094-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	05/05/06	*208	*160
GRO	SW-846 8015 M	05/05/06	<10.0	<10.0
DRO	SW-846 8015 M	05/05/06	<10.0	<10.0

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

		Sample	South Composite	North Composite
Analyte	Method	Date	Sample #: H11111-1	Sample #: H11111-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	05/12/06	*112	*144
GRO	SW-846 8015 M	05/12/06	<10.0	<10.0
DRO	SW-846 8015 M	05/12/06	18.0	<10.0

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

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		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11146-1	Sample #: H11146-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	05/22/06	*336	*288
GRO	SW-846 8015 M	05/22/06	<10.0	<10.0
DRO	SW-846 8015 M	05/22/06	28.3	<10.0

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

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		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11167-1	Sample #: H11167-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	05/26/06	*208	*176
GRO	SW-846 8015 M	05/26/06	<10.0	<10.0
DRO	SW-846 8015 M	05/26/06	189	135

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

		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11181-1	Sample #: H11181-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	06/02/06	*160	*144
GRO	SW-846 8015 M	06/02/06	<10.0	<10.0
DRO	SW-846 8015 M	06/02/06	<10.0	34.2

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

		Sample	South Composite	North Composite
Analyte	Method	Date	Sample #: H11230-1	Sample #: H11230-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	06/14/06	*208	*175
GRO	SW-846 8015 M	06/14/06	<10.0	<10.0
DRO	SW-846 8015 M	06/14/06	22.5	25.4

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

		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11269-1	Sample #: H11269-2
			mg/Kg	.mg/Kg
Chloride	4500-CI <sup>-</sup> B	06/22/06	*160	*192
GRO	SW-846 8015 M	06/22/06	<10.0	<10.0
DRO	SW-846 8015 M	06/22/06	11.6	19.2

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

		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11341-1	Sample #: H11341-2
			🦳 mg/Kg 👾	mg/Kg
Chloride	4500-CI <sup>-</sup> B	07/14/06	*80	*48
GRO	SW-846 8015 M	07/14/06	<10.0	<10.0
DRO	SW-846 8015 M	07/14/06	39.3	<10.0

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

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		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11403-1	Sample #: H11403-2
			mg/Kg	mg/Kg
Chloride	4500-CI'B	07/31/07	*64	*96
GRO	SW-846 8015 M	07/31/07	<10.0	<10.0
DRO	SW-846 8015 M	07/31/07	53.7	37.5

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

		Sample	South Composite	North Composite
Analyte	Method	Date	Sample #: H11454-1	Sample #: H11454-2
			mg/Kg	mg/Kg
Chloride	4500-CI <sup>-</sup> B	08/17/06	*112	*112
GRO	SW-846 8015 M	08/17/06	<10.0	<10.0
DRO	SW-846 8015 M	08/17/06	36.6	56.0

\* Note: Analysis perormed on a 1:4 w:v aqueous extract
# APPENDIX VII

### **Groundwater Laboratory Analytical Results**

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### NMGSAU Battery #94

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.

### Amerada Hess NMGSAU Battery 94 -Laboratory Groundwater Analyticals Summary Table

### July 7, 2001

ouly 1, 2001										
		Sample	MW #1	MW #2	MW #3	MW #4				
Analyte	Method	Date								
			mg/L	mg/L	mg/L	mg/L				
Benzene	S 8021B	07/24/01	<0.002	<0.002	<0.002	<0.002				
Toluene	S 8021B	07/24/01	<0.005	<0.005	<0.005	<0.005				
Ethylbenzene	S 8021B	07/24/01	< 0.005	<0.005	<0.005	<0.005				
Xylene	S 8021B	07/24/01	<0.005	<0.005	<0.005	<0.005				
MtBE	S 8021B	07/24/01	<0.010	<0.010	<0.010	<0.010				
ТРН	418.1	07/24/01	<0.010	<0.010	<0.010	<0.010				

July 24, 2001

		Sample	- MW #1	MW #2	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-CI <sup>-</sup> B	07/24/01	97.8	71.7	71.5	73.9

July 30, 2002										
		Sample	MW #4	MW #1	MW #3	MW #2				
Analyte	Method	Date								
			mg/Ľ	💡 mg/L	mg/L	mg/L				
Chloride	4500-CI <sup>-</sup> B	07/30/05	100	132	108	88				
Benzene	S 8021B	07/30/05	<0.002	<0.002	0.002	<0.002				
Toluene	S 8021B	07/30/05	<0.002	<0.002	<0.002	<0.002				
Ethylbenzene	S 8021B	07/30/05	<0.002	<0.002	<0.002	<0.002				
Xylene	S 8021B	07/30/05	<0.006	<0.006	<0.006	<0.006				

### July 30, 2002

April 26, 2005

		Sample	MW #1	MW #4	.MW #3	MW #2
Analyte	Method	Date				
			mg/L	mg/L	s mg/L	mg/L
Chloride	4500-CI <sup>°</sup> B	04/26/05	112	108	380	92
Benzene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	04/26/05	<0.006	<0.006	<0.006	<0.006

### August 17, 2005

		Sample	MW #2	MW #4	MW #1	MW #3
Analyte	Method	Date				
			mg/L	mg/L 🛼	🔄 mg/L	mg/L
Chloride	4500-CI <sup>-</sup> B	08/17/05	92	96	112	208
Benzene	S 8021B	08/17/05	<0.002	< 0.002	<0.002	<0.002
Toluene	S 8021B	08/17/05	< 0.002	< 0.002	<0.002	<0.002
Ethylbenzene	S 8021B	08/17/05	< 0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	08/17/05	<0.006	<0.006	< 0.006	<0.006

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### Amerada Hess NMGSAU Battery 94 -Laboratory Groundwater Analyticals Summary Table

Beechiber 00, 2000											
		Sample	MW #2	MW #4	MW, #1	MW #3					
Analyte	Method Date										
			🧶 mg/L	mg/L	mg/L	mg/L					
Chloride	4500-CI <sup>-</sup> B	12/30/05	104	136	108	134					
Benzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002					
Toluene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002					
Ethylbenzene	S 8021B	12/30/05	<0.002	< 0.002	<0.002	<0.002					
Xylene	S 8021B	12/30/05	<0.006	<0.006	<0.006	<0.006					

### December 30, 2005

### March 21, 2006

		Sample	MW #2	MW #1	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-CI <sup>-</sup> B	12/30/05	92	108	180	184
Benzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	12/30/05	<0.002	< 0.002	<0.002	< 0.002
Ethylbenzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	12/30/05	< 0.006	<0.006	<0.006	< 0.006

### June 29, 2006

		Sample	MW #2	MW #1	MW #3	1 MW #4
Analyte	Method	Date			_	
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-CI <sup>°</sup> B	06/29/06	116	108	208	204
Benzene	S 8021B	06/29/06	<0.002	< 0.002	<0.002	<0.002
Toluene	S 8021B	06/29/06	<0.002	< 0.002	< 0.002	<0.002
Ethylbenzene	S 8021B	06/29/06	<0.002	<0.002	< 0.002	<0.002
Xylene	S 8021B	06/29/06	<0.006	<0.006	< 0.006	<0.006

### September 25, 2006

		Sample	MW #2	MW #1	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	. mg/L	🧼 mg/L
Chloride	4500-CI'B	09/25/06	152	140	260	280
Benzene	S 8021B	09/25/06	<0.002	<0.002	< 0.002	<0.002
Toluene	S 8021B	09/25/06	<0.002	<0.002	< 0.002	<0.002
Ethylbenzene	S 8021B	09/25/06	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	09/25/06	<0.006	<0.006	<0.006	<0.006

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# TABLE 1

## **Soil Laboratory Analytical Results Summary**

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## NMGSAU Battery #94

Monument, New Mexico

Prepared for: 'Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.



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

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

ANALYTICAL RESULTS FOR AMARADA HESS ATTN: RANDY BARNES 401 W. STANOLIND HOBBS, NM 88240 FAX TO:

Receiving Date: 03/30/06 Reporting Date: 04/03/06 Project Number: NOT GIVEN Project Name: A. HESS Project Location: #94 TANK BATT. SOUTH STOCKPILE

LAB NO.

SAMPLE ID

Analysis Date: 03/31/06 Sampling Date: 03/30/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: AB

CI\_

(mg/kg)

H10957-1	1	160
H10957-2	2	96
H10957-3	3	128
H10957-4	4	176
	,	
Quality Cor	trol	500
Quality Cor True Value		500
· · · · · · · · · · · · · · · · · · ·	QC	

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

Moreno

04-04-06 Date

#### H10957

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



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

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

ANALYTICAL RESULTS FOR AMERADA HESS ATTN: RANDY BARNES 401 WEST STANOLIND HOBBS, NM 88240

Receiving Date: 3/30/06 Project Owner: NONE GIVEN

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- Project Number: NONE GIVEN
- Project Name: A. HESS
- Designed Lagrations #04 TAL
- Project Location: #94 TANK BATTERY SOUTH STOCKPILE
- Reporting Date: 4/4/06

Sampling Dates: 3/30/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: JC

	LAB ID	SAMPLE ID	GRO	DRO	TOTAL			ETHYL-	TOTAL
10			C6-C12	>C12-C28	TPH	BENZENE	TOLUENE	BENZENE	XYLENES
14			(mg/kg)						
	H10957-1	1	<50.0	178	178	<0.002	<0.002	<0.002	<0.006
H., 6	H10957-2	2	<50.0	72	72	<0.002	<0.002	<0.002	<0.006
	H10957-3	3	<50.0	287	287	<0.002	<0.002	<0.002	<0.006
	H10957-4	4	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
2									
19 24	Extraction D	ate:	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
	Analysis Da	te:	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
2	Method Blar	1k	<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
2.51944	LCS				1	0.105	0.100	0.100	0.301
	True Value I	LCS				0.100	0.100	0.100	0.300
	LCS % Rec	overy				105%	100%	100%	100.3%
	Matrix Spike	e (MS)			478				
	Matrix Spike	e Dup (MSD)			491				
-	True Value Matrix Spike				500				
	MS % Reco	very			95.5%				
	MSD % Red	covery		-	98.3%				
	Matrix Spike	e RPD			2.9%	7.4%	8.8%	7.0%	4.6%
	FLAGS:								

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	ARDINAL	
2111 Reachwood, Abilene, TX 79603	ARDINAL LABORATORIES, INC.	
5		

11 East Marland, Hobbs, NM 88240

The above this is a state of the second seco	Company Name:	America Hess					State 1 C			12		
E     DLU     State:     ZIp:     Ann:     E     DLU       397. 7874     Fax #:     Piget Owner:     Clip:     Ann:     B7///     Dypet       4/b.bb/s     Piget Owner:     Piget Owner:     Clip:     Ann:     B7///     Dypet       4/b.bb/s     Piget Owner:     Suite:     Clip:     Ann:     B7///     Dypet       4/b.bb/s     Piget Owner:     Suite:     Clip:     Address:     AD     Dypet       4/b.bb/s     Piget Owner:     Suite:     Clip:     Address:     AD     Dypet     Address:     AD       4/b.bb/s     Suite:     Suite:     Clip:     Address:     Addres:     Address:     Add	Project Manager:					7.0, 9	KUUU			-		
Mubble   State:   ZIp:   Attr:   B1//   L/L/22     391-78/H   Fax #:   Project Owner:   City:   City:   City:     4. H94   Tabul Batt   Sample I.D.   Sale:   N. M Zip:   Sale:   Attr:     7. Reid   Sample I.D.   Sample I.D.   Git/L L/L   Sale:   N. M Zip:   Sale:   Attr:   Sale:   Attr:   Sale:   Attr:   House #:   Sale:   Sale:   Attr:   House #:   Sale:   Sale:   Attr:   House #:   Sale:   Sa	Address:					Company:						
Sq. 7.7.8/H     Fax #:     Address:     HD ILD. Shaudb Live       H:HH     Tault Bart.     South Statut     Statut     Statut       H:HH     Tault Bart.     South Statut     Statut     Statut     Statut       In Rest     Tault Bart.     South Statut	City:		ate:	Zip:		Attn:	11 4	IBN				
A. HCS   Project Owner:   City:   Hcbb/s     H'H'H'   The L'   Sate:   N. H'ZIP:   Sate:     Ti Reid   Sample I.D.   Sample I.D.   Fax B:   SAT - 75'H     Sample I.D.   Sample I.D.   Fax B:   SAT - 75'H     Sample I.D.   Sample I.D.   Fax B:   SAT - 75'H     Sample I.D.   Box R:   Sample I.D.   Fax B:     Sample I.D.   Box R:   Sample I.D.   Box R:     Sample I.D.   Box R:   IIIIE   DATE   IIIIE     Sample I.D.   Box R:   IIIIE   DATE   IIIIE     Sample I.D.   Box R:   IIIIIE   IIIIIE   IIIIE     Sample I.D.   Box R:   IIIIIE   IIIIIE   IIIIIE     Sample I.D.   IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Phone #:	4181	× *:			Address:	E.	Frandolind				
A. McSS   State:   M. III Zip:   State:   M. III Zip:   State:     HPH   Torret   Sample I.D.   Fact:   Fact:   Fact:   Sample I.D.     Sample I.D.   Sample I.D.   GGRAAD TERR   PRESERV.   Sample I.D.     Constant Sample I.D.   GGRAAD TERR   IIIIE   DATE   TIME     Constant Sample I.D.   GGRAAD TERR   IIIIE   DATE   TIME     Constant Sample I.D.   GGRAAD TERR   IIIIIE   IIIIE   IIIIE     Constant Sample I.D.   GGRAAD TERR   IIIIIE   IIIIIE   IIIIIE     Constant Sample I.D.   GGRAD TERR   IIIIIE   IIIIIIE	Project #:		Ject Owner:			city:	Hobbs					
HIPH TAULA BARK. South Stockly Lee Phone F:   397 - 75 HJ     Tr Reit   Fax F:   Fax F:     Sample I.D.   Fax F:   Fax F:     Sample I.D.   GRAD ON FAIL   Fax Fix     Sample I.D.   Fax Fix   Fax Fix	Project Name:	A. Hess				State: N.	ba	340	·····	Je		
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d Damages. Curdinals liability and clearly seculasive remedy for any claim analog whether based in contract or tort, shall be limited to the amount paid by the client for the store of mogenes and wy other cases what be deemed wated unsee made in whithy and received by Cardinal water 20 days after competion of the approximate of the store of which is therefore the distribution, basives the induction any of its of year competion of the approximate of whether such claims is based upon any of the store stated cases or otherwise.       she claim     Date:     Date:     Phone Result:       Time:     U/U     Phone Result:     Fax Result:       Fine Client One     Time:     U/U     Received By: (Lab Staff)     Phone Result:       Fine Client One     Time:     U/U     Received By:     Condition     Enclient By:												
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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 04/25/06 Reporting Date: 04/26/06 Project Owner: AMERADA HESS Project Name: BATTERY 94 Project Location: MONUMENT, NM Sampling Date: 04/24/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: BC/AB

C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)        04/25/06       <10.0       <10.0       40.2       55.2       58.0       91.6	Cl* (mg/Kg) 04/25/06 192 160 128 144 96 48
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58.0	96
	·····
91.6	48
105	48
59.9	144
52.4	80
<10.0	80
<10.0	128
<10.0	64
744	500
800	500
93.0	100
7.0	2.0
	<10.0 744 800

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

H11054

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of 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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fax written changes to 505	Received By: Uncencloz M ogic Uncencloz Received By: (Lab Staff) Sample Condition CHEC Cool Intery Cool Intery Cool Intery Cool Intery Cool Intery Cool Intery	$\frac{1}{2} \frac{1}{2} \frac{1}$	101 East Marland, H (505) 393-2326 Fax ,
to 505-393-2476.	nes ne le Z Nes ne le Z Meren CHECKED BY: Initials) The	Company: Arner and Arass Attn: Kanaly Barnes Address: Chy: Seminale Phone #: Phone #: Phone #: PRESERV SAMPLING OTHER: Chy: Seminale PRESERV SAMPLING OTHER: Phone #: PRESERV SAMPLING OTHER: Chy: Seminale PRESERV SAMPLING OTHER: Chy: Seminale PRESERV SAMPLING OTHER: Chy: Seminale Chy: Seminale C	łobbs, NM 88240 (505) 993-2476 (505) <b>893-2476</b> (505) <b>893-2476</b>
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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 Owner: AMERADA HESS Project Name: BATTERY #94 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 <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/09/06	05/09/06	05/08/06
H11094-1 SOUTH COMPOSITE	<10.0	<10.0	208
H11094-2 NORTH COMPOSITE	<10.0	<10.0	160
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<sup>-</sup>: Std. Methods 4500-CI<sup>-</sup>B \*Analyses performed on 1:4 w:v aqueous extracts.

st Alacoste

5/10/06 Date

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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: HESS CORPORATION Project Name: BATTERY # 94 Project Location: MONUMENT, NM Sampling Date: 05/12/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/13/06	05/13/06	05/12/06
H11111-1 SOUTH COMPOSITE	<10.0	18.0	112
H11111-2 NORTH COMPOSITE	<10.0	<10.0	144
······································			
Quality Control	767	798	510
True Value QC	800	800	500
% Recovery	95.9	99.7	102
Relative Percent Difference	1.2	2.4	1.8

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

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Larry L. Bailey

5/16/06

Date

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

Receiving Date: 05/23/06 Reporting Date: 05/24/06 Project Owner: HESS CORPORATION Project Name: BATTERY #94 Project Location: MONUMENT, NM Sampling Date: 05/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC/AH

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/23/06	05/23/06	05/24/06
H11146-1 NORTH COMPOSITE	<10.0	28.3	336
H11146-2 SOUTH COMPOSITE	<10.0	<10.0	288
Quality Control	778	763	990
True Value QC	800	800	1000
% Recovery	97.3	95.4	99.0
Relative Percent Difference	3.5	7.5	0.0

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

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Date

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

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

Receiving Date: 05/30/06 Reporting Date: 05/31/06 Project Owner: HESS CORPORATION Project Name: BATTERY 94 Project Location: MONUMENT, NM Sampling Date: 05/26/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	ATE	05/30/06	05/30/06	05/30/06
H11167-1	NORTH COMPOSITE	<10.0	189	208
H11167-2	SOUTH COMPOSITE	<10.0	135	176
Quality Contr	ol	743	782	980
True Value C	9C	800	800	1000
% Recovery		92.9	97.8	98.0
Relative Perce	cent Difference	2.1	2.3	1.0

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

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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: 06/02/06 Reporting Date: 06/05/06 Project Owner: HESS CORPORATION Project Name: BATTERY #94 Project Location: MONUMENT, NM Sampling Date: 06/02/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AB

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	06/05/06	06/05/06	06/05/06
H11181-1 NORTH COMPOSITE	<10.0	<10.0	160
H11181-2 SOUTH COMPOSITE	<10.0	34.2	144
Quality Control	774	777	1000
True Value QC	800	800	1000
% Recovery	96.9	97.2	100
Relative Percent Difference	7.1	4.6	1.0

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

Receiving Date: 06/14/06 Reporting Date: 06/17/06 Project Owner: HESS CORP. Project Name: BATTERY 94 Project Location: MONUMENT, NM Sampling Date: 06/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Ci*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	06/16/06	06/16/06	06/14/06
	·····	00/10/00	00/14/00
H11230-1 SOUTH COMPOSI	TE <10.0	22.5	208
H11230-2 NORTH COMPOSI	TE <10.0	25.4	175
Quality Control	769	785	990
True Value QC	800	800	1000
% Recovery	96.1	98.1	99.0
Relative Percent Difference	5.0	0.4	1.0

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

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ANALYSIS REQUEST		Company Name: BBC International	Company
	(505) 393-2326 Fax (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: 06/23/06 Reporting Date: 06/27/06 Project Owner: HESS CORPORATION Project Name: BATTERY 94 Project Location: MONUMENT, NM Sampling Date: 06/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AB

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	ATE	06/25/06	06/25/06	06/23/06
H11269-1	NORTH COMPOSITE	<10.0	11.6	160
H11269-2	SOUTH COMPOSITE	<10.0	19.2	192
	·			
	······································			
Quality Contr	rol	780	814	980
True Value C	20	800	800	1000
% Recovery		97.6	102	98.0

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

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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: 07/14/06 Reporting Date: 07/18/06 Project Owner: HESS CORP. Project Name: BATTERY 94 Project Location: MONUMENT, NM Sampling Date: 07/14/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/HM

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	07/17/06	07/17/06	07/17/06
H11341-1 NORTH COMPOSITE	<10.0	39.3	80
H11341-2 SOUTH COMPOSITE	<10.0	<10.0	48
	· · · · · · · · · · · · · · · · · · ·		
Quality Control	769	801	1010
True Value QC	800	800	1000
% Recovery	96.1	100	101
Relative Percent Difference	2.1	2.3	1.0

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

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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: 08/01/06 Reporting Date: 08/03/06 Project Owner: HESS CORPORATION Project Name: BATTERY #94 Project Location: MONUMENT, NM Sampling Date: 07/31/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AB

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS DATE		08/03/06	08/03/06	08/01/06
H11403-1	NORTH COMPOSITE	<10.0	53.7	64
H11403-2	SOUTH COMPOSITE	<10.0	37.5	96
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Quality Control		748	756	990
True Value QC		800	800	1000
% Recovery		93.5	94.5	99.0
Relative Per	cent Difference	2.0	0.5	0.0

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

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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: 08/17/06 Reporting Date: 08/21/06 Project Owner: HESS CORP. Project Name: C&C LANDFARM BATTERY #94 Project Location: MONUMENT, NM Sampling Date: 08/17/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AB

		GRO	DRO	
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	DATE	08/18/06	08/18/06	08/18/06
H11454-1	SOUTH COMPOSITE	<10.0	36.6	112
H11454-2	NORTH COMPOSITE	<10.0	56.0	112
Quality Cont	rol	769	739	980
True Value (	QC	800	800	1000
% Recovery		96.1	92.4	98.0
Relative Per	cent Difference	12	49	2.0

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

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# TABLE 2

## **Groundwater Laboratory Analytical Results Summary**

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### NMGSAU Battery #94

Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

January, 2007

Prepared by: BBC International, Inc.



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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: 04/26/05 Reporting Date: 04/29/05 Project Number: NOT GIVEN Project Name: COOPER LEASE Project Location: MONUMENT, NM Sampling Date: 04/26/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: AH/BC

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					ETHYL	TOTAL
LAB NO.	SAMPLE ID	Cľ	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS		04/26/05	04/27/05	04/27/05	04/27/05	04/27/05
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H9749-1	MW #1	112	<0.002	<0.002	< 0.002	<0.006
H9749-2	MW #4	108	<0.002	<0.002	<0.002	<0.006
H9749-3	MW #3	380	< 0.002	<0.002	< 0.002	<0.006
H9749-4	MW #2	92	< 0.002	< 0.002	<0.002	<0.006
Quality Con	trol	998	0.090	0.089	0.094	0.293
True Value	QC	1000	0.100	0.100	0.100	0.300
% Recovery	/	99.8	89.8	88.7	94.4	97.7
Relative Pe	rcent Difference	0.2	3.2	7.3	2.9	6.1

METODS: CI - Std. Methods 4500-CI B; BTEX - EPA SW-846-8020

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 chent for analyses. All claims, indeding hear 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. If no event shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiniates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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

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

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

Receiving Date: 08/18/05 Reporting Date: 08/19/05 Project Owner: AMERADA HESS Project Name: (BAT. #94), NMGSAU Project Location: MONUMENT, NM Sampling Date: 08/17/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH/BC

					ETHYL	TOTAL
LAB NO. SAM	IPLE ID	Cl	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS DATE:	· <u>, , , , , , , , , , , , , , , , , , ,</u>	08/18/05	08/18/05	08/18/05	08/18/05	08/18/05
H10093-1 MW	#2	92	<0.002	< 0.002	<0.002	<0.006
H10093-2 MW	#4	96	<0.002	< 0.002	<0.002	< 0.006
H10093-3 MW	#1	112	<0.002	<0.002	<0.002	< 0.006
H10093-4 MW	#3	208	< 0.002	<0.002	<0.002	< 0.006
Quality Control		980	0.103	0.090	0.098	0.307
				0.089		
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		98.0	103.0	89.4	98.1	102.0
Relative Percent D	ifference	1.0	7.0	1.7	4.1	3.3

METODS: CI - Std. Methods 4500-CI B; BTEX - EPA SW-846-8020

19/05

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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: 12/30/05 Reporting Date: 01/04/05 Project Number: NOT GIVEN Project Name: (BAT #94) NMGSAU Project Location: MONUMENT, NM Sampling Date: 12/30/05 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH/BC

					ETHYL	TOTAL
LAB NO.	SAMPLE ID	Cl	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS DA	ATE:	12/30/05	01/03/06	01/03/06	01/03/06	01/03/06
H10555-1	MW #2	104	< 0.002	< 0.002	< 0.002	< 0.006
H10555-2	MW #4	136	<0.002	< 0.002	<0.002	<0.006
H10555-3	MW #1	108	< 0.002	< 0.002	<0.002	<0.006
H10555-4	MW #3	134	<0.002	<0.002	<0.002	<0.006
-						
Quality Contro		500	0.092	0.097	0.105	0.317
True Value Q0	C	500	0.100	0.100	0.100	0.300
% Recovery		100	92.4	97.2	105	105.0
Relative Perce	ent Difference	0.0	2.9	1.0	3.4	1.0

METHODS: CI - Std. Methods 4500-CIB; BTEX - EPA SW-846-8020

Date

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chent 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 line applicutios service. 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 line applicutios service. Including those soft constrained and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of line applicutios service. Including the liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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Name:   Ball   Carl (11) 673-7020   (506) 393-2326   Fax (506) 393-2376   Page     Annew:   Ball	State   State   Mail     13   21   10   10:     10   10   10:   10:     10   10   10:   10:     10   10   10:   10:     10   10   10:   10:     10   10   10:   10:     11   10:   10:   10:     12   10:   10:   10:     13   10:   10:   10:     14   10:   10:   10:     10:   10:   10:   10:     11:   10:   10:   10:     12:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10:     10:   10:   10:   10: <td></td> <td></td> <td>12-30</td> <td></td> <td></td> <td></td>			12-30					
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ри нах (196) 673-7020 (506) 393-2326 Fax (506) 393-247.6 <i>Вине: 1022 (102)</i> <i>Вине: 102 (102)</i> <i>Вине: 201 (20)</i> <i>Вине: 200 (20)</i> <i>Ви</i>	Land   Land   Lip:   Bits:   Lip:   Bits:     Balas:   All   Lip:   Bits:   Company:   Lip:     Balas:   All   Lip:   Bits:   Lip:   Lip:     Balas:   Lip:   Bits:   Bits:   Lip:   Lip:     Balas:   Lip:   Bits:   Bits:   Bits:   Lip:     Balas:   Lip:   Bits:   Bits:   Bits:   Bits:     Balas:   Lip:   Lip:   Bits:   Bits:   Bits:     Balas:   Lip:   Lip:   Lip:   Bits:   Bits:     Balas:   Lip:   Lip:   Lip:   Lip:   Lip:     Balas:	Gircle One	Amus Hull	CHECKED BY:					
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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 03/21/06 Reporting Date: 03/24/06 Project Owner: AMERADA HESS Project Name: (BAT #94) NMGSAU Project Location: MONUMENT, NM Analysis Date: 03/21/06 Sampling Date: 03/21/06 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: AB

		CI
LAB NUMBER	SAMPLE ID	(mg/L)
P		
H10913-1	MW #2	92
H10913-2	MW #1	108
H10913-3	MW #3	180
H10913-4	MW #4	184
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent	Difference	0
METHOD: Standar	d Methods	4500-CI'B

S. 2 d'eno

03-27-06

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, implifying those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfiliates 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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ANALYTICAL RESULTS FOR BBC INTERNATIONAL ATTN: CLIFF BRUNSON 1324 WEST MARLAND HOBBS, NM 88240 FAX TO: 505-397-0397

Receiving Date: 3/21/06 Reporting Date: 3/27/06 Project Number: NONE GIVEN Project Name: (BAT #94) NMGSAU Project Location: MONUMENT, NM Sampling Date: 3/21/06 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (μg/L)	TOTAL XYLENES (µg/L)
ANALYSIS DATE		03/24/06	03/24/06	03/24/06	03/24/06
H10913-1	MW #2	<2.00	<2.00	<2.00	<6.00
H10913-2	MW #1	<2.00	<2.00	<2.00	<6.00
H10913-3	MW #3	<2.00	<2.00	<2.00	<6.00
H10913-4	MVV #4	<2.00	<2.00	<2.00	<6.00
Quality Control		97	88.7	89	271
True Value QC		100	100	100	300
% Recovery		97	88.7	89	90.3
Relative Percent	Difference	3.7	5.4	6.1	4.3

METHODS:

- Alter

: EPA

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

Laboratory

47 *DÛ* Date

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	P:O, #: Company: Atto: Atto: Atta: Atta: State: Zlp: Zlp:	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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: 06/30/06 Reporting Date: 07/07/06 Project Number: AMERADA HESS Project Name: (BAT #94) NMSAU Project Location: MONUMENT, NM Sampling Date: 06/29/06 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: HM/BC

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TOTAL

				ETHYL	TOTAL
LAB NO. SAMP	LE ID CI	BENZENE	TOLUENE	BENZENE	XYLENES
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS DATE:	07/07/06	07/06/06	07/06/06	07/06/06	07/06/06
H11309-1 MW #	2 116	< 0.002	<0.002	< 0.002	<0.006
H11309-2 MW #	1 108	< 0.002	<0.002	< 0.002	<0.006
H11309-3 MW #	3	< 0.002	<0.002	<0.002	<0.006
H11309-4 MW #	4 204	< 0.002	<0.002	<0.002	<0.006
Quality Control	960	0.100	0.098	0.098	0.305
True Value QC	1000	0.100	0.100	0.100	0.300
% Recovery	96.0	99.7	98.1	97.7	102
<b>Relative Percent Diff</b>	erence 4.2	4.0	3.6	1.0	1.14

METODS: CI - Std. Methods 4500-CI'B; BTEX - EPA SW-846-8020

Burgess J! A. Cooke, Ph. D.

Date

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

Receiving Date: 09/26/06 Reporting Date: 09/27/06 Project Owner: HESS Project Name: BATTERY #94 Project Location: EUNICE, NEW MEXICO

Sampling Date: 09/25/06 Sample Type: GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: HM/BC

LAB NO.	SAMPLE ID	Cl <sup>-</sup> (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS [	DATE:	09/27/06	09/26/06	09/26/06	09/26/06	09/26/06
H11577-1	MW #2	152	<0.002	<0.002	<0.002	<0.006
H11577-2	MW #1	140	<0.002	<0.002	< 0.002	<0.006
H11577-3	MW #3	260	<0.002	<0.002	<0.002	<0.006
H11577-4	MW #4	280	<0.002	<0.002	<0.002	<0.006
Quality Con	trol	490	0.100	0.103	0.105	0.300
True Value	QC	500	0.100	0.100	0.100	0.300
% Recovery	/	98.0	100	103	105	100
<b>Relative Pe</b>	rcent Difference	0.0	6.1	3.0	8.1	1.1

METODS: Cl' - Std. Methods 4500-Cl'B; BTEX - EPA SW-846-8020

7/27/06

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chent 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 negative shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In negative shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In negative shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In negative services interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

The Receiver	בבצה הזהב וואישר אל הבישה האשר האשר או האשר האשר האשר האשר האשר האשר האשר האשר	$mw \neq q$	$-4 MW # 9 \qquad G I V$		W # / 1       / W/	HUS 11-1 Mar # 6 1 6 2 1			rejer Lossion: Cynice Us of Illuico	Richart E. Richart Orman Hess	5 R (101) R R R (101) 3020	CTV: Hobbs STATE: NM 210: 8924	-anima 1924 w. Marburg	Will Break	no Linnol	יין אין אין אין אין אין אין אין אין אין	
Pax Regult: REMARKS: Arthous	בארו יובאלן אי ציעין לאחו האיך שואלאי לשיויל הסוכים וויונלן. ואז אי אומעו ש אינסעו האון שיווי לאון איז לאון אי איז איז איז איז איז איז איז איז איז איז	VV 9:2506 2:576 V	1 9-25-06 2.56 V	1	25.06 1:51	1:28 V	SDIL CRUDE DIL SLUDGE OTHER : ACID/BASE: ICE / CDDL DTHER :	HATRIX PRESERV SAMPLING	Phona #: 210:		397 Address		pany:			//V(C) 101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476	CHAIN-OF-C
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