3R - 049

### MONITORING REPORTS

### 01/30/2008

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903 Oil Conservation Division Environmental Bureau

January 30, 2008

320049

Mr. Glenn Von Gonten, Hydrologist New Mexico Oil Conservation Division-NMOCD Environmental Bureau 1220 St. Francis Drive Santa Fe, New Mexico 87505

RE: REQUEST FOR PERMANENT CLOSURE BP America Production Company (formerly Amoco Production Co.) Groundwater Monitoring Report State GC J # 1A, Unit F, Sec. 36, T30N, R9W, NMPM San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-49-0

Dear Mr. Von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the State GC J # 1A.

BP has followed its NMOCD approved groundwater management plan and is requesting permanent closure for this site.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted: *Blagg Engineering, Inc.* 

Martin Un

Nelson J. Velez Staff Geologist

Attachment: Groundwater Report (2 copies)

cc: Mr. Brandon Powell, Environmental Geologist, NMOCD District III Office, Aztec, NM Mr. Larry Schlotterback, Environmental Coordinator, BP, Farmington, NM (without lab report)

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**GROUNDWATER REMEDIATION REPORT** 

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STATE GC J #1A (F) SECTION 36, T30N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR: NEW MEXICO OIL CONSERVATION DIVISION 1220 ST. FRANCIS DRIVE SANTA FE, NEW MEXICO 87504

**JANUARY 2008** 

PREPARED BY: BLAGG ENGINEERING, INC.

Consulting Petroleum / Reclamation Services P.O. Box 87 Bloomfield, New Mexico 87413

### BP AMERICA PRODUCTION COMPANY State GC J #1A Se/4 Nw/4, Sec. 36, T30N, R9W

### **Historical Information:**

Discovery of Potential Impacts: Reclamation Procedures:

Monitor Well Installation Dates: Monitor Well Sampling Dates:

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May 1995 - Dehydrator Pit Excavation - May/June 1995 (Soils composted on location, then transferred to local landowner for crop enhancement) Passive Vent System - June 1995 July/August 2006, June 2007 August & October 2006; July & October 2007

A potential groundwater impact due to a historical release at a dehydrator pit was discovered during pit closure work in May, 1995. Impacted soils (7,650 ± cubic yards) were excavated to a depth of approximately 35 feet below ground surface. Groundwater was encountered at the total depth of the excavation. All impacted soils that could be accessed were excavated and composted on site. During backfilling operations with clean soil, a passive vent system was installed to accelerate in-situ soil and groundwater remediation. Water sampled from within the pit excavation found elevated levels of benzene, toluene, ethyl-benzene, and total xylenes (**BTEX**) constituents in excess of New Mexico Water Quality Control Commission (**NMWQCC**) standards.

### Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells following US EPA: SW-846 protocol. After well development, samples were collected with new disposable bailers, placed into laboratory supplied containers with appropriate preservative and stored in an ice chest for express delivery to a qualified laboratory for testing. Analytical testing included BTEX by US EPA Method 8021B and general water chemistry.

Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

### **Groundwater Quality & Flow Direction Information:**

Monitor well sampling and testing has found BTEX constituents to be at non-detectable levels at stated laboratory limits or very low values. The general water chemistry parameters are below NMWQCC standards or statistically equivalent to background levels (utilizing MW #1 as background). Summary laboratory analytical results are included in the tables on the following pages.

Groundwater contour maps of relative water table elevations for all sample events are included (Figures 2 and 5). The general groundwater flow direction has been in a west to southwest direction. The present monitor well placement of MW #4 is positioned in the down-gradient direction from the source area.

### **Summary and Recommendations:**

Potential hydrocarbon impacted soil at the dehydrator pit has been remediated via excavation and passive vent system. With the exception of groundwater samples collected during the soil remediation process, there is no indication of any remaining groundwater impact at the pit location. Analytical testing indicates that all site wells meet NMWQCC standards or are statistically equivalent to background for groundwater. Permanent site closure is recommended. Following approval by the NMOCD, site monitor wells will be abandoned pursuant to the approved BP Ground Water Management Plan.

### BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

### STATE GC J #1A UNIT F, SEC. 36, T30N, R9W

REVISED DATE: October 24, 2007 FILENAME: (J1A-4Q07.WK4) NJV

								BTEX	ppb )		
SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	рН	PRODUCT (ft)	Benzene	Toluene	Ethyl Benzene	Total Xylene
11-Aug-06	MW #1	35.49	40.65	4,864	4,300	7.07		ND	ND	ND	ND
07-Aug-06	MW #2	35.00	41.50	4,380	3,900	7.06		ND	ND	ND	4.1
28-Oct-06		35.09			4,300	7.17		ND	ND	ND	ND
21-Jul-07		34.30			3,400	6.95		ND	ND	ND	ND
10-Oct-07		35.07			3,700	6.87		ND	ND	ND	ND
11-Aug-06	MW #3	34.36	40.93	4,020	4,600	7.01		ND	ND	ND	ND
28-Oct-06		34.39			4,000	6.97		ND	ND	ND	ND
10-Oct-07		34.40			3,900	6.91		ND	ND	ND	ND
21-Jul-07	MW #4	34.38			3,500	6.96		ND	ND	ND	ND
10-Oct-07		35.02			4,000	6.91		ND	ND	ND	ND
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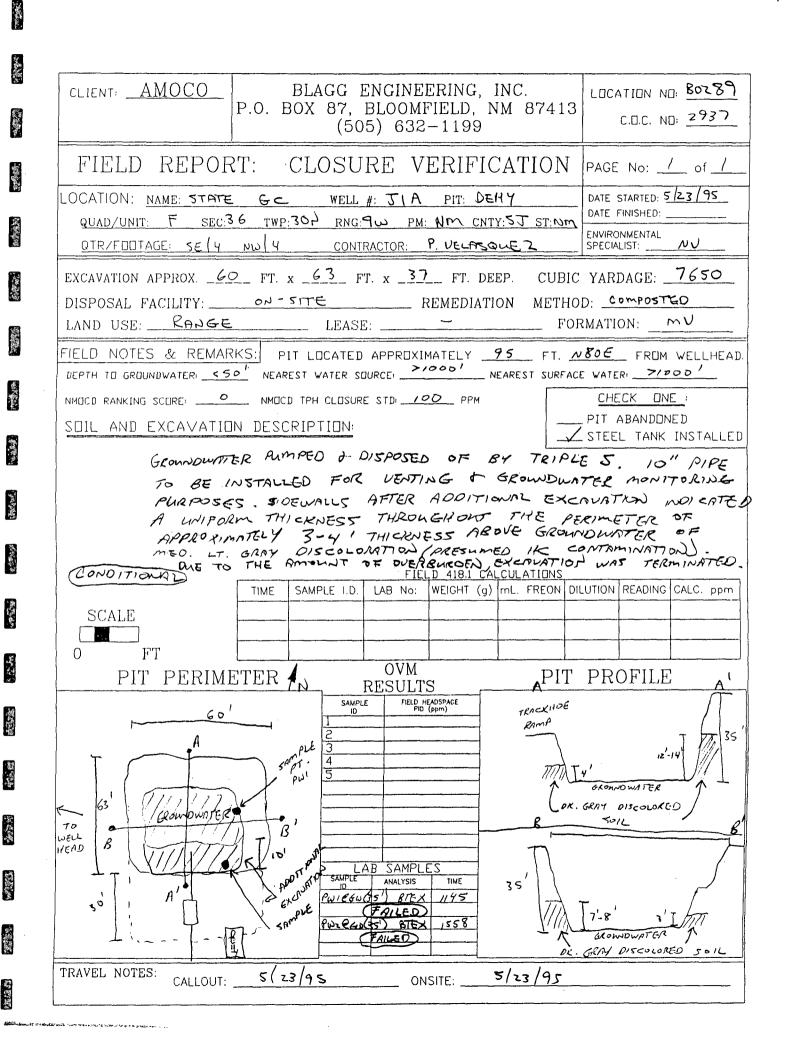
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BP AMERICA PRODUCTION COMPANY

### STATE GC J # 1A

Sample Date : August 7, 2006

	PARAMETERS	MW # 1	MW # 2	MW # 3	Units
- Carl		7.25	7.31	7.10	S. U.
	LAB CONDUCTIVITY @ 25 C	5,640	5,070	5,640	umhos / cm
	TOTAL DISSOLVED SOLIDS @ 180 C	4,864	4,380	4,020	mg / L
	TOTAL DISSOLVED SOLIDS (Calc)	4,720	4,400	4,080	mg / L
	SODIUM ABSORPTION RATIO	3.2	2.9	1.6	ratio
1955	TOTAL ALKALINITY AS CaCO3	250	300	340	mg / L
Series -	TOTAL HARDNESS AS CaCO3	2,970	2,970	2,970	mg / L
	BICARBONATE as HCO3	250	300	340	mg / L
A.L.C.M	CARBONATE AS CO3	< 0.1	< 0.1	< 0.1	mg / L
15	HYDROXIDE AS OH	< 0.1	< 0.1	< 0.1	mg / L
	NITRATE NITROGEN	< 0.01	< 0.01	< 0.01	mg / L
	NITRITE NITROGEN	0.009	< 0.01	< 0.01	mg / L
- 886 986	CHLORIDE	17.3	24.9	13.8	mg / L
ないない	FLUORIDE	2.20	2.05	0.90	mg / L
	PHOSPHATE	< 0.1	< 0.1	2.7	mg / L
and the	SULFATE	3,110	2,850	2,620	mg / L
Ŵ	IRON	< 0.01	< 0.01	0.223	mg / L
No.	CALCIUM	1,044	1,000	1,040	mg / L
	MAGNESIUM	6.59	6.59	6.96	mg / L
<b>1</b> 22	POTASSIUM	4.70	3.95	< 0.1	mg / L
	SODIUM	383	333	189	mg / L
	CATION / ANION DIFFERENCE	0.05	0.05	0.08	
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LAB: (505) 325-5667

### AROMATIC VOLATILE ORGANICS

Address:	P.O. Box	gineering, li			Date: Lab ID: Sample ID: Job No.	5/23/95 2937 6479 2-1000
Project Nar Project Loc	me:	State G		ehy. Pit		2-1000
Sampled b Analyzed b Sample Ma	y:	NV DC <i>Water</i>	Date: Date:	5/23/95 5/23/95	Time:	11:45

#### Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	4,920	0.2
Toluene	11,149	0.2
Ethylbenzene	872	0.2
m,p-Xylene	8,485	0.2
o-Xylene	2,288	0.2
	TOTAL 27,714 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: On G Date: 5/23/95

#### P. O. BOX 2606 • FARMINGTON, NM 87499

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LAB: (505) 325-5667

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No.: 3101 ple No. 6842	Date: COC No.: Sample No. Job No.	3	Attn: Nelson Velez Company: Blagg Engineering Address: P.O. Box 87 City, State: Bloomfield, NM 87413			
		J1A W (35')	n: PW2 @	Project Name: Project Location:		
15:58	6/16/95 Time: 6/19/95	Date Date	NV DC	Sampled by: Analyzed by:		
			DC			

#### Aromatic Volatile Organics

Component	Measured Concentration ug/L	Detection Limit Concentration ug/L
Benzene	65.5	0.2
Toluene	4.0	0.2
Ethylbenzene	2.1	0.2
m,p-Xγlene	340.0	0.2
o-Xylene	207.6	0.2
	тотац 619.3 ug/L	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Date: 6/20/95

#### P. O. BOX 2606 • FARMINGTON, NM 87499

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### L R OURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87505

September 19, 1995

#### HAND DELIVERED

Mr. B.D. Shaw Amoco Production Company 200 Amoco Court Farmington, New Mexico 87401

#### RE: FINAL SAN JUAN BASIN PIT CLOSURE REPORTS

Dear Mr. Shaw:

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The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco Production Company's (Amoco) August 9, 1995 "AMOCO PRODUCTION COMPANY PIT CLOSURE VERIFICATIONS" which was submitted on behalf of Amoco by their consultant Blagg Engineering, Inc. This document contains "PIT REMEDIATION AND CLOSURE REPORTS" for 18 unlined pits in the San Juan Basin of Northwestern New Mexico.

The OCD's review of the above referenced document is addressed in the following sections:

- A. The pit closure/soil remediation activities conducted at the sites listed below are approved as meeting the standards in effect at the time of closure.
  - 1. L.C. Kelly #6 (Blow pit) located in Unit B, Sec. 11, T30N, R12W.
    - 2. Bell Federal GC A#1E (Blow pit) located in Unit E, Sec. 12, T30N, R13W.
    - 3. L.C. Kelly #6A (Separator pit) located in Unit D, Sec. 11, T30N, R12W.
    - A. Pan American Federal C#1E (Blow pit) located in Unit I, Sec. 19, T30N, R12W.
    - 5. Taft GC #1 (Blow pit) located in Unit A, Sec. 14, T30N, R13W.
    - 6. Pan American Federal C#2E (Blow pit) located in Unit D, Sec. 19, T30N, R12W.

OFFICE OF THE SECRETARY + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5950 ADMINISTRATIVE SERVICES DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5955 ENERGY CONSERVATION AND MANAGEMENT DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5950 FORESTRY AND RESOURCES CONSERVATION DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5850 MINING AND MINERALS DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5970 OLL CONSERVATION DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-5970 OLL CONSERVATION DIVISION + P. O. BOX 6429 + SANTA FL, NM 87505-6429 + (505) 827-7913 PARK AND RECREATION DIVISION + P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-7131 PARK AND RECREATION DIVISION + P. O. BOX 6429 - SANTA FL, NM 87505-6429 - (505) 827-7455 Mr. B.D. Shaw September 19, 1995 Page 2

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- B. The soil excavation activities conducted at the sites listed below are satisfactory. However, according to the reports, onsite landfarming and/or composting actions are still continuing at the sites. Therefore, the OCD cannot issue final closure approval for these sites at this time. Please resubmit closure reports for these sites upon completion of the landfarming and/or composting activities. The final reports will include the results of the final soil remediation levels achieved and the disposition of the remediated soils.
  - L.C. Kelly #4 (Blow pit) located in Unit M, Sec. 03, T30N, R12W.
  - L.C. Kelly #4 (Separator pit) located in Unit M, Sec. 03, T30N, R12W.
  - 3. L.C. Kelly #4 (Tank drain pit) located in Unit M, Sec. 03, T30N, R12W.
  - 4. L.C. Kelly #5 (Blow pit) located in Unit I, Sec. 03, T30N, R12W.
  - 5. L.C. Kelly #5 (Separator pit) located in Unit I, Sec. 03, T30N, R12W.
- C. The final soil remedial contaminant levels at the sites listed below are in excess of the recommended remediation levels as contained in the OCD's February 1993 "SURFACE IMPOUNDMENT CLOSURE GUIDELINES". Therefore, the OCD requests that Amoco submit a plan to address the remaining contamination at these sites. The plan will be submitted to the OCD Santa Fe Office by November 10, 1995 with a copy supplied to the OCD Aztec Office.
  - 1. Federal GC E#1E (Separator pit) located in Unit I, Sec. 30, T30N, R12W.
  - Federal GC D#1E (Blow pit) located in Unit I, Sec. 30, T30N, R12W.
  - L.C. Kelly #6 (Drip Pit) located in Unit B, Sec. 11, T30N, R12W.
  - 4. L.C. Kelly #6A (Blow Pit) located in Unit D, Sec. 11, T30N, R12W.
  - 5. Pan American Federal C#2E (Separator pit) located in Unit D, Sec. 19, T30N, R12W.

Mr. B.D. Shaw September 19, 1995 Page 3

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- D. Ground water at the sites listed below is contaminated with petroleum related constituents in excess of New Mexico Water Quality Control Commission ground water standards. Please submit a work plan to the OCD by November 10, 1995 for determining the extent of ground water contamination at the sites.
  - State GC J#1A (Dehydrator pit) located in Unit F, Sec. 36, 1. T30N, R09W.
  - GCU #93E (Separator pit) located in Unit L, Sec. 36, T29N, 2. R12W.

To simplify the approval process for both Amoco and OCD, the OCD requests that Amoco submit all future pit closure reports only upon completion of all closure activities including onsite landfarming or composting of contaminated soils. The results of final remediation levels achieved during landfarming or composting and the disposition of the remediated soils should be included in the report.

Please be advised that OCD approval does not relieve Amoco of liability if, in the future, remaining contaminants are found to pose a threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve Amoco of responsibility for compliance with any other federal, state or local laws and/or regulations.

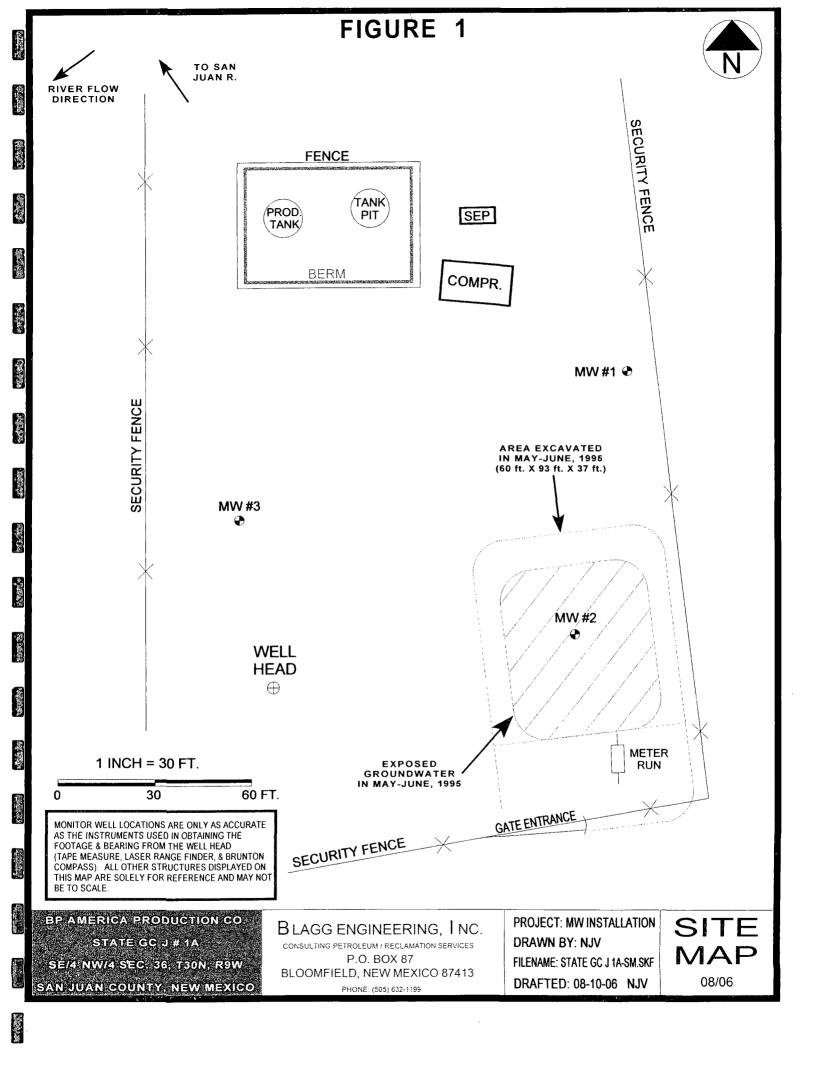
If you have any questions, please call me at (505) 827-7154.

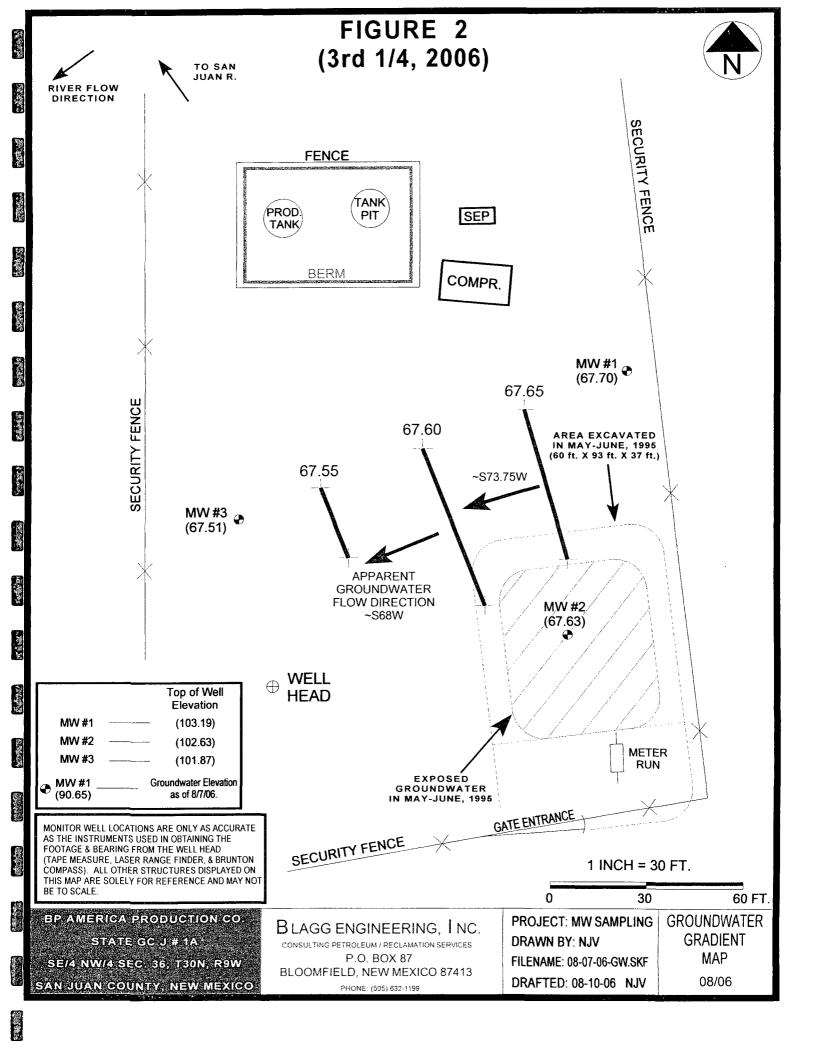
Sincerely,

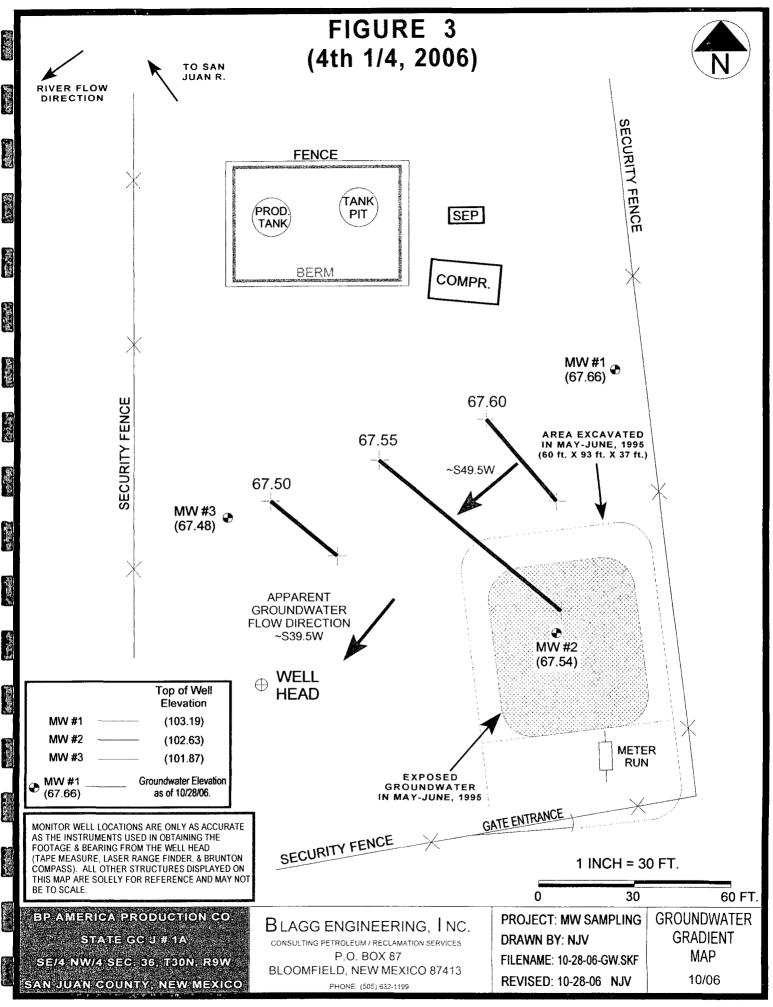
William C. Olson Hydrogeologist Environmental Bureau

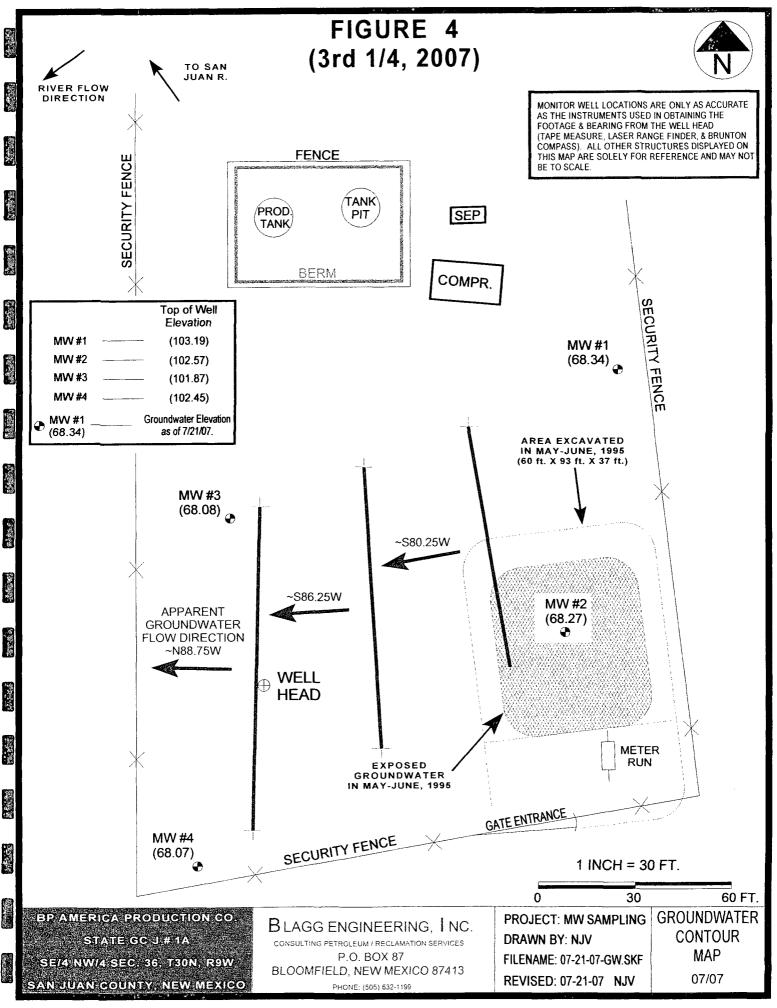
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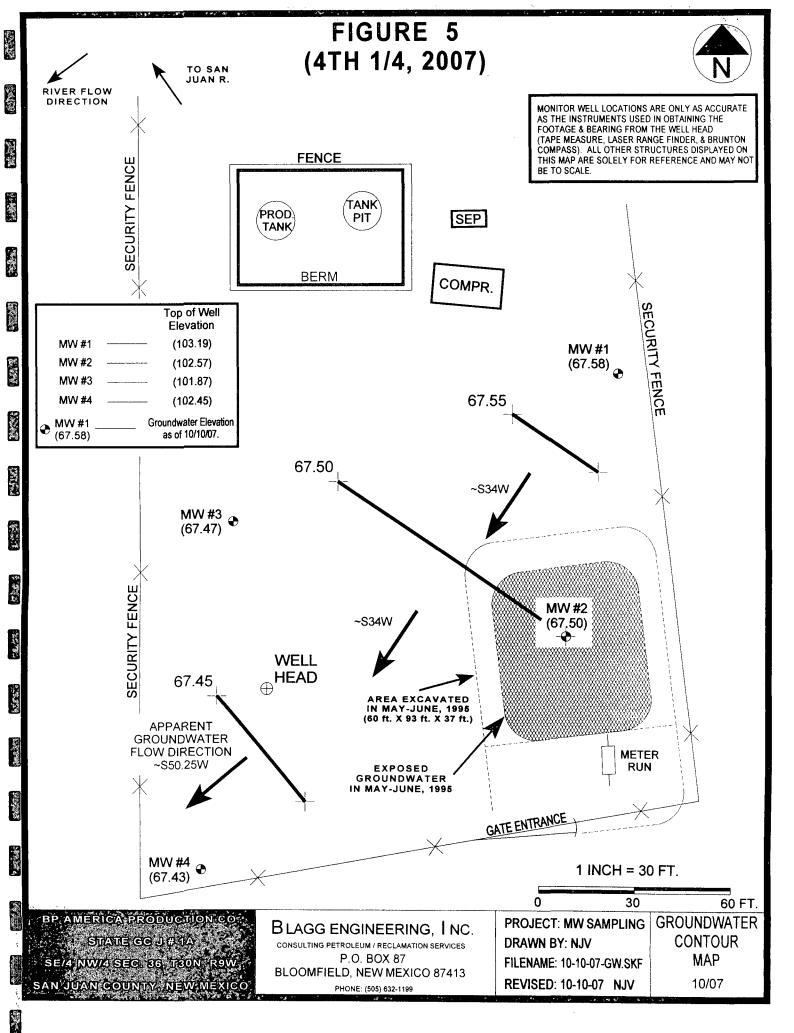
Ray Powell, NM State Land Commissioner Michael J. Pool, BLM Farmington District Manager





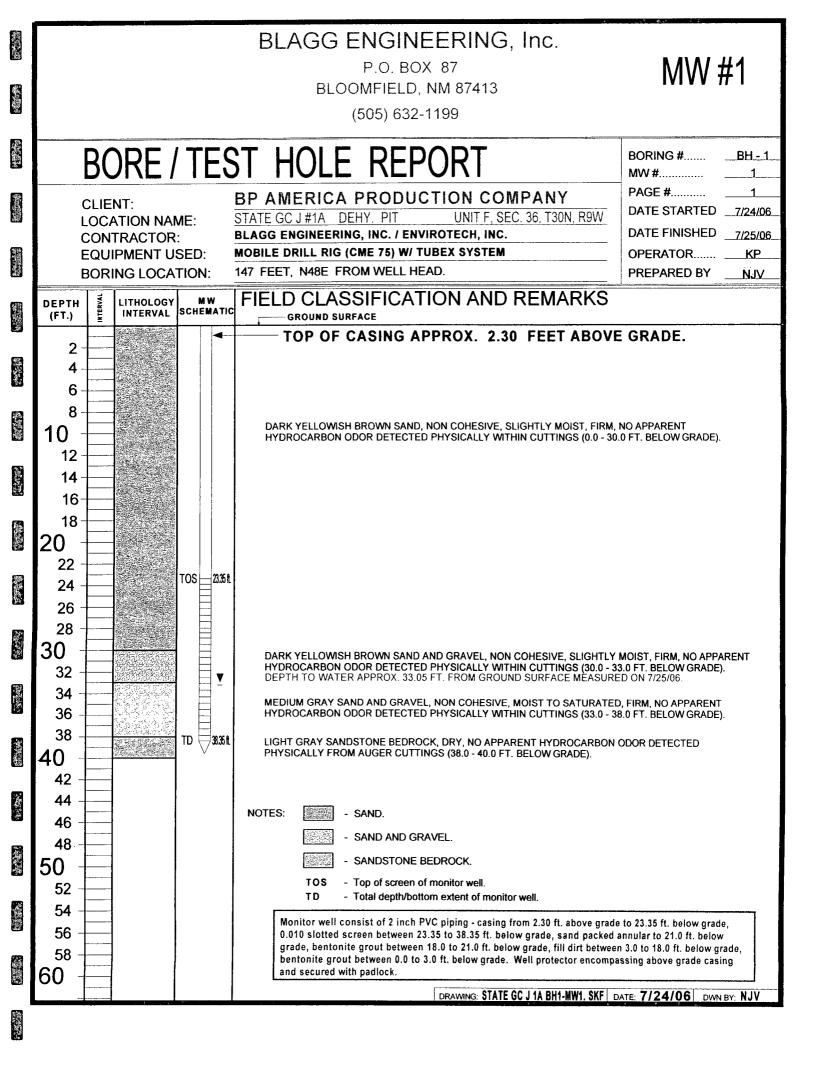




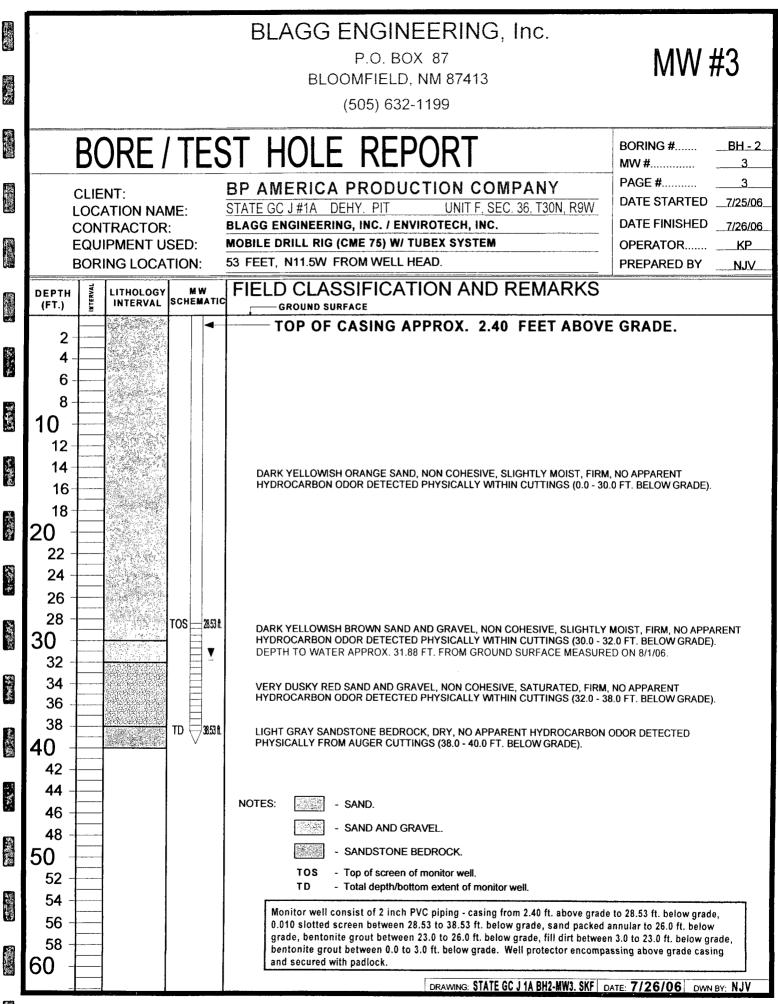


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_ 1			
		BG ENGINEERING, Inc. P.O. BOX 87	MW #2
99.49.9°		BLOOMFIELD, NM 87413 (505) 632-1199	
1. A.C.	BORE / TEST HO	LE REPORT	BORING # BH - 3 MW # 2
	LOCATION NAME: STATE GC J #1	RICA PRODUCTION COMPANY           1A         DEHY. PIT         UNIT F, SEC. 36. T30N, R9W	PAGE #2 DATE STARTED8/1/06
	EQUIPMENT USED: MOBILE DRILL	NEERING, INC. / ENVIROTECH, INC. L RIG (CME 75) W/ TUBEX SYSTEM DE FROM WELL HEAD.	DATE FINISHED <u>8/1/06</u> OPERATOR <u>KP</u> PREPARED BY <u>NJV</u>
	DEPTH	LASSIFICATION AND REMARKS	
	2 4 6 6 7 7 0 7 7 0 7 7 0 7 7 0 7	OF CASING APPROX. 3.00 FEET ABOVE	GRADE.
	8 10 12		
1. Same	14 MODERATI	E TO DARK YELLOWISH BROWN SAND (FILL MATERIAL), NON COH RM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY FT. BELOW GRADE).	
	18 20 22 24 26		
8.4 North	28 30 32 32 32 50t 50t 50t 50t 50t 50t 50t 50t 50t 50t	) WATER APPROX. 33.93 FT. FROM GROUND SURFACE MEASURE	D ON 8/1/06.
ward	DARK TO G	GRAYISH BLACK SAND AND GRAVEL, NON COHESIVE, WET TO SA RBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (30.0 - 37	
an a		DRANGE SANDSTONE BEDROCK, DRY, SLIGHTLY FRIABLE TO COI RBON ODOR DETECTED PHYSICALLY FROM AUGER CUTTINGS (3)	MPETENT, NO APPARENT 7.0 - 40.0 FT. BELOW GRADE).
Line and	42	SAND AND CRAVEL	
1.48%		<ul> <li>SAND AND GRAVEL.</li> <li>SANDSTONE BEDROCK.</li> <li>OS - Top of screen of monitor well.</li> </ul>	
	54	D - Total depth/bottom extent of monitor well. r well consist of 2 inch PVC piping - casing from 3.00 ft. above grade lotted screen between 28.50 to 38.50 ft. below grade, sand packed a bentonite grout between 23.0 to 26.0 ft. below grade, fill dirt between ite grout between 0.0 to 3.0 ft. below grade. Well protector encompa	nnular to 26.0 ft. below 3.0 to 23.0 ft. below grade.
		cured with padlock.           DRAWING: STATE GC J 1A BH3-NW2. SKF	



		BLAGG ENGINEERING, Inc. P.O. BOX 87	MW #4
A POST		BLOOMFIELD, NM 87413 (505) 632-1199	
and and a second	BORE / TES	ST HOLE REPORT	BORING # <u>BH - 4</u> MW # <u>4</u>
	LOCATION NAME:	BP AMERICA PRODUCTION COMPANYSTATE GC J #1ADEHY. PITUNIT F, SEC. 36, T30N, R9WBLAGG ENGINEERING, INC. / ENVIROTECH, INC.	PAGE #         4           DATE STARTED         _6/28/07           DATE FINISHED         _6/28/07
		MOBILE DRILL RIG (CME 75) W/ TUBEX SYSTEMFEET,FROM WELL HEAD.	OPERATOR <u>DP</u> PREPARED BY <u>NJV</u>
	DEPTH LITHOLOGY MW (FT.)		
and the second	2 4 6	TOP OF CASING APPROX. 2.60 FEET ABOVE	GRADE.
(C) (M)	10 12		
	14	DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 33.	
W. A. A.	20 22 24 26		
a color	28 30 32 32	DEPTH TO WATER APPROX. 31.33 FT. FROM GROUND SURFACE MEASURE	D ON 7/2/07.
( And the	34	DARK YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, SLIGHTLY HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (33.0 - 39	MOIST, FIRM, NO APPARENT 9.0 FT. BELOW GRADE).
	38 TD ↓39.47 k	LIGHT GRAY SANDSTONE BEDROCK, DRY, NO APPARENT HYDROCARBON PHYSICALLY FROM AUGER CUTTINGS (39.0 - 40.0 FT. BELOW GRADE).	ODOR DETECTED
	44	NOTES: SAND.	
	50	- SAND AND GRAVEL.	
	52 54	TOS       - Top of screen of monitor well.         TD       - Total depth/bottom extent of monitor well.	
		Monitor well consist of 2 inch PVC piping - casing from 2.60 ft. above grade 0.010 slotted screen between 29.47 to 39.47 ft. below grade, sand packed a grade, bentonite grout between 26.0 to 28.0 ft. below grade, fill dirt between Well protector encompassing above grade casing and secured with padlock	annular to 28.0 ft. below n 0.0 to 28.0 ft. below grade.
	60	DRAWING: STATE GC J 1A BH4-MW4. SKF D	
		DRAWING: STATE GC J 1A BH4-MW4. SKF D	ATE: 6/28/07 DWN BY: NJ

#### BLAGG ENGINEERING, INC.

#### MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A & 14667

LABORATORY (S) USED : HALL ENVIRONMENTAL

ENVIROTECH, INC.

Date : August 7, 2006

UNIT F, SEC. 36, T30N, R9W

SAMPLER : NJV

*Filename* : 08-07-06.WK4

STATE GC J # 1A

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WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	Sampling Time	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.19	67.70	35.49	40.65	0905	7.07	4,300	21.7	2.50
2	102.63	67.63	35.00	41.50	1030	7.06	3,900	20.5	3.25
3	101.87	67.51	34.36	40.93	0950	7.01	4,600	20.5	3.25
			INSTRUME	ENT CALIE	BRATIONS =	7.00	2,800		A
				DAT	E & TIME =	08/07/06	0830		

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in all MW's. Collected BTEX & major anions/cations from all MW's.

Top of casing MW #1 ~ 2.30 ft., MW #2 ~ 3.00 ft., MW #3 ~ 2.40 ft. above grade.

	Blagg Engineering TATE GC J #1A				Lab Order:	0608165
Lab ID:	0608165-01			Collection	Date: 8/11/200	6 7:15:00 AM
Client Sample ID:	MW #1			M	atrix: AQUEO	US
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021	B: VOLATILES					Analyst: NSE
Benzene		ND	1.0	µg/L	1	8/16/2006 1:45:03 PM
Toluene		ND	1.0	µg/L	1	8/16/2006 1:45:03 PM
Ethylbenzene		ND	1.0	µg/L	1	8/16/2006 1:45:03 PM
Xylenes, Total		ND	3.0	µg/L	1	8/16/2006 1:45:03 PM
Surr: 4-Bromofluo	robenzene	106	72.2-125	%REC	1	8/16/2006 1:45:03 PM
Lab ID:	0608165-02			Collection	Date: 8/11/200	6 7:35:00 AM
Client Sample ID:	MW #3			Μ	atrix: AQÚEO	US
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8021	IB: VOLATILES					Analyst: NSE
Benzene		ND	1.0	µg/L	1	8/16/2006 2:14:04 PM
Toluene		ND	1.0	µg/L	1	8/16/2006 2:14:04 PM
Ethylbenzene		ND	1.0	µg/L	1	8/16/2006 2:14:04 PM
Xylenes, Total		ND	3.0	µg/L	1	8/16/2006 2:14:04 PM
	robenzene	109	72.2-125	%REC	1	8/16/2006 2:14:04 PM

Qualifiers:	*	Value exceeds Maximum Contaminant L
Qualifiers:	* E	Value exceeds Maximum Contaminant L Value above quantitation range
Qualifiers:		

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Analyte detected in the associated Method Blank В

> Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

CLIENT:	Blagg Engineering			Cli	ient Sample ID:	MW #	2
Lab Order:	0608110			0	<b>Collection Date:</b>	8/7/20	06 10:30:00 AM
Project:	STATE GC J #1A				Date Received:	8/9/20	006
Lab ID:	0608110-01				Matrix:	AQUI	EOUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES						Analyst: NSE
Benzene		ND	1.0	1	µg/L	1	8/12/2006 6:29:51 AM
Toluene		ND	1.0	1	µg/L	1	8/12/2006 6:29:51 AM
Ethylbenzene		ND	1.0	1	µg/L	1	8/12/2006 6:29:51 AM
Xylenes, Total		4.1	3.0		µg/L	1	8/12/2006 6:29:51 AM
Surr 4-Brom	ofluorobenzene	96.4	72.2-125		%REC	1	8/12/2006 6:29:51 AM

### Hall Environmental Analysis Laboratory, Inc.

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Date: 15-Aug-06

Qualifiers: \*

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

Value exceeds Maximum Contaminant Level

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 1 of 1

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### **CATION / ANION ANALYSIS**

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #1	Date Reported:	08-08-06
Laboratory Number:	38074	Date Sampled:	08-07-06
Chain of Custody:	14667	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	7.25	s.u.		
Conductivity @ 25° C	5,640	umhos/cm		
Total Dissolved Solids @ 180C	4,864	mg/L		
Total Dissolved Solids (Calc)	4,720	mg/L		
SAR	3.2	ratio		
Total Alkalinity as CaCO3	250	mg/L		
Total Hardness as CaCO3	2,970	mg/L		
Bicarbonate as HCO3	250	mg/L	4.10	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	0.009	mg/L	0.00	meq/L
Chloride	17.3	mg/L	0.49	meq/L
Fluoride	2.20	mg/L	0.12	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	3,110	mg/L	64.75	meq/L
Iron	<0.01	mg/L	0.00	meq/L
Calcium	1,044	mg/L	52.10	meq/L
Magnesium	6.59	mg/L	0.54	meq/L
Potassium	4.70	mg/L	0.12	meq/L
Sodium	383	mg/L	16.66	meq/L
Cations			69.42	meq/L
Anions			69.45	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: State GC J #1A Grab Sample.

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#### **CATION / ANION ANALYSIS**

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	08-08-06
Laboratory Number:	38075	Date Sampled:	08-07-06
Chain of Custody:	14667	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	7.31	s.u.		
Conductivity @ 25° C	5,070	umhos/cm		
Total Dissolved Solids @ 180C	4,380	mg/L		
Total Dissolved Solids (Calc)	4,400	mg/L		
SAR	2.9	ratio		
Total Alkalinity as CaCO3	300	mg/L		
Total Hardness as CaCO3	2,970	mg/L		
Bicarbonate as HCO3	300	mg/L	4.92	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	24.9	mg/L	0.70	meq/L
Fluoride	2.05	mg/L	0.11	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	2,850	mg/L	59.34	meq/L
Iron	<0.01	mg/L	0.00	meq/L
Calcium	1,000	mg/L	49.90	meq/L
Magnesium	6.59	mg/L	0.54	meq/L
Potassium	3.95	mg/L	0.10	meq/L
Sodium	333	mg/L	14.49	meq/L
Cations			65.03	meq/L
Anions			65.06	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

#### Comments: State GC J #1A Grab Sample.

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#### **CATION / ANION ANALYSIS**

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #3	Date Reported:	08-08-06
Laboratory Number:	38076	Date Sampled:	08-07-06
Chain of Custody:	14667	Date Received:	08-07-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-08-06
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	7.10	s.u.		
Conductivity @ 25° C	5,640	umhos/cm		
Total Dissolved Solids @ 180C	4,020	mg/L		
Total Dissolved Solids (Calc)	4,080	mg/L		
SAR	1.6	ratio		
Total Alkalinity as CaCO3	340	mg/L		
Total Hardness as CaCO3	2,970	mg/L		
Bicarbonate as HCO3	340	mg/L	5.57	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	13.8	mg/L	0.39	meq/L
Fluoride	0.90	mg/L	0.05	meq/L
Phosphate	2.7	mg/L	0.09	meq/L
Sulfate	2,620	mg/L	54.55	meq/L
Iron	0.223	mg/L	0.01	meq/L
Calcium	1,040	mg/L	51.90	meq/L
Magnesium	6.96	mg/L	0.57	meq/L
Potassium	<0.1	mg/L	0.00	meq/L
Sodium	189	mg/L	8.22	meq/L
Cations			60.69	meq/L
Anions			60.64	meq/L
Cation/Anion Difference			0.08%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

#### Comments: State GC J #1A Grab Sample.

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	CHAIN-OF-CUSTODY RECORD	Client: BLACE ENER BP ANTICA		1.0. 80X	YUN		632-1		Matrix	WHIER		UFFER		0350 WITTE					Relinguished By (Signatu	Relinquished By: (Signarube)
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industatory or provides that we return to the Castorine and industry of the second second that HEAL is not, and has no responsibility as, a generator, treater, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.		pies which are in on Agency (EPA), s (ASTM), undard Methods for gnized n these	Where applicable, HEAL will use analytical methodologies which are in suitstanual conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chernit (AOAC), Standard Methods for the examination of Water and Wasterwater, or other recognized methodologies. HEAL reserves the right to deviate from these		عدًا. بي
It is understood and agreed that all samples and cuttings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laborators horizondurs with the restricted to the Orsternet for discosed it	5.6	e to the presence in ot such presence	safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer.	safety, the san has be	
of the presence of any hazardous substances known or suspected by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws		e to refuse delivery e which in the sole table containers as the unsuitable for, or any health,	HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or bocome unsuitable for, or may pose a risk in, handling, transport or processing for any health,		ه 2
The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure	5.5	ponsibility or pping or delivering	with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S carnet shipping or delivering any sample to or from HEAL'S premises.	with th liability any sar	
Customers or third parties. All results should be considered in their entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.		r revocation of mple will remain	Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will rema		4
All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by	5.4		RECEIPT OF SAMPLES AND DELIVERY OF SERVICES	RECEIPT OF S	<del>ب</del>
difficulties or ideavy in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.		ny sales, use or added to invoice	The prices stated on the Price Schedule do not include any sales, use or other axes unless specifically stated. Such taxes will be added to invoice prices when required.		لي) لما
issues, unexedy or intrinservity, in writter or in pure, from any rease or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be timuled to, acts of God, acts of Customer, acts of orders of any government authonity, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes,		d service charge of eeof from the due de in United State	overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.		
In no event shall HE AL have any responsibility or liability to the Customer for any failure or delay in performance by HE AL, which	5.3	order for work. WHEAL All	confirm with HEAL the current price prior to placing an order for work Payment terms are not 30 days from the date of invoice by HEAL All		3 2
consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.		prices quoted and jule, which prices ustomer should	serves performed by the LAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically writhout notice. The Customer should		<u>,</u>
responsibility of any kind for any losses, cost, expenses, or other damages (including but not limited to any special, indired, inddental or		•	MS	PAYME	. <b>.</b> .
Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except as otherwise specifically nervided herein HFAL is will have no lisbility oblisation or	·	ubject to a	Any order placed by the Clustomer under Section 2.1 is subject to a minumum cancellation charge of \$2.50.		2.2
satiple will be condugent on the Customer's providing, at the request of HEAL and at the Customer's expense, an additional sample if necessary.					ر
Lustomer in contraction with any services performed by HFAL will be limited to repeating the services performed or, at the sole oppon of HEAL, refunding in full or in part fees paid by the Customer for such services. HEAL'S obligation to repeat any services with respect to any services.		ent to be governed t to refuse to e customer credit	samples to HEAL constitutes the Custome's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to proceed with work at any time based upon an unfavorable customer credit report.	sample by thes process report	
The liability and obligations of HEAL, and the remedies of the	5.2	greament to be	suceptance by the Customer of HEAL is one to be usiness with the Customer under these Terms and Conditions. The Customer's delivery of bound by these Terms and Conditions. The Customer's delivery of	accepta Custorr	
nz-AL gives and makes no outer representation or warranty or any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.		purchase order to equently confirmed istitutes a) an	The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an any writing for the customer of the life of the service of the constitutes of the service of the se		
Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and				ORDERS	2
HEAL warrants only that its services will fulfill obligations set forth in	-	section 7.1	re agreed to in writing by HEAL as provided in	which a	
WARRANTIES, LIABILITY AND INDEMNIFICATION	5. WARF	ns of sale, Iments hereto	"Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or annextments hereto		1 6
At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard multiv assumers review proceedings.	4.5	sis of one or more	"Results" mean data generated by HEAL from the analysis of one or more samples.		15
agreement between HEAL and the Customer, analytical turnaround times are not guaranteed		, as such,	"Price schedule" means HEAL'S standard price schedule, as such document may be amended from time to time by HEAL.		ī.
specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written		ts employees,	HEAL means Hall Environmenial Analysis Laboratory its employees servants, agents, and representative.		1
comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless		uest laboratory esentatives	"Custome" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives		12
s, HEAL will use its best efforts to	44	EAL to proceed le.	"Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.	< :	
judgement of HEAL, which deviation, it any will be made on a basis consistent with recognized standards of industry and or HEAL'S Standard Operating Procedures:					
methodologies, if necessary of appropriate due to the nature of composition of the sample or otherwise based on the reasonable			< n	DEENITIONS	-
					10.7 Å.2.4

compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, duties, fines and/or other costs (including but not limited to HEAL by the Customer in the use, evaluation, or application of Results provided by substances in any sample of the Customer regardless of the Customer's liability to a third party) arising out of a) the presence of hazardous The Customer shall indemnify and hold hamless HEAL from and against TALL HE

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remoursement and Conditions and the individual circumstances warranting the The amount of compensation is negotiable upon acceptance of these Terms necessary to bring the instruments back to its former operating condition. revenue due to the instrument's downtime, and/or the parts and labor or altered, HEAL is entitled to compensation by the Customer for any loss of cause the operations of any HEAL instrumentation to be reduced, stopped, Should any Customer sample, due to its matrix or constituents of its matrix

# ENTIRE AGREEMENT: SEVERABILITY

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order or other communication from the Customer to HEAL or conflicting terms, whether printed or otherwise set forth in any purchase Customer and HEAL. HEAL specifically rejects all additional. inconsistent representations, or agreements, either verbal or written, between the Terms and Conditions shall supersede all previous communications, contained herein, unless made in accordance with Section 7.1, and these conditions, understandings, obligations or agreements other than those the whole agreement of the parties. There are no promises, terms. may be agreed to in writing by HEAL as provided in Section 7.1, embodied These Terms and Conditions, together with any additions or revisions which 5.8

or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable. The invalidity or unenforceability, in whole or in part of any provision, term

### .7 AMENDMENTS AND WAIVERS

7.1

- Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and purported addition, deletion, alteration, variation, consent, approval or consent, approval or waiver, and HEAL shall not be bound by any such or vary any of these Terms and Conditions in any manner, or to give any representatives of HEAL has any authority whatsoever to add to, delete, alter or to have waived any breach by the Customer of any of these Terms and provision, term or condition, or have given any required consent or approval HEAL shall not be subject to or bound by any provision, term or condition MBIACE.
- any other breach by or obligation of the Customer of such provision, term or condition on any other occasion of a waiver of breach by or obligation of the Customer hereunder shall constitute a waiver No waiver by HEAL of any provision, term or condition hereof or of any

### **,90** SAMPLE STORAGE

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storage charges depend upon storage requirements and duration. Nominally a sample storage fee of \$5 00 per sample, per month will be billed monthly and billed at the rate of \$25.00 per sample. HEAL reserves the right to may be returned at the client's expense. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste unless other arrangements are made. If requested, unused sample material has been issued unless alternate arrangements have been made in advance Storage of samples or extracts for longer periods is by request only Sample Bulk samples will be retained for thirty (30) days after the analytical report return all dibenzodioxins/dibenzofurars to the chent

### SECTION HEADING

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The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

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### 10 GOVERNING LAW

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These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

QA / QC Package:       DA / QC Package:         Std       Level 4         ANALYSIS LABORATORY         Other:       4901 Hawkins NE, Suite D	oject Name:     Dibuduerque, New Mexico 87105 $\nabla Albuduerque, New Mexico 87105       \nabla Albuduerqque, New Mexico 87105   $		5) ) <sup>4</sup> ) []] []] []] []]	2 3 3 3 3 3 3 3 3 3 3 3 3 3	VV 	+ 381 108 bo 104 50 20 bo 20 b	NumberVolume Heservative Head No. Head No. No. Head No. No. Head No. Head No. No. Head No. No. Head No. No. Head No. No. Head No. No. No. Head No. No. No. No. No. No. No. No.	-40 m/ /	2-40 m/ / / / / / / / / / / / / / / / / / /	•				1 1 1	Received By: (Signature) & -(1-0 by Remarks: Repeived By: (Signature)	
CHAIN-OF-CUSTODY RECORD	Client: Riges ENER, BP AMERICA Project Name:	Address: $\mathcal{P}$ . O. $\mathcal{O} \times \mathcal{S}$ $\mathcal{S}$	87413		Phone #: 63 ス ー / 99	Fax #: Sample Tempe	Date Time Matrix Sample I.D. No. Number/Volu	8/11/06 C715 WATER NUW #1 2-40 "	8/11/2 0735 WATER MW #3 3-40"						Date: Time: Relinquished BY: (Bignature) Recei 3/11/cs OBIS Puture, 2015 Date: Time: Relinquished By: (Signature) Refer	-

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Where applicable, HEAL will use analytical methodologies which are in substantial conformity with U.S. Environmental Protection Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chernist (AOAC), Standard Methods for the examutation of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these	HEAL reserves the absolute right, exercisable at any time to refuse delivery of, refuse to accept, or revoke Acceptance or, any sample which in the sole judgement of HEAL a) is of unsuitable volume, b) unsuitable comtainers as required for the requested analysis, or c) may be or become unsuitable for, or may pose a nisk in, handling, transport or processing for any health, safety, environmental or other reason, whether or not due to the presence in the sample of any hazardous substance and whether or not such presence has been disclosed to HEAL by the Clustomer.	Prior to HEAL'S Acceptance of any sample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the eation or maction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.	RECEIPT OF SAMPLES AND DELIVERY OF SERVICES	The prices stated on the Price Schedule do not include any sales, use or other taxes unless specifically stated. Such taxes will be added to invoice prices when required.	Payment terms are net 30 days from the date of invoice by HEAL. All overdue payments are subject to an additional interest and service charge of one and one-half percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State currency.	Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stated on the Price Schedule, which prices are subject to change periodically without notice. The Customer should confirm with HEAL the current price prior to placing an order for work.	PAYMENT TERMS	Any order placed by the Customer under Section 2.1 is subject to a multimum cancellation charge of \$2.50.	The customer may order services by submitting a written purchase order to HEAL, by placing a telephone order, which will be subsequently confirmed in writing, or by negotiated contract. Any such order constitutes a) an acceptance by the Customer of HEAL'S offer to do business with the Customer under these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer's delivery of by these Terms and Conditions. The Customer's delivery of proceed with work at any time based upon an unfavorable customer credit report.	ORDERS	"Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amerdments hereto which are agreed to in writing by HEAL as provided in Section 7.1	"Results" mean data generated by HEAL from the analysis of one or more samples	"Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.	HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative	"Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives	"Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.	DEFINITIONS	
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methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures. Upon timely delivery of samples, HEAL will use its best effonts to comply with storage, processing and analytical holding time limits as set comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or ter forth on the price Schedule Honezer limits. 5. 26. 5. v

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At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S standard quality assurance review procedures.

# WARRANTIES, LIABILITY AND INDEMNIFICATION

- HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any such services, and HEAL gives and makes no other representation or warranty of any kind, express or implied. No representative of HEAL is authorized to give or make any other representation or warranty of modify the warranty in any way.
- The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, and a the Customer is expanse, an additional sample if necessary and the contingent on the Customer's providing, at the request of HEAL and at the Customer's expanse, an additional sample if necessary and the Customer's expanse. An additional sample if necessary will be at the Customer's expanse. Except as otherwise specifically provided herm, HEAL shall have no lability, costs, expense, or other damages (including but not limited to any special, indiced, indicental damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.
- In no event shall HEAL have any responsibility or tiability to the Customer for any failure or delay in performance by HEAL, which results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disputes, difficulties or delays in transportation, mail or delivery services, inability to obtain from HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL'S reasonable control.
- All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or third parties. All results should be considered in their enturely, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.
- The customer represents and warnants that any sample delivered to HEAL will be preceded of accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by the customer. The Customer further warnants that any sample containing any hazardous substance, which is to be delivered to HEAL'S premises will be padaged, labeled, transported and delivered properly and in accordance with applicable laws.
- It is understood and agreed that all samples and outings of materials containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated samples and laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, a generator, treater, storer, or dispose of hazardous or toxic substances found or induffied at a site, and the Customer agrees to assume the responsibility for the foregoing.

The Customer shall indernuify and hold hamlets HEAL, from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, psyments, taxes, duties, fines and/or other costs (including but not limited to liability to a third party) assing out of a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5.5 theorof b) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence by the Customer in the use, evaluation, or application of Results provided by HEAL

Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HEAL instrumentation to be reduced, stopped, or altered, HEAL is entitled to compensation by the Customer for any loss of revenue due to the instrument's downtime, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms and Conditions and the individual circumstances wurranting the rembursement.

# ENTIRE AGREEMENT: SEVERABILITY

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- These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by HEAL as provided in Section 7.1, embodied the whole agreement of the parties. There are no promises (terms, conditions, understandings, obligations or agreements other than those contained herein, unless made in secondance with Section 7.1; and these Terms and Conditions shall superserved all previous communeators, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or confuting terms, whether primed or otherwise set forth in any purchase order or other communication from the Customer to HEAL
- The invalidity or unenforceability, in whole or in part of any provision, term or condution hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.

6.2

## 7. AMENDMENTS AND WAIVERS

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- HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or inconsistent or conflicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and provision, term or condition, or have given any trequired consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unless specifically set forth in writing and executed on behalf of HEAL by a duly authorized officer. No other employee, servant, agent or representatives of HEAL has any authority whitesever to add to, delete, alter or vary any of these Terms and Conditions in any manner, or to give any consent, approval or waiver, and HEAL shall not be bound by any such purported addition, deletion, alteration, variation, consent, approval or waiver.
- No waiver by HEAL of any provision, term or condition hereof to of any breach by or obligation of the Custame hereunder shall constitute a waiver of such provision, term or condution on any other occasion or a waiver of any other breach by or obligation of the Custamer.

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### 8. SAMPLE STORAGE

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Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storage of samples or certaes for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nonmally, a sample storage fee of 55 00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused simple material may be returned at the client's expresse. Materials, which are identified as hazardous, will be returned to the client or disposed of as hazardous waste and billed at the rate of 52,500 per sample. HEAL reserves the right to return all diberzodioxins/diberzofurans to the client.

### SECTION HEADING

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9.1 The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These Terms and Conditions or their interpretations.

### 10. GOVERNING LAW

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These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.

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### **QA/QC SUMMARY REPORT**

	Client:Blagg EngineProject:STATE GC I	-						Wo	ork (	<b>Drder:</b> 0608110
	Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD I	RPD	Limit Qual
	Method: SW8021									
	Sample ID: 5ML RB-III		MBLK			Batch ID:	R20262	Analysis Date	э:	8/12/2006 2:03:56 AM
	Benzene	ND	µg/L	1.0						
	Toluene	ND	µg/L	1.0						
Property.	Ethylbenzene	ND	µg/L	1.0						
	Xylenes, Total	ND	µg/L	3.0						
	Sample ID: 100NG BTEX LCS-III		LCS			Batch ID:	R20262	Analysis Date	e:	8/12/2006 7:56:33 AM
	Benzene	17.99	μg/L	1.0	90.0	85	115			
	Toluene	18.42	µg/L	1.0	92.1	85	118			
	Ethylbenzene	19.03	µg/L	1.0	95.1	85	116			
63	Xylenes, Total	59.71	µg/L	3.0	97.3	85	119			
	Sample ID: 100NG BTEX LCSD-I		LCSD			Batch ID:	R20262	Analysis Date	э:	8/12/2006 8:47:53 AM
Ф.	Benzene	18.22	µg/L	1.0	91.1	85	115	1.25	27	
	Toluene	17.82	µg/L	1.0	89.1	85	118	3.31	19	
Call Water	Ethylbenzene	18.94	µg/L	1.0	94.7	85	116	0.453	10	
<b>3</b> 2,	Xylenes, Total	58.76	µg/L	3.0	95.7	85	119	1.62	13	

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits 2/3

4 X						
	Hall Environmental Analysis Lab	oratory, Inc.				
are th		Sample	e Receipt Ch	ecklist		
_	Client Name BLAGG			Date and Tim	ne Received:	8/9/2006
419334	Work Order Number 0608110	a s	$\mathbb{R}$	Received b	ey NJM	
and the	Checklist completed by	pag	Date	16/06		
2.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 - 1.00 -	Matrix:	Carrier name:	Greyhound			
<b>*</b> *	Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present	
11	Custody seals intact on shipping container/coole	er?	Yes 🗹	No 🗌	Not Present	Not Shipped
はち	Custody seals intact on sample bottles?		Yes 🗌	No 🗌	N/A	
a	Chain of custody present?		Yes 🗹	No 🗌		
	Chain of custody signed when relinquished and	received?	Yes 🗹	No 🗌		
	Chain of custody agrees with sample labels?		Yes 🗹	No 🗌		
	Samples in proper container/bottle?		Yes 🗹	No 🗌		
- <del>0</del> -	Sample containers intact?		Yes 🗹	No 🗌		
(********	Sufficient sample volume for indicated test?		Yes 🗹	No 🗌		
	All samples received within holding time?		Yes 🗹	No 🗌		
	Water - VOA vials have zero headspace?	No VOA vials sub	mitted	Yes 🗹	No 🗌	
in the second	Water - pH acceptable upon receipt?		Yes 🗌	No 🗌	N/A 🗹	
	Container/Temp Blank temperature?		14°	4° C ± 2 Accep If given sufficie		
	COMMENTS:					
و معلی ا						
a strange					· ·	
	Client contacted	Date contacted:		Pe	rson contacted	
44	Contacted by:	Regarding:				
State	Comments:					
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<b></b>						
and the	Corrective Action					
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No.

3/3

20.35

63.16

µg/L

µg/L

# **QA/QC SUMMARY REPORT**

Client:	Blagg Engineering
Project.	STATE GC Ι #1 Δ

Carlos A

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Ethylbenzene

Xylenes, Total

	<b>Project:</b> STATE GC	J #1A						Work	<b>Order:</b> 0608165
1. 88. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD RP	DLimit Qual
an a	Method: SW8021 Sample ID: B		MBLK			Batch ID	: <b>R20310</b>	Analysis Date:	8/16/2006 10:48:28 AM
Ť	Benzene	ND	µg/L	1.0					
	Toluene	ND	µg/L	1.0					
Print Print	Ethylbenzene	ND	µg/L	1.0					
H.	Xylenes, Total	ND	µg/L	3.0					
	Sample ID: 100NG BTEX LCS		LCS			Batch ID	R20310	Analysis Date:	8/16/2006 7:12:02 PM
19. S.	Benzene	18.87	µg/L	1.0	94.3	85	115		
	Toluene	19.11	µg/L	1.0	91.8	85	118		

102

103

85

85

116

119

1.0

3.0

- Е Value above quantitation range
- J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

S Spike Recovery outside accepted recovery limits 2/3

Hall Environmental Analysis Labo	oratory, Inc.				
	Sample	Receipt Ch	necklist		
Client Name BLAGG			Date and Time	e Received:	8/11/2006
Work Order Number 0608165		Q	Received by	GLS	
Checklist completed by	uppe	Date	-11-0		
Matrix	Carrier name	Greyhound			
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/cooler	?	Yes 🗹	No 🗌	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗌	No 🗌	N/A	
Chain of custody present?		Yes 🗹	No 🗔		
Chain of custody signed when relinquished and re	eceived?	Yes 🔽	No 🗌		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗔		
Samples in proper container/bottle?		Yes 🗹	No 🗌		
Sample containers intact?		Yes 🔽	No 🗌		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗌		
All samples received within holding time?		Yes 🗹	No 🗔		
Water - VOA vials have zero headspace?	No VOA vials subm	nitted	Yes 🗹	No 🗔	
Water - pH acceptable upon receipt?		Yes	No 🗌	N/A	
Container/Temp Blank temperature?		4°	4° C ± 2 Accept		
COMMENTS:					
	======				
Client contacted	Date contacted:		Per	son contacted	
Contacted by:	Regarding				
Comments:					
	<u></u>		·····		
					<u></u>
Corrective Action				·····	· · · · · · · · · · · · · · · · · · ·

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### BLAGG ENGINEERING, INC.

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### MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

	C J # 1A SEC. 36, T3	80N, R9W			LAB	ORATORY	'(S) USED :	HALL ENVI	RONMENTAL
	: October		<u></u>				SAMPLER :	N	JV
Filename	10-28-06.V	VK4			F	PROJECT	MANAGER :	N	JV
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	Sampling Time	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.19	67.66	35.53	40.65	-	-	-	_	_
2	102.63	67.54	35.09	41.50	0930	7.17	4,300	13.4	3.25
3	101.87	67.48	34.39	40.93	1000	6.97	4,000	14.1	3.25
		· · · · · · · · · · · · · · · · · · ·	INSTRUM	ENT CALIE	RATIONS =	7.00	2,800		
				DATE	E & TIME =	10/27/06	0845		
NOTES :	(i.e. 2" MW	r = (1/12) inimum of	ed from well ft. h = 1 ft.) ( three (3) we diameter = (	i.e. 4" MW	r = (2/12) ft mes:	. h = 1 ft.)	X 7.48 gal.//	<u>ft3) X 3 (we</u> l	<u>lbores).</u>
			ell diameter if both MW's.			MW's#2	& #3 only.		

Top of casing MW #1 ~ 2.30 ft., MW #2 ~ 3.00 ft., MW #3 ~ 2.40 ft. above grade.

	Blagg Engineering State GC J #1A				La	b Order:	0610364
Lab ID:	0610364-01			Colle	ction Date:	10/28/200	)6 9:30:00 AM
Client Sample ID:	MW #2				Matrix:	AQUEOU	JS
Analyses		Result	PQL	Qual Uni	ts	DF	Date Analyzed
EPA METHOD 802	1B: VOLATILES						Analyst: NSE
Benzene		ND	1.0	µg/l		1	11/2/2006 1:39:54 PM
Toluene		ND	1.0	µg/L		1	11/2/2006 1:39:54 PM
Ethylbenzene		ND	1.0	µg/l	-	1	11/2/2006 1:39:54 PM
Xylenes, Total		ND	3.0	µg/l	-	1	11/2/2006 1:39:54 PM
Surr: 4-Bromofluc	orobenzene	84.9	72.2-125	%R	EC	1	11/2/2006 1:39:54 PM
Lab ID:	0610364-02			Colle	ection Date:	10/28/20	06 10:00:00 AM
Client Sample ID:	MW #3				Matrix:	AQUEO	JS
Analyses		Result	PQL	Qual Un	its	DF	Date Analyzed
EPA METHOD 802	1B: VOLATILES						Analyst: NSE
Benzene		ND	1.0	իքվ	-	1	11/2/2006 2:10:07 PM
Toluene		ND	1.0	ից/լ	-	1	11/2/2006 2:10:07 PM
Ethylbenzene		ND	1.0	hð/l	-	1	11/2/2006 2:10:07 PM
Xylenes, Total		ND	3.0	µg/l	-	1	11/2/2006 2:10:07 PM
	probenzene	81.8	72.2-125	%R	50	1	11/2/2006 2:10:07 PM

Date: 03-Nov-06

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Spike recovery outside accepted recovery limits

Page 1 of 1

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Date: Time: Relinguisbed By: (Signature) 19 39 96 96 45 (March By: (Signature) Date: Time: Relinguished By: (Signature)					10/23/000 WATER MUN # 3	10/28/06 0930 WATER MW # 2	Date Time Matrix Sample I.D. No.	Fax #:	Phone #: 632 - 1199		BLED. NM 87413	Address: P. O. BOX 87	WILLING ENCR. / BY AMERICA		
Received By: (Signature)					2-40m/ V = 2	2-40m/ V - 1	Number/Volume HgC12 HNO3 HEAL No.	Sample Temperature:	Sampler: NV	Project Manager:	TN	Project #:	STATE GC J # (A	Other:	QC Package:
Remarks:							BTEX + W BTEX + W TPH Meth TPH (Met EDB (Met EDC (Met 8310 (PN RCRA 8 M Anions (F, 8081 Pes 8260B (V 8270 (Ser Air Bubble	1TBE + od 80' hod 41 hod 50 hod 80 A or P/ etals CI, NO ticides OA) mi-VOA	- TPH ( 15B (G 8.1) )4.1) )21) (AH) 3, NO <sub>2</sub> , / PCB'	Gasoline O as/Diesel) PO <sub>4</sub> , SO <sub>4</sub> ) s (8082)		ANALYSIS REQUEST		ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109	

a the streets	t d to	ar a	ri Taj	ted teni.	en Lis Lis	цор	oval, 1 fof alter	ر ددر	ti s	nple hly, ally	دة 60 أن 84 أن	ές υ
	from and agains abilities, expensi ug but not limite hazardous he Customet's ring during the ol, or d) negliger	Kesture provided tuents of its mat reduced, stoppe tomer for any lo tarts and labor rating condition	ting the leader le	Xion 7.1, embod es, terms, es, terms, let than those n 7.1; and these numications, numications, numeations, this any purchs AL.	any provision, t ty or enforceabil t of the parties be	, term or conditu 1 these Terms an 2d or waived and	consent or appr these Terms and tecruted on behal tecruted on behal servant, agent ( o add to, delete, at, or to give any	und by any such it, approval or thereof or of any constitute a wai on or a waiver o	he analytical rep	aquest only. Sar biration. Nomin J be billed montl ed sample materi	in are identified to hazardous was ves the right to intended solely in any way The	ent, to which the aformance by th
r. 22	harmless HEAL mages, losses, lui er costs (includir the presence of er regardless of t accidents occur , c) events contro	of application of matrix of consti- numentation to be ation by the Cus ne, and/or the pa to its former ope	ole upon accepta mstances warran rith any addition	s provided un Sex are are no promusion ance with Section ance with Section Il previous comr and or written, I ily rejects all add otherwise set for Customer to H for	nole or in part of iy way the velici litions, the intent	by any provision r conflicting with t to have amende	en any required stomer of any of in writing and ex other employee inty whatsoever to any manne	shall not be bou variation, conser erm or condition hereaunder shall any other occasi Customer.	(30) days after th	and the periods is by re quirements and c e, per month will requested, unuse	Materials, who or disposed of a ple. HEAL reser- it to the dient. d Conditions are	ations. action or agreen pretation and pe
	emuify and hold s, judgements, da fines and/or oth arising out of a le of the Custom aph 5.5 hereof b of the Custome	amer in the use, evaluation, or application of Kesuus provised to Customer sample, due to its matrix or constituents of its matrix cratitions of any HEAL instrumentation to be reduced, stopped, iEAL is entitled to compensation by the Customer for any loss iEAL is entitled to compensation by the parts and abor to the instrument's downitme, and/or the parts and abor bring the instruments back to its former operating condition.	satou is negota individual circu ERABILITY fitions, together v	titing by HEAL a fifthe parties. The ings, obligations ings, obligations ings, shall superside a shall superside a thether printed of thether printed of idention from the	orceability, in w ul not affect in a Terms and Con everable.	CRS ject to or bound or unconsistent o ull not be deerned	lition, or have gri breach by the Cu difically set forth rized officer. No L has any autho zms and Conditu	aiver, and HEAL etion, alteration, f any provision, 1 t of the Custome obligation of the	stained for thirty	attanta analysis extracts for longe 1 upon storage re f \$5.00 per sample rats are made. If	cuent's expense mod to the dient 1\$25.00 per sum ns/dibenzoftman of these Terms ar nd shall not defin	or their interpret ditions, and trans ed both as to inte w Mexico.
	The Customer shall inderturify and hold harmless HEAL from and against any and all chaims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, dutes, fines and/or other costs (including but not limited to liability to a third party ainsing not (a) the presence of hazardous substances in any sample of the Customer regardless of the Customer's compliance with paragraph 5, heacoff) accidents occurring during the transport of any sample of the Customer, c) events control, or d) negligence	Custo I any ed, F ed, F ary to	The amount of compensation is negotiable upon acceptance of u and Conditions and the individual circumistances warranting the reimbursement. ENTIRE A GREEMENT: SEVERABILITY These Terms and Conditions, logether with any additions of revi	may be agreed to unwriturg by HEAL as provided in Sachour 1, quantum of the whole agreement of the parties. There are no promises, items, the whole agreement of the parties. There are no promises, items, conditions, understandings, obligations or agreements other than those contained herein, unliss made un accordance with Section 1,1; and these Terms and Conditions shall supersede all previous communications. Customer and HEAL. HEAL specifically rejects all additional, unconsistent, or or onlifeting errors, whether primod or otherwise set forth in any purchase or other communication from the Customer is of the Additional.	The invalidity or unerforceability, in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions, the intent of the parties being that the provisions be severable.	AMENDMENTS AND WAIVERS HEAL shall not be subject to or bound by any provision, term or condition which is in addition to or moonsistent or conditicting with these Terms and Conditions. HEAL shall not be deemed to have amended or waived and	provision, term or condition, to have given any required consent or approval, or to have waived any breach by the Customer of any of these Terms and Conditions unlast specifically set forth in writing and executed on behalf of HEAL by a duty authorized officer. No other employees, servent, agent or representatives of HEAL has any authority whatsoerer to aid to, delete, aire or vary any of these Terms and Conditions in any manurer, or to give any	consent, approval or waiver, and HEAL shall not be bound by any such purported addition, diferation, variation, consent, approval or waiver. No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the customer hereunder shall constitute a waiver of such provision, term or condition on any other cocasion or a waiver of any other breach by or obligation of the Customer.	STORAGE Bulk samples will be retained for thirty (30) days after the enalytical report to the enalytical report	its order to some unex activities an argentier in the over the ove	may be returned at the cuent's expanse. Maternals, which are identified as hazardous, will be returned to the dicent or disposed of as hazardous waste and billed at the rate of \$25 00 per sample. HEAL reserves the right to return all diberizodioxins/diberizofurans to the dicent. <b>N HEADING</b> The section headings of these Terms and Conditions are intended solely for onvenient reference and shall not define limit or affoct in arev wer These	Terms and Conditions or their interpretations. RNING LAW These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.
	The C any ar paymar jiabiliti substa complo transp	by the C HEAL. Should cause th or alter revenue revenue	The at and C reamb ENTIRE AGRI	may b the with condained contained Terms Custo of Custo order	The ir or cor of the that th	AMENDMEN HEAL which Condi	provis or to ) Condi HEAL repres	consent purport waivet. No wai breach of such any off	SAMPLE STORAGE Bulk samples	storag Storag a sam unles:	SECTIO	GOVE
と思い	5.7	×. 8	<b>6.</b> 6.1		6.2	7. 7.1		7.2	ania ani ania		<b>č</b> . č.	<b>10</b> . 10.1
and the second	re of nable on a basis EAL'S fforts to	re tirruts as set quested by the ess AL and the specifically a writtern maround	n advance of 1TATIVE d on HEAL'S	s ser forth in axclusive rices, and ty of any kind, zed to give or varranty in any	of the IEAL will be option of espect to any the request of	le if necessary. rinal Results eccifically or or other	, incidental or of a kind to the L, which	any cause or Such cause and f God, acts of strikes or other lisputes, services, services or le control.	Customers, ults by ad in their	ivered to ten disclosure	pected by the containing L'S premises any and in f materials te te	r disposal. It ponsibility as, ic substances sume the
1. C.	e due to the natur ased on the reaso uny will be made idustry and/ of H will use its best e	rucar holdung tur s or otherwise rad de. However, und ant between HE ranteed. Unders: sly made part of rier, analytical tu	s may be given i Results are TEN n or change base ures. ICATION	fulfill obligation is the sole and e rith any such serv- ration or warrant HEAL is authori V or modify the v	nd the remedies of performed by H do r, at the sole of do r, at the sole of id by the Custon ry services with ry services with rat's providing, at	additional samp ant with the Orig at as otherwise sp ulity, obligation costs, expenses, (	special, indirect ation or warranty lts. ability or liability rmance by HEA	in part, from any rol of HEAL. Su ited to, acts of G art authority, stri wars, civil disp i, wars, civil disp cos sufficient ser cos sufficient ser L'S reasonable c	for the use of its c use of such res ould be considered	f the results. I any sample delivy complete writh	ardous substances known or suspected by further warrants that any sample containin, which is to be dedivered to HEAL'S premi transported and dedivered properly and in e laws. d that all samples and cuttings of materials arritingus are the property and the arritingus are the property and the arritingus area.	the Customer fo st, and has no res hazardous or tox ance agrees to as
	methodologies, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and/ or HEAL'S Standard Operating Procedures. Upon timely delivery of samples, HEAL will use its best efforts to	compty with storage, processing and analyzed inoluting time timits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless specifically made part of a written agreement between HEAL and the Customer, such time limits cannol be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written agreement between HEAL and the Customer, analytical turnaround times are not guaranteed.	At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or dhange based on HEAL'S standard quality assumance review procedures. NTIES, LLABILLITY AND INDEMNIFICATION	HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty given by HEAL in connection with any suid services, and HEAL gives and makes no other representation or warranty of any kind, express or implied No representative of HEAL is authorized to give or make any other representation or warranty or modify the warranty in any way.	The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be limited to repeating the services performed or, at the sole option of HEAL, refinding in full or in parf fees paid by the Customer for such services. HEAL's obligation to repeat any services with respect to any sample will be confingent on the Customer's providing, at the request of	HEAL and at the Customer's expense, an additional sample if necessary Any reanalysis generating Results consistent with the Original Results will be at the Customer's expense. Except us otherwise specifically provided herein, HEAL shall have no liabibity, obligation or responsibility of any kind for any losse, oxist, expense, or other	damges (including but not limited to any special, induced, incadenta consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results in no event shall HEAL have any responsibility or tiability to the Customer for any failure or delay in performance by HEAL, which	results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of HEAL. Suid sauce anuse aricumstance shall include, but not be limited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, divid disputes, difficulties or delays in transportation, mail or delivery services, sublicit of other gause beyond HEAL usual sources sufficient services or supplies, or any other cause beyond HEAL.'S reasonable control.	All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by Customers or bind parters. All results should be considered in their events.	drawdyn and ritzwu is uring way respuencie ou ure separation, ddaedment, or other use of any portion of the results. The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure	or the presence of any hazardous substances forowing or supported by the customer. The Customer further warrants that any sample containing any hazardous substance, which is to be delivered to HEAL' Spremises will be packaged, labeled, transported and delivered properly and in accordance with applicable laws. It is understood and agreed that all samples and cuttings of materials for understood and agreed that all samples and cuttings of materials restorizing hazardous containments are the property and the responsibility of the Customer. All containing each samples	laboratory byproducts will be returned to the Customer for disposal. It is understood and agreed that HEAL is not, and has no responsibility as, agreeator, tracter, storer, or disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.
	methodologies, if necessary or a composition of the sample or ot judgement of HEAL, which dow consistent with recognized stant Standard Operating Procedures Upon timely delivery of sample	by wrut storage, pro in applicable EPA ( mer or set forth orn mer, such time time inter, such time time tied on the Price Sc ment between HEA are not guaranteed	L'S sole discret ten report of Res TS ONLY, subje d quality assuran LLABILITY AI	warrants only tha 4.3 and 4.4 hered y given by HEAI gives and makes or implied. No 1 y other represen	bility and obligat er in connection to repeating the s refunding in full HEAL'S oblig will be continger	and at the Custon malysis generatin at the Customer's d herein, HEAL s ibility of any kin	s (including but r rential damages) pect to HEAL'S rent shall HEAL l rent shall HEAL l	directly or indire tance beyond the tance shall induc er, acts of orders sputes, natural di zies or delays in t / to obtain from 1 , or any other ca	ths provided by F AL is in no way i ers or third partie	and first other use tomer represents will be preceded	austoma: The Custome further customa: The Custome further any hazardous substance, which any hazardous substance, which will be packaged, jabeled, transp accordance with applicable laws accordance with applicable laws it is understood and agreed that i fu is understood and agreed that i responsibility of the Customer	laboratory byproducts will be re is understood and agreed that H a generator, treater, storer, or di found or identified at a site, and responsibility for the foregoing
1. S.	method compos judgem consiste Standar Upon ti	compry forth in Custom specific specificate indicate agreem	At HEAL'S sole discreton, verbal Results may be g the written report of Results. Stuch verbal Results at RESULTS ONLY, subject to confirmation or chang standard quality assurance review procedures. WARRANTIES, LLABILLITY AND INDEMNIFICATION	HEAL ' Section Warrant HEAL ( Cypress May way	The lia Custom limited HEAL, services sample	HEAL ( Any rea will be a provide respons	damage consequ with res In no ex Custom	results, circums circums custom labor di difficult inability supplice	All resu and HE Custom	detachurdy The cus HEAL	of the p customy haz will be eccorda It is und containt	laboratc is under a genera found o respons
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	, ation of HEAL & f such sample.	io may request la is, and representa aboratory its emp ces schedule, as si ice schedule, as si	n the analysis of id Conditions of ns or amendment ovided in Section	reaction of the subsequences of the subsequences of the subsequences of the subsequences with the subsequences with the subsection of the	and b) an agreen Justomer's delive express assent to ves the right to re umfavorable cust	aon 2.1 is subject	rdance with price Price Schedule, w ice. The Custom placing an order	or invoice by HE. interest and serv- portion thereof f shall be made in L tinclude any sale xes will be added	RVICES or after any revox	to such sample v ave any responsit carrier shipping o	at any time to re any sample which (e, b) unsuitable or be or become un roccessing for any roccessing for any thether or not sud	nethodologies wh tal Protection Agy Id Materials (AS7 Id Materials (AS7 OAC), Standard other recognized eviate from these
	NITIONS "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.	"Clatomer" means the individual or entity who may request laboratory services and his or its hears, successors, assigns, and representatives. HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative. "Proce schedule" means HEAL'S standard price schedule, as stuch, document may be anomed of from inner to how beth Al	"Rsults" mean data generated by HEAL from the analysis of one or more samples. ""Tems and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or an arreated in Section 7.1	The customer may order services by submitting a written purchase order to HEAL, or by bacing a leiphone order, which will be subsequently confirmed a writting, or by negotiated context. Any such order constitutes a) an acceptance by the Customer of HEAL Softer to do business with the	Customer under these l'arms and Conditions. The Customer's delivery of bound by these Terms and Conditions. The Customer's delivery of amplies to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refue to proceed with work at any time based upon an unfavorable customer credit report	Any order placed by the Customer under Section 2.1 is subject to a mutumum cancellation charge of \$250. VI TERMS	Services performed by HEAL will be in accordance with prices quoted and later confirmed in writing or as stared on the Price Schedule, which prices are subject to change periodically writhout notice. The Customer should confirm with HEAL the current price prior to placing an order for work.	resyntant carms are an ownsy norn ure care or invoice or in the AL. All order the payments are subject to an additional intreast and service charge of one and one-half percent (1, 5%) per month or portion thereof from the char date until the date of payment. All payments shall be made in United State carrency. The prices stated on the Price Schodule do not include any sales, use or other axes unless specifically stated. Such taxes will be added to invoice	r of SAMPLES AND DELIVERY OF SERVICES Fiorto HEAL'S Accordance of any sumple (or after any revocation of	Acceptance), the entire risk of loss or damage to such sample will remain with the Customer. In no event will HEAL have any responsibility or liability for the action or inaction of HEAL'S canner shipping or delivering any sample to or from HEAL'S premises.	HEAL reserves the absolute right, exercisable at any time to refuse delivery of, relive to accorp, or revoke shocepatance or, any sample which in the sole judgement of HEAL a) is of turstuitable voltance, b) unsuitable containers as required for the requested analysis, or 6) may be or become unsultable for, or may pose a risk in handling, transport or processing for any health, safey, any increation of the reason, whether or not such presence in his sample of my hazardous substance and whether or not such presence has been disclosed to HEAL by the Customer	Where applicable, HEAL will use analytical methodologics which are in substantial conformity with U.S. Environmental Protocotion Agency (EPA), state agency, American Society for Testing and Materials (ASTM), Association of Official Analytical Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to devate from these methodologies.
	: of a sample" me 'llowing receipt a	"Customer" means the individual or services and his or its hears, success HEAL means Hall Environmental A Servants, agents, and representative. "Proce schedule" means HEAL 'S st document much he annearda from its	can data generate conditions" mea ? Price Schedule, reed to in writhiu	a may order serv lacing a telephon r by negotiated or v the Customer of	ider these Terms are Terms and Ci HEAL constitutes ms and Condition ms and Condition i work at any tim	laced by the Cusi nœllation charge	formed by HEAI ned in writing or change periodic HEAL the curre	ins are ner you day ments are subject half percent (1.5 date of paymen ated on the Price ated on the Price	L'S Acceptance	Acceptance), the entire risk of loss or dar with the Customer. In no event will HEA liability for the action or inaction of HEA any sample to or from HEAL'S premises	HEAL reserves the absolute right, exercisable for (relize to accept, or review A coorgination on, judgement of HEAL a) is of unsuitable volumn required for the requested analysis, or of may required for the requested analysis, or of may or may pose a risk in, handling, transport or p or may pose a risk in, handling, transport or p they rannyle of any hazardous substance and wh has been disclosed to HEAL by the Customer	able, HEAL will onformity with U ornerican Socie of Official Analy on of Water and s. HEAL reserves
	DEFINITIONS "Acceptance with work fo	"Customer" services and HEAL mean servants, age "Price schedi document met	"Results" me sarriples. "Terms and ( including the which are ago	ERS The custome HEAL, by pl un writing, or acceptance b	Customer un bound by the samples to H by these Terr proceed with report	Any order pla munum car PAVMENT TERMS	Services pert later confirm are subject to confirm with Payment term	over due payn over due payn one until the date until the currency. The prices sta other taxes ur	prior in the samples and DELIVERY OF SERVICES Prior to HEAL'S Acceptance of any sample (or after a	Acceptance), with the Cust liability for th any sample to	HEAL reserved, refuse to a of, refuse to a judgement of required for the or may pose a safety, enviro the sample of has been disci	Where applic substantial cc state agency, Association o the examination methodologie
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## **QA/QC SUMMARY REPORT**

Client: Project:

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Blagg Engineering

Project. State GC J #	IA						Wor	k Order: 0610364
Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD Rf	PDLimit Qual
Method: SW8021								
Sample ID: 5ML RB		MBLK			Batch ID:	R21272	Analysis Date:	11/2/2006 8:24:59 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Elhylbenzene	ND	μg/L	1.0					
xylenes, Total	ND	μg/L	3.0					
Sample ID: 100NG BTEX LCS		LCS			Batch ID:	R21272	Analysis Date:	11/2/2006 5:13:35 PM
Benzene	18.71	µg/L	1.0	93.6	85	115		
Toluene	18.92	µg/L	1.0	94.6	85	118		
Ethylbenzene	18.78	μg/L	1.0	91.3	85	116		
Xylenes, Total	37.98	μg/L	3.0	91.3	85	119		
Sample ID: 100NG BTEX LCSD		LCSD			Batch ID:	R21272	Analysis Date:	11/2/2006 5:43:34 PM
Benzene	18.94	µg/L	1.0	94.7	85	115	1.18	27
Toluene	19.35	μg/L	1.0	96.7	85	118	2.23	19
Ethylbenzene	19.05	µg/L	1.0	92.6	85	116	1.45	10
Xylenes, Total	39.18	µg/L	3.0	94.3	85	119	3.11	13

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Snike recovery outside accepted recovery limits 2/3

## Hall Environmental Analysis Laboratory, Inc.

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Sec. 1.

	Sa	mple Receipt Ch	ecklist		
Client Name BLAGG	$\sim$		Date and Time	Received:	10/31/2006
Work Order Number 06103	364		Received by	AT	
Checklist completed by	anure land	Date	iol 31/d6		
Matrix	Carrier n	ame <u>Greyhound</u>			
Shipping container/cooler in	good condition?	Yes 🗹	No 🗌	Not Present	
Custody seals intact on ship	pping container/cooler?	Yes 🗹	No 🗌	Not Present	Not Shipped
Custody seals intact on sam	nple bottles?	Yes 🗌	No 🔽	N/A	
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed wh	en relinquished and received?	Yes 🗹	No 🗌		
Chain of custody agrees wit	h sample labels?	Yes 🗹	No 🗌		
Samples in proper containe	r/bottle?	Yes 🗹	No		
Sample containers intact?		Yes 🗹	No		
Sufficient sample volume fo	r indicated test?	Yes 🗹	No		
All samples received within	holding time?	Yes 🔽	No		
Water - VOA vials have zero	o headspace? No VOA vial	s submitted	Yes 🔽	No 🗌	
Water - pH acceptable upor	n receipt?	Yes	No 🗌	N/A	
Container/Temp Blank temp	perature?	1°	4° C ± 2 Accepta If given sufficient		
COMMENTS:					
Client contacted	Date contacted	: <u></u>	Pers	on contacted	· · · · · · · · · · · · · · · · · · ·
Contacted by:	Regarding				
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Comments:				• •	·
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Corrective Action	<u>.</u>		· · · · · · · · · · · · · · · · · · ·	<b>.</b>	
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### BLAGG ENGINEERING, INC.

#### MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. N/A CHAIN-OF-CUSTODY # : STATE GC J #1A LABORATORY (S) USED : HALL ENVIRONMENTAL UNIT F, SEC. 36, T30N, R9W SAMPLER : NJV Date : July 21, 2007 NJV Filename : 07-21-07.WK4 **PROJECT MANAGER:** SAMPLING CONDUCT VOLUME WELL WELL WATER DEPTH TO TOTAL pH TEMP. # ELEV. ELEV. WATER DEPTH TIME (umhos) (celcius) PURGED (ft) (ft) (ft) (ft) (gal.) 1 103.19 68.34 34.85 40.65 -----2 41.50 102.57 68.27 34.30 1100 6.95 3.50 3,400 19.9 3 101.87 68.08 33.79 40.93 -----4 42.07 102.45 68.07 34.38 1145 6.96 3,500 20.0 1.75 7.00 2,800 **INSTRUMENT CALIBRATIONS =** DATE & TIME = 07/19/07 0630

NOTES: Volume of water purged from well prior to sampling;  $V = pi X r^2 X h X 7.48 gal./ft3) X 3$  (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2.".

Excellent recovery in MW #2, fair in MW #4. Purged MW #4 to total depth, then allowed recovery to approx. 35.00 ft. prior to sampling. Collected BTEX samples from MW #2 & #4 only.

Top of casing MW #1 ~ 2.30 ft., MW #2 ~ 3.00 ft., MW #3 ~ 2.40 ft., MW #4 ~ 2.60 ft. above grade.

Lab ID:	0707305-01			<b>Collection Date:</b>	7/21/200	7 11:00:00 AM
Client Sample ID:	MW #2			Matrix:	AQUEO	US
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021	<b>B: VOLATILES</b>					Analyst: NSB
Benzene		ND	1.0	µg/L	1	7/28/2007 2:45:13 AM
Toluene		ND	1.0	µg/L	1	7/28/2007 2:45:13 AM
Ethylbenzene		ND	1.0	hð\r	1	7/28/2007 2:45:13 AM
Xylenes, Total		ND	2.0	µg/L	1	7/28/2007 2:45:13 AM
Surr: 4-Bromofluo	robenzene	105	70.2-105	%REC	1	7/28/2007 2:45:13 AM
Lab ID:	0707305-02			Collection Date:	7/21/200	)7 11:45:00 AM
<b>Client Sample ID:</b>	MW #4			Matrix:	AQUEO	US
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021	IB: VOLATILES					Analyst: NSB

1.0

1.0

1.0

2.0

S

70.2-105

µg/L

µg/L

µg/L

µg/L

%REC

ND

ND

ND

ND

105

### Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering

State GC J #1A

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Lab Order: 0707305

7/28/2007 3:15:03 AM

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Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- 1/3S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

CLIENT:

Project:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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	The Customer shall indemuty and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, labilities, expenses, payments, laxes, duties, fines and/or other costs (including but not limited to liability to a third party) arising out of a) the presence of hazardous	substances in any sample of the Customer regerades of the Customer s compliance with paragraph 5.5 hereof b) accidents coarding during the transport of any sample of the Customer, of events control, or d) negligence	by the Customer in the use, evaluation, or application of Results provided by HEAL.	Should any Customer sample, due to its matrix or constituents of its matrix, cause the operations of any HE.A.L instrummatizion to be reduced, stopped, or altered, HE.A.L is entitled to compensation by the Customer for any loss of	revenue due to the instrument's downitme, and/or the parts and labor necessary to bring the instruments back to its former operating condition. The amount of compensation is negotiable upon acceptance of these Terms	uting the	A GREEMENT: SEVERABIL/ITY These Terms and Conditions, together with any additions or revisions which may be arread to in writing by HEAL as provided in Section 7.1, embodiaed	the whole agreement of the party as There are no promises, terms, the whole agreement of the party as There are no promises, terms, conditions, understandings, obligations or agreements other than those contained heren, unless made in accordance with Section 71; and these	Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the	Customer and HEAL. HEAL specifically repeats all additional, inconsister or conflicting terms, which granided to otherwise set forth in any purchase order or other communication from the Customer to HEAL.	of any provision, terr	or condition here of shall not affect in any way the validity or an forceability of the remainder of the Terms and Conditions, the intent of the parties being			rizzzi situati no ue suujeda to on bound ofy any provision, tant or contunon. which is in addition to or inconsistent or conflicting with these Terms and conditions. HEAL shall not be deemed to have amended or waived and	provision. The more condition of have given any required consent or approval, or to have ward any breach by the Clustomer of any of these Terms and	Conditions unless specifically, set forth in writing and executed on biblial of the test of test o	representatives or ritz.r	ant, approval or	No waiver by HEAL of any provision, term or condition hereof or of any breach by or obligation of the Customer becauder shall constitute a waiver	of such provision, term or condition on any other occasion or a waive of any other breach by or obligation of the Customer.		Bulk samples will be retained for thirty (30) days after the analytical report has been issued unless alternate arrangements have been made in advance. Storger periods is by request only. Sample	s some character organization and organization and and and and and and and and and an	may be returned at the client's expense. Maternals, which are identified as hazardous, will be returned to the client or disposed of a hazardous waste and billed viscourse for some the client of the some some some some some some some som	erves utchight to		The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way These		These Terms and Conditions, and transaction or agreement, to which they apply, shall be governed both as to interpretation and performance by the laws of the State of New Mexico.	
	d harmless HEAI lamages, losses, l her costs (includ a) the presence o	ner regardless of b) accidents occu a, c) events cont	or application o	s matrix or const rumentation to b sation by the Cu	ime, and/or the p k to its former op able upon accept	umstances warra	with any additio as provided in Se	There are no promises, terms, ons or agreements other than t cordance with Section 7 1, and	all previous com cerbal or written,	ally rejects all ad r otherwise set fo e Customer to HE	whole or in part o	ny way the valid ditions, the inter			or conflicting with or conflicting with of to have amend	iven any required ustomer of any o	o other employee	ions in any man	, variation, conse	term or conditio	i arry other occas e Customer.		<ul> <li>(30) days after ements have bee er periods is by I</li> </ul>	aduration and ile, per month wi f requested, unus	<ul> <li>Materials, whi it or disposed of up of a up of another</li> </ul>	ipter rich to the client.		nd Conditions ar me, limit or affec	. 211012	saction of agreen	
	demuify and hold is, judgements, d s, fines and/or oth /) arising out of a	ple of the Custon raph 5.5 h <del>er</del> eof t e of the Custome	: use, evaluation,	sample, due to its f any HEAL instr titled to compeny	rument's downti instruments back rsation is negotia	e individual circa	TERABILITY ditions, together <sup>1</sup> niting by HEAL a	f the parties. Th ings, obligations is made in accord	shall supersede : cements, either v	HEAL specification thether printed of vication from the	forceability in w	all not affect in a e Terms and Con	severable.	ERS incl is arithmed	or inconsistent of all not be deeme	dition, or have gr	afficially set forth orized officer No	arms and Condition	aver, and nEAL letion, alteration,	of any provision, n of the Custome	obligation of the		etained for thirty alternate arrange extracts for longe	d upon surfage re f \$5.00 per samp ents are made. If	diant's expense uned to the dian	ins/dibenzofuran		of these Terms at and shall not defi	or wer merpre	ditions, and trans ed both as to inte ew Mexico.	
	The Customer shall indemnify and hold harmless HEAL from and ; any and all claims, suits, judgements, damages, losses, labilities, co payments, laxes, duties, fines and/or other costs (including but not liability to a third party) arising out of a) the presence of hazardous	substances in any sample of the Customer regardless of the Customer 4 compliance with paragraph 5.5 hereof b) accidents occurring during the transport of any sample of the Customer, c) events control, or 01 negligi	e Customer in the L.	ld any Customer the operations o ared, HEAL is en	ue due to the inst sary to bring the mount of compe	and Conditions and the individual circumstances warranting the reimbursement.	ENTIRE AGREEMENT: SEVERABILITY These Terms and Conditions, togethe may be agreed to in writing by HEch	the whole agreement of the patter conditions, understandings, obligati contained hean, unless made in ac	Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the	Customer and HEAL. HEAL specifically rejects all addition or conflicting terms, whether printed or otherwise set forth order or other communication from the Customer to HEAL	nvalidity or unen	ndition hereof sh	that the provisions be severable.	AMENDMENTS AND WAIVERS	the struct new too sure the sure addition to litions. HEAL sh	sion, term or con have waived any	itions unless spea L by a duly autho	ry any of these To	כטוססו, פועוניים אי אפורט, אייני אייני אייניסרוכל פלמנוסה, לפלמסה, פורפינוסה, אורפינוסה, אייניפונוסה, כסופסו, פועוסטיא טר אפועים:	aiver by HEAL of the by or obligation	cher breach by or	RAGE	samples will be r cen issued unless ge of samples or	so dange der o Iple storage fee o s other arrangern	be returned at the dous, will be retuined dous of the rule of	and younds at the rate of \$22.500 per sampler. Although the chient of the chient.	ADING	ection headings entent reference a	I ETTINS BUILD CONTINUOUS OF UNET INTERPRESSUONS. RNING LAW	e Terms and Con , shall be govern of the State of Ne	
		subsu comp transf	by the HEAL.	Shoul cause or alte	reven neces The a	and C reimb	ENTIRE	the w condi	Term	Custo or cor order			that t	AMEND		provi	Cond HEA		purpor purpor waiver		of sur	SAMPLE STORAGE		a sam unles	may hazar hazar	return	SECTION HEADING		GOVE		
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The second	ие of onable e on a basis HEAL'S	efforts to	me lumits as set squested by the dess	EAL and the specifically a written	umaround	in advance of NTATIVE ed on HEAL'S		ns set forth in exclusive vices, and	ity of any kind, ized to give or	warranty in any	of the HEAL will be	option of mer for such	respect to any t the request of	ole if necessary. ginal Results	or or other	t, incidental or v of a kind		y to the L, which	y dauge of Juch cause and God, acts of ikes or other	putes, avices,	rvices or control.	s Custom <b>er</b> s, sults by	ed in their ation,	livered to tten disclosure	spected by the e containing	erly and in	of materials		a unsposal. It sportsibility as, de substances	sume the	
	methodologics, if necessary or appropriate due to the nature of composition of the sample or otherwise based on the reasonable judgement of HEAL, which deviation, if any will be made on a basis consistent with recognized standards of industry and or HEAL'S	oututetu Operaturg rroccource. Upon timely delivery of samples, HEAL will use its best efforts to	comply with storage, processing and analytical holding time limits as set forth in applicable EPA or state guidelines or otherwise requested by the Customer or set forth on the Price Schedule. However, unless	specifically made part of a written agreement between HEAL and the Customer, such time limits cannot be guaranteed. Unless specifically indicated on the Price Schedule or expressly made part of a written	agreement between HEAL and the Customer, analytical turnaround times are not guaranteed	At HEAL'S sole discretion, verbal Results may be given in advance of the written report of Results. Such verbal Results are TENTATIVE RESULTS ONLY, subject to confirmation or change based on HEAL'S	dures. FICATION	HEAL warrants only that its services will fulfill obligations set forth in Section 4.3 and 4.4 hereof. This warranty is the sole and exclusive warranty riven by HEAL in connection with any studi services, and	HEAL gives and makes no other representation or warranty of any kind, express or implied No representative of HEAL is authorized to give or	make any other repr≪entation or warranty or moduly the warranty in any way.	The liability and obligations of HEAL, and the remedies of the Customer in connection with any services performed by HEAL will be	ied or, at the sole aid by the Custor	services. HEAL S obligation to repeat any services with respect to any sample will be contingent on the Customer's providing, at the request of	HEAL and at the Customer's expense, an additional sample if necessar Any resulty is generating Results consistent with the of high al Results will be of the Customer's expense.	will be a une custorine a serpera. Except us outer whe speaturaup provided mean. HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, ergenses, or other	damages (including but not limited to any special, indiced, incidental or consequential damages for any representation or warranty of a kind	with respect to HEAL'S Services or Results.	ut no overtished in EAL nave any texponenting of deputy to the Customer for any failure or delay in performance by HEAL, which results finded to a infraedy in a shole or is not from any source or	revense, unexory to munexory, in whore or in part, to that any subset of circumstance beyond the reasonable control of HEAL. Such cause and circumstance shall include, but not be fimited to, acts of God, acts of Customer, acts of orders of any government authority, strikes or other	labor disputes, natural disasters, accidents, wars, civil disputes, difficultice or delays in transportation, mail or delivery services.	inability to obtain from HEAL usual sources sufficient services of supplies, or any other cause beyond HEAL'S reasonable control.	All results provided by HEAL are strictly for the use of its Customers, and HEAL is in no way responsible for the use of such results by	Customers or third parties. All results should be considered in entirety, and HEAL is in no way responsible for the separation, detachment, or other use of any portion of the results.	The customer represents and warrants that any sample delivered to HEAL will be proceeded or accompanied by complete written disclosure	of the presence of any hazardous substances known of subpected by the customer. The Customer further evarants that any sample containing such teachers of the Advisord of the	any memory successfully fransported and delivered property and in will be packaged, labeled, transported and delivered property and in accordance with applicable laws.	It is undestood and arread that all samples and cuttings of materials	containing hazardous contaminants are the property and the responsibility of the Customer. All contaminated temples and helperocher mill be contaminated to the Customer for the temperature of the customer with the customer set of the customer set	a moratory by pyrounder who extends to the Customa and the approximation of the second and agreed that HEAL is not, and has no responsibility as a generator, treater, store, or dispose of hazardous or toxic substances as	tound of identified at a sits, and the Customer agrees to assume the responsibility for the foregoing.	
	ssary or approprie pple or otherwise hich deviation, il zed standards of	rocource. f samples, HEAL	rocessing and and or state guidelin in the Price Schee	of a written agree nits cannot be gu schedule or expre	AL and the Cust d	tion, verbal Resu suits Such verb ject to confirmati	standard quality assurance review procedures. WARRANTIES, LIABILITY AND INDEMNIFICATION	tat its services wi cof. This warran AL in connection	s no other representative o	ritation of warran	ations of HEAL, a with any service	services perform I or in part fees p	gation to repeat a	mer's expense, a ing Results consi its expense, Even	s expense. Exer shall have no lia nd for any losses.	not limited to an	with respect to HEAL'S Service or Reuts. In no event shall HEAL have any removability	e or delay in perform	eduy, in whole of the reasonable con ude, but not be lin s of any governm	tisasters, acciden transportation, m	HEAL usual sou ause beyond HE	HEAL are strictly responsible for t	Customers or third parties. All results should be corre- entirety, and HEAL is in no way responsible for the s detachment, or other use of any portion of the results.	The customer represents and warrants that any HEAL will be preceded or accompanied by cor	azardous substan er further warran e which is to he	ed, transported ar able laws.	reed that all samn	ontarrinants are t stomer. All cont	with the HEAL is n with the HEAL is n ret, or disposer of	site, and the Cus regoing.	
N. A.	dologies, if nece osition of the sam ment of HEAL, w itent with recogni-	Upon timely delivery of sample	ly with storage, pi n applicable EPA mer or set forth o	ically made part ( mer, such time lir ted on the Price S	agreament between HEA times are not guaranteed	LAL'S sole discre itten report of Re ILTS ONLY, sub	urd quality assura S, LIABILITY /	, warrants only th n 4.3 and 4.4 her nty given by HEA	gives and make is or implied No	any other represe	ability and obligation	d to repeating the , refunding in ful	es. HEAL'S obli e will be continge	, and at the Custo canalysis generation of the Customer	ed herein, HEAL sibility of any ki	tes (including but tuential damages	spect to HEAL'	mer for any failur directly or india	, uncerty of intuition istance beyond the istance shall inclument mer, acts of order	disputes, natural o thes or delays in	ty to obtain from as, or any other o	tults provided by EAL is in no way	meers or third part y, and HEAL is i ment, or other us	istomer represent will be preceded	presence of any I ner. The Custom crattone substance	will be packaged, labeled, transf accordance with applicable laws	iderstood and agr	ning hazardous o sibility of the Cu	erstood and agree rator, treater, stol	or identified at a sibility for the fo	
states.	ompo piudga consis	Upon	comp forth i Custo	specif Custo indica	agree times	At HE the wr RESU	standz WARRANTIE:	HEAL Sectio warrar	HEAL	таке way.	The L Custo	HEAL	servio sampl	HEAL Any n Will by	provid	damag	with re	Custo	araun araun Custor	labor o difficu	inabili suppli	All res and H	Custo entiret detach	The α HEAL	of the custom	will be	lt is ur	respon	a conta la genera la genera	lound	
A.L. M.		44				4.5	Ś	51			5.2						5	0				5.4		5.5			5.6				
王文詞		to proceed	laboratory ntativ⇔.	nployϲ,	such,	f one or more	if sale, nts hereto on 7.1		chase order to mily confirmed	utes a) an with the	ament to be very of	to be governed refuse to	stomer creat	ct to a		cs quoted and	which prices mer should # for work.	EAL. All	rvice charge of f from the due i United State		les, use or ed to invoice		ocation of : will remain ibility or	ç or delivering	refuse delivery ich in the sole	: containers as ursuitable for, hautt	ty treatur,	की presence	vhich are in gency (EPA), sTM0	d Methods for d	
		unation of HEAL of such sample.	who may request grs, and represen	Laboratory its en	price schedule, as ne by HEAL.	om the analysis o	and Conditions o ions or amendme provided in Secti		ting a written pur will he subsemie	uch order constitues	s, and b) an agree Customer's deliv	's express assent t arves the right to r	un untavorable cu	ction 2.1 is subje		ordance with pric	e Price Schedule, otice. The Custoi o placing an orde	e of invoice by HI	al interest and ser or portion thereof s shall be made in	-	iot include any sa taxes will be adde	ERVICES	(or after any revo ge to such sample have any respons	S carrier shipping	le at any time to r r, any sample whi	me, b) unsuitable y be or become u	histocontrol to the to the	whether or not su ar	methodologies water Intal Protection Au and Materials (A S	AOAC), Standar n other recognize deviate from thes	
1. Carlor		means the determ t and inspection	vidual or entity v , successors, assi	unental Analysis eentative.	EAL'S standard p from time to tim	ated by HEAL fit	ean these Terms le, and any additi ing by HEAL as		rvices by submit	contract. Any s a of HEAL'S off	ts and Conditions Conditions The	es the Customer ions. HEAL rese	une pased upon a	istomer under Se ge of \$250.		AL will be in acc	of as stated on the dically without no rient price prior t	ays from the date	ed to an addition 5%) per month ( ent. All payments		ce Schedule do n Ily stated. Such i	LIVERY OF SI	ce of any sample of loss or damage vent will HEAL l	action of HEAL' L'S premises.	e right, exercisabl ke Acceptance of	f unsuitable volu nalysis, or c) may ling transport of	her reason, wheth	is substance and v L by the Custome	ill use analytical U.S. Environme detv for Testing a	lytical Chemist ( nd Wastewater, o rves the right to	
1990 A.		"Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.	"Custome" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.	HEAL means Hall Environmental Analysis Laboratory is employees. servarits, agents, and representative.	"Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.	"Results" mean data generated by HEAL from the analysis of one or more samples.	"Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments her which are agreed to in writing by HEAL as provided in Section 7.1		The customer may order services by submitting a written purchase order to HEAL, by plactmo a television order which will be subsequently confirmed	In writing, or by negobated contract. Any such order constitutes by a completion of the Customer of HEAL'S offer to do business with the	Customer under these i erms and Condutons, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of	sumples to HEAL constitutes the Customer's express assent to be governed by these Terms and Conditions. HEAL reserves the right to refuse to recover interview of the second seco	process with work at any une based upon an unavorable customer	Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of \$250.	S	Services performed by HEAL will be in accordance with prices quoted and	later contamed in writing or as tated on the Prace Scheduld, which prices are subject to change periodically without notice. The Customer abould confirm with HEAL the current price prior to placing an order for work.	Payment terms are net 30 days from the date of invoice by HEAL.	over due payments are subject to an additional interest and service charge of one and one-hail percent (1.5%) per month or portion thereof from the due date until the date of payment. All payments shall be made in United State or memory.		The prrow stated on the Prrow Schedule do not include any sales, use or other taxes unless speedfoally stated. Such taxes will be added to invoice proce when required.	RECEIPT OF SAMPLES AND DELIVERY OF SERVICES	Prior to HEAL'S Acceptance of any stample (or after any revocation of Acceptance), the entire risk of loss or damage to such sample will remain with the Custonner. In no event will HEAL have any responsibility or	liability for the action or inaction of HEA any sample to or from HEAL'S premises	HEAL reserves the absolute right, exercisable at any time to refuse delivery of refuse to accept, or revoke Acceptance or, any sample which in the sole	judgement of HEAL a) is of unsuitable volume, b) unsuitable containers as required for the requested analysis, or c) may be or become unsuitable for, or may note a rick in handling transmers or necessing for one while	of they proceed any nationary, can prove of processing for any result, assiery, environmental or other reason, whether or not due to the presence in	the sample of any hazardow substance and wi has been disclosed to HEAL by the Customer	Whate applicable, HEAL will use analytical methodologies which are substantial conformity with U.S. Environmental Protection Agency (E state assency. American Storety for Testino and Materials (A STTM)	Association of Official Analytical Chemist (AOAC), Standard Methods for the scamination of Water and Wasterwater, or other recognized methodologics. HEAL reserves the right to deviate from these	
	DEFINITIONS	" Acceptan with work	"Custome services an	HEAL me servants, a	"Price sch	"Results" r samples.	"Terms an including t which are	ORDERS	The custor HEAL, hv	un writing, acceptance	bound by t	by these T	report.	Any order minimum	PAYMENT TERMS	Services pr	later contr are subject confirm wi	Payment te	overdue pa one and on date until ti currenty	currancy T	The prices other taxes prices whe	CEIPT OF SAM	Prior to HI Acceptance with the Cu	liability fo any sample	HEAL rese of refuse to	judgement required fo	safety, env	the sample has been d	Whate app substantial state acenc	Association the examin methodolog	
\$\$.5 M		•	1 7	1.3	14	Σ.	9.1	2. ORI	2.1					1.1	J. PA	3.1		32			5.5	4. REC	4		4.2				4.3		

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## **QA/QC SUMMARY REPORT**

が見		Blagg Engineering State GC J #1A						Work	<b>Order:</b> 0707305
言語	Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP(	DLimit Qual
、要認し	Method: SW8021 Sample ID: 5ML RB		MBLK			Batch I	D: <b>R24556</b>	Analysis Date:	7/27/2007 9 <sup>-</sup> 15:11 AM
636	Benzene	ND	µg/L	1.0					
	Toluene	ND	µg/L	1.0					
(34,20	Ethylbenzene	ND	µg/L	1.0					
8	Xylenes, Total	ND	µg/L	2.0					
	Sample ID: 100NG B	STEX LCS	LCS			Batch I	D: R24556	Analysis Date:	7/27/2007 1:04:28 PM
3	Benzene	21.25	µg/L	1.0	106	85.9	113		
100	Toluene	21.71	µg/L	1.0	109	86.4	113		
	Ethylbenzene	22.05	µg/L	1.0	110	83.5	118		
1.50	Xylenes, Total	67.14	µg/L	2.0	112	83.4	122		

#### Qualifiers:

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Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

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- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
  - $\frac{1}{2}$  /  $\frac{1}{3}$

1. E. B.

all and	Sa	imple Receipt Ch	ecklist			
	Client Name BLAGG	Date and Time	Received:	7/24/2007		
and the second	Work Order Number 0707305	1 1	Received by	ARS		
W. Ng Sta	Checklist completed by Signature	7,24,10 Date	F1			
	Matrix Carrier r	name <u>UPS</u>				
the leave	Shipping container/cooler in good condition?	Yes 🗹		Not Present		
	Custody seals intact on shipping container/cooler?	Yes 🗹	No	Not Present	Not Shipped	
Ret	Custody seals intact on sample bottles?	Yes	No 🗌	N/A		
1	Chain of custody present?	Yes 🗹	No 🗌			
States -	Chain of custody signed when relinquished and received?	Yes 🗹	No 🛄			
<b>6</b> 33	Chain of custody agrees with sample labels?	Yes 🔽	No 🗌			
	Samples in proper container/bottle?	Yes 🗹	No 🗔			
_	Sample containers intact?	Yes 🗹	No 🗔			
1911 (M	Sufficient sample volume for indicated test?	Yes 🗹	No 🗌			
	All samples received within holding time?	Yes 🗹	No 🗔			
Sec.	Water - VOA vials have zero headspace? No VOA vial		Yes	No 🗌		
18. 1	Water - Preservation labels on bottle and cap match?	Yes 🗹 Yes 🗹	No 🗌	N/A [_]		
のない	Water - pH acceptable upon receipt?	Yes ⊻ 4°	No 🗌 4° C ± 2 Accepta	N/A		
	Container/Temp Blank temperature?					
	COMMENTS:					
and the second	· · · · · · · ·				· · · · · ·	
	Client contacted Date contacte	ed:	Pers	on contacted	··· ··	
	Contacted by: Regarding					
A MARK	Comments:					
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<b>A</b> 120	·····	. <del>.</del>			· · · ·	
大林福	Corrective Action		· · · · · · · · · · · · · · · · · · ·	•		
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		- 4			······································	
		3/3				

### BLAGG ENGINEERING, INC.

#### MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY # : N/A LABORATORY (S) USED : HALL ENVIRONMENTAL STATE GC J #1A UNIT F, SEC. 36, T30N, R9W Date : October 10, 2007 SAMPLER : NJV Filename : 10-10-07.WK4 **PROJECT MANAGER:** NJV CONDUCT VOLUME WELL WELL WATER DEPTH TO TOTAL SAMPLING рH TEMP. DEPTH PURGED # ELEV. ELEV. WATER TIME (umhos) (celcius) (ft) (ft) (ft) (ft) (gal.) 1 67.58 35.61 40.65 103.19 -----2 3,700 3.25 67.50 35.07 41.50 1520 6.87 20.5 102.57 3 34.40 40.93 1450 101.87 67.47 6.91 3,900 20.5 3.25 4 42.07 1420 6.91 4.000 1.50 102.45 67.43 35.02 21.2 7.00 2,800 **INSTRUMENT CALIBRATIONS =** 

NOTES: <u>Volume of water purged from well prior to sampling</u>;  $V = pi X r_2 X h X 7.48 gal./ft3$ ) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

DATE & TIME ≈

Ideally a minimum of three (3) wellbore volumes:

1.5.5 Ew

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2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #2, MW #3, fair in MW #4. Purged MW #4 to total depth, then allowed recovery near original static water level prior to sampling. Collected BTEX samples from MW #2, #3, & #4.

10/09/07

1145

Top of casing MW #1 ~ 2.30 ft., MW #2 ~ 3.00 ft., MW #3 ~ 2.40 ft., MW #4 ~ 2.60 ft. above grade.

CLIENT: Project:	Blagg Engineering STATE GC J #1A				La	b Orde	r: 0710249
Lab ID:	0710249-01			0	Collection Date:	10/10/2	2007 3:20:00 PM
Client Sample ID	: MW #2				Matrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 80	21B: VOLATILES						Analyst: NSE
Benzene		ND	1.0		µg/L	1	10/13/2007 6:27:38 AN
Toluene		ND	1.0		µg/L	1	10/13/2007 6:27:38 AN
Ethylbenzene		ND	1.0		µg/L	1	10/13/2007 6:27:38 AM
Xylenes, Total		ND	2.0		µg/L	1	10/13/2007 6:27:38 AN
Surr: 4-Bromoflu	Jorobenzene	87.8	70.2-105		%REC	1	10/13/2007 6:27:38 AN
Lab ID:	0710249-02			C	Collection Date:	10/10/2	2007 2:50:00 PM
Client Sample ID	: MW #3				Matrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 80	21B: VOLATILES						Analyst: NSE
Benzene		ND	1.0		µg/L	1	10/13/2007 7:27:29 AN
Toluene		ND	1.0		µg/L	1	10/13/2007 7:27:29 AN
Ethylbenzene		ND	1.0		µg/L	1	10/13/2007 7:27:29 AN
Xylenes, Total		ND	2.0		µg/L	1	10/13/2007 7:27:29 AN
Surr: 4-Bromoflu	orobenzene	90.3	70.2-105		%REC	1	10/13/2007 7:27:29 AN
Lab ID:	0710249-03			C	Collection Date:	10/10/2	2007 2:20:00 PM
Client Sample ID	: MW #4				Matrix:	AQUE	OUS
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 80	21B: VOLATILES						Analyst: NS
Benzene		ND	1.0		µg/L	1	10/13/2007 8:27:07 AM
Toluene		ND	1.0		µg/L	1	10/13/2007 8:27:07 AN
Ethylbenzene		ND	1.0		µg/L	1	10/13/2007 8:27:07 AN
Xylenes, Total		ND	2.0		µg/L	1	10/13/2007 8:27:07 AN
Surr: 4-Bromoflu	lorobenzene	86.8	70.2-105		%REC	1	10/13/2007 8:27:07 AM

Qualifiers:

\* Value exceeds Maximum Contaminant Level

Е Value above quantitation range

J Analyte detected below quantitation limits

- Not Detected at the Reporting Limit ND
- S Spike recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

Reporting Limit RL

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	4901 Hawkins NE, Suite D Albrinierarie New Mexico 87109	Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com			85)	2, pO <sub>4</sub> ,	/ bCB // bCB // H)	, NO, IC Sebioic AOV-in	(Meth A 8 Md A 8	EDC 831( 808 808 826 826 826 826 826 826 826 826 827 827 827 828							
QA / GC Package: Std 🗖 Level 4 🗖	Other:	1	Project #:		n0 ən	əi()/se ilose 08) <del>s.(</del>	5) 85 HdT	+ 38I	Preservative	Hd1		2-40m// 2 V	3-40m/ 3 1				Repeived By: (Signature) 10/11/07 Remarks: MM_000ML 1001 Received By: (Signature)
	CHAIN-UF-CUSIUUT RECURD	Client: BLAGG ENER. / BP AMERICA	Address. P.O. BOX	BLFD. NM 87413			Phone #: 632 - 1199	Fax #:		Date lime Matrix Sample I.D. No.	10/10/07/520 WATER MW # 2	10/07 1450 WATER MW # 3	1 4 1420 MATER MW # 4				Date:     Time:     Relinquished BC (Signature)       / 2//3 > 7 / 6 / D     / // // // // // // // // // // // // /

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# **QA/QC SUMMARY REPOR**

No. **Client:** 

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**Blagg Engineering** 

	Project: STATE GC .	#1A						Woi	rk Order: 0710249
<b>*</b>	Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD R	PDLimit Qual
	Method: SW8021							· · · · .	
-	Sample ID: 5ML RB		MBLK			Batch ID	R25551	Analysis Date:	10/12/2007 10:24:23 AM
	Benzene	ND	µg/L	1.0					
	Toluene	ND	µg/L	1.0					
iلله ا	Ethylbenzene	ND	µg/L	1.0					
	Xylenes, Totai	ND	µg/L	2.0					
	Sample ID: 100NG BTEX LCS		LCS			Batch ID:	R25551	Analysis Date:	10/12/2007 12:54:50 PM
	Benzene	19.63	µg/L	1.0	98.2	85.9	113		
	Toluene	18.95	µg/L	1.0	94.8	86.4	113		
	Ethylbenzene	18.80	µg/L	1.0	94.0	83.5	118		
6 ha back	Xylenes, Total	55.71	µg/L	2.0	92.9	83.4	122		
	Sample ID: 100NG BTEX LCSD		LCSD			Batch ID:	R25551	Analysis Date:	10/13/2007 12:12:27 PM
	Benzene	20.51	µg/L	1.0	103	85.9	113	4.39	27
Name of	Toluene	19.23	µg/L	1.0	96.2	86.4	113	1.46	19
	Ethylbenzene	19.41	µg/L	1.0	97.1	83.5	118	3.18	10
8 <u>5</u>	Xylenes, Total	57.77	µg/L	2.0	96.3	83.4	122	3.62	13

#### Qualifiers:

Е Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit

2

S Spike recovery outside accepted recovery limits

Н Holding times for preparation or analysis exceeded

構成	Hall Environmental Analysis La	boratory, Inc.						
-		Sample	Rece	eipt Ch	ecklist			
i i i i i i i i i i i i i i i i i i i	Client Name BLAGG				Date and Time	Received:	10/	1/2007
	Work Order Number 0710249	N.		Received by	TLS			
14. A.	Checklist completed b	<u>X</u>		Olli Date	)07			
	Matrix	Carrier name	UPS					
all and a	Shipping container/cooler in good condition?		Yes	V	No 🗔	Not Present		
	Custody seals intact on shipping container/cool	er?	Yes	$\checkmark$	Νο	Not Present	Not Shipped	
	Custody seals intact on sample bottles?		Yes		No 🗔	N/A		
	Chain of custody present?		Yes		No 🗌			
_	Chain of custody signed when relinquished and	received?	Yes		No 🗌			
	Chain of custody agrees with sample labels?		Yes		No 🗌			
۵	Samples in proper container/bottle?		Yes		No 🗌			
	Sample containers intact?		Yes		No			
S	Sufficient sample volume for indicated test?		Yes		No 🗌			
the second second	All samples received within holding time?		Yes		No			
	Water - VOA vials have zero headspace?	No VOA vials subm	nitted		Yes 🗹	No 🗔		
	Water - Preservation labels on bottle and cap m	atch?	Yes		No 🗌	N/A 🗹		
dim et	Water - pH acceptable upon receipt?		Yes		No 🗔	N/A 🗹		
	Container/Temp Blank temperature?		1	5°	4° C ± 2 Accepta	able		
S. California	COMMENTS:			-	If given sufficient	t time to cool.		
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19. Ang 19. An								
ě.	Client contacted	Date contacted:			Pers	on contacted		
18 3.3 Me	Contacted by:	Regarding						
	Comments:	,						
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	Corrective Action	· · · · · · · · · · · · · · · · · · ·						
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