3R - 018

MONITORING REPORTS

01/30/2008

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

January 30, 2008

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. & BP Amoco)
Groundwater Monitoring Report
GCU # 165, Unit H, Sec. 29, T28N, R12W, NMPM
San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-18-0

Dear Mr. Von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the GCU # 165.

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.

Nelson J. Velez
Staff Geologist

Attachment: Groundwater Report (2 copies)

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

NJV/njv GCU 165 01-30-08 CVL.DOC

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

2006-2007

GCU #165
(H) SECTION 29, T28N, R12W, 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
GCU #165
Se/4 Ne/4, Sec. 29, T28N, R12W

Historical Information:

Pit Closure Dates:	April/May, 1995
Monitor Well Installation Dates:	July 2006
Reclamation Procedures:	Excavation (April/May, 1995)
Monitor Well Sampling Dates:	08/03/06; 10/30/06; 01/24/07; 05/08/07; 08/15/07; 10/25/07

Groundwater was encountered at a depth of approximately 15 feet below surface grade during excavation of impacted soils from a separator pit in April/May, 1995 (documentation attached). The excavation perimeter was measured at approximately 40 X 40 X 16 feet depth. Approximately 900 cubic yards of soils were removed and approximately 1/3 landfarmed on-site. Approximately 1/3 was transported to each of BP's (formerly called Amoco Production Company) GCU #165E (Unit P, Sec. 29, T28N, R12W) and GCU 191 (Unit P, Sec. 32, T28N, R12W) well sites. The groundwater within the excavation perimeter was pumped via water hauling trucks and disposed at an approved facility. Afterwards, the exposed groundwater was sampled and tested for benzene, toluene, ethylbenzene, and total xylenes (**BTEX**) per US EPA method 8020. Subsequent sampling of the groundwater was conducted on four (4) more occasions, with the last event recording BTEX results below the New Mexico Water Quality Control Commission (**NMWQCC**) standards. The pit closure data was submitted to the New Mexico Oil Conservation Division (**NMOCD**) with letter dated May 3, 1996. NMOCD responded with letter dated July, 2, 1996 denying closure based on results exceeding the NMWQCC standards. The BTEX results of the groundwater sampling from the excavation are as follows;

Sample ID	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
Pit Water	04/12/95	**916**	**2,140**	205	**2,993**
Pit Water	04/17/95	**84.2**	368	36.4	467.1
Pit Water	04/20/95	**43.7**	212	11.9	265.8
Pit Water	04/25/95	**19.8**	180	11.5	251.9
Pit Water	05/01/95	2.5	2.0	5.5	159.7
NMWQCC regulatory standards		**10**	**750**	**750**	**620**

Note: NMWQCC = New Mexico Water Quality Control Commission, ppb = parts per billion.

Groundwater Investigation and Soil Lithology:

Groundwater monitor wells were installed in July, 2006 to test groundwater quality (see Figure 1). Boring logs for all three (3) monitor wells along with well completion information are contained within this report. There are no known receptors impacted by the previous discovery of impacted soil and/or groundwater.

Soil lithology at the site consists of primarily coarse grained sand of varying color, non cohesive, and firm. A friable, soft to hard bedrock sandstone was encountered within all borings at depths between 16-20 feet below grade. Medium gray discolored sand with an apparent strong hydrocarbon odor was observed from the drill cuttings at an estimated 9-16 feet below grade within the source area boring only. Results of soil samples collected from the boring advancements with a split spoon sampler at ten (10) feet below grade are noted on the Bore/Test Hole Reports and laboratory reports included within Appendix A.

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:

Quarterly groundwater monitor well sampling was initiated in August, 2006. Summary of laboratory BTEX and general water chemistry analytical results are included in the table on the following pages. The data indicates all BTEX constituents tested below NMWQCC standards for four (4) consecutive sampling events within the source and down gradient areas.

Groundwater contour maps of relative water table elevations for all sample events are included (Figures 2 and 7). The general groundwater flow direction has consistently been in a northwest direction toward MW #3.

Summary and Recommendations:

Hydrocarbon impacted soil and groundwater at the site appear to have been remediated via excavation of impacted soils. All site wells meet NMWQCC standards 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.

GCU # 165
UNIT H, SEC. 29, T28N, R12W

REVISED DATE: January 26, 2008

FILENAME: (165-4Q07.WK4) NJV

								BTEX EPA METHOD 8021B (ppb)			
SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	Benzene	Toluene	Ethyl Benzene	Total Xylene
03-Aug-06	MW #1	13.92	24.00	1,050	1,500	7.10		ND	ND	ND	ND
03-Aug-06	MW #2	11.71	24.00	944	1,400	7.26		**88**	ND	16	72
30-Oct-06		11.36			1,400	7.37		**57**	ND	6.2	34
24-Jan-07		11.09			1,300	7.41		**6.0**	ND	7.1	55
08-May-07		11.22			1,200	7.41		**1.6**	ND	9.8	120
15-Aug-07		11.82			1,400	7.30		**5.2**	ND	3.8	54
25-Oct-07		11.90			1,500	7.39		**ND**	ND	1.5	83
03-Aug-06	MW #3	14.94	24.00	1,050	1,400	6.97		ND	ND	ND	ND
30-Oct-06		14.64			1,400	7.21		ND	ND	ND	ND
24-Jan-07		14.48			1,300	7.09		ND	ND	ND	ND
08-May-07		14.57			1,400	7.14		ND	ND	ND	ND
25-Oct-07		15.14			1,600	7.12		ND	ND	ND	ND
					NMWQCC GROUNDWATER STANDARDS			10	750	750	620

NOTES : 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.
2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULT IN BOLD RED TYPE EXCEEDED.

GENERAL WATER QUALITY

BP AMERICA PRODUCTION COMPANY

GCU # 165

Sample Date : Aug. 3 , 2006

PARAMETERS	MW # 1	MW # 2	MW # 3	Units
LAB pH	7.06	7.30	7.05	s. u.
LAB CONDUCTIVITY @ 25 C	1,480	1,460	1,500	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	1,050	944	1,050	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	1,040	950	1,000	mg / L
SODIUM ABSORPTION RATIO	4.1	1.5	1.0	ratio
TOTAL ALKALINITY AS CaCO3	320	600	300	mg / L
TOTAL HARDNESS AS CaCO3	438	657	752	mg / L
BICARBONATE as HCO3	320	600	300	mg / L
CARBONATE AS CO3	< 0.1	< 0.1	< 0.1	mg / L
HYDROXIDE AS OH	< 0.1	< 0.1	< 0.1	mg / L
NITRATE NITROGEN	0.08	< 0.01	0.06	mg / L
NITRITE NITROGEN	< 0.01	< 0.01	< 0.01	mg / L
CHLORIDE	259	156	292	mg / L
FLUORIDE	1.58	2.17	1.00	mg / L
PHOSPHATE	< 0.01	< 0.01	< 0.01	mg / L
SULFATE	228	125	216	mg / L
IRON	< 0.001	< 0.001	< 0.001	mg / L
CALCIUM	140	132	151	mg / L
MAGNESIUM	21.2	78.6	90.0	mg / L
POTASSIUM	3.36	3.98	1.34	mg / L
SODIUM	197	87.2	62.8	mg / L
CATION / ANION DIFFERENCE	0.02	0.01	0.01	

RESULTS TO RON - 4-13-95, 4-21-95 NOT QUITE

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80254
C.D.C. NO: 0361 0362 0363 0330 2927

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: GCU WELL #: 165 PIT: SEP.
QUAD/UNIT: H SEC: 29 TWP: 28 N RNG: 12 W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: SE / NE CONTRACTOR: MOSS

DATE STARTED: 4-12-95
DATE FINISHED: 5-1-95
ENVIRONMENTAL SPECIALIST: RED

EXCAVATION APPROX. 40 FT. x 40 FT. x 16 FT. DEEP. CUBIC YARDS: 900
DISPOSAL FACILITY: ONSITE / GCU 165 E / GCU 191 REMEDIATION METHOD: LANDFARM
LAND USE: RANGE / AGRI. LEASE: 07882A - A FORMATION: DAKOTA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 125 FEET N25°E FROM WELLHEAD.
DEPTH TO GROUNDWATER: 15' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

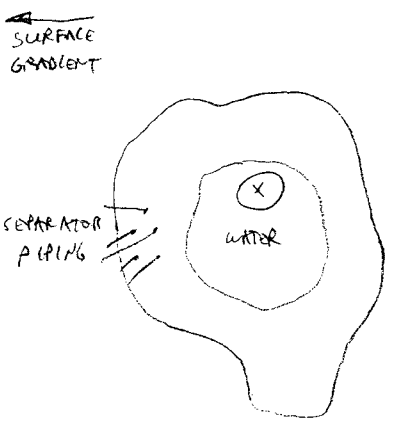
PIT EXCAVATED TO HARD BOTTOM - WATER INFLOW MOST LIKELY FROM NEARBY IRRIGATION - WATER PUMPED + HAULED TO DISPOSAL SITE PRIOR TO SAMPLING. CONTAMINATED SOILS REMOVED - SOME STAIN AT BOTTOM WALL ON WEST - (SEPARATOR SIDE). WATER FLOWS FROM ALL SIDES AFTER PUMPING.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE
0 FT

PIT PERIMETER

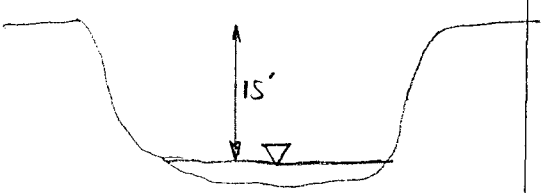


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	
2	
3	
4	
5	

	LAB	SAMPLES
4-12	PIT WATER	BTEX
4-17	PIT WATER	BTEX
4-20	PIT WATER	BTEX
4-25	PIT WATER	BTEX
5-1	PIT WATER	BTEX

PIT PROFILE



TRAVEL NOTES: CALLOUT: 4-12-95 ONSITE: 4-12-95 1330, 4-17, 4-20

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/13/95
Sample ID:	Pit Water	Date Sampled:	04/12/95
Lab ID:	0827	Date Received:	04/12/95
Sample Matrix:	Water	Date Analyzed:	04/12/95
Preservative:	Cool, $HgCl_2$		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	916	40.0
Toluene	2,140	40.0
Ethylbenzene	205	40.0
m,p-Xylenes	2,430	80.0
o-Xylene	563	40.0
Total BTEX	**6,260**	

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	105	88 - 110%
Bromofluorobenzene	96	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/17/95
Sample ID:	Pit Water	Date Sampled:	04/17/95
Lab ID:	0837	Date Received:	04/17/95
Sample Matrix:	Water	Date Analyzed:	04/17/95
Preservative:	Cool, $HgCl_2$		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	84.2	10.0
Toluene	368	10.0
Ethylbenzene	36.4	10.0
m,p-Xylenes	369	20.0
o-Xylene	98.1	10.0
Total BTEX	**956**	

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	99	88 - 110%
Bromofluorobenzene	94	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/24/95
Sample ID:	Pit Water	Date Sampled:	04/20/95
Lab ID:	0873	Date Received:	04/20/95
Sample Matrix:	Water	Date Analyzed:	04/21/95
Preservative:	Cool, $HgCl_2$		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	43.7	2.00
Toluene	212	2.00
Ethylbenzene	11.9	2.00
m,p-Xylenes	204	4.00
o-Xylene	61.8	2.00
Total BTEX	**534**	

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	97	88 - 110%
Bromofluorobenzene	92	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

PURGEABLE AROMATICS

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/26/95
Sample ID:	Pit Water	Date Sampled:	04/25/95
Lab ID:	0897	Date Received:	04/25/95
Sample Matrix:	Water	Date Analyzed:	04/26/95
Preservative:	Cool, $HgCl_2$		
Condition:	Intact		

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	19.8	2.00
Toluene	180	2.00
Ethylbenzene	11.5	2.00
m,p-Xylenes	184	4.00
o-Xylene	67.9	2.00
Total BTEX	**464**	

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	101	88 - 110%
Bromofluorobenzene	95	86 - 115%

Reference: Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209, Oct. 1984.

Comments:

Analyst

Review

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:	*R.E. O'Neill*	Date:	5/2/95
Company:	*Blagg Engineering, Inc.*	*Lab ID:*	*2927*
Address:	*P.O. Box 87*	*Sample ID:*	*6160*
City, State:	*Bloomfield, NM 87413*	*Job No.*	*2-1000*

Project Name:	***GCU 165***				
Project Location:	***Pit Water - Sep. Pit***				
Sampled by:	REO	Date:	5/1/95	Time:	8:00
Analyzed by:	DC	Date:	5/1/95		
Sample Matrix:	*Water*				

Aromatic Volatile Organics

Component	***Measured Concentration ug/L***	***Detection Limit Concentration ug/L***
Benzene	2.5	*0.2*
Toluene	2.0	*0.2*
Ethylbenzene	5.5	*0.2*
m,p-Xylene	125.8	*0.2*
o-Xylene	33.9	*0.2*
	TOTAL 169.6 *ug/L*	

ND - Not Detectable

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

Approved by: DaL
Date: 5/2/95

ANALYTICA
ENVIRONMENTAL LABORATORY

7 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

0361

B0254

PROJECT MANAGER: R. E. O'NEILL
Analytica Lab I.D.:

Company: BLAGG ENGR.
Address: P.O. BOX 87 BLOOMFIELD

Phone: 632-1199
Fax:

Bill To: SAME
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	ORGANIC ANALYSES													WATER ANALYSES								METALS			
					Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602/8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1/503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids : TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):
PIT WATER	4-12-95	1320	WATER					✓																					
	SEPARATOR		PIT																										

Project Information	Sample Receipt
Proj. #: AMOCO	No. Containers:
Proj Name: GC4 165	Custody Seals: Y / N / NA
P.O. No.	Received Intact:
Shipped Via:	Received Cold
Required Turnaround Time (Prior Authorization Required for Rush)	

Sampled by:	Relinquished by:	Relinquished by:
Signature: R. E. O'Neill Date: 4-12-95	Signature: Date:	Signature: Date:
Company: BLAGG ENGR. Time: —	Company: Time:	Company: Time:
Received By:	Received By:	Received By:
Signature: Date:	Signature: Date:	Signature: Date: 4/13/95
Company: Time:	Company: Time:	Company: ANALYTICA Time: 14:10

ANALYTICA
ENVIRONMENTAL LABORATORY

0362

80254

CHAIN OF CUSTODY

)7 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

ROJECT MANAGER: R E. O'NEILL
nalytica Lab I.D.:

ompany: BLAGG ENGR.
ddress: P.O. BOX 87 BLOOMFIELD

hone: 632-1199
ax:

ill To: SAME
ompany:
ddress:

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602/8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1/503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids : TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):
PIT WATER	4-17-95	0810	WATER					✓											PRESERVED:				HgCl2 + COOL					
	SEP. PIT																											

Project Information		Sample Receipt	
Proj. #:	AMOCO	No. Containers:	2
Proj. Name:	GCU 165	Custody Seals:	Y / N / (NA)
P.O. No.		Received Intact:	Y
Shipped Via:		Received Cold	Y

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled by:		Relinquished by:		Relinquished by:	
Signature	Date:	Signature	Date:	Signature	Date:
R. E. O'Neill	4-17-95	R. E. O'Neill	4-17-95		
Company:	Time:	Company:	Time:	Company:	Time:
BLAGG ENGR.			1111		
Received By:		**Received By:**		**Received By:**	
Signature	Date:	Signature	Date:	Signature	Date:
				Allan Brown	4-17-95
Company:	Time:	Company:	Time:	Company:	Time:
					1115

0363

B0259

ANALYTICA
ENVIRONMENTAL LABORATORY

07 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

PROJECT MANAGER: R. E. O'NEILL
Analytica Lab I.D.:

Company: BLAGG ENGR.
Address: P.O. BOX 87 BLOOMFIELD

Phone: 632-1199
Fax:

Bill To: SAME
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602/8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1/503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids : TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):
PIT WATER	4-20-95	0950	WATER					✓										PRESERVED:					Hg Cl2 + ICE						

Project Information	Sample Receipt
Proj. #: AMOCO	No. Containers:
Proj Name: GCU 165	Custody Seals: Y / N / NA
P.O. No.	Received Intact:
Shipped Via:	Received Cold

Required Turnaround Time (Prior Authorization Required for Rush)

SEP. PIT

Sampled by:	Relinquished by:	Relinquished by:
Signature: R E O'Neill	Signature: R E O'Neill	Signature:
Date: 4-20-95	Date: 4-20-95	Date:
Company: BLAGG	Company: BLAGG	Company:
Time:	Time:	Time:
Received By:	Received By:	Received By:
Signature:	Signature:	Signature:
Date:	Date:	Date: 4/20/95
Company:	Company:	Company: ANALYTICA
Time:	Time:	Time: 4:20 P

ANALYTICA
ENVIRONMENTAL LABORATORY

0330

CHAIN OF CUSTODY

07 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

PROJECT MANAGER: R E O'NEILL
Analytica Lab I.D.:

Company: BLAGG ENGR
Address: BLOOMFIELD

Phone: 632-1199
Fax:

Bill To: SAME
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602/8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1/503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids : TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):
PIT WATER	4-25-95	0950	WATER					✓										PRES:		HgCl2			+ COOL						

Project Information	Sample Receipt
Proj. #: AMOCO	No. Containers:
Proj Name: GCU 165	Custody Seals: Y / N / NA
P.O. No.	Received Intact:
Shipped Via:	Received Cold

Required Turnaround Time (Prior Authorization Required for Rush)

SEP. PIT

Sampled by:		Relinquished by:		Relinquished by:	
Signature	Date:	Signature	Date:	Signature	Date:
R. E. O'Neill	4-25-95	R. E. O'Neill	4-25-95		
Company:	Time:	Company:	Time:	Company:	Time:
BLAGG		BLAGG	1010		
Received By:		Received By:		Received By:	
Signature	Date:	Signature	Date:	Signature	Date:
					4/25/
Company:	Time:	Company:	Time:	Company:	Time: 1
				ANALYTICA	10:15

CHAIN OF CUSTODY RECORD

2927

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 5-1-95

Page 1 of 1

B0254

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

Sampling Location:

Sampler:

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
PIT WATER SEP PIT	5-1		WATER		2	✓	
PASSED							

Relinquished by:	Date/Time 5/1/95	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date 5-1-95

(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

RCO

NAPI

CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80254 C.O.C. NO: ANIATAS

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: GCU 165 LEASE: SF-078828-A

QUAD/UNIT: H SEC: 29 TWP: 28N RNG: 12W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: SE/NE CONTRACTOR: MOSS

DATE STARTED: 4-3-96

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: RCO

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 30.0

LAND USE: RANGE / AGRI.

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

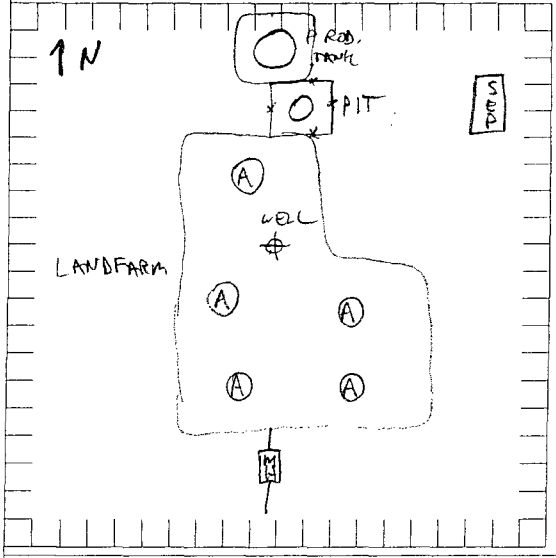
SOIL CONSISTS OF LIGHTLY MOIST → DRY SILTY SANDS, NO STAIN, NO ODOR.

CLOSE L.F.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



SCALE

0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	1

LAB SAMPLES

SAMPLE ID	ANALYSIS
COMP. A	8015 = ND
	(1030)

TRAVEL NOTES: CALLOUT: ONSITE: 4-3-96 1015

FORM REVISED 1/96

ANAITAS ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/15/96
Sample Matrix:	Soil	Date Sampled:	04/03/96
Preservative:	Cool	Date Received:	04/04/96
Condition:	Intact	Date Extracted:	04/10/96
		Date Analyzed:	04/12/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3083	ND	15.2

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	96%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 165	Report Date:	04/15/96
Sample Matrix:	Soil	Date Sampled:	04/03/96
Preservative:	Cool	Date Received:	04/04/96
Condition:	Intact	Date Extracted:	04/05/96
		Date Analyzed:	04/08/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3083	ND	15.8

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	104%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Analyst

Review

NAPI

GCU 165

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B0254

C.O.C. NO: ANIAMS

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: GCU 165 E LEASE: SF-078828

QUAD/UNIT: P SEC: 29 TWP: 28 N RNG: 12 W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: SE/SE CONTRACTOR: MOSS

DATE STARTED: 4-17-96

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: REG

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 300

LAND USE: RANGE / AGRI.

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

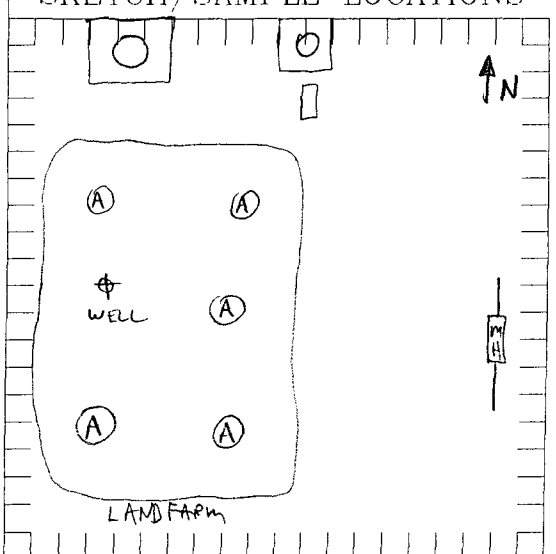
SOIL FROM GCU 165 SOIL CONSISTS OF DRY SAND GRAVEL, NO ODOR, NO STAIN

CLOSE L.F.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



SCALE

0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	0940	56.7

TRAVEL NOTES: CALLOUT: ONSITE: 4-17-96 0920

FORM REVISED 4/96

ANAITAS ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 165 E	Report Date:	05/01/96
Sample Matrix:	Soil	Date Sampled:	04/17/96
Preservative:	Cool	Date Received:	04/18/96
Condition:	Intact	Date Extracted:	04/19/96
		Date Analyzed:	04/24/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3153	ND	16.1

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	101%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 165 E	Report Date:	05/01/96
Sample Matrix:	Soil	Date Sampled:	04/17/96
Preservative:	Cool	Date Received:	04/17/96
Condition:	Intact	Date Extracted:	04/29/96
		Date Analyzed:	04/30/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3153	56.7	16.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	99%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY
807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395

CHAIN OF CUSTODY

Page 1 of 1

PROJECT MANAGER:
Analytica Lab I.D.:

Company: BLAGG
Address:

Phone: 632-1199
Fax:

Bill To: SAME
Company:
Address:

Sample ID	Date	Time	Matrix	Lab ID	ORGANIC ANALYSES: Petroleum Hydrocarbons (418.1)	Gasoline / Diesel (mod. 8015)	Gasoline (GRO)	Aromatic HCs BTEX/MTBE (602 / 8020)	Chlorinated Hydrocarbons (8010)	SDWA Volatiles (502.1 / 503.1)	Chlorinated Pesticides / PCBs (608 / 8080)	Herbicides (615 / 8150)	Volatiles GC/MS (624 / 8240 / 8260)	Base / Neutral / Acid GC/MS (625 / 8270)	Polynuclear Aromatic Hydrocarbons (8100)	TCLP Extraction	Other (specify):	WATER ANALYSES: Cation / Anion	Specific Cations (specify):	Specific Anions (specify):	BOD / Fecal / Total Coliform	Solids: TDS / TSS / SS	Nutrients: NH4+ / NO2- / NO3- / TKN	Oil and Grease	Other (specify):	METALS: Priority Pollutants	RCRA Metals (Total)	RCRA Metals TCLP (1311)	Other (specify):	COMMENTS
COMP. A	4-17	1040	SOIL			✓																							GC4 214
"	"	1110	"			✓																							GC4 230
"	"	1135	"			✓																							GC4 250
"	"	1010	"			✓																							GC4 191
"	"	0940	"			✓																							GC4 165 E

Project Information	Sample Receipt
Proj. #:	No. Containers:
Proj. Name: AMOCO	Custody Seals: Y / N / NA
P. O. No:	Received Intact:
Shipped Via: DEL'D	Received Cold:

Required Turnaround Time (Prior Authorization Required for Rush)

Sampled By:	Relinquished By:	Relinquished By:
Signature / Date: R. F. O'Neill 4-17-96	Signature / Date: R. F. O'Neill 4-18-96	Signature / Date:
Company: BEI / Time: —	Company: BEI / Time: 1345	Company: / Time:
Received By:	**Received By:**	**Received By:**
Signature / Date:	Signature / Date:	Signature / Date: 4/18/96
Company: / Time:	Company: / Time:	Company: Analytica / Time: 13:45

Please Fill Out Thoroughly.

Shaded areas for lab use only.

White/Yellow: Analytica
Pink: Client

NAPI

CLIENT: Amoco	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: GCU 165 (80254) C.O.C. NO: AMIATHS

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: GCU 191 LEASE: SF-079346

QUAD/UNIT: P SEC: 32 TWP: 28N RNG: 12W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: SE/SE CONTRACTOR: MOSS

DATE STARTED: 4-17-96

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: REO

SOIL REMEDIATION:

REMEDIATION SYSTEM: LAND FARM APPROX. CUBIC YARDAGE: 300

LAND USE: AGRI.

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

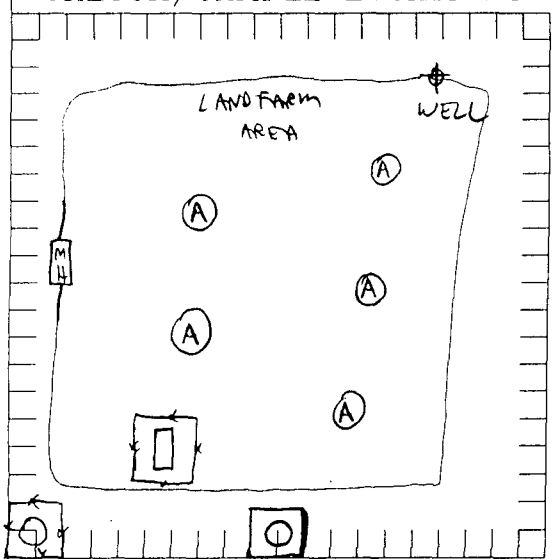
SOIL FROM GCU 165 SOIL CONSISTS OF SILTY SAND - NO ODOR/ NO STAIN COW MANURE ON LOCATION.

CLOSE L.F.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



SCALE

0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
COMP. A	8015	1010	ND

TRAVEL NOTES: CALLOUT: ONSITE: 4-17-96 1000

FORM REVISED 4/96

ANAITAS ENVIRONMENTAL LABS

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 191	Report Date:	05/01/96
Sample Matrix:	Soil	Date Sampled:	04/17/96
Preservative:	Cool	Date Received:	04/18/96
Condition:	Intact	Date Extracted:	04/19/96
		Date Analyzed:	04/24/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3152	ND	14.9

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
Trifluorotoluene	106%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics, State of Tennessee, Department of Environment and Conservation, Division of Underground Storage Tanks.

Comments:

Analyst

Review

ANAITAS
ENVIRONMENTAL LABS

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Blagg Engineering, Inc.

Project ID:	GCU 191	Report Date:	05/01/96
Sample Matrix:	Soil	Date Sampled:	04/17/96
Preservative:	Cool	Date Received:	04/17/96
Condition:	Intact	Date Extracted:	04/29/96
		Date Analyzed:	04/30/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Comp. A	3152	ND	18.5

ND- Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	% Recovery	Acceptance Limits
o - Terphenyl	107%	50 - 150%

Reference: EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Analyst

Review

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

July 2, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-167

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:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco Production Company's (Amoco) May 3, 1995 "AMOCO PRODUCTION COMPANY PIT CLOSURE VERIFICATIONS" which were submitted on behalf of Amoco by their consultant Blagg Engineering, Inc. This document contains "PIT REMEDIATION AND CLOSURE REPORTS" for 29 unlined pits in the San Juan Basin of Northwestern New Mexico.

The OCD's review of the above referenced document is addressed below:

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.	GCU #95E (Blow pit)	Unit P, Sec. 31, T28N, R11W.
2.	GCU #107 (Blow pit)	Unit D, Sec. 19, T29N, R12W.
3.	GCU #174E (Blow pit)	Unit E, Sec. 28, T28N, R12W.
4.	GCU #174E (Separator pit)	Unit E, Sec. 28, T28N, R12W.
5.	GCU #202 (Separator pit)	Unit B, Sec. 33, T29N, R12W.
6.	GCU #231E (Blow pit)	Unit E, Sec. 27, T28N, R12W.
7.	GCU #400E (Blow pit)	Unit A, Sec. 25, T28N, R12W.
8.	Jack Frost C#1E (Blow pit)	Unit H, Sec. 26, T27N, R10W.
9.	Jack Frost C#1E (Separator pit)	Unit H, Sec. 26, T27N, R10W.
10.	Jack Frost D#1E (Blow pit)	Unit N, Sec. 26, T27N, R10W.
11.	Jack Frost D#1E (Separator pit)	Unit N, Sec. 26, T27N, R10W.
12.	Lodewick #4 (Separator pit)	Unit F, Sec. 18, T27N, R09W.
13.	V.W. McManus #1 (Tank drain pit)	Unit M, Sec. 22, T28N, R12W.
14.	V.W. McManus #1 (Line drain pit)	Unit M, Sec. 22, T28N, R12W.
15.	Sammons GC B#1 (Separator pit)	Unit A, Sec. 18, T29N, R09W.

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.

B. The pit remedial activities conducted at the site listed below are satisfactory. However, according to the report, onsite landfarming and/or composting actions are still continuing at the site. Subsequently, the OCD cannot issue final closure approval at this time and approval of closure actions at this site is denied. Please resubmit the closure report for this site upon completion of the landfarming and/or composting activities. The final report will include the results of the soil remediation levels achieved and the disposition of the remediated soils.

1.	Heath GC A#1A (Separator pit)	Unit O, Sec. 32, T30N, R09W.

C. The final pit remedial contaminant levels at the sites listed below are in excess of the OCD's recommended remediation levels. Subsequently, the OCD cannot issue final closure approval and approval of closure actions at these sites is denied. 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 August 2, 1996 with a copy supplied to the OCD Aztec Office.

1.	Gallegos #008 (Separator pit)	Unit D, Sec. 19, T29N, R12W.
2.	GCU #107 (Drip pit)	Unit D, Sec. 19, T29N, R12W.
3.	GCU #165 (Blow pit)	Unit H, Sec. 29, T28N, R12W.
4.	Jack Frost D#1E (Dehy pit)	Unit N, Sec. 26, T27N, R10W.
5.	Jack Frost E#1 (Separator pit)	Unit D, Sec. 25, T27N, R10W.
6.	C.A. McAdams C#1E (Dehy pit)	Unit B, Sec. 05, T27N, R10W.
7.	V.W. McManus #1 (Abandoned pit)	Unit M, Sec. 22, T28N, R12W.
8.	V.W. McManus #1 (Tank battery pit)	Unit M, Sec. 22, T28N, R12W.

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 and the extent of ground water contamination at these sites has not been determined. Therefore, approval of these pit closure forms is denied. The OCD requests that Amoco investigate the extent of contamination and, if necessary, remediate contaminated ground water pursuant to Amoco's November 21, 1995 ground water investigation/remediation work plan which was approved by the OCD on November 29, 1995.

1.	GCU #107 (Separator pit)	Unit D, Sec. 19, T29N, R12W.
2.	GCU #165 (Separator pit)	Unit H, Sec. 29, T28N, R12W.
3.	GCU Com D#160 (Separator pit)	Unit I, Sec. 27, T29N, R12W.
4.	GCU Com D#160 (Blow pit)	Unit I, Sec. 27, T29N, R12W.
5.	Sammons GC B#1 (Blow pit)	Unit A, Sec. 18, T29N, R09W.

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.

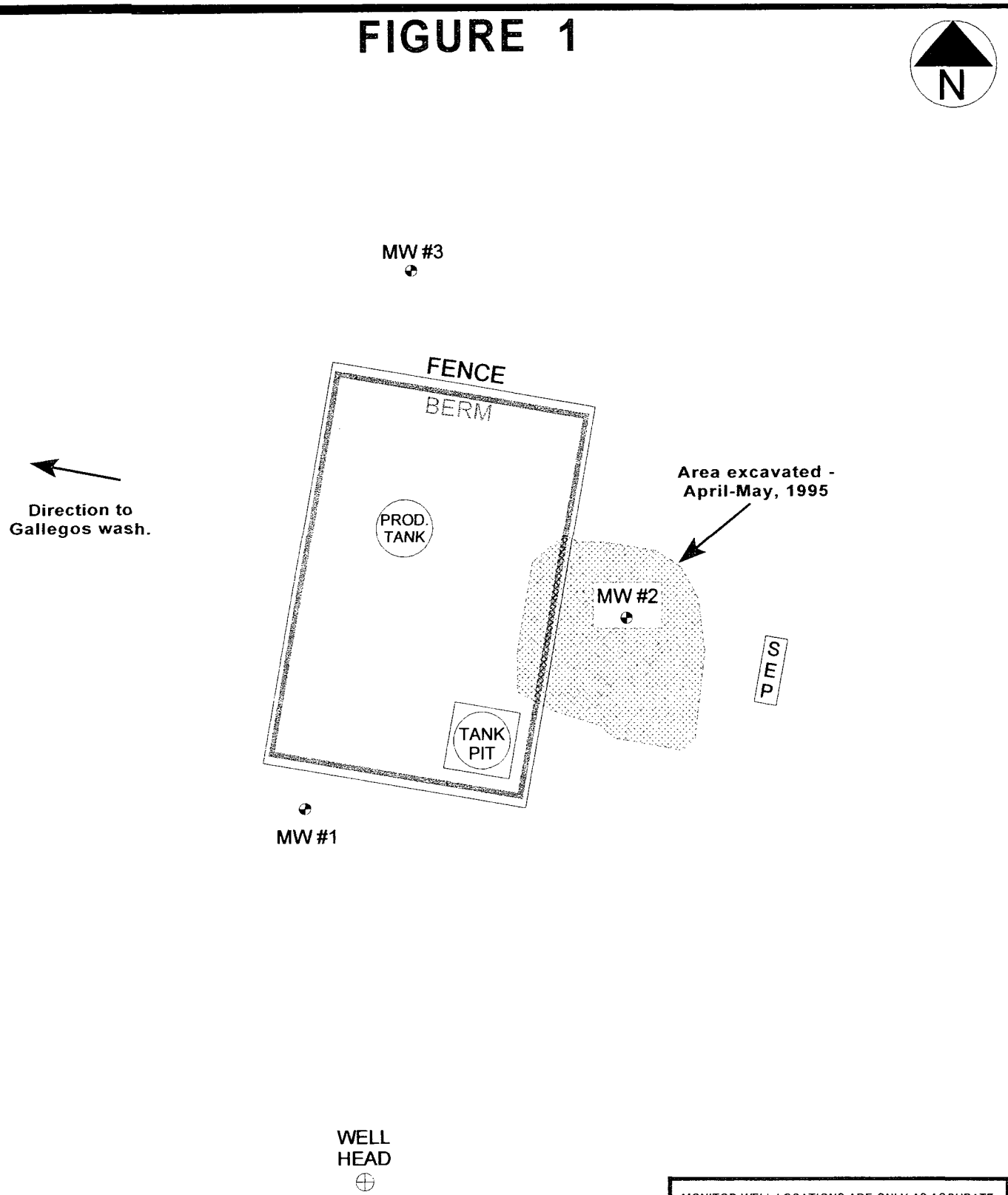
If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Robert O'Neill, Blagg Engineering, Inc.

FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 30 FT.

0 30 60 FT.

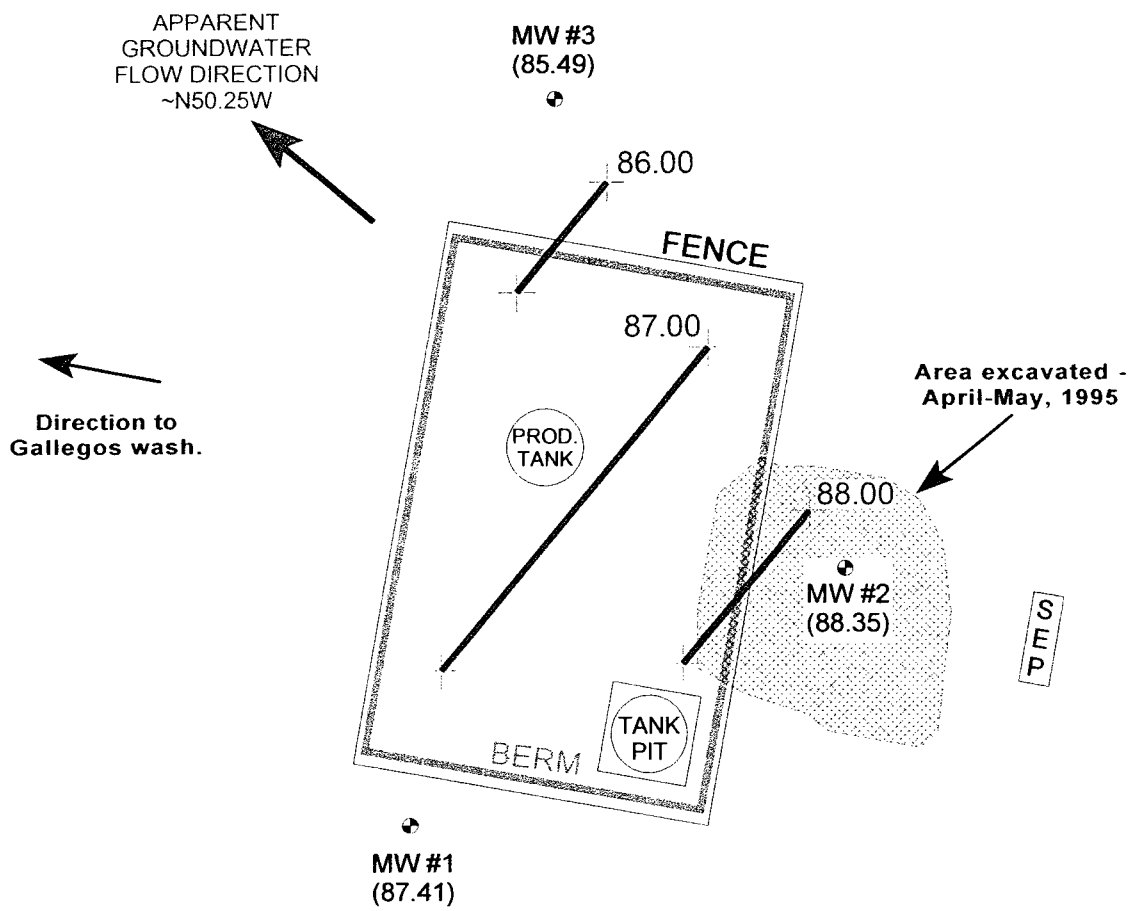
BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW INSTALL.
DRAWN BY: NJV
FILENAME: GCU 165-SM.SKF
DRAFTED: 07-07-06 NJV

SITE MAP
07/06

FIGURE 2
(3rd 1/4, 2006)



	Top of Well Elevation
MW #1	(101.33)
MW #2	(100.06)
MW #3	(100.43)
MW #1 (87.41)	Groundwater Elevation as of 8/3/06.

WELL
HEAD

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 30 FT.

0 30 60 FT.

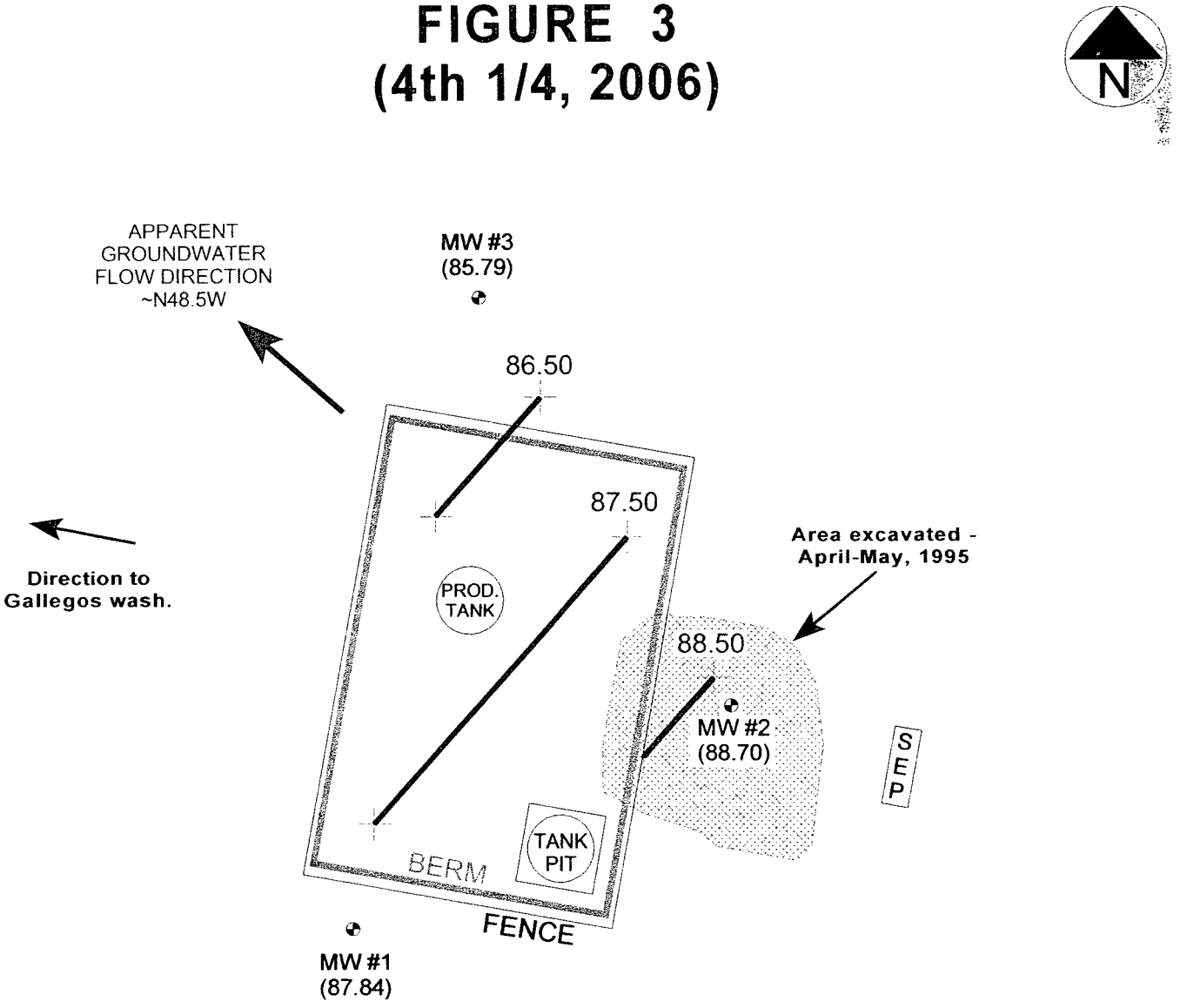
BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 08-03-06-GW.SKF
REVISED: 08-06-06 NJV

GROUNDWATER CONTOUR MAP
08/06

FIGURE 3
(4th 1/4, 2006)



	Top of Well Elevation
MW #1	(101.33)
MW #2	(100.06)
MW #3	(100.43)
MW #1 (87.84)	Groundwater Elevation as of 10/30/06.

WELL HEAD

1 INCH = 30 FT.

0 30 60 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

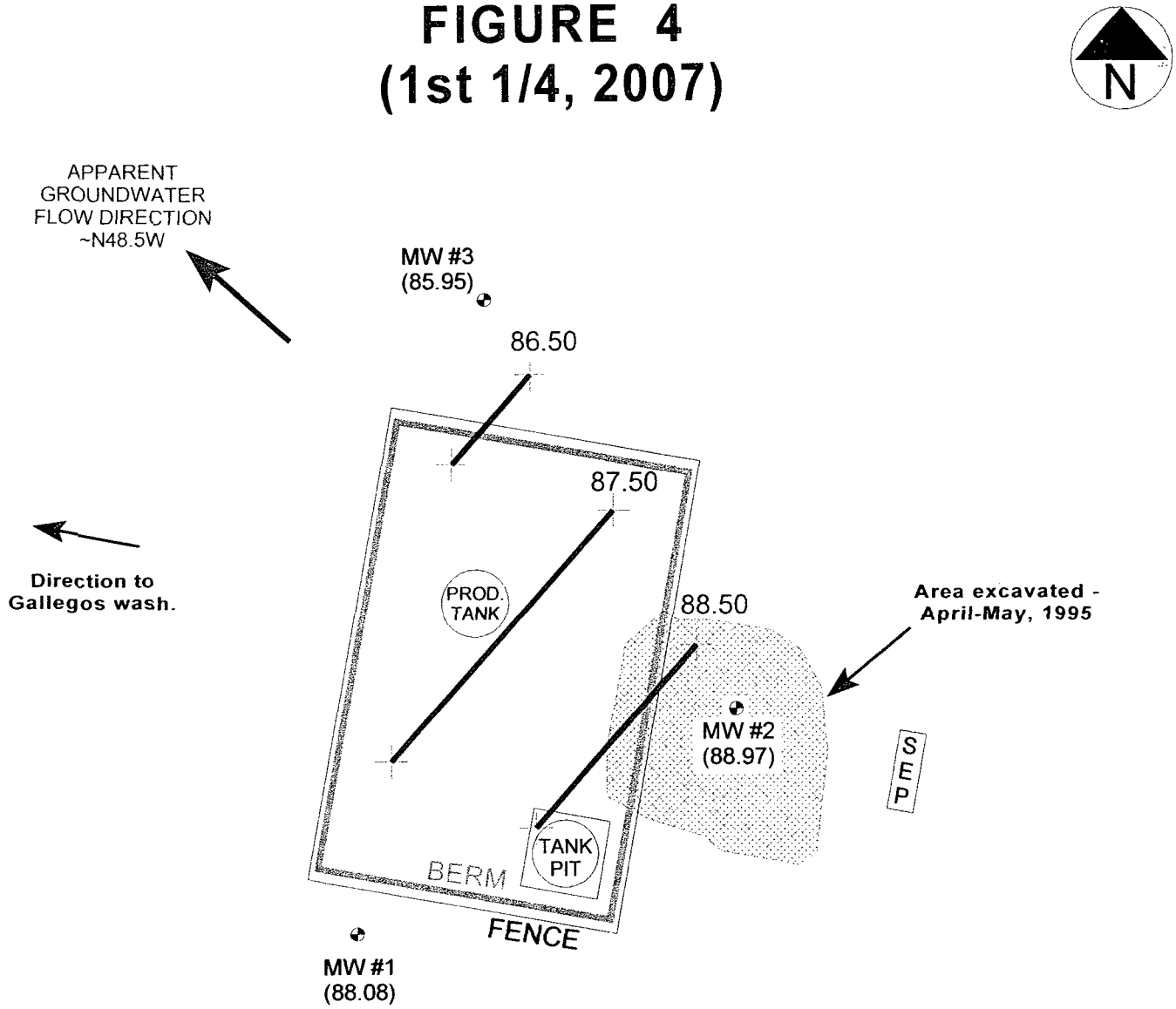
BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 10-30-06-GW.SKF
REVISED: 10-30-06 NJV

GROUNDWATER CONTOUR MAP
10/06

FIGURE 4
(1st 1/4, 2007)



		Top of Well Elevation
MW #1	———	(101.33)
MW #2	———	(100.06)
MW #3	———	(100.43)
MW #1 (88.08)	———	Groundwater Elevation as of 1/24/07.

1 INCH = 30 FT.

0 30 60 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

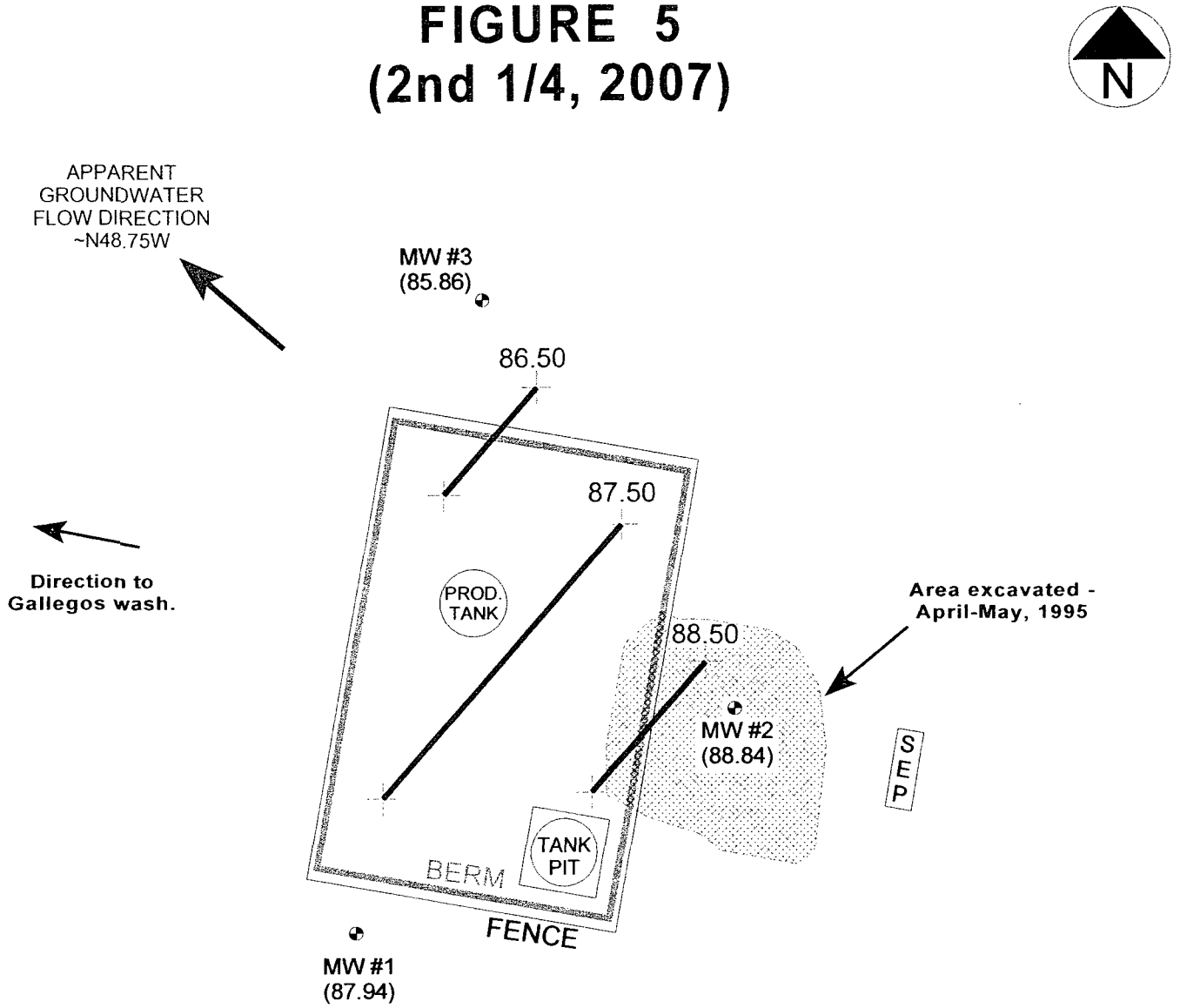
BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 01-24-07-GW.SKF
REVISED: 01-26-07 NJV

GROUNDWATER CONTOUR MAP
01/07

FIGURE 5
(2nd 1/4, 2007)



	Top of Well Elevation
MW #1	(101.33)
MW #2	(100.06)
MW #3	(100.43)
MW #1 (87.94)	Groundwater Elevation as of 5/8/07.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 30 FT.

0 30 60 FT.

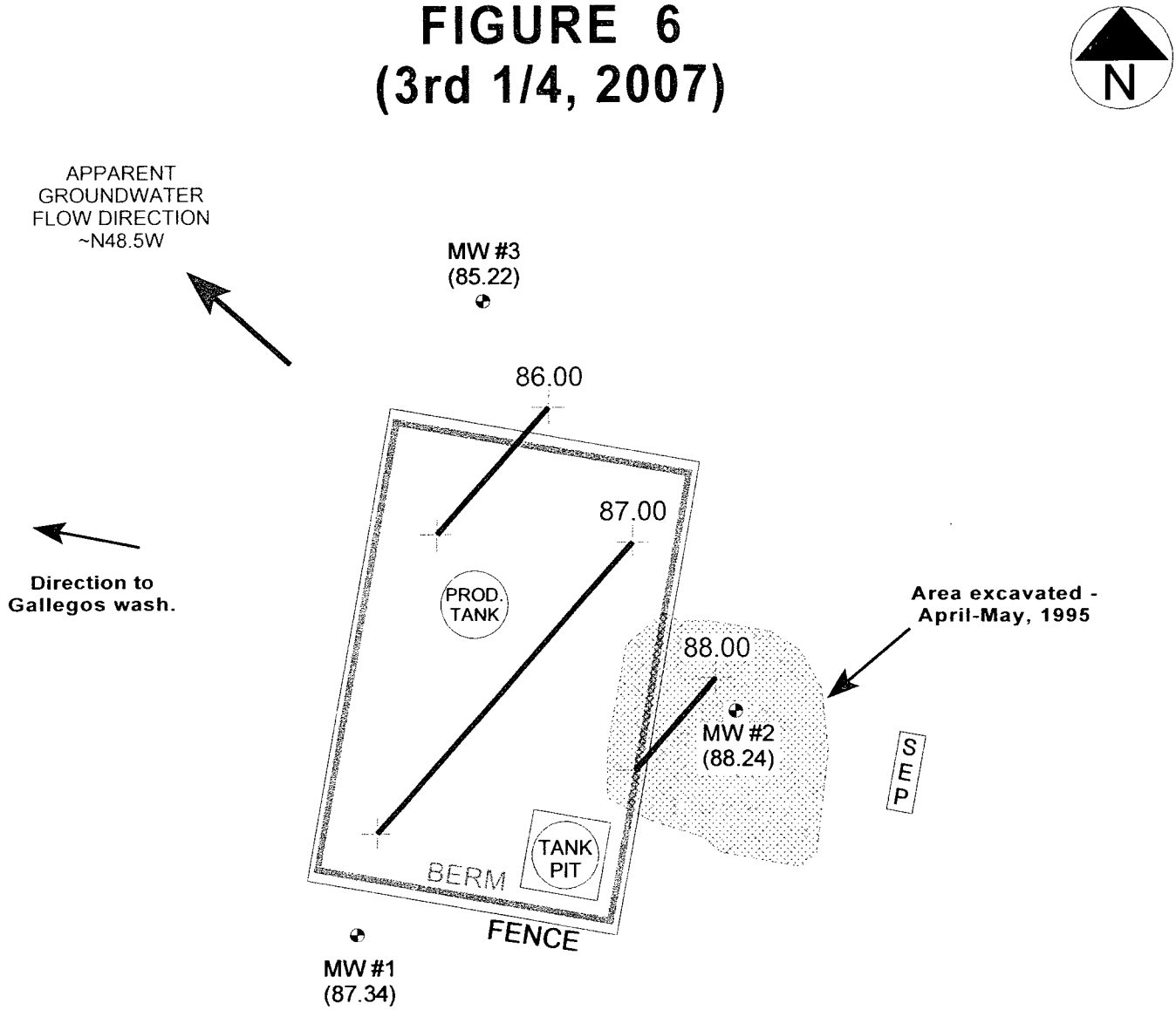
BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 05-08-07-GW.SKF
REVISED: 05-08-07 NJV

GROUNDWATER CONTOUR MAP
05/07

FIGURE 6
(3rd 1/4, 2007)



	Top of Well Elevation
MW #1	(101.33)
MW #2	(100.06)
MW #3	(100.43)
MW #1 (87.34)	Groundwater Elevation as of 8/15/07.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 30 FT.

0 30 60 FT.

BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

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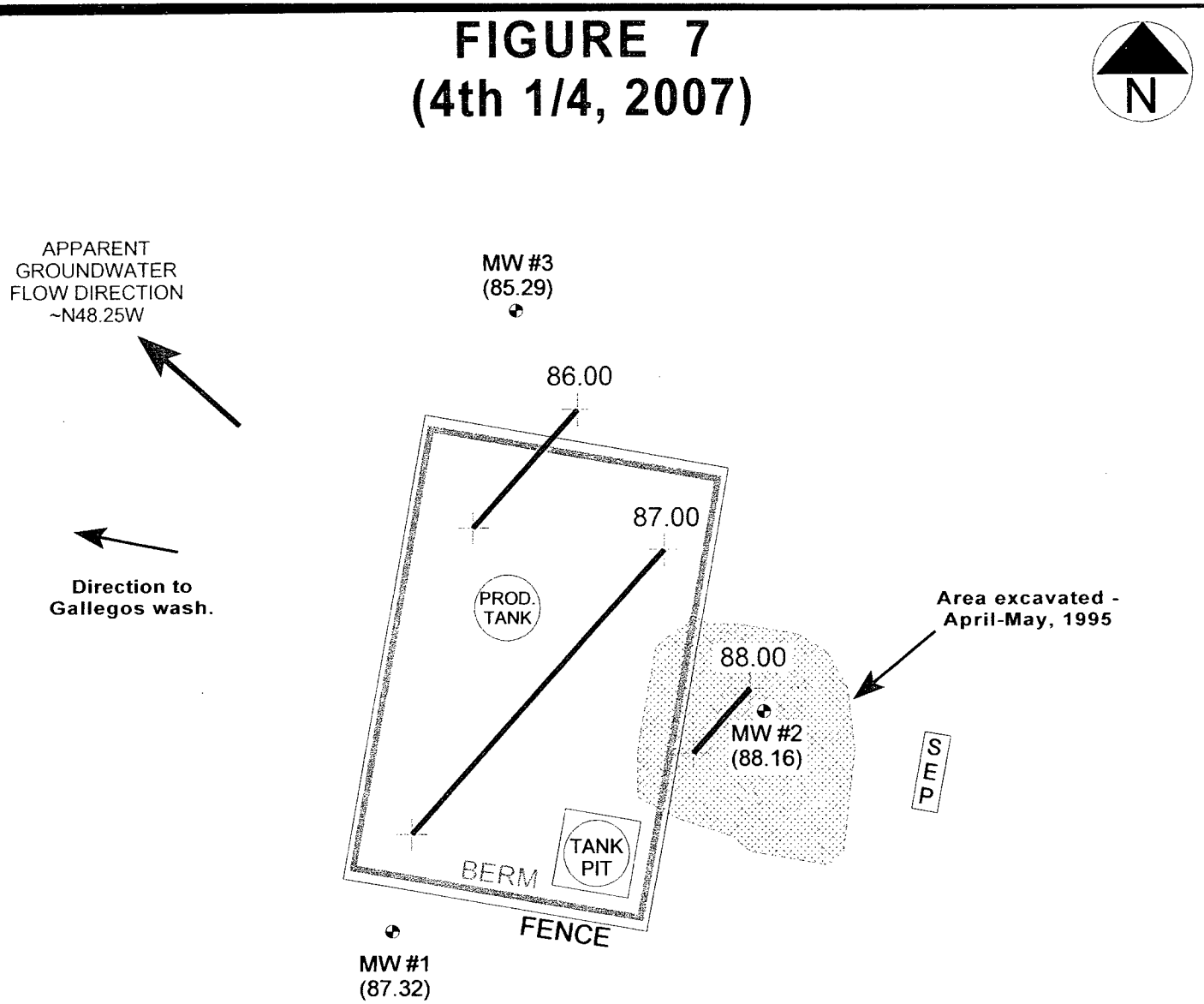
CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 08-15-07-GW.SKF
REVISED: 08-15-07 NJV

GROUNDWATER CONTOUR MAP
08/07

FIGURE 7
(4th 1/4, 2007)



	Top of Well Elevation
MW #1	(101.33)
MW #2	(100.06)
MW #3	(100.43)
MW #1 (87.32)	Groundwater Elevation as of 10/25/07.

1 INCH = 30 FT.

0 30 60 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION CO.
GCU #165
SE/4 NE/4 SEC. 29, T28N, R12W
SAN JUAN COUNTY, NEW MEXICO

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CONSULTING PETROLEUM / RECLAMATION SERVICES
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413
PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 10-25-07-GW.SKF
REVISED: 10-25-07 NJV

GROUNDWATER CONTOUR MAP
10/07

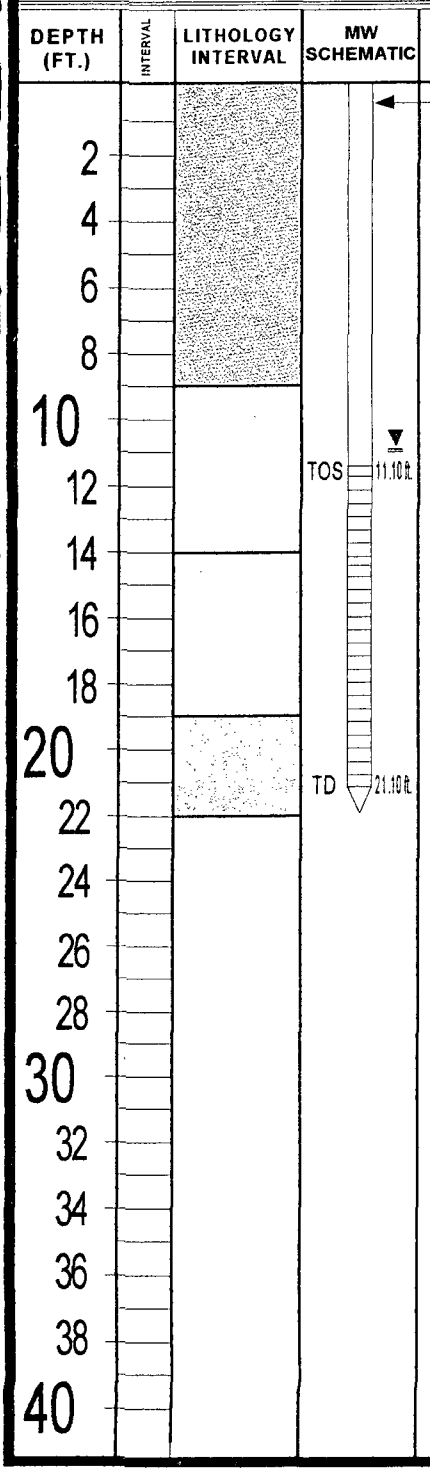
BLAGG ENGINEERING, Inc.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #1

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION COMPANY
LOCATION NAME:	GCU # 165 UNIT H, SEC. 29, T28N, R12W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	79.5 FEET, N9W FROM WELL HEAD.

BORING #.....	BH - 1
MW #.....	1
PAGE #.....	1
DATE STARTED	7/6/06
DATE FINISHED	7/6/06
OPERATOR.....	KP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.90 FEET ABOVE GRADE.

DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 9.0 FT. BELOW GRADE).

SAMPLE BH1 @ 10 FT. - TIME COLLECTED 0826, OVM = 0.0 ppm.
DEPTH TO WATER APPROX. 11.02 FT. BELOW GRADE, MEASURED 8/3/06.
GRAYISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST TO WET, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (9.0 - 14.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT SATURATED (14.0 - 19.0 FT. BELOW GRADE).

GRAYISH ORANGE BEDROCK (SANDSTONE), FRIABLE, DRY, SOFT TO HARD, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (19.0 - 22.0 FT. BELOW GRADE).

NOTES: - SAND.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.
OVM - organic vapor meter or PID (photoionization detector).
ppm - parts per million.

OVM CALIBRATION:
54.5 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas - isobutylene.
Date - 7/6/06.
Time - 0833.

Monitor well consist of 2 inch PVC piping - casing from 2.90 ft. above grade to 11.10 ft. below grade, 0.010 slotted screen between 11.10 to 21.10 ft. below grade, sand packed annular to 10 ft. below grade, bentonite grout between 8.0 to 10.00 ft. below grade, fill dirt between 3.0 to 8.0 ft. below grade, bentonite grout between 0.5 to 3.0 ft. below grade. Well protector encompassing above grade casing and secured with padlock.

DRAWING: GCU 165 BH1-MW1. SKF | DATE: 8/6/06 | DWN BY: NJV

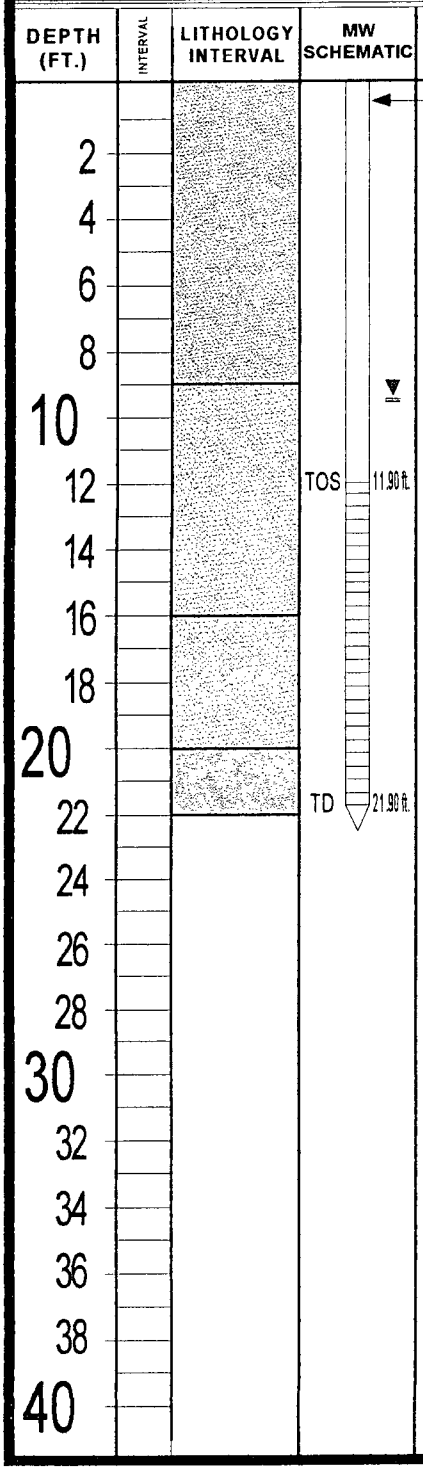
BLAGG ENGINEERING, Inc.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION COMPANY
LOCATION NAME:	GCU # 165 UNIT H, SEC. 29, T28N, R12W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	130.5 FEET, N25E FROM WELL HEAD.

BORING #.....	BH - 3
MW #.....	2
PAGE #.....	3
DATE STARTED	7/6/06
DATE FINISHED	7/6/06
OPERATOR.....	KP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.10 FEET ABOVE GRADE.

DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 9.0 FT. BELOW GRADE).

SAMPLE BH3 @ 10 FT. - TIME COLLECTED 1100, OVM = 1,072 ppm, TPH = 260 mg/kg or ppm, BENZENE = ND mg/kg or ppm, TOTAL BTEX = 4.26 mg/kg or ppm.

DEPTH TO WATER APPROX. 9.61 FT. BELOW GRADE, MEASURED 8/3/06.

MEDIUM DARK GRAY SAND WITH MINOR AMOUNT OF GRAVEL, NON COHESIVE, SLIGHTLY MOIST TO WET, FIRM, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (9.0 - 16.0 FT. BELOW GRADE).

DARK GREENISH GRAY SAND, NON COHESIVE, SATURATED, FIRM TO LOOSE, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (16.0 - 20.0 FT. BELOW GRADE).

DARK GREENISH TO LIGHT GRAY BEDROCK (SANDSTONE), FRIABLE, DRY, SOFT TO HARD, UNABLE TO DETERMINE IF ANY HYDROCARBON ODOR PRESENT PHYSICALLY WITHIN CUTTINGS (20.0 - 22.0 FT. BELOW GRADE).

NOTES: - SAND.

- **TOS** - Top of screen of monitor well.
- **TD** - Total depth/bottom extent of monitor well.
- **OVM** - organic vapor meter or PID (photoionization detector).
- **TPH** - total petroleum hydrocarbons (US Epa modified method 8015B).
- **BTEX** - benzene, toluene, ethylbenzene, & total xylenes (US Epa method 8021B).
- **mg/kg** - milligram per kilogram.
- **ppm** - parts per million.
- **ND** - Not Detected at the Reporting Limit.

OVM CALIBRATION:
54.5 ppm; RF = 0.52 (RF = response factor).
100 ppm calibration gas - isobutylene.
Date - 7/6/06.
Time - 0833.

Monitor well consist of 2 inch PVC piping - casing from 2.10 ft. above grade to 11.90 ft. below grade, 0.010 slotted screen between 11.90 to 21.90 ft. below grade, sand packed annular to 10 ft. below grade, bentonite grout between 8.0 to 10.00 ft. below grade, fill dirt between 3.0 to 8.0 ft. below grade, bentonite grout between 0.5 to 3.0 ft. below grade. Well protector encompassing above grade casing and secured with padlock.

DRAWING: GCU 165 BH3-MW2. SKF | DATE: 8/6/06 | DWN BY: NJV

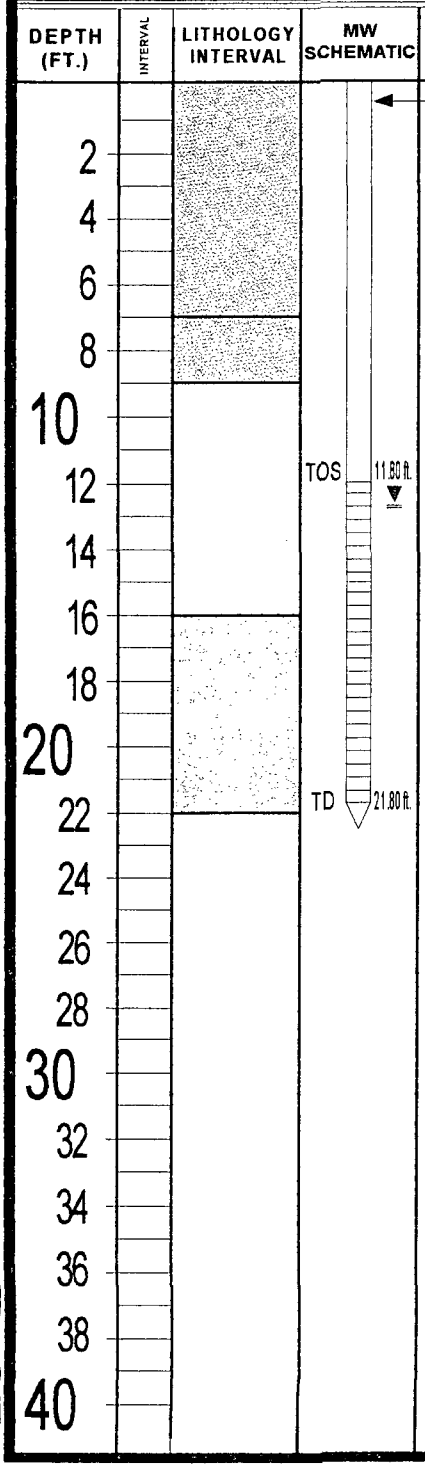
BLAGG ENGINEERING, Inc.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #3

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION COMPANY
LOCATION NAME:	GCU # 165 UNIT H, SEC. 29, T28N, R12W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	191 FEET, N3E FROM WELL HEAD.

BORING #.....	BH - 2
MW #.....	3
PAGE #.....	2
DATE STARTED	7/6/06
DATE FINISHED	7/6/06
OPERATOR.....	KP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.20 FEET ABOVE GRADE.

DARK YELLOWISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 7.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT WITH MINOR AMOUNT OF GRAVEL (7.0 - 9.0 FT. BELOW GRADE).

SAMPLE BH2 @ 10 FT. - TIME COLLECTED 0945, OVM = 0.0 ppm, TPH = ND mg/kg or ppm.

DEPTH TO WATER APPROX. 12.74 FT. BELOW GRADE, MEASURED 8/3/06.

GRAYISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (9.0 - 16.0 FT. BELOW GRADE).

GRAYISH ORANGE BEDROCK (SANDSTONE), FRIABLE, DRY, SOFT TO HARD, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (16.0 - 22.0 FT. BELOW GRADE).

NOTES: - SAND.

- **TOS** - Top of screen of monitor well.
- **TD** - Total depth/bottom extent of monitor well.
- **OVM** - organic vapor meter or PID (photoionization detector).
- **TPH** - total petroleum hydrocarbons (US Epa modified method 8015B).
- **mg/kg** - milligram per kilogram.
- **ppm** - parts per million.
- **ND** - Not Detected at the Reporting Limit.

OVM CALIBRATION:
54.5 ppm; RF = 0.52 (RF = response factor).
100 ppm calibration gas - isobutylene.
Date - 7/6/06.
Time - 0833.

Monitor well consist of 2 inch PVC piping - casing from 2.20 ft. above grade to 11.80 ft. below grade, 0.010 slotted screen between 11.80 to 21.80 ft. below grade, sand packed annular to 10 ft. below grade, bentonite grout between 8.0 to 10.00 ft. below grade, fill dirt between 3.0 to 8.0 ft. below grade, bentonite grout between 0.5 to 3.0 ft. below grade. Well protector encompassing above grade casing and secured with padlock.

DRAWING: GCU 165 BH2-MW3. SKF | DATE: 8/6/06 | DWN BY: NJV

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jul-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	BH2 @ 10'-MW #3
Lab Order:	0607073	**Collection Date:**	7/6/2006 9:45:00 AM
Project:	GCU #165	**Date Received:**	7/7/2006
Lab ID:	0607073-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/12/2006 8:34:44 AM
Surr: DNOP	97.0	61.7-135		%REC	1	7/12/2006 8:34:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/12/2006 10:52:31 PM
Surr: BFB	103	81.7-127		%REC	1	7/12/2006 10:52:31 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jul-06*

CLIENT:	Blagg Engineering	**Client Sample ID:**	BH3 @ 10'-MW #2
Lab Order:	0607073	**Collection Date:**	7/6/2006 11:00:00 AM
Project:	GCU #165	**Date Received:**	7/7/2006
Lab ID:	0607073-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	140	10		mg/Kg	1	7/12/2006 10:12:05 AM
Surr: DNOP	102	61.7-135		%REC	1	7/12/2006 10:12:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	120	50		mg/Kg	10	7/12/2006 11:21:43 PM
Surr: BFB	202	81.7-127	S	%REC	10	7/12/2006 11:21:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.50		mg/Kg	10	7/12/2006 11:21:43 PM
Toluene	ND	0.50		mg/Kg	10	7/12/2006 11:21:43 PM
Ethylbenzene	0.56	0.50		mg/Kg	10	7/12/2006 11:21:43 PM
Xylenes, Total	3.7	1.5		mg/Kg	10	7/12/2006 11:21:43 PM
Surr: 4-Bromofluorobenzene	102	76.8-115		%REC	10	7/12/2006 11:21:43 PM
EPA METHOD 9056A: ANIONS						Analyst: **TES**
Chloride	2.5	1.5		mg/Kg	5	7/18/2006 1:28:41 AM

OCD STANDARD (PPM)

TOTAL TPH = 260 mg/Kg OR ppm — 100

TOTAL BTEX = 4.26 mg/Kg OR ppm — 50

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

Client: BLAGG ENGR. / BP AMERICA

Project Name: GCU #165

Address: P.O. BOX 87
BLFD., NM 87413

Project #:

Project Manager: NV

Phone #: 632-1199

Sampler: NV

Fax #:

Sample Temperature: 5°C

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative			HEAL No.
					$HgCl_2$	HNO_3	cool	
7/6/06	0945	SOIL	BH2 @ 10' - MW #3	1-4oz.			✓	0607073-1
7/6/06	1100	SOIL	BH3 @ 10' - MW #2	1-4oz.			✓	-2

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
7/7/06	0945		7/7/06 1604
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles or Headspace (Y or N)
(BTEX)		✓														
✓		✓										✓				

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

3.2 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.

3.3 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.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 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 action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 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 pose a risk 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 Customer.

4.3 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 Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these 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.

4.4 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

4.5 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.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 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 or modify the warranty in any way.

5.2 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, 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 sample will be contingent 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 as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results

5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure 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.

5.6 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 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 disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

5.8 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 warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 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 accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL

6.2 The invalidity or unenforceability, 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.

7. AMENDMENTS AND WAIVERS

7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

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

10.1 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 SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165 **Work Order:** 0607073

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: E300									
Sample ID: 0607073-02A MSD		*MSD*			Batch ID: **10819**		Analysis Date: 7/18/2006 2:03:31 AM		
Chloride	15.56	mg/Kg	1.5	87.2	80	120	0.0965	20	
Sample ID: LCS-10819		*LCS*			Batch ID: **10819**		Analysis Date: 7/18/2006 1:11:17 AM		
Chloride	14.79	mg/Kg	0.30	98.6	90	110			
Sample ID: 0607073-02A MS		*MS*			Batch ID: **10819**		Analysis Date: 7/18/2006 1:46:06 AM		
Chloride	15.54	mg/Kg	1.5	87.1	80	120			
Method: SW8015									
Sample ID: 0607073-01AMSD		*MSD*			Batch ID: **10779**		Analysis Date: 7/12/2006 9:39:38 AM		
Diesel Range Organics (DRO)	47.23	mg/Kg	10	94.5	67.4	117	2.92	17.4	
Sample ID: MB-10779		*MBLK*			Batch ID: **10779**		Analysis Date: 7/11/2006 12:30:26 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Sample ID: LCS-10779		*LCS*			Batch ID: **10779**		Analysis Date: 7/11/2006 1:01:52 PM		
Diesel Range Organics (DRO)	43.78	mg/Kg	10	87.6	64.6	116			
Sample ID: LCSD-10779		*LCSD*			Batch ID: **10779**		Analysis Date: 7/11/2006 1:22:06 PM		
Diesel Range Organics (DRO)	45.24	mg/Kg	10	90.5	64.6	116	3.26	17.4	
Sample ID: 0607073-01AMS		*MS*			Batch ID: **10779**		Analysis Date: 7/12/2006 9:07:11 AM		
Diesel Range Organics (DRO)	45.87	mg/Kg	10	91.7	67.4	117			
Method: SW8015									
Sample ID: MB-10778		*MBLK*			Batch ID: **10778**		Analysis Date: 7/11/2006 11:12:35 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-10778		*LCS*			Batch ID: **10778**		Analysis Date: 7/11/2006 11:41:41 PM		
Gasoline Range Organics (GRO)	23.40	mg/Kg	5.0	93.6	73.4	115			
Method: SW8021									
Sample ID: MB-10778		*MBLK*			Batch ID: **10778**		Analysis Date: 7/11/2006 11:12:35 PM		
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.15						
Sample ID: LCS-10778		*LCS*			Batch ID: **10778**		Analysis Date: 7/11/2006 11:41:41 PM		
Benzene	0.2821	mg/Kg	0.050	88.2	77.5	123			
Toluene	1.763	mg/Kg	0.050	88.2	85.3	129			
Ethylbenzene	0.3630	mg/Kg	0.050	93.1	79.6	121			
Xylenes, Total	2.126	mg/Kg	0.15	99.2	80	130			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 7/7/2006

Work Order Number 0607073 | Received by AT

Checklist completed by _____ 7/7/06
Signature | Date

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 received?	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 submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **5°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Blagg Engineering
Project: GCU #165
Lab Order: 0607073

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_S, SAMPLE 0607073-02A: Elevated surrogate due to matrix interference.

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # :

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED :

Date : **August 3, 2006**

SAMPLER : N J V

Filename : **08-03-06.WK4**

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	87.41	13.92	24.00	1200	7.10	1,500	25.7	5.00
2	100.06	88.35	11.71	24.00	1310	7.26	1,400	26.0	6.00
3	100.43	85.49	14.94	24.00	1235	6.97	1,400	25.2	4.50
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	08/03/06	00:00		

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. MW #1 & #3 - murky brown in appearance, MW #2 - dark brown in appearance with wisp of sheen within bucket of purged water. Collected BTEX & major anions / cations from all MW's.

Top of casing MW #1 ~ 2.90 ft., MW #2 ~ 2.10 ft., MW #3 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: *08-Aug-06*

CLIENT: Blagg Engineering
Project: GCU #165
Lab Order: 0608082

Lab ID: 0608082-01 **Collection Date:** 8/3/2006 12:00:00 PM
Client Sample ID: MW#1 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/7/2006 2:20:41 PM
Toluene	ND	1.0		µg/L	1	8/7/2006 2:20:41 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2006 2:20:41 PM
Xylenes, Total	ND	3.0		µg/L	1	8/7/2006 2:20:41 PM
Surr: 4-Bromofluorobenzene	91.4	72.2-125		%REC	1	8/7/2006 2:20:41 PM

Lab ID: 0608082-02 **Collection Date:** 8/3/2006 1:10:00 PM
Client Sample ID: MW#2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	88	1.0		µg/L	1	8/7/2006 2:50:48 PM
Toluene	ND	1.0		µg/L	1	8/7/2006 2:50:48 PM
Ethylbenzene	16	1.0		µg/L	1	8/7/2006 2:50:48 PM
Xylenes, Total	72	3.0		µg/L	1	8/7/2006 2:50:48 PM
Surr: 4-Bromofluorobenzene	110	72.2-125		%REC	1	8/7/2006 2:50:48 PM

Lab ID: 0608082-03 **Collection Date:** 8/3/2006 12:35:00 PM
Client Sample ID: MW#3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	8/7/2006 3:20:55 PM
Toluene	ND	1.0		µg/L	1	8/7/2006 3:20:55 PM
Ethylbenzene	ND	1.0		µg/L	1	8/7/2006 3:20:55 PM
Xylenes, Total	ND	3.0		µg/L	1	8/7/2006 3:20:55 PM
Surr: 4-Bromofluorobenzene	93.7	72.2-125		%REC	1	8/7/2006 3:20:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #1	Date Reported:	08-04-06
Laboratory Number:	38042	Date Sampled:	08-03-06
Chain of Custody:	1265	Date Received:	08-03-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-04-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.06**	s.u.		
Conductivity @ 25° C	**1,480**	umhos/cm		
Total Dissolved Solids @ 180C	**1,050**	mg/L		
Total Dissolved Solids (Calc)	**1,040**	mg/L		
SAR	**4.1**	ratio		
Total Alkalinity as CaCO3	**320**	mg/L		
Total Hardness as CaCO3	**438**	mg/L		
Bicarbonate as HCO3	**320**	mg/L	5.24	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	**0.08**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**259.0**	mg/L	7.31	meq/L
Fluoride	**1.58**	mg/L	0.08	meq/L
Phosphate	**<0.01**	mg/L	0.00	meq/L
Sulfate	**228**	mg/L	4.75	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**140**	mg/L	6.99	meq/L
Magnesium	**21.2**	mg/L	1.74	meq/L
Potassium	**3.36**	mg/L	0.09	meq/L
Sodium	**197**	mg/L	8.57	meq/L
Cations			17.39	meq/L
Anions			17.38	meq/L
Cation/Anion Difference			**0.02%**	

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: **GCU #165 Grab Sample**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	08-04-06
Laboratory Number:	38043	Date Sampled:	08-03-06
Chain of Custody:	1265	Date Received:	08-03-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-04-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.30**	s.u.		
Conductivity @ 25° C	**1,460**	umhos/cm		
Total Dissolved Solids @ 180C	**944**	mg/L		
Total Dissolved Solids (Calc)	**950**	mg/L		
SAR	**1.5**	ratio		
Total Alkalinity as CaCO3	**600**	mg/L		
Total Hardness as CaCO3	**657**	mg/L		
Bicarbonate as HCO3	**600**	mg/L	9.83	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	**156**	mg/L	4.40	meq/L
Fluoride	**2.17**	mg/L	0.11	meq/L
Phosphate	**<0.01**	mg/L	0.00	meq/L
Sulfate	**125**	mg/L	2.60	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**132**	mg/L	6.59	meq/L
Magnesium	**78.6**	mg/L	6.47	meq/L
Potassium	**3.98**	mg/L	0.10	meq/L
Sodium	**87.2**	mg/L	3.79	meq/L
Cations			16.95	meq/L
Anions			16.95	meq/L
Cation/Anion Difference			**0.01%**	

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: **GCU #165 Grab Sample**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #3	Date Reported:	08-04-06
Laboratory Number:	38044	Date Sampled:	08-03-06
Chain of Custody:	1265	Date Received:	08-03-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	08-04-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.05**	s.u.		
Conductivity @ 25° C	**1,500**	umhos/cm		
Total Dissolved Solids @ 180C	**1,050**	mg/L		
Total Dissolved Solids (Calc)	**1,000**	mg/L		
SAR	**1.0**	ratio		
Total Alkalinity as CaCO3	**300**	mg/L		
Total Hardness as CaCO3	**752**	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	**0.06**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**292**	mg/L	8.24	meq/L
Fluoride	**1.00**	mg/L	0.05	meq/L
Phosphate	**<0.01**	mg/L	0.00	meq/L
Sulfate	**216**	mg/L	4.50	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**151**	mg/L	7.53	meq/L
Magnesium	**90.0**	mg/L	7.41	meq/L
Potassium	**1.34**	mg/L	0.03	meq/L
Sodium	**62.8**	mg/L	2.73	meq/L
Cations			17.71	meq/L
Anions			17.71	meq/L
Cation/Anion Difference			**0.01%**	

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: **GCU #165 Grab Sample**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENGR. / BP AMERICA
Address: P.O. BOX 87, BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: GCU #165
Project #:
Project Manager: NV
Sampler: NV
Sample Temperature: 4°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. #0608082
8/3/06	1200	WATER	MW #1	2-40ml	✓			-1
8/3/06	1310	WATER	MW #2	2-40ml	✓			-2
8/3/06	1235	WATER	MW #3	2-40ml	✓			-3

ANALYSIS REQUEST

(BTEX) + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
✓																
✓																
✓																

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	
8/4/06	1100			8-7-06 @ 930
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

3.2 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.

3.3 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.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 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 action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 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 pose a risk 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 Customer.

4.3 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 Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these 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.

4.4 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.

4.5 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.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 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 or modify the warranty in any way.

5.2 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, 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 sample will be contingent 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 as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure 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.

5.6 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 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 disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

5.8 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 warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 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 accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, 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.

7. AMENDMENTS AND WAIVERS

7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

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

10.1 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.

CHAIN OF CUSTODY RECORD

1265

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / BP	GCU #165	
Sampler: NV	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	MAJOR ANIONS/ CATIONS						Remarks
												PRESERVED COOL
												GRAB SAMPLES
MW #1	8/3/06	1200	38042	WATER	1	✓						
MW #2	8/3/06	1310	38043	WATER	1	✓						
MW #3	8/3/06	1235	38044	WATER	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	8/3/06	1440	[signature]	8/3/06	1440
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165
Work Order: 0608082

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R20190**	Analysis Date:		8/7/2006 8:55:16 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R20190**	Analysis Date:		8/7/2006 5:21:30 PM
Benzene	22.37	µg/L	1.0	112	85	115			
Toluene	22.31	µg/L	1.0	112	85	118			
Ethylbenzene	22.12	µg/L	1.0	111	85	116			
Xylenes, Total	45.47	µg/L	3.0	112	85	119			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R20190**	Analysis Date:		8/7/2006 5:51:39 PM
Benzene	22.11	µg/L	1.0	111	85	115	1.17	27	
Toluene	21.63	µg/L	1.0	108	85	118	3.09	19	
Ethylbenzene	21.93	µg/L	1.0	110	85	116	0.863	10	
Xylenes, Total	45.31	µg/L	3.0	111	85	119	0.361	13	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 8/7/2006

Work Order Number 0608082 | Received by GLS

Checklist completed by D Schleppe 8-7-06
Signature | Date

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 received?	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 submitted ☐	Yes ☑	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **4°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : October 30, 2006

SAMPLER : N J V

Filename : 10-30-06.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	87.84	13.49	24.00	-	-	-	-	-
2	100.06	88.70	11.36	24.00	1615	7.37	1,400	18.5	6.25
3	100.43	85.79	14.64	24.00	1545	7.21	1,400	17.8	4.75
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	10/27/06	0845		

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 both MW's # 2 & # 3. MW # 3 - murky brown in appearance, MW # 2 - dark brown in appearance with wisp of sheen within bucket of purged water. Collected BTEX from both MW's # 2 & # 3.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.10 ft., MW # 3 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: *03-Nov-06*

CLIENT: Blagg Engineering
Project: GCU #165
Lab Order: 0611006

Lab ID: 0611006-01 **Collection Date:** 10/30/2006 4:15:00 PM
Client Sample ID: MW #2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	57	1.0		µg/L	1	11/2/2006 6:13:39 PM
Toluene	ND	1.0		µg/L	1	11/2/2006 6:13:39 PM
Ethylbenzene	6.2	1.0		µg/L	1	11/2/2006 6:13:39 PM
Xylenes, Total	34	3.0		µg/L	1	11/2/2006 6:13:39 PM
Surr: 4-Bromofluorobenzene	95.9	72.2-125		%REC	1	11/2/2006 6:13:39 PM

Lab ID: 0611006-02 **Collection Date:** 10/30/2006 3:45:00 PM
Client Sample ID: MW #3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/2/2006 7:13:53 PM
Toluene	ND	1.0		µg/L	1	11/2/2006 7:13:53 PM
Ethylbenzene	ND	1.0		µg/L	1	11/2/2006 7:13:53 PM
Xylenes, Total	ND	3.0		µg/L	1	11/2/2006 7:13:53 PM
Surr: 4-Bromofluorobenzene	81.0	72.2-125		%REC	1	11/2/2006 7:13:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENGR. / BP AMERICA

Address: P.O. BOX 87
BLFD, NM 87413

Phone #: 632 - 1199

Fax #:

QA / QC Package: Std ☐ Level 4 ☐

Other:

Project Name: GCU #165

Project #: NV

Project Manager: NV

Sampler: NV

Sample Temperature: 3°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl$_2$	Preservative HNO$_3$	HEAL No. 0611006	(BTEX) ~~+ MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
10/30/06	1615	WATER	MW #2	2-40ml	✓		-1	✓																
10/30/06	1545	WATER	MW #3	2-40ml	✓		-2	✓																

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
10/31/06	1700	[signature]	[signature] ~~10~~ 11-1-06 1010

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

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5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

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5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

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7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5 00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

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QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165

Work Order: 0611006

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	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						
Ethylbenzene	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	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 11/1/2006

Work Order Number 0611006 | Received by GLS

Checklist completed by  11-1-06
Signature | Date

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 received?	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 submitted ☐	Yes ☑	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	3°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO. **CHAIN-OF-CUSTODY # :** N / A

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **January 24, 2007** **SAMPLER :** N J V

Filename : **01-24-07.WK4** **PROJECT MANAGER :** N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	88.08	13.25	24.00	-	-	-	-	-
2	100.06	88.97	11.09	24.00	1500	7.41	1,300	13.4	6.50
3	100.43	85.95	14.48	24.00	1430	7.09	1,300	14.3	4.75
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	01/22/07	1115		

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 both MW's # 2 & # 3. MW # 3 - murky brown in appearance, MW # 2 - dark brown in appearance with wisp of sheen within bucket of purged water. Collected BTEX from both MW's # 2 & # 3.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.10 ft., MW # 3 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Jan-07*

CLIENT: Blagg Engineering
Project: GCU #165

Lab Order: 0701310

Lab ID: 0701310-01
Client Sample ID: MW#2

Collection Date: 1/24/2007 3:00:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **LMM**
Benzene	6.0	1.0		µg/L	1	1/26/2007 9:50:09 PM
Toluene	ND	1.0		µg/L	1	1/26/2007 9:50:09 PM
Ethylbenzene	7.1	1.0		µg/L	1	1/26/2007 9:50:09 PM
Xylenes, Total	55	3.0		µg/L	1	1/26/2007 9:50:09 PM
Surr: 4-Bromofluorobenzene	87.8	70.2-105		%REC	1	1/26/2007 9:50:09 PM

Lab ID: 0701310-02
Client Sample ID: MW#3

Collection Date: 1/24/2007 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **LMM**
Benzene	ND	1.0		µg/L	1	1/26/2007 10:20:19 PM
Toluene	ND	1.0		µg/L	1	1/26/2007 10:20:19 PM
Ethylbenzene	ND	1.0		µg/L	1	1/26/2007 10:20:19 PM
Xylenes, Total	ND	3.0		µg/L	1	1/26/2007 10:20:19 PM
Surr: 4-Bromofluorobenzene	86.6	70.2-105		%REC	1	1/26/2007 10:20:19 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENG.R. / BP AMERICA
Project Name: GCU #165
Address: P.O. BOX 87 BLFD., NM 87413
Project #: NV
Project Manager: NV
Phone #: 632-1199
Sampler: NV
Fax #:
Sample Temperature: 3°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. 0701310	(BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles or Headspace (Y or N)
1/24/07	1500	WATER	MW #2	2-40ml	✓			1	✓															
1/24/07	1430	WATER	MW #3	2-40ml	✓			2	✓															

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	
1/25/07	1110	Allison VM	Tonya Shan	11/26/07 933
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

3.2 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.

3.3 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.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 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 action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 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 pose a risk 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 Customer.

4.3 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 Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these 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.

4.4 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.

4.5 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.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 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 or modify the warranty in any way.

5.2 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, 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 sample will be contingent 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 as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure 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.

5.6 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 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 disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

5.8 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 warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 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 accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, 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.

7. AMENDMENTS AND WAIVERS

7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

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

10.1 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 SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165 **Work Order:** 0701310

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		*MBLK*			Batch ID: **R22287**		Analysis Date:	1/26/2007 10:39:39 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID: **R22287**		Analysis Date:	1/26/2007 12:10:12 PM	
Benzene	17.99	µg/L	1.0	90.0	85.9	113			
Toluene	18.70	µg/L	1.0	93.5	86.4	113			
Ethylbenzene	18.92	µg/L	1.0	94.6	83.5	118			
Xylenes, Total	56.87	µg/L	3.0	94.8	83.4	122			

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 1/26/2007

Work Order Number 0701310 | Received by TLS

Checklist completed by B Schlupp (Signature) 1-26-07 (Date)

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 received?	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 submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	3°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **May 8, 2007**

SAMPLER : N J V

Filename : **05-08-07.WK4**

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	87.94	13.39	24.00	-	-	-	-	-
2	100.06	88.84	11.22	24.00	0815	7.41	1,200	12.1	6.25
3	100.43	85.86	14.57	24.00	0745	7.14	1,400	13.2	4.75
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	05/08/07	0740		

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 both MW's # 2 & # 3. MW # 3 - murky brown in appearance, MW # 2 - dark brown in appearance with wisp of sheen within bucket of purged water. Collected BTEX from both MW's # 2 & # 3.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.10 ft., MW # 3 ~ 2.20 ft. above grade.

1	101.33	88.08	13.25	24.00	-	-	-	-	-
2	100.06	88.97	11.09	24.00	1500	7.41	1,300	13.4	6.50
3	100.43	85.95	14.48	24.00	1430	7.09	1,300	14.3	4.75

Hall Environmental Analysis Laboratory, Inc.

Date: *22-May-07*

CLIENT: Blagg Engineering
Project: GCU #165

Lab Order: 0705146

Lab ID: 0705146-01
Client Sample ID: MW #2

Collection Date: 5/8/2007 8:15:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.6	1.0		µg/L	1	5/11/2007 4:40:08 PM
Toluene	ND	1.0		µg/L	1	5/11/2007 4:40:08 PM
Ethylbenzene	9.8	1.0		µg/L	1	5/11/2007 4:40:08 PM
Xylenes, Total	120	2.0		µg/L	1	5/11/2007 4:40:08 PM
Surr: 4-Bromofluorobenzene	94.6	70.2-105		%REC	1	5/11/2007 4:40:08 PM

Lab ID: 0705146-02
Client Sample ID: MW #3

Collection Date: 5/8/2007 7:45:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/11/2007 5:10:07 PM
Toluene	ND	1.0		µg/L	1	5/11/2007 5:10:07 PM
Ethylbenzene	ND	1.0		µg/L	1	5/11/2007 5:10:07 PM
Xylenes, Total	ND	2.0		µg/L	1	5/11/2007 5:10:07 PM
Surr: 4-Bromofluorobenzene	89.8	70.2-105		%REC	1	5/11/2007 5:10:07 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

Client: BLAGG ENER / BP AMERICA
Address: P.O. BOX 87
BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: GCU #165
Project #:
Project Manager: NV
Sampler: NV
Sample Temperature: 5°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. 0705146	(BTEX + ~~MTBE~~ + ~~TMB's~~ (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles or Headspace (Y or N)
5/8/07	0815	WATER	MW #2	2-40ml	✓			1	✓															
5/8/07	0745	WATER	MW #3	2-40ml	✓			2	✓															

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	
5/9/07	1500			5/10/07 1412
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

3.2 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.

3.3 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.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 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 action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 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 pose a risk 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 Customer.

4.3 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 Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these 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.

4.4 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.

4.5 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.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 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 or modify the warranty in any way.

5.2 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, 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 sample will be contingent 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 as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure 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.

5.6 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 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 disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

5.8 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 warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 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 accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, 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.

7. AMENDMENTS AND WAIVERS

7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

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

10.1 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 SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165 **Work Order:** 0705146

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML REAGENT BLA		*MBLK*			Batch ID: **R23571**		Analysis Date: 5/11/2007 8:12:17 AM		
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						

Qualifiers:

- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 5/10/2007

Work Order Number 0705146 | Received by TLS

Checklist completed by _____ (Signature) May 10,07 (Date)

Matrix | Carrier name UPS

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 received?	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 submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	5°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **August 15, 2007**

SAMPLER : N J V

Filename : **08-15-07.WK4**

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	87.34	13.99	24.00	-	-	-	-	-
2	100.06	88.24	11.82	24.00	1115	7.30	1,400	25.7	6.00
3	100.43	85.22	15.21	24.00	-	-	-	-	-
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	08/15/07	0900		

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 MW # 2 . MW # 2 - dark brown in appearance . Collected sample from MW # 2 for BTEX analysis only .

Top of casing MW # 1 ~ 2.90 ft. , MW # 2 ~ 2.10 ft. , MW # 3 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: *27-Aug-07*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2
Lab Order:	0708247	**Collection Date:**	8/15/2007 11:15:00 AM
Project:	GCU #165	**Date Received:**	8/17/2007
Lab ID:	0708247-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **SMP**
Benzene	5.2	1.0		µg/L	1	8/23/2007 11:53:39 PM
Toluene	ND	1.0		µg/L	1	8/23/2007 11:53:39 PM
Ethylbenzene	3.8	1.0		µg/L	1	8/23/2007 11:53:39 PM
Xylenes, Total	54	2.0		µg/L	1	8/23/2007 11:53:39 PM
Surr: 4-Bromofluorobenzene	93.9	70.2-105		%REC	1	8/23/2007 11:53:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENER./BP AMERICA
Address: P.O. BOX 87
BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: GCU #165
Project #:
Project Manager: NV
Sampler: NV
Sample Temperature: 1°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No.
8/15/07	1115	WATER	MW #2	2-40ml	✓			0708247 1

ANALYSIS REQUEST

(BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
✓																

Date: 8/16/07 Time: 1545 Relinquished By: (Signature) _____ Received By: (Signature) _____ 8/17/07 1416
Date: _____ Time: _____ Relinquished By: (Signature) _____ Received By: (Signature) _____

Remarks:

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7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

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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.

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QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #165 **Work Order:** 0708247

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R24885**	Analysis Date:		8/23/2007 9:10:07 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R24885**	Analysis Date:		8/23/2007 2:37:33 PM
Benzene	17.77	µg/L	1.0	88.9	85.9	113			
Toluene	17.37	µg/L	1.0	86.9	86.4	113			
Ethylbenzene	18.05	µg/L	1.0	90.2	83.5	118			
Xylenes, Total	54.72	µg/L	2.0	90.9	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R24885**	Analysis Date:		8/23/2007 3:07:41 PM
Benzene	18.32	µg/L	1.0	91.6	85.9	113	3.04	27	
Toluene	18.12	µg/L	1.0	90.6	86.4	113	4.23	19	
Ethylbenzene	18.75	µg/L	1.0	93.7	83.5	118	3.81	10	
Xylenes, Total	56.41	µg/L	2.0	93.7	83.4	122	3.04	13	

Qualifiers:

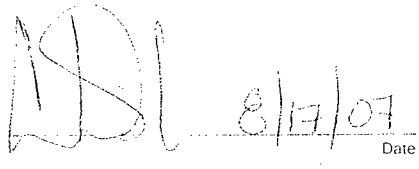
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date and Time Received: 8/17/2007

Work Order Number 0708247 | Received by TLS

Checklist completed by  8/17/07
Signature Date

Matrix | Carrier name UPS

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 received?	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 submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	1°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

GCU # 165
UNIT H, SEC. 29, T28N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : October 25, 2007

SAMPLER : N J V

Filename : 10-25-07.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.33	87.32	14.01	24.00	-	-	-	-	-
2	100.06	88.16	11.90	24.00	1150	7.39	1,500	20.7	6.00
3	100.43	85.29	15.14	24.00	1120	7.12	1,600	18.5	4.50
					INSTRUMENT CALIBRATIONS =	7.00	2,800		
					DATE & TIME =	10/23/07	1100		

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 both MW # 2 & # 3 . Collected samples from MW # 2 & # 3 for BTEX analysis .

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.10 ft., MW # 3 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-07*

CLIENT: Blagg Engineering
Project: GCU #165

Lab Order: 0710519

Lab ID: 0710519-01 **Collection Date:** 10/25/2007 11:50:00 AM
Client Sample ID: MW #2 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/29/2007 9:25:31 PM
Toluene	ND	1.0		µg/L	1	10/29/2007 9:25:31 PM
Ethylbenzene	1.5	1.0		µg/L	1	10/29/2007 9:25:31 PM
Xylenes, Total	83	2.0		µg/L	1	10/29/2007 9:25:31 PM
Surr: 4-Bromofluorobenzene	99.2	70.2-105		%REC	1	10/29/2007 9:25:31 PM

Lab ID: 0710519-02 **Collection Date:** 10/25/2007 11:20:00 AM
Client Sample ID: MW #3 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/29/2007 9:55:30 PM
Toluene	ND	1.0		µg/L	1	10/29/2007 9:55:30 PM
Ethylbenzene	ND	1.0		µg/L	1	10/29/2007 9:55:30 PM
Xylenes, Total	ND	2.0		µg/L	1	10/29/2007 9:55:30 PM
Surr: 4-Bromofluorobenzene	84.0	70.2-105		%REC	1	10/29/2007 9:55:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: BLAGG ENGR. / BP AMERICA
Address: P.O. BOX 87, BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: GCU #165
Project #: 70
Project Manager: NV
Sampler: NV
Sample Temperature: 5

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No.
10/25/07	1150	WATER	MW #2	2-40ml	✓			0710519 1
10/25/07	1120	WATER	MW #3	2-40ml	✓			2

(BTEX + MTBE + TMB's (8021B))	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
✓																
✓																

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
10/25/07	1410		
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
			10/25/07 1515

Remarks:

1. DEFINITIONS

1.1 "Acceptance of a sample" means the determination of HEAL to proceed with work following receipt and inspection of such sample.

1.2 "Customer" means the individual or entity who may request laboratory services and his or its heirs, successors, assigns, and representatives.

1.3 HEAL means Hall Environmental Analysis Laboratory its employees, servants, agents, and representative.

1.4 "Price schedule" means HEAL'S standard price schedule, as such, document may be amended from time to time by HEAL.

1.5 "Results" mean data generated by HEAL from the analysis of one or more samples.

1.6 "Terms and Conditions" mean these Terms and Conditions of sale, including the Price Schedule, and any additions or amendments hereto which are agreed to in writing by HEAL as provided in Section 7.1

2. ORDERS

2.1 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, and b) an agreement to be bound by these Terms and Conditions. The Customer's delivery of samples to HEAL constitutes the Customer'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.

2.2 Any order placed by the Customer under Section 2.1 is subject to a minimum cancellation charge of $250.

3. PAYMENT TERMS

3.1 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.

3.2 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.

3.3 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.

4. RECEIPT OF SAMPLES AND DELIVERY OF SERVICES

4.1 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 action or inaction of HEAL'S carrier shipping or delivering any sample to or from HEAL'S premises.

4.2 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 pose a risk 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 Customer.

4.3 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 Chemist (AOAC), Standard Methods for the examination of Water and Wastewater, or other recognized methodologies. HEAL reserves the right to deviate from these 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.

4.4 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.

4.5 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.

5. WARRANTIES, LIABILITY AND INDEMNIFICATION

5.1 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 or modify the warranty in any way.

5.2 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, 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 sample will be contingent 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 as otherwise specifically provided herein, HEAL shall have no liability, obligation or responsibility of any kind for any losses, costs, expenses, or other damages (including but not limited to any special, indirect, incidental or consequential damages) for any representation or warranty of a kind with respect to HEAL'S Services or Results.

5.3 In no event shall HEAL have any responsibility or liability 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.

5.4 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 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.

5.5 The customer represents and warrants that any sample delivered to HEAL will be preceded or accompanied by complete written disclosure 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.

5.6 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 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 disposer of hazardous or toxic substances found or identified at a site, and the Customer agrees to assume the responsibility for the foregoing.

5.7 The Customer shall indemnify and hold harmless HEAL from and against any and all claims, suits, judgements, damages, losses, liabilities, expenses, payments, taxes, 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 regardless of the Customer's compliance with paragraph 5.5 hereof 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.

5.8 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 warranting the reimbursement.

6. ENTIRE AGREEMENT: SEVERABILITY

6.1 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 accordance with Section 7.1; and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Customer and HEAL. HEAL specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Customer to HEAL.

6.2 The invalidity or unenforceability, 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.

7. AMENDMENTS AND WAIVERS

7.1 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 required 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 whatsoever 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.

7.2 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 occasion or a waiver of any other breach by or obligation of the Customer.

8. SAMPLE STORAGE

8.1 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 extracts for longer periods is by request only. Sample storage charges depend upon storage requirements and duration. Nominally, a sample storage fee of $5.00 per sample, per month will be billed monthly unless other arrangements are made. If requested, unused sample material 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 and billed at the rate of $25.00 per sample. HEAL reserves the right to return all dibenzodioxins/dibenzofurans to the client.

9. SECTION HEADING

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

10.1 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 SUMMARY REPOR

Client: Blagg Engineering
Project: GCU #165 **Work Order:** 0710519

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R25789**	Analysis Date:	10/29/2007 9:22:13 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100NG BTEX LCS		*LCS*			Batch ID:	**R25789**	Analysis Date:	10/29/2007 7:25:28 PM	
Benzene	21.21	µg/L	1.0	106	85.9	113			
Toluene	20.53	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.10	µg/L	1.0	99.7	83.5	118			
Xylenes, Total	59.33	µg/L	2.0	98.3	83.4	122			

Qualifiers:

E	*Value above quantitation range*	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG** Date and Time Received: **10/26/2007**

Work Order Number **0710519** Received by AT

Checklist completed b  10/26/07

Signature Date

Matrix Carrier name UPS

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 received?	Yes ☑	No ☐		
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All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **5°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____