3R423

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

February 1, 2011

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

RE: BP America Production Company
Groundwater Monitoring Report
Hutton GC # 1E, Unit F, Sec. 6, T29N, R12W, NMPM
San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-423-0

Dear Mr. von Gonten:

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

The last formal correspondence to NMOCD was conducted with letter dated, March 28, 2008. Since then, BP has followed its NMOCD approved groundwater management plan and continues to monitor the site. No permanent closure is requested at this time.

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. Jeff Peace, Environmental Advisor, BP, Farmington, NM

NJV/njv

Hutton GC 1E 02-01-11 CVL.DOC

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

HUTTON GC #1E
(F) SECTION 6, T29N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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

DECEMBER 2010

PREPARED BY:
BLAGG ENGINEERING, INC.

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

BP AMERICA PRODUCTION COMPANY
Hutton GC #1E
SW¼ NE¼, Sec. 6, T29N, R12W

Remediation via Excavation Date: October 2008

Monitor Well Installation Dates: September 2006, 10/20/09 (MW # 2R)

Monitor Well Sampling Dates: 9/12/08, 5/16/09, 10/26/09, 2/27/10, 5/11/10

Pit Closure & Background:

Site separator and production tank pit closures were conducted in June 1994 and February 1995 respectively by removing impacted soil via excavation. Groundwater impact was identified within the source area via installation of a monitor well in September 2006 (MW #2). Documentation for this work and subsequent groundwater monitoring data for the site has previously been submitted for New Mexico Oil Conservation Division (**NMOCD**) review. The reporting herein is for further site soil remediation, groundwater monitor well installation, and site monitoring conducted in 2008 and 2010.

Soil Remediation and Groundwater Abatement:

In October 2008, excavation of a potential source area was conducted using a trackhoe (Figure 1A). Groundwater depth was recorded at approximately four (4) to five (5) feet below surface grade during the removal of apparent impacted soils. The excavation area was approximately 2,900 square feet with an average depth of approximately 5½ feet. A recorded 747 cubic yards of soil were removed and transported to BP's Crouch Mesa Facility.

MW #2R was installed on October 20, 2009 and quarterly sampling was initiated in January 2010. Boring log of MW #2R along with its well completion information is contained within this report.

Surface owner notification requesting approval of a down gradient groundwater monitor well be installed outside the site's western security perimeter fencing was denied by the landowner. It was communicated that future liability of groundwater impact confirmation data may be obligated by the landowner if such action is required by any authoritative regulatory agency.

Groundwater Monitor Well Sampling Procedures:

Groundwater monitor well MW #2R was purged of its well bore using a new disposable bailer, then given a sufficient amount of time to allow recovery prior to sample collections. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B was conducted.

Fluids generated during monitor well development and purging were managed by discarding into the separator above-grade tank (AGT) located on the well site. The AGT contents are eventually disposed through approved NMOCD operational procedures for removal of produced fluids.

Water Quality and Gradient Information:

Quarterly sampling of the groundwater monitor well MW #2R was conducted in September 2008 and quarterly in 2010. A historical summary of laboratory analytical BTEX results are included within the table on the following page. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included within this report.

Groundwater contour maps (Figure 2 through Figure 6) reveal the relative elevations from the site wells have shown an apparent south-southwest or southwest flow direction.

Summary and/or Recommendations:

Hydrocarbon impacted soils and groundwater at the site appear to have been remediated via excavation. Continued site monitoring per BP's NMOCD approved Ground Water Management Plan is recommended. No additional remedial actions are indicated or suggested at this time.

BP AMERICA PRODUCTION CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

Hutton GC # 1E
UNIT F, SEC. 6, T29N, R12W

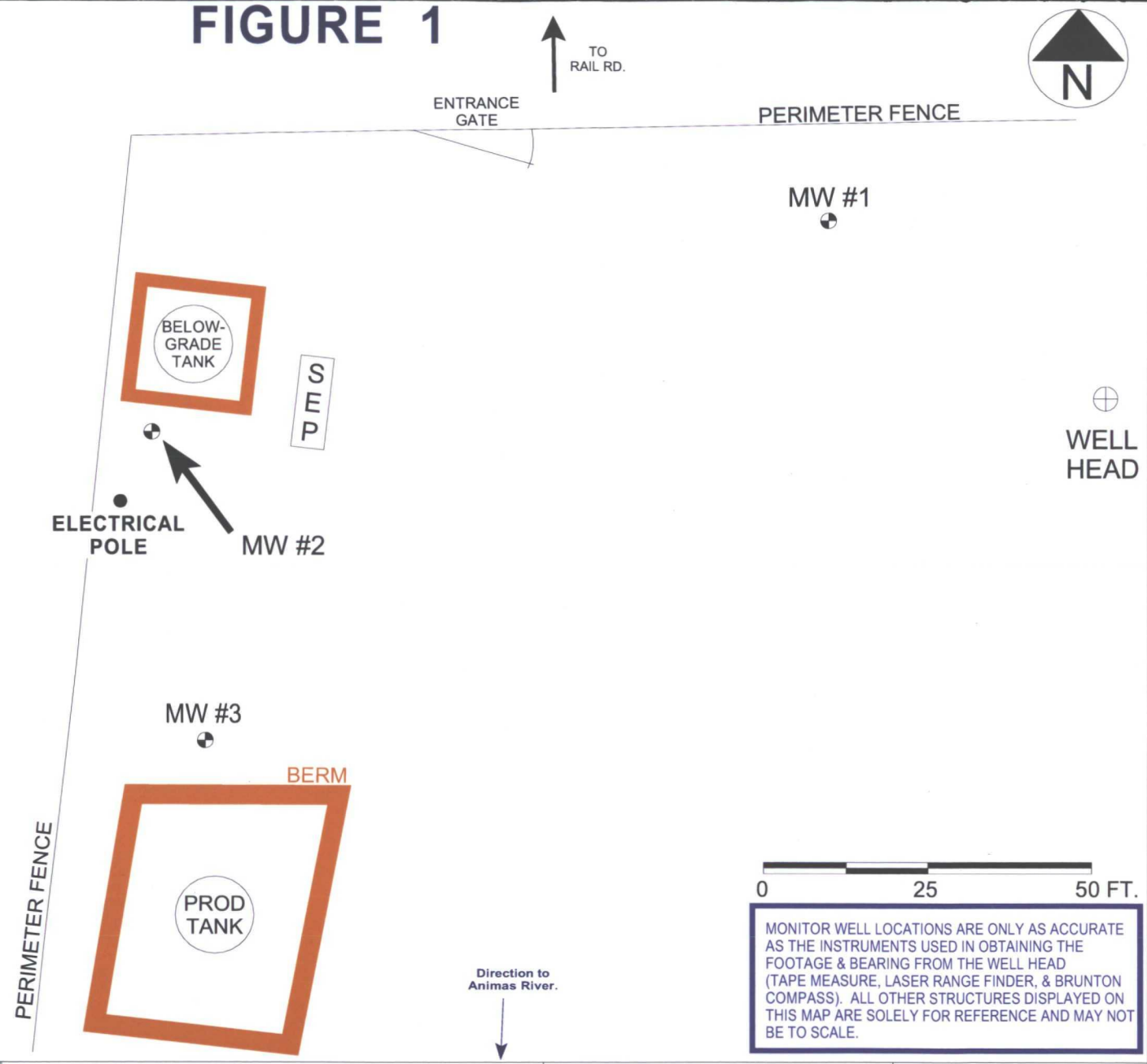
REVISED DATE: October 28, 2010

FILENAME: (Hut-4Q10.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
02-Oct-06	MW #1	6.80	15.00		2,100	6.93		ND	ND	ND	ND
02-Oct-06	MW #2	7.39	15.00		2,000	7.14		2.4	13	12	81
20-Dec-06		6.75			2,100	7.25		1.7	24	58	**1,000**
17-May-07		7.03					**0.04**				
12-Sep-08		7.71			1,500	7.36		ND	ND	ND	**ND**
13-Jan-10	MW #2R	5.88			1,500	7.35		**40**	20	86	**770**
"	dup.	"			"	"		**38.4**	ND	92.0	**816**
29-Apr-10		5.87			1,600	7.18		**20**	5.3	13	**110**
21-Jul-10		7.31			2,100	7.08		**37**	5.4	61	**100**
12-Oct-10		6.56			1,800	7.11		**1.9**	ND	1.3	**ND**
02-Oct-06	MW #3	7.63	15.00		1,900	7.39		ND	ND	4.9	34
20-Dec-06		7.04			2,000	7.44		ND	ND	ND	ND
21-Feb-07		6.95			1,900	7.31		ND	ND	ND	ND
17-May-07		7.34			2,100	7.25		ND	ND	ND	ND
02-Oct-06	MW #4	7.01	15.00		2,200	7.17		ND	ND	ND	ND
20-Dec-06		6.65			1,900	7.49		ND	ND	ND	ND
21-Feb-07		6.59			1,800	7.34		ND	ND	ND	ND
17-May-07		6.96			2,000	7.35		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 RESULTS IN BOLD RED TYPE EXCEEDED .**
3) **ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10).**
4) **NMWQCC INDICATES NEW MEXICO WATER QUALITY CONTROL COMMISSION.**

FIGURE 1



BP AMERICA PRODUCTION CO.

HUTTON GC # 1E

SE/4 NW/4 SEC. 6, T29N, 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: REMEDIATION

DRAWN BY: NJV

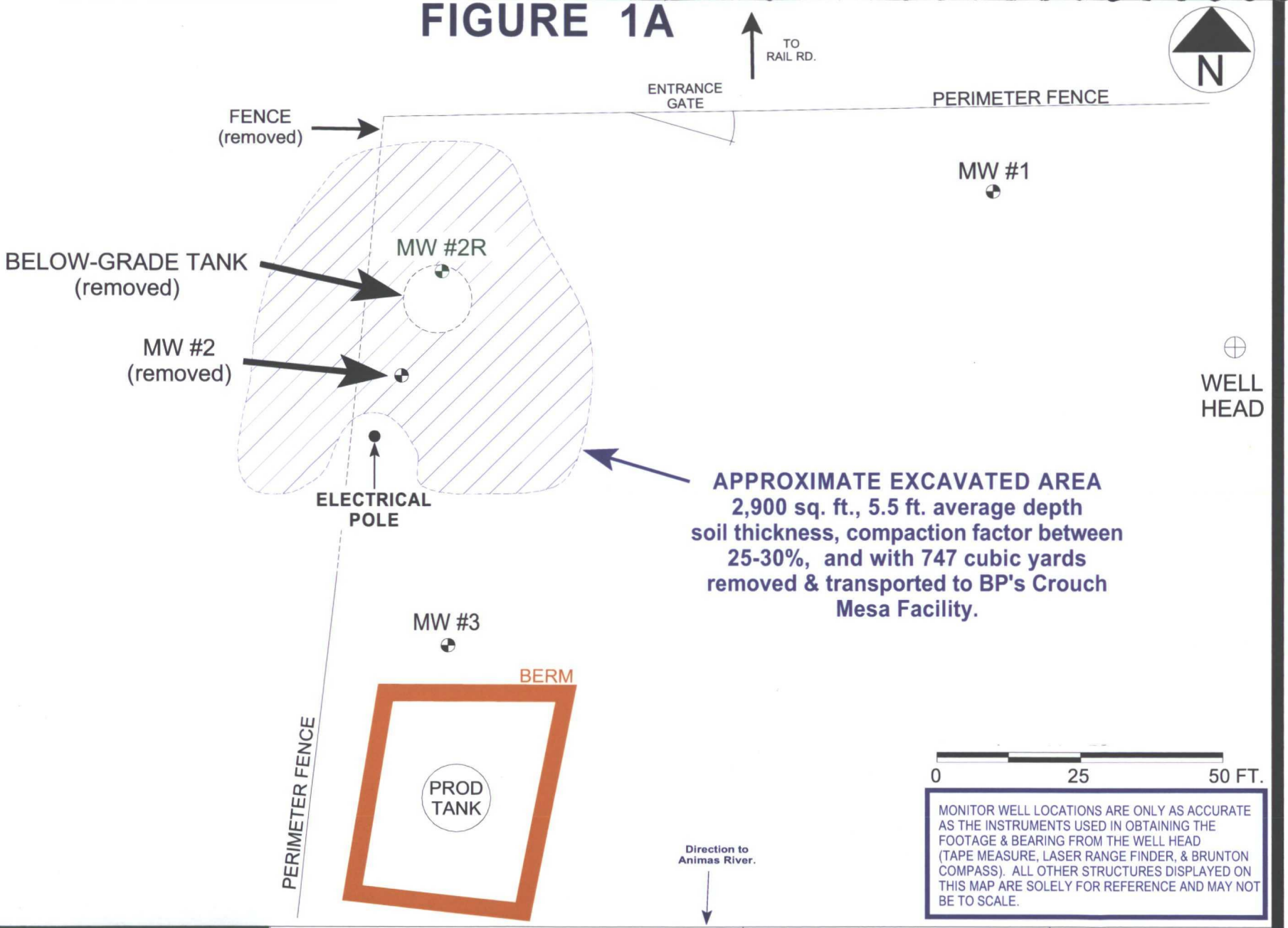
FILENAME: HUTTON GC 1E-PREEXCAV.SKF

REVISED: 09-30-10 NJV

PRE EXCAVATION MAP

10/08

FIGURE 1A



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.

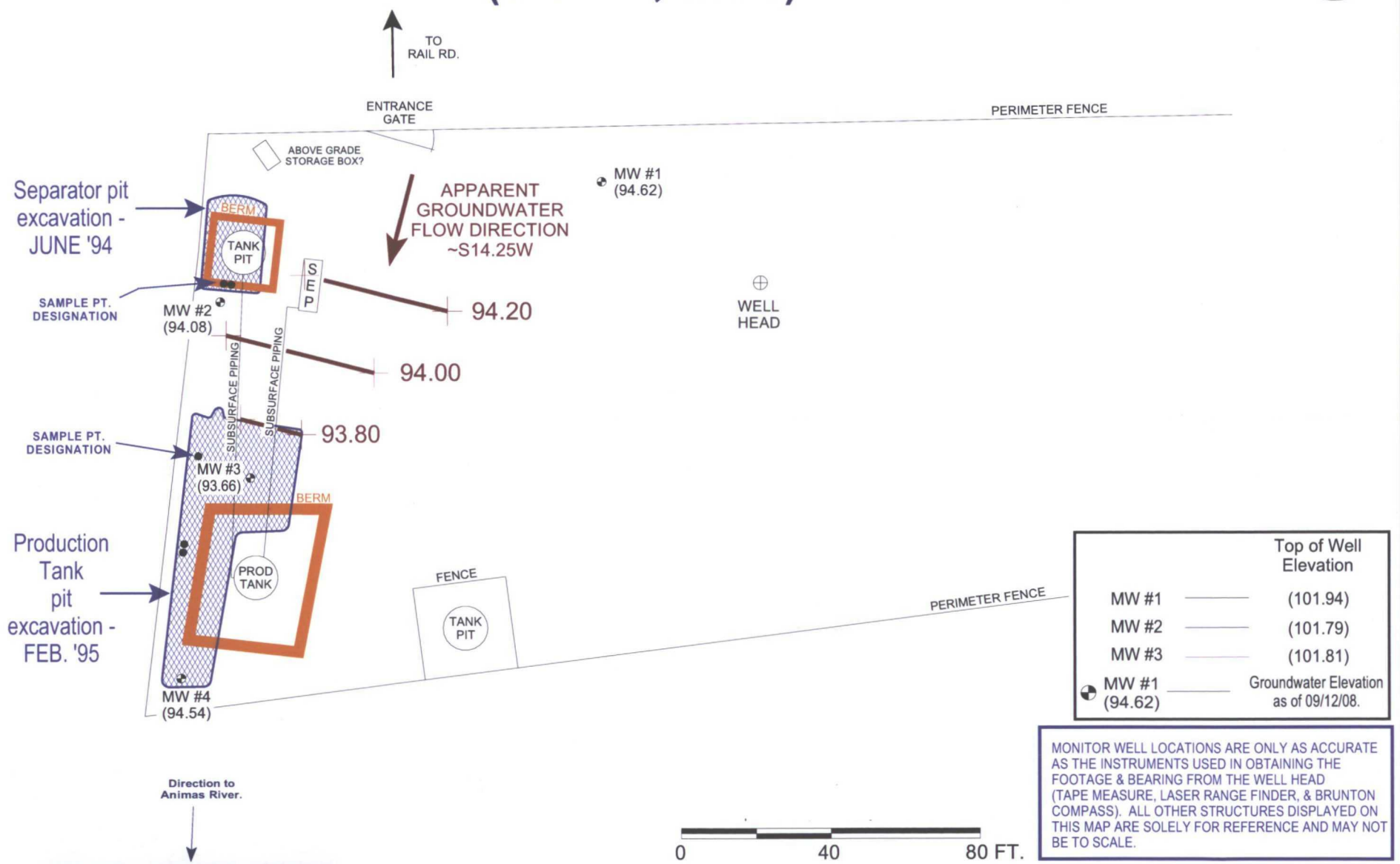
BP AMERICA PRODUCTION CO.
HUTTON GC # 1E
SE/4 NW/4 SEC. 6, T29N, R12W
SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: REMEDIATION
DRAWN BY: NJV
FILENAME: HUTTON GC 1E-EXCAV.SKF
REVISED: 09-30-10 NJV

EXCAVATION MAP
10/08

FIGURE 2
(3rd 1/4, 2008)



BP AMERICA PRODUCTION CO.

HUTTON GC # 1E

SE/4 NW/4 SEC. 6, T29N, 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

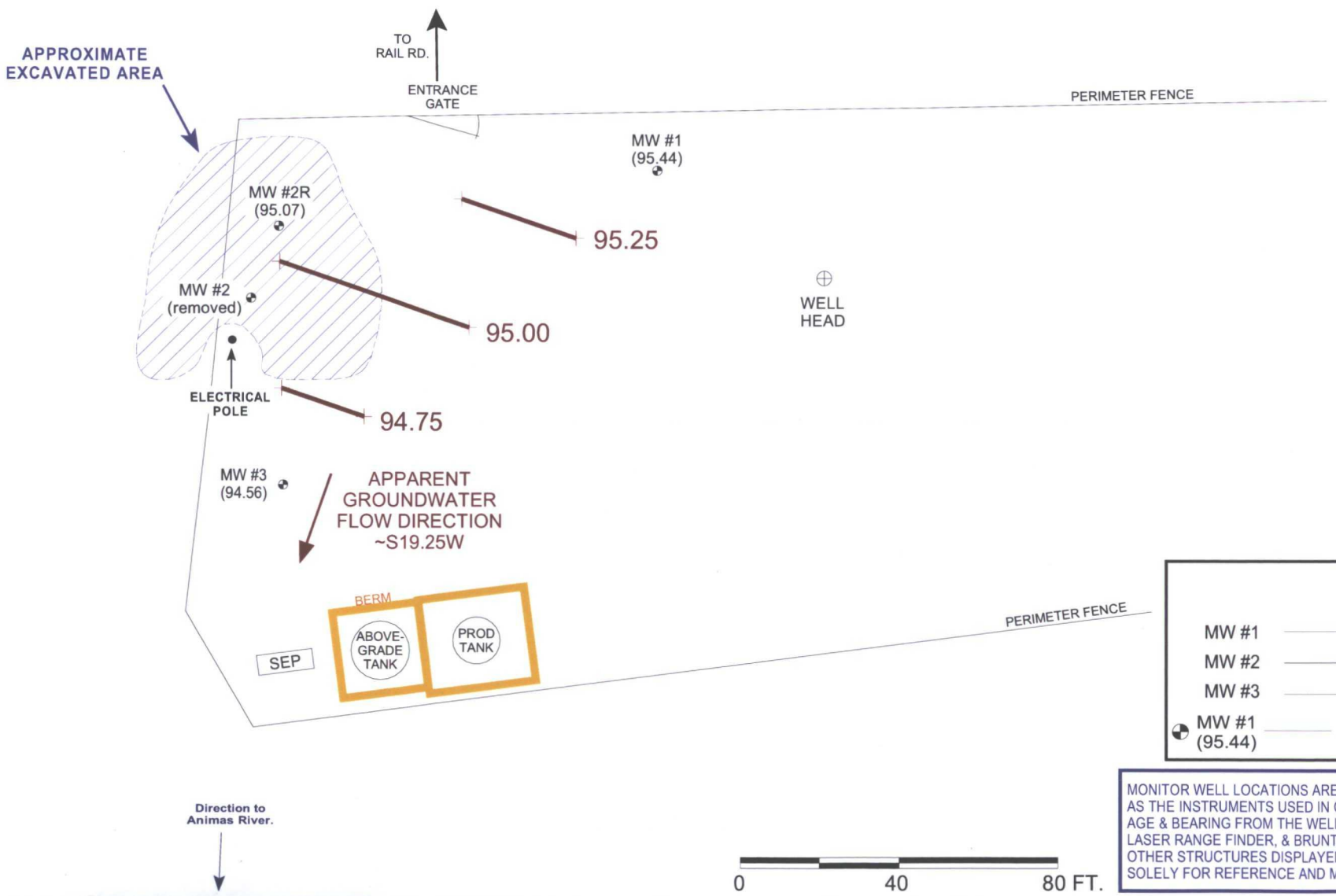
FILENAME: 09-12-08-GW.SKF

REVISED: 09-12-08 NJV

GROUNDWATER GRADIENT MAP

09/08

FIGURE 3
(1st 1/4, 2010)



	Top of Well Elevation
MW #1	(101.94)
MW #2	(100.88)
MW #3	(101.81)
MW #1 (95.44)	Groundwater Elevation as of 01/13/10.

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.

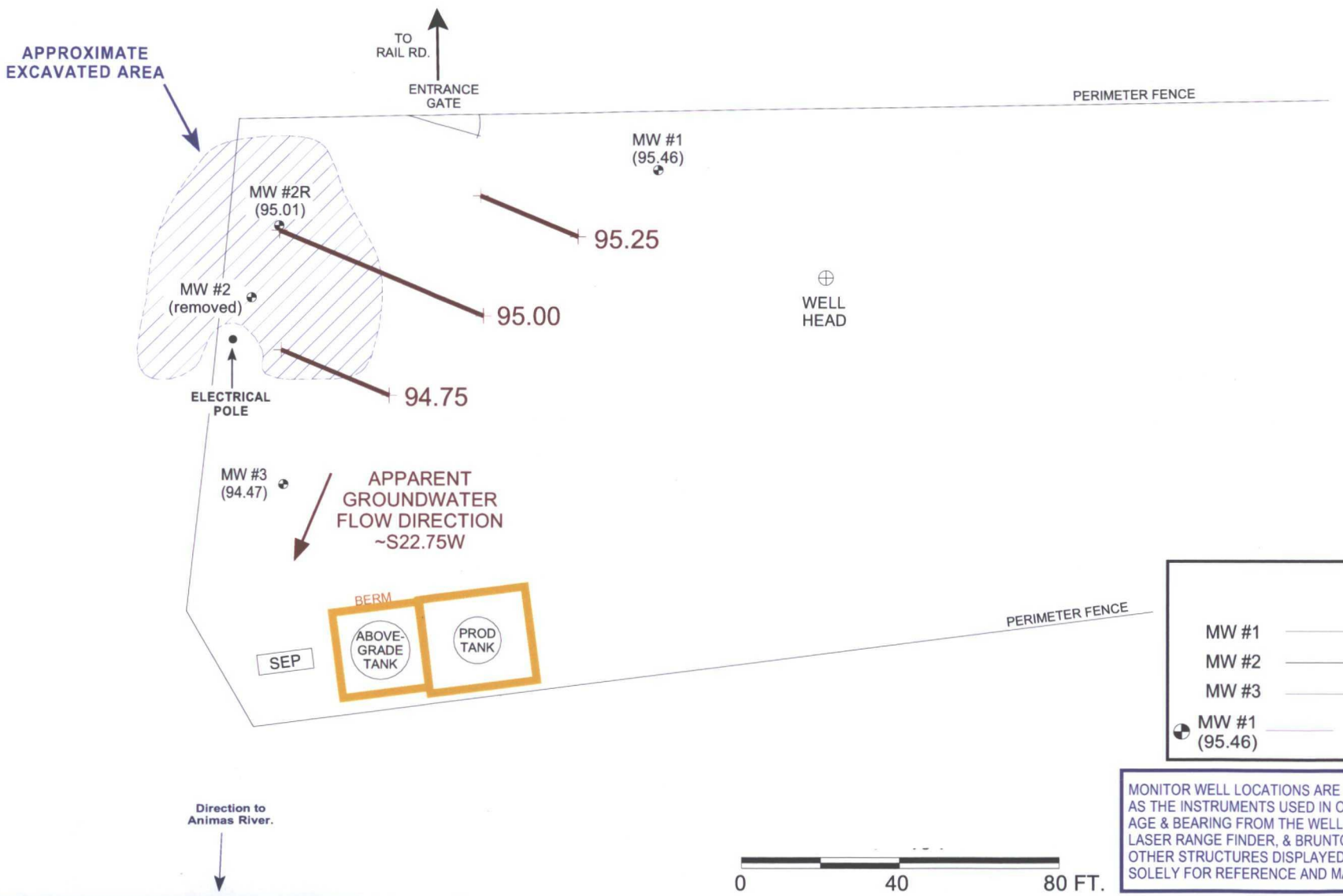
BP AMERICA PRODUCTION CO.
HUTTON GC # 1E
SE/4 NW/4 SEC. 6, T29N, R12W
SAN JUAN COUNTY, NEW MEXICO

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: 01-13-10-GW.SKF
REVISED: 04-30-10 NJV

GROUNDWATER CONTOUR MAP
01/10

FIGURE 4
(2nd 1/4, 2010)



BP AMERICA PRODUCTION CO.

HUTTON GC # 1E

SE/4 NW/4 SEC. 6, T29N, 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

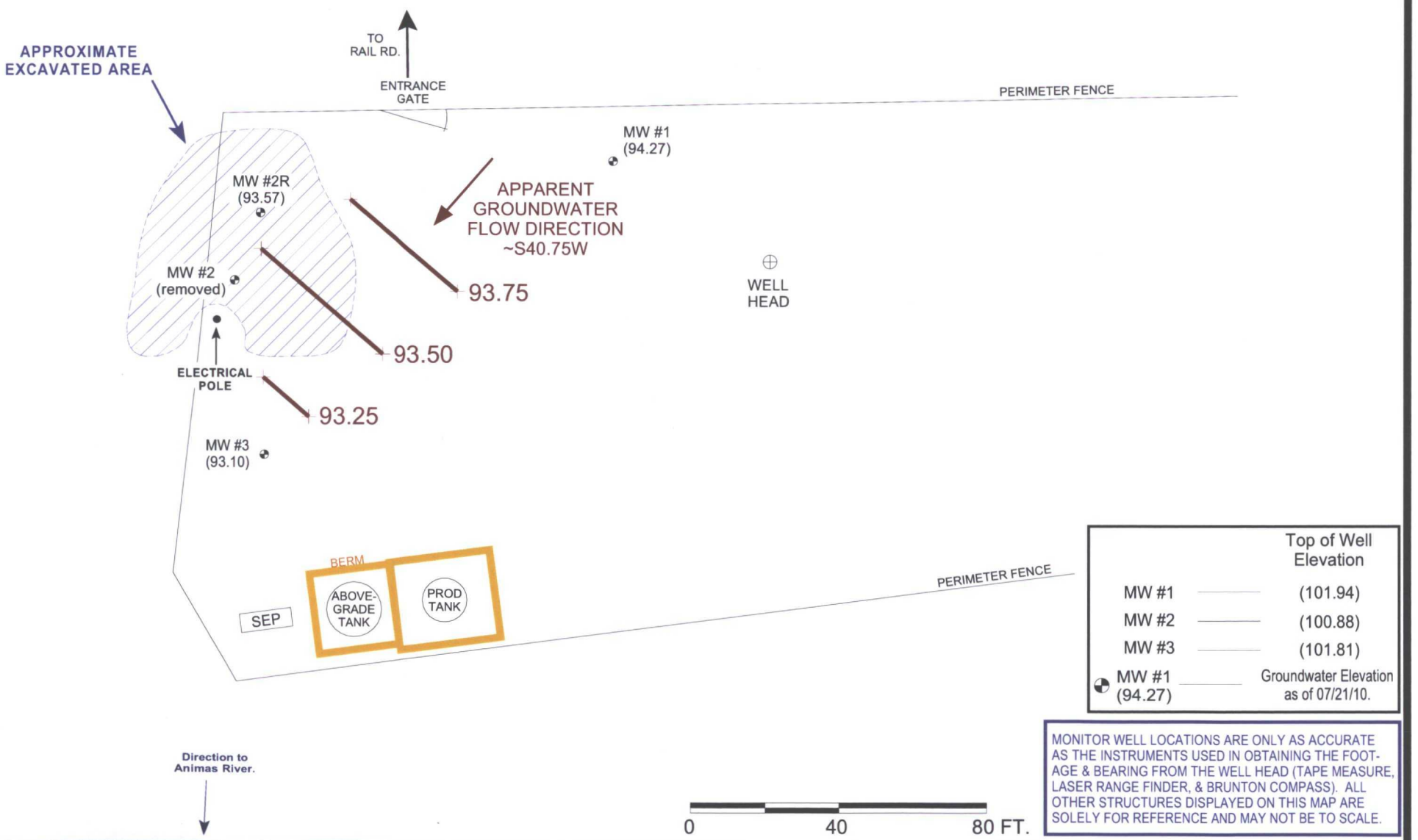
FILENAME: 04-29-10-GW.SKF

REVISED: 04-30-10 NJV

GROUNDWATER CONTOUR MAP

04/10

FIGURE 5
(3rd 1/4, 2010)



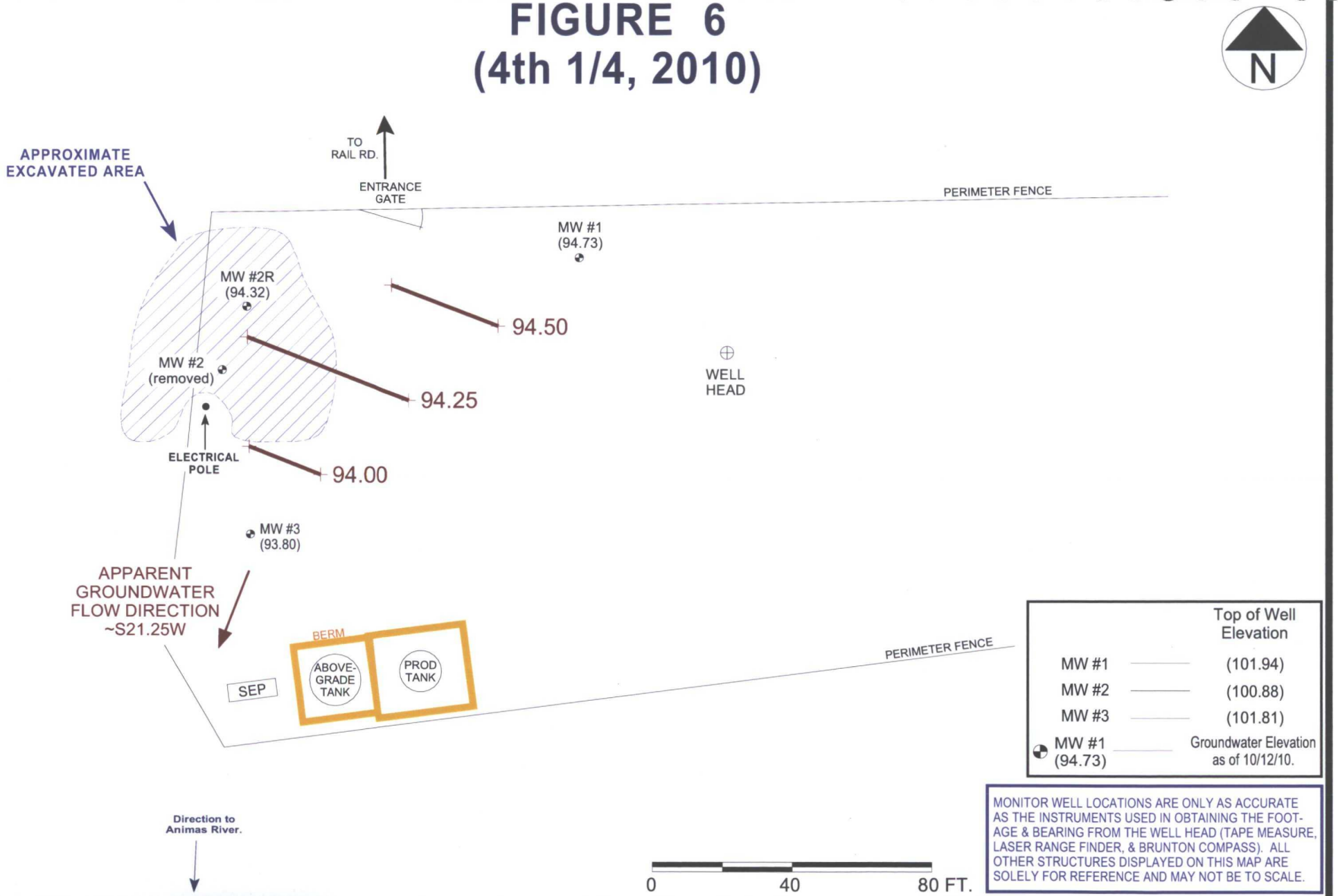
BP AMERICA PRODUCTION CO.
HUTTON GC # 1E
SE/4 NW/4 SEC. 6, T29N, R12W
SAN JUAN COUNTY, NEW MEXICO

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: 07-21-10-GW.SKF
REVISED: 07-21-10 NJV

GROUNDWATER CONTOUR MAP
07/10

FIGURE 6
(4th 1/4, 2010)



BP AMERICA PRODUCTION CO.

HUTTON GC # 1E

SE/4 NW/4 SEC. 6, T29N, 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: 10-12-10-GW.SKF

REVISED: 10-12-10 NJV

GROUNDWATER CONTOUR MAP

10/10

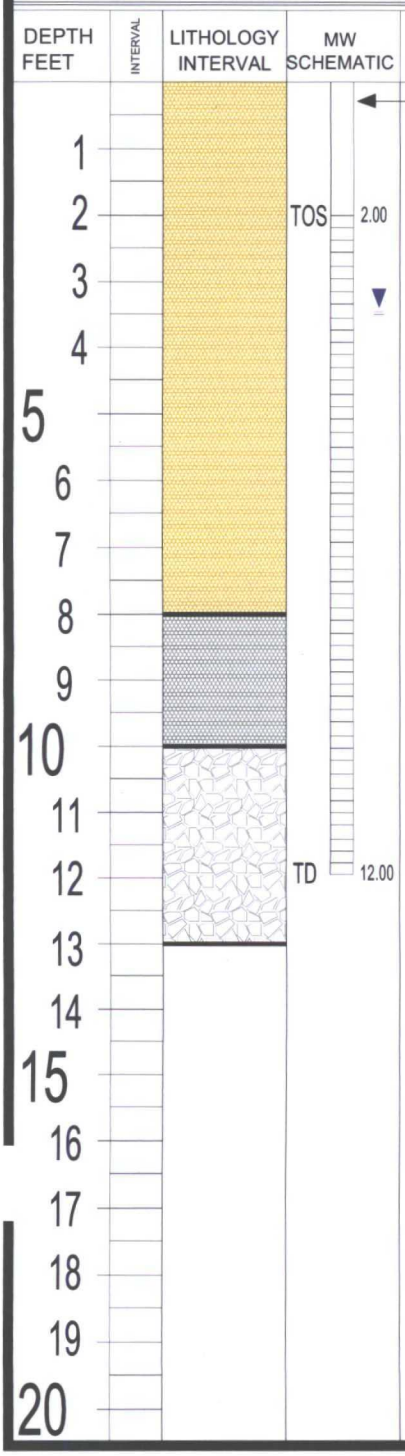
BLAGG ENGINEERING, INC.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2R

BORE / TEST HOLE REPORT

BORING #.....	BH-5
MW #.....	2R
PAGE #.....	5
DATE STARTED	1/7/10
DATE FINISHED	1/7/10
OPERATOR.....	KP
PREPARED BY	NJV

CLIENT: BP AMERICA PRODUCTION CO.
LOCATION NAME: HUTTON GC #1E UNIT F, SEC. 6, T29N, R12W
CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICE, INC.
EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
BORING LOCATION: 139 FT., N 84.5 W FROM WELL HEAD.



FIELD CLASSIFICATION AND REMARKS

TOP OF CASING APPROX. 2.50 FEET ABOVE GRADE.

DARK YELLOWISH ORANGE SAND WITH SOME GRAVEL (FILL MATERIAL), NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 8.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 3.40 FT. FROM GROUND SURFACE MEASURED ON 1/8/10.

MEDIUM GRAY TO OLIVE BLACK SAND, NON COHESIVE, WET TO SATURATED, FIRM TO LOOSE, STRONG APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (8.0 - 10.0 FT. BELOW GRADE).

OLIVE GRAY TO OLIVE BLACK SAND AND GRAVEL, NON COHESIVE, SATURATED, FIRM, SLIGHT APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (10.0 - 13.0 FT. BELOW GRADE).

NOTES:
- SAND.
- SAND AND GRAVEL.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.50 ft. above grade to 2.00 ft. below grade, 0.010 slotted screen between 2.00 to 12.00 ft. below grade, sand packed annular to 1.0 ft. below grade, bentonite grout between 0.0 to 1.5 ft. below grade. Completed with well protector encompassing above grade casing and secured with padlock.

DRAWING: Hutton GC 1E MW2R-BH5. SKF | DATE: 01/08/10 | DWN BY: NJV

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

HUTTON GC # 1E
UNIT F, SEC. 6, T29N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **September 12, 2008**

SAMPLER : N J V

Filename : **09-12-08.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	101.94	94.62	7.32	15.00	-	-	-	-	-
2	101.79	94.08	7.71	15.00	1100	7.36	1,500	23.7	4.50
DEPTH TO PRODUCT (FT.) =			n/a			**PRODUCT THICKNESS (FT.) =**			n/a
3	101.81	93.66	8.15	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	09/12/08	1055

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 . Collected BTEX samples from MW # 2 only .
Dusky black appearance in MW # 3 & # 4 , physically detected hydrocarbon odor in MW # 2 .
MW # 4 casing cut below surface grade to accomadate landowner's request and not resurveyed .

Top of casing MW # 1 ~ 2.70 ft., MW # 2 ~ 2.60 ft., MW # 3 ~ 2.80 ft. above grade .

on-site	9:55	temp	71 F
off-site	11:21	temp	75 F
sky cond.	Sunny		
wind speed	0 - 5	direct.	W

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Sep-08*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2
Lab Order:	0809321	**Collection Date:**	9/12/2008 11:00:00 AM
Project:	Hutton GC #1E	**Date Received:**	9/16/2008
Lab ID:	0809321-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	ND	2.0		µg/L	2	9/23/2008 2:06:22 PM
Toluene	ND	2.0		µg/L	2	9/23/2008 2:06:22 PM
Ethylbenzene	ND	2.0		µg/L	2	9/23/2008 2:06:22 PM
Xylenes, Total	ND	4.0		µg/L	2	9/23/2008 2:06:22 PM
Surr: 4-Bromofluorobenzene	102	65.9-130		%REC	2	9/23/2008 2:06:22 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

Client: BLAGG ENER. / BP AMERICA

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

Phone #: 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: HUTTON GC #1E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0809321	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
9/12/08	1100	MW #2	2-40ml	HCl & Cool	-1	✓															

Date:	Time:	Relinquished by:	Received by:	Remarks:
9/15/08	1600	Nelson Velez		
Date:	Time:	Relinquished by:	Received by: 13:15 9/16/08	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Hutton GC #1E **Work Order:** 0809321

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID: **R30332**		Analysis Date:	9/22/2008 9:16:23 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: B		*MBLK*			Batch ID: **R30332**		Analysis Date:	9/22/2008 11:18:17 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						
Sample ID: 5ML RB		*MBLK*			Batch ID: **R30349**		Analysis Date:	9/23/2008 9:31:50 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: **R30332**		Analysis Date:	9/23/2008 1:01:38 AM	
Benzene	19.05	µg/L	1.0	95.3	85.9	113			
Toluene	18.72	µg/L	1.0	93.6	86.4	113			
Ethylbenzene	19.18	µg/L	1.0	95.9	83.5	118			
Xylenes, Total	57.91	µg/L	2.0	96.5	83.4	122			
Sample ID: LCS-BTEX 100NG		*LCS*			Batch ID: **R30349**		Analysis Date:	9/23/2008 8:42:42 PM	
Benzene	18.28	µg/L	1.0	91.4	85.9	113			
Toluene	17.89	µg/L	1.0	89.5	86.4	113			
Ethylbenzene	18.40	µg/L	1.0	92.0	83.5	118			
Xylenes, Total	55.93	µg/L	2.0	93.2	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 Received: 9/16/2008

Work Order Number 0809321 | Received by: ARS

Checklist completed by: [signature] Signature | 9/16/08 Date | Sample ID labels checked by: TS Initials

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°	*<6° C 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

HUTTON GC # 1E
UNIT F, SEC. 6, T29N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL
PACE ANALYTICAL

Date : **January 13, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **01-13-10.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	101.94	95.44	6.50	15.00	-	-	-	-	-
2R	100.88	95.07	5.81	14.50	1320	7.37	1,500	10.8	4.50
3	101.81	94.56	7.25	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	01/11/10	1510

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 ".

MW # 2R installed on 01 / 07 / 10 and initial development on 01 / 08 / 10. Excellent recovery in MW # 2R , grayish tint appearance and very slight hydrocarbon odor detected physically . Collected sample from MW # 2R only for BTEX per US EPA Method 8021B (duplicate collected).
Surveyed monitor well tops on 4 / 30 / 10 .

Top of casing MW # 1 ~ 2.70 ft., MW # 2R ~ 2.50 ft., MW # 3 ~ 2.80 ft. above grade .

on-site	**12:52**	temp	**39 F**
off-site	**2:08**	temp	**44 F**
sky cond.	**Sunny**		
wind speed	**0 - 5**	direct.	**SE - E**

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jan-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2R
Lab Order:	1001169	**Collection Date:**	1/13/2010 1:20:00 PM
Project:	Hutton GC #1E	**Date Received:**	1/14/2010
Lab ID:	1001169-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	40	10		µg/L	10	1/22/2010 11:46:57 AM
Toluene	20	10		µg/L	10	1/22/2010 11:46:57 AM
Ethylbenzene	86	10		µg/L	10	1/22/2010 11:46:57 AM
Xylenes, Total	770	20		µg/L	10	1/22/2010 11:46:57 AM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	10	1/22/2010 11:46:57 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: HUTTON GC
Pace Project No.: 6072335

Sample: MW #2R **Lab ID: 6072335001** Collected: 01/13/10 13:20 Received: 01/14/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	**38.4**	ug/L	5.0	5		01/23/10 18:08	71-43-2	
Ethylbenzene	**92.0**	ug/L	5.0	5		01/23/10 18:08	100-41-4	
Toluene	ND	ug/L	5.0	5		01/23/10 18:08	108-88-3	
Xylene (Total)	**816**	ug/L	15.0	5		01/23/10 18:08	1330-20-7	
Dibromofluoromethane (S)	103	%	87-113	5		01/23/10 18:08	1868-53-7	
Toluene-d8 (S)	101	%	89-111	5		01/23/10 18:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	5		01/23/10 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-121	5		01/23/10 18:08	17060-07-0	
Preservation pH	**1.0**		1.0	5		01/23/10 18:08		

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

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

Phone #: 505. 632. 1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

☒ Standard ☐ Rush

Project Name: HUTTON GC #1E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1001029	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
1/13/10	1320	WATER	MW #2R	2-40ml	HCl + COOL	-1	✓															

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/13/10	1345			1/14/10	940
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: Blagg Engineering, Inc.
Address: P.O. Box 87
Bloomfield, New Mexico 87413
Email To: blagg_njv@yahoo.com
Phone: 505-632-1199 Fax: 505-632-3903
Requested Due Date/TAT: 01/27/10

Section B Required Project Information:

Report To: Jeff Blagg
Copy To: N/A
Purchase Order No.: Verbal
Project Name: Hutton GC
Project Number: #1E

Section C Invoice Information:

Attention: Jeff Blagg
Company Name: Blagg Engineering, Inc.
Address: P.O. Box 87, Bloomfield, New Mexico 87413
Pace Quote Reference:
Pace Project Manager: MARY JANE WALLS
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER NMOCD
☐ GA ☐ IL ☐ IN ☐ MI ☐ NC
☐ OH ☐ SC ☐ WI ☐ OTHER

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: BTEX (8021B)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	MW #2R	WT	G			1/13/10	1320	0.8F	3				✓						✓		3(DEAM) 001
2	TEMP BLANK	WT	-			-			1										✓		
3	TRIP BLANKS	WT	-			-			3										✓		3(DEAM) 002
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Pace Project No. / Lab I.D.: 60672335

Additional Comments:
CONTAINER TYPE - 40ml VOAs
SAMPLE ORIGIN - SAN JUAN COUNTY, NEW MEXICO

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Nelson Vlg	1/13/10	1345		1/14	900

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
0.8	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Nelson Velez
SIGNATURE of SAMPLER: Nelson Vlg
DATE Signed (MM/DD/YY): 01/13/10

e-File(ALLQ020rev.3,31Mar05))22Jun2005

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Hutton GC #1E **Work Order:** 1001169

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				**Batch ID: R37065**		**Analysis Date: 1/21/2010 9:38:32 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: 5ML RB		*MBLK*				**Batch ID: R37089**		**Analysis Date: 1/22/2010 9:15:10 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: R37065**		**Analysis Date: 1/21/2010 8:15:33 PM**			
Benzene	19.98	µg/L	1.0	20	0	99.9	85.9	113			
Toluene	19.44	µg/L	1.0	20	0	97.2	86.4	113			
Ethylbenzene	19.76	µg/L	1.0	20	0	98.8	83.5	118			
Xylenes, Total	60.05	µg/L	2.0	60	0	100	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*				**Batch ID: R37089**		**Analysis Date: 1/22/2010 8:52:53 PM**			
Benzene	20.72	µg/L	1.0	20	0	104	85.9	113			
Toluene	20.44	µg/L	1.0	20	0	102	86.4	113			
Ethylbenzene	20.79	µg/L	1.0	20	0	104	83.5	118			
Xylenes, Total	63.16	µg/L	2.0	60	0	105	83.4	122			

Qualifiers:

E	Estimated value	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 Received: **1/14/2010**

Work Order Number **1001169** Received by: **TLS**

Checklist completed by: _____ 1/14/10 Sample ID labels checked by: _____

Signature Date Initials

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?	**1.8°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: HUTTON GC
Pace Project No.: 6072335

Kansas Certification IDs
9608 Loiret Boulevard Lenexa, KS 66219
Washington Certification #: C2069
Utah Certification #: 9135995665
Texas Certification #: T104704407-08-TX
Oregon Certification #: KS200001
Oklahoma Certification #: 9205/9935
Nevada Certification #: KS000212008A
Louisiana Certification #: 03055
Kansas/NELAP Certification #: E-10116
Iowa Certification #: 118
Illinois Certification #: 001191
Arkansas Certification #: 05-008-0
A2LA Certification #: 2456.01

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: HUTTON GC
Pace Project No.: 6072335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6072335001	**MW #2R**	Water	01/13/10 13:20	01/14/10 09:00
6072335002	**TRIP BLANKS**	Water	01/13/10 00:00	01/14/10 09:00

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: HUTTON GC
Pace Project No.: 6072335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
6072335001	**MW #2R**	EPA 8260	NLM	9
6072335002	**TRIP BLANKS**	EPA 8260	NLM	9

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

PROJECT NARRATIVE

Project: HUTTON GC
Pace Project No.: 6072335

Method: **EPA 8260**
Description: 8260 MSV UST, Water
Client: BP-Blagg Engineering
Date: January 25, 2010

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/26365

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: HUTTON GC
Pace Project No.: 6072335

Sample: TRIP BLANKS **Lab ID: 6072335002** Collected: 01/13/10 00:00 Received: 01/14/10 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST, Water	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		01/23/10 18:26	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		01/23/10 18:26	100-41-4	
Toluene	ND	ug/L	1.0	1		01/23/10 18:26	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		01/23/10 18:26	1330-20-7	
Dibromofluoromethane (S)	102	%	87-113	1		01/23/10 18:26	1868-53-7	
Toluene-d8 (S)	98	%	89-111	1		01/23/10 18:26	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-115	1		01/23/10 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-121	1		01/23/10 18:26	17060-07-0	
Preservation pH	**1.0**		1.0	1		01/23/10 18:26		

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: HUTTON GC
Pace Project No.: 6072335

QC Batch: MSV/26365 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 6072335001, 6072335002

METHOD BLANK: 594919 Matrix: Water
Associated Lab Samples: 6072335001, 6072335002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	01/23/10 16:18	
Ethylbenzene	ug/L	ND	1.0	01/23/10 16:18	
Toluene	ug/L	ND	1.0	01/23/10 16:18	
Xylene (Total)	ug/L	ND	3.0	01/23/10 16:18	
1,2-Dichloroethane-d4 (S)	%	100	81-121	01/23/10 16:18	
4-Bromofluorobenzene (S)	%	101	87-115	01/23/10 16:18	
Dibromofluoromethane (S)	%	100	87-113	01/23/10 16:18	
Toluene-d8 (S)	%	95	89-111	01/23/10 16:18	

LABORATORY CONTROL SAMPLE: 594920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	10	9.3	93	81-114	
Ethylbenzene	ug/L	10	10.2	102	82-115	
Toluene	ug/L	10	9.7	97	82-114	
Xylene (Total)	ug/L	30	28.9	96	81-116	
1,2-Dichloroethane-d4 (S)	%			101	81-121	
4-Bromofluorobenzene (S)	%			97	87-115	
Dibromofluoromethane (S)	%			103	87-113	
Toluene-d8 (S)	%			99	89-111	

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: HUTTON GC
Pace Project No.: 6072335

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate.

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

BATCH QUALIFIERS

Batch: MSV/26365

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HUTTON GC
Pace Project No.: 6072335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6072335001	**MW #2R**	EPA 8260	MSV/26365		
6072335002	**TRIP BLANKS**	EPA 8260	MSV/26365		

Sample Condition Upon Receipt

Pace Analytical® www.pacelabs.com

Client Name: BLAEG Project # 60172335

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8664 8408 3922

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Optional: Proj. Due Date: 1/15/10 Proj. Name: 1/14

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T-19 / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8 **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C **Comments:**

Date and Initials of person examining contents: BDW 1/14

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 051208-3		

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Shannon Hoover at URS no longer associated with BP Bbags.
MW 1/19/10

Project Manager Review: MW **Date:** 1/15/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

F-KS-C-003-Rev.04, 04February2009

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

HUTTON GC # 1E
UNIT F, SEC. 6, T29N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **April 29, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **04-29-10.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	101.94	95.46	6.48	15.00	-	-	-	-	-
2R	100.88	95.01	5.87	14.50	1240	7.18	1,600	15.0	4.25
3	101.81	94.47	7.34	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	04/29/10	1230

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 # 2R , Collected sample from MW # 2R only for BTEX per US EPA Method 8021B . Surveyed monitor well tops on 4 / 30 / 10 .

Top of casing MW # 1 ~ 2.70 ft., MW # 2R ~ 2.50 ft., MW # 3 ~ 2.80 ft. above grade .

on-site	**1:10**	temp	48 F
off-site	**2:20**	temp	**51 F**
sky cond.	**Partly cloudy**		
wind speed	**10-25 G 30**	direct.	**W**

Hall Environmental Analysis Laboratory, Inc.

Date: *06-May-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2R
Lab Order:	1005036	**Collection Date:**	4/29/2010 12:40:00 PM
Project:	Hutton GC #1E	**Date Received:**	5/4/2010
Lab ID:	1005036-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	20	1.0		µg/L	1	5/6/2010 2:40:50 AM
Toluene	5.3	1.0		µg/L	1	5/6/2010 2:40:50 AM
Ethylbenzene	13	1.0		µg/L	1	5/6/2010 2:40:50 AM
Xylenes, Total	110	2.0		µg/L	1	5/6/2010 2:40:50 AM
Surr: 4-Bromofluorobenzene	98.9	65.9-130		%REC	1	5/6/2010 2:40:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: BLAGG ENGR./BP AMERICA	☒ Standard ☐ Rush
Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413	Project Name: HILTON GC #1E
Phone #: (505) 632-1199	Project #:
email or Fax#:	Project Manager: NELSON VELEZ
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: NELSON VELEZ
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 2.1

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1005136	(BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/29/10	1240	WATER	MW #2R	2-40ml	HCl & cool	1	✓															

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/29/10	1615				
4/30/10	1430			5/4/10	935

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Hutton GC #1E **Work Order:** 1005036

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R38525**	Analysis Date:		5/4/2010 9:52:23 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: 5ML RB		*MBLK*				Batch ID:	**R38553**	Analysis Date:		5/5/2010 9:30:20 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:	**R38525**	Analysis Date:		5/5/2010 5:34:55 AM	
Benzene	21.22	µg/L	1.0	20	0	106	85.9	113			
Toluene	20.93	µg/L	1.0	20	0	105	86.4	113			
Ethylbenzene	20.75	µg/L	1.0	20	0	104	83.5	118			
Xylenes, Total	62.80	µg/L	2.0	60	0	105	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R38553**	Analysis Date:		5/5/2010 8:07:02 PM	
Benzene	19.89	µg/L	1.0	20	0	99.5	85.9	113			
Toluene	19.79	µg/L	1.0	20	0	99.0	86.4	113			
Ethylbenzene	19.47	µg/L	1.0	20	0	97.4	83.5	118			
Xylenes, Total	58.94	µg/L	2.0	60	0	98.2	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R38553**	Analysis Date:		5/5/2010 8:37:27 PM	
Benzene	21.56	µg/L	1.0	20	0	108	85.9	113	8.04	27	
Toluene	21.12	µg/L	1.0	20	0	106	86.4	113	6.47	19	
Ethylbenzene	20.53	µg/L	1.0	20	0	103	83.5	118	5.26	10	
Xylenes, Total	60.73	µg/L	2.0	60	0	101	83.4	122	3.00	13	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG** Date Received: **5/4/2010**

Work Order Number **1005036** Received by: TLS

Checklist completed by: _____ 5/4/10 Sample ID labels checked by: _____
Signature Date Initials

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.1°**	*<6° C 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

HUTTON GC # 1E
UNIT F, SEC. 6, T29N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **July 21, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **07-21-10.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	101.94	94.27	7.67	15.00	-	-	-	-	-
2R	100.88	93.57	7.31	14.50	1245	7.08	2,100	23.6	3.50
3	101.81	93.10	8.71	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	07/20/10	0800

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 # 2R , Collected sample from MW # 2R only for BTEX per US EPA Method 8021B .

Top of casing MW # 1 ~ 2.70 ft., MW # 2R ~ 2.50 ft., MW # 3 ~ 2.80 ft. above grade .

on-site	**12:00**	temp	**83 F**
off-site	**1:00**	temp	**87 F**
sky cond.	**Sunny**		
wind speed	**0 - 5**	direct.	**SE**

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Aug-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2R
Lab Order:	1007845	**Collection Date:**	7/21/2010 12:45:00 PM
Project:	Hutton GC #1E	**Date Received:**	7/23/2010
Lab ID:	1007845-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	37	1.0		µg/L	1	7/30/2010 2:16:41 PM
Toluene	5.4	1.0		µg/L	1	7/30/2010 2:16:41 PM
Ethylbenzene	61	1.0		µg/L	1	7/30/2010 2:16:41 PM
Xylenes, Total	100	2.0		µg/L	1	7/30/2010 2:16:41 PM
Surr: 4-Bromofluorobenzene	121	65.9-130		%REC	1	7/30/2010 2:16:41 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

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

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
HUTTON GC #1E

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1001845	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
7/22/10	1245	WATER	MW #2R	40ml-2	HCl & cool	1	✓															

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/22/10	1530			7/23/10	7:35
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Hutton GC #1E **Work Order:** 1007845

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R40133**		Analysis Date:	7/30/2010 9:20:23 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: **R40133**		Analysis Date:	7/30/2010 7:50:21 PM		
Benzene	18.83	µg/L	1.0	20	0	94.2	87.9	121			
Toluene	18.38	µg/L	1.0	20	0	91.9	83	124			
Ethylbenzene	18.23	µg/L	1.0	20	0	91.2	81.7	122			
Xylenes, Total	55.63	µg/L	2.0	60	0	92.7	85.6	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG** Date Received: **7/23/2010**

Work Order Number **1007845** Received by: ARS

Checklist completed by: _____ 7/23/10 Sample ID labels checked by: _____
Signature Date Initials

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**0.7°**	*<6° C 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

HUTTON GC # 1E
UNIT F, SEC. 6, T29N, R12W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **October 12, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **10-12-10.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	101.94	94.73	7.21	15.00	-	-	-	-	-
2R	100.88	94.32	6.56	14.50	1515	7.11	1,800	21.8	4.00
3	101.81	93.80	8.01	15.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	10/12/10	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 # 2R , Collected sample from MW # 2R only for BTEX per US EPA Method 8021B .

Top of casing MW # 1 ~ 2.70 ft., MW # 2R ~ 2.50 ft., MW # 3 ~ 2.80 ft. above grade .

on-site	**2:35**	temp	**71 F**
off-site	**3:30**	temp	**73 F**
sky cond.	**Sunny**		
wind speed	0 - 5	direct.	**W**

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Oct-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW# 2R
Lab Order:	1010604	**Collection Date:**	10/12/2010 3:15:00 PM
Project:	Hutton GC #1E	**Date Received:**	10/13/2010
Lab ID:	1010604-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	1.9	1.0		µg/L	1	10/19/2010 3:23:48 AM
Toluene	ND	1.0		µg/L	1	10/19/2010 3:23:48 AM
Ethylbenzene	1.3	1.0		µg/L	1	10/19/2010 3:23:48 AM
Xylenes, Total	ND	2.0		µg/L	1	10/19/2010 3:23:48 AM
Surr: 4-Bromofluorobenzene	105	81.3-151		%REC	1	10/19/2010 3:23:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit

Chain-of-Custody Record

Client: BLAGG ENGR./BP AMERICA

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

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: HUTTON GC #1E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1010004	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10/12/10	1515	WATER	MW #2R	40ml-2	HCl + COOL	-1	✓															

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/12/10	1605		MWalters	10/13/10	1130
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

ient: Blagg Engineering
oject: Hutton GC #1E **Work Order:** 1010604

nalyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
hod: EPA Method 8021B: Volatiles											
mple ID: 5ML RB		*MBLK*				Batch ID: **R41614**		Analysis Date: 10/18/2010 9:37:01 AM			
nzene	ND	µg/L	1.0								
uene	ND	µg/L	1.0								
ylbenzene	ND	µg/L	1.0								
enes, Total	ND	µg/L	2.0								
mple ID: 100NG BTEX LCS		*LCS*				Batch ID: **R41614**		Analysis Date: 10/18/2010 1:10:34 PM			
zene	19.57	µg/L	1.0	20	0.16	97.1	84.7	118			
iene	19.27	µg/L	1.0	20	0.196	95.4	82	123			
ylbenzene	19.30	µg/L	1.0	20	0.276	95.1	83	118			
nes, Total	58.89	µg/L	2.0	60	0	98.2	85.4	119			

alifiers:

	Estimated value	H	Holding times for preparation or analysis exceeded
	Analyte detected below quantitation limits	NC	Non-Chlorinated
	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date Received: 10/13/2010

Work Order Number 1010604 | Received by: MLW

Checklist completed by: Signature 10/13/10 Date | Sample ID labels checked by: VG Initials

Matrix: | Carrier name: Priority US Mail

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.1°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____