

3R-42D

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

**GCU # 204E
(I) SECTION 34, T28N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

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

APRIL 2008

**PREPARED BY:
BLAGG ENGINEERING, INC.**

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

BP AMERICA PRODUCTION COMPANY
GCU # 204E - Blow Pit
NE/4 SE/4, Sec. 34, T28N, R12W

Pit Closure Date: June 2003 (blow pit)

Monitor Well Installation Date: 11/1/06 (MW #2), 1/18/07 (MW #1, MW #3)

Monitor Well Sampling Dates: 11/14/06, 1/30/07, 4/25/07, 7/23/07, 10/25/07

Site History:

A site blow pit closure was initiated in June 2003. Two (2) soil samples were collected at the pit center via backhoe at depths of approximately seven (7) and eleven (11) feet below grade respectively (see attached Field Report: Pit Closure Verification form). Split samples were collected at the seven (7) foot depth and submitted to three (3) different laboratories for comparison. Laboratory results (see table below) indicated a need to establish vertical extent of hydrocarbon impacts in order to meet closure according to the New Mexico Oil Conservation Division's (NMOCD) guidelines referenced in Rule 50. In October 2003, Blagg Engineering, Inc. (BEI) attempted to investigate the vertical extent utilizing a truck mounted drill rig with solid 3 ¼ inch augers. Upon reaching a total depth of approximately thirty (30) feet below grade (soils moisture content observed as saturated), a passive vent pipe was installed using two (2) inch PVC piping. The piping was hand driven into the annular after auger removal was finalized (see Bore/Test Hole Report - BH-1) and completed by infilling the annular with Colorado silica sand. In November 2006, monitor well MW #2 was installed adjacent to the passive vent pipe. Field readings and laboratory results from the pit and boring advancements are as follows;

Sample ID	Laboratory	Date	Time	Media Type	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)
1 @ 7'	Envirotech	06/03/03	0750	soil	1,096	1,480	0.291	6.290
1 @ 7'	Hall	06/03/03	0750	soil	1,096	9,700	3.1	202.1
1 @ 7'	iina ba	06/03/03	0750	soil	1,096	10,370	4.8	304.8
2 @ 11'	Hall	06/03/03	0800	soil	1,005	8,000	4.9	184.9
BH-1 @ 27-29'	Hall	10/23/03	1120	soil	N/A	ND	0.34	9.64
NMOCD regulatory standards					100	100	10	50

Note: OVM = Organic Vapor Meter or Photoionization Detector (PID), TPH = Total Petroleum Hydrocarbon per US EPA Method 8015B, BTEX = benzene, toluene, ethylbenzene, and total xylenes, ppm = parts per million or milligram per kilogram (mg/Kg), N/A = Not available, ND = Not detectable at reported limits (less than regulatory standards by at least a magnitude of 10), NMOCD = New Mexico Oil Conservation Division.

Groundwater impacts were identified from sampling and testing of MW #2 in November 2006. After receipt of the laboratory results, NMOCD was notified with a letter dated March 2, 2007 of the groundwater impacts (see attached letter).

Groundwater Investigation and Soil Lithology:

Additional groundwater monitor wells (MW #1 – background and MW #3 – suspected down gradient direction) were installed in January 2007 to delineate the previously identified source area, establish groundwater gradient information, and to test groundwater quality (Figure 1). All three (3) monitor wells were installed utilizing a conventional drill rig with eight inch hollow stem augers. Boring logs 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, non cohesive, and firm. Silty sand, silty clay to clay was observed at depths greater than twelve (12) feet below grade and with varying intervals.

Groundwater Monitor Well Sampling Procedures:

Monitor wells were developed by hand-bailing, using new disposable bailers after installation. Prior to sample collections, the monitor wells were purged approximately three (3) well bore volumes with new disposable bailers. 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 included BTEX by US EPA Method 8021B and general water quality parameters.

Fluids generated during monitor well development and purging were managed by discarding into the compressor tank pit located on the well pad. The tank pit contents are then disposed through approved NMOCD operational procedures for removal of produced fluids.

Groundwater Quality & Flow Direction Information:

Since November 2006, monitor wells have been sampled on a quarterly basis and according to BP's NMOCD approved groundwater management plan (**GMP**). The source area (MW #2) revealed all BTEX constituents in excess of the New Mexico Water Quality Control Commission (**NMWQCC**) groundwater standards during three (3) of four (4) sampling events. Monitor well MW #1 has revealed all BTEX constituents well below 25% of the NMWQCC groundwater standards during the initial sampling event. Monitor well MW #3 showed the first two (2) sampling events with benzene below NMWQCC groundwater standards, but exceeding 25% of the regulatory standard, therefore placing it on a quarterly sampling schedule according to BP's GMP. The following subsequent sample events show benzene fluctuating above and below the NMWQCC groundwater standard of ten (10) parts per billion or micrograms per liter ($\mu\text{g/L}$). General water quality does not appear to show any abnormalities. A historical summary of laboratory analytical BTEX and general water quality results are included within the tables on the following pages. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included in Appendix A.

Groundwater elevations have been measured with a gradient primarily towards the north direction (Figure 2, Figure 4, and Figure 5). Flow direction deviated to the northeast during the April 2007 sampling event (Figure 3). It is postulated that the initiation of seasonal irrigation of the nearby agricultural operation (Navajo Agricultural Product Industry or **NAPI**) was the key factor in this observable event.

Summary and/or Recommendations:

The well site is located in a very remote area of San Juan County near the NAPI area. The presence of BTEX well above NMWQCC groundwater standards within the source area (MW #2) indicates possible long term monitoring is potentially required. It is recommended to re-excavate the source area to a greater depth utilizing a trackhoe, reinstall the source area monitor well, and delineate the lateral extent with a minimum of two (2) additional monitor wells in the north and northeast directions. Continuation of quarterly monitor of MW #3 is also advised.

District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Avenue, Artesia, NM 88210
 District III
 1000 Rio Brazos Road, Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

**State of New Mexico
Energy Minerals and Natural Resources**

**Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address: _____
 Address: 200 ENERGY COURT, FARMINGTON, NM 87410
 Facility or well name: GCU #204E API #: 30-045- 25262 U/L or Qtr/Qtr I Sec 34 T 28N R 12W
 County: SAN JUAN Latitude 36.61615 Longitude 108.09146 NAD: 1927 1983 Surface Owner Federal State Private Indian

Pit

Type: Drilling Production Disposal BLOW
 Workover Emergency
 Lined Unlined
 Liner type: Synthetic Thickness _____ mil Clay
 Pit Volume _____ bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____
 Construction material: **N/A**
 Double-walled, with leak detection? Yes If not, explain why not: _____

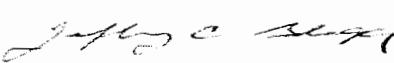
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	20
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	0
Ranking Score (Total Points)			20

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility _____ . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface 14.5 ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PIT LOCATED APPROXIMATELY 531 FT. N3W FROM WELL HEAD. PIT EXCAVATION: WIDTH 18 ft., LENGTH 16 ft., DEPTH 10 ft. PIT REMEDIATION: CLOSE AS IS: <input type="checkbox"/> , LANDFARM: <input checked="" type="checkbox"/> , COMPOST: <input type="checkbox"/> , STOCKPILE: <input type="checkbox"/> , OTHER <input type="checkbox"/> (explain) MONITORING Cubic yards: <u>100</u> ESTABLISH VERTICAL EXTENT. GROUNDWATER IMPACTED.	
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I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an alternative OCD-approved plan .

Date: 12/01/06

Printed Name/Title Jeff Blagg - P.E. # 11607 Signature 

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
 Printed Name/Title _____ Signature _____ Date: _____

CLIENT: BP

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

LOCATION NO: B1221
 10880
 12166
 COCR NO: N/A

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: GCM WELL #: 204E TYPE: BLOW
 QUAD/UNIT: I SEC: 34 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM
 QTR/FOOTAGE: NW 1/4 25' NE (SE CONTRACTOR: FUNT (BEN))

DATE STARTED: 6/3/03

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 18 FT. x 16 FT. x 10 FT. DEEP. CUBIC YARDAGE: 100

DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARM
 LAND USE: NAPI - SURF. LSE - NAVATO LEASE: NAVATO FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 531 FT. NW FROM WELLHEAD.

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

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

OVM CALIB. READ. = 53.8 ppm
 OVM CALIB. GAS = 100 ppm RF = 0.52
 TIME: 8:12 AM DATE: 6/3/03

SOIL AND EXCAVATION DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: OK. YELL. ORANGE TO BLACK

COHESION (ALL OTHERS): (NON COHESIVE) SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - LT. GRAY TO BLACK (SEE PIT PROFILE)

HC ODOR DETECTED: YES NO EXPLANATION - EXCAVATED SOIL & OVM SAMPLES.

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. -

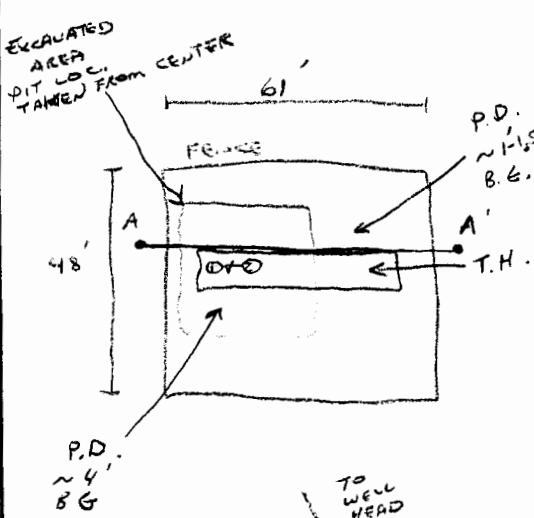
ADDITIONAL COMMENTS: VERTICAL EXTENT NEEDS TO BE ESTABLISHED.

FIELD 418.1 CALCULATIONS

SCALE

0 FT

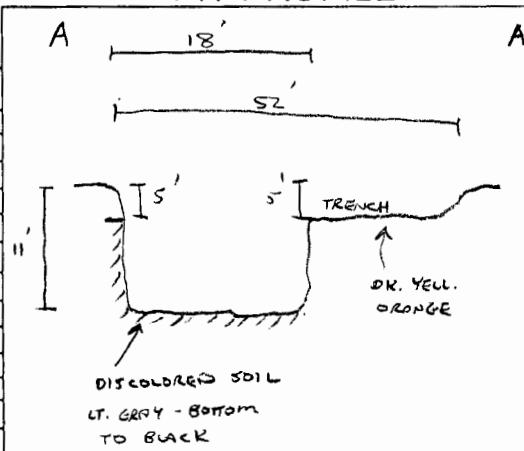
SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER**OVM READING**

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 7'	1096
2 @ 11'	1005
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(1) @ 7'	TPH + BTEX	0150
(2) @ 11'	TPH + BTEX	0800

PIT PROFILEP.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES: CALLOUT: 6/2/03 - AFTER. ONSITE: 6/3/03 - MORNING.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

GCU # 204E

UNIT I, SEC. 34, T28N, R12W

REVISED DATE: November 26, 2007

FILENAME: (204E4Q07.WK4) NJV

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
30-Jan-07	MW #1	18.57	27.00	584	1,100	7.33		ND	3.0	2.3	13
14-Nov-06	MW #2	16.69	27.50	924	1,400	6.80		1,000	3,900	1,100	9,700
30-Jan-07		16.97			1,200	6.89		900	1,600	1,400	12,000
25-Apr-07		16.37			1,000	6.78		790	1,200	1,100	13,000
23-Jul-07		15.16			1,000	6.82		940	630	1,800	12,000
30-Jan-07	MW #3	13.92	25.00	620	1,000	7.00		8.2	ND	71	120
25-Apr-07		11.81			900	6.91		8.3	ND	25	140
23-Jul-07		11.89			1,000	6.74		26	ND	90	270
25-Oct-07		10.37			1,100	7.00		2.4	ND	4.7	11
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) .

GENERAL WATER QUALITY

B.P AMERICA PRODUCTION COMPANY

GCU # 204E

Sample Dates : Nov. 14, 2006 & Jan. 30, 2007

PARAMETERS	MW # 1 01/30/07	MW # 2 11/14/06	MW # 3 01/30/07	NMWQCC STANDARDS	Units
LAB pH	7.12	7.08	7.10	7 - 9	S. U.
LAB CONDUCTIVITY @ 25 C	1,110	1,310	1,090	██████████	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	584	924	620	1,000	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	574	918	617	██████████	mg / L
SODIUM ABSORPTION RATIO	1.4	5.4	1.4	██████████	ratio
TOTAL ALKALINITY AS CaCO ₃	254	420	369	██████████	mg / L
TOTAL HARDNESS AS CaCO ₃	331	300	394	██████████	mg / L
BICARBONATE as HCO ₃	254	420	369	██████████	mg / L
CARBONATE AS CO ₃	< 0.1	< 0.1	< 0.1	██████████	mg / L
HYDROXIDE AS OH	< 0.1	< 0.1	< 0.1	██████████	mg / L
NITRATE NITROGEN	10.8	3.9	0.8	10	mg / L
NITRITE NITROGEN	0.484	0.43	0.082	██████████	mg / L
CHLORIDE	42.2	192.0	96.2	250	mg / L
FLUORIDE	0.57	1.00	0.69	1.60	mg / L
PHOSPHATE	1.2	0.6	0.8	██████████	mg / L
SULFATE	180	142	90	600	mg / L
IRON	0.006	0.672	0.001	1.0	mg / L
CALCIUM	102	84.5	108	██████████	mg / L
MAGNESIUM	18.8	21.7	30.3	██████████	mg / L
POTASSIUM	3.48	2.82	3.39	██████████	mg / L
SODIUM	60.4	214	63	██████████	mg / L
CATION / ANION DIFFERENCE	0.03%	0.11%	0.02%	██████████	

NOTES:

- 1) N/A INDICATES NOT AVAILABLE.
- 2) s. u. INDICATES STANDARD UNIT.
- 3) umhos / cm INDICATES MICRO OHMS PER CENTIMETER.
- 4) mg / L INDICATES MILLIGRAMS PER LITER.

BLAGG ENGINEERING INC.

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

March 2, 2007

Mr. Glenn von Gonten, Hydrologist
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: BP America Production Company
Notice of Potential Groundwater Impact
GCU #204E
(I)Sec. 34 - T28N - R12W, San Juan County, NM

Dear Mr. von Gonten:

On behalf of BP America Production Company, Blagg Engineering, Inc. (BEI) has identified potential groundwater impacts at the subject location. During a pit closure investigation to determine the vertical extent of soil impacts, groundwater was encountered at a depth of approximately fourteen and one half (14.5) feet below grade. A monitor well was set and initial sampling test results indicate that groundwater exceeding New Mexico Water Quality Control Commission regulatory standards for benzene, toluene, ethylbenzene and total xylenes (BTEX) has been encountered. This site is located in a rural area of San Juan County with no known private or municipal water wells within 1 mile of the impact. Listed below are summary analytical test results for BTEX from a groundwater sample collected on November 14, 2006:

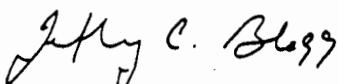
Parameter	Water Test Results (ug/L)
Benzene	1,000
Toluene	3,900
Ethylbenzene	1,100
Total Xylenes	9,700

BP will implement its Groundwater Management Plan to complete investigation and remediation of impacts. A groundwater abatement plan will be prepared and submitted to NMOCD by April 13, 2007 for regulatory approval.

If you have questions or need additional information, please contact either myself at (505)632-1199 or Mr. Larry Schlotterback of BP at (505)326-9200.

Respectfully,

Blagg Engineering, Inc.



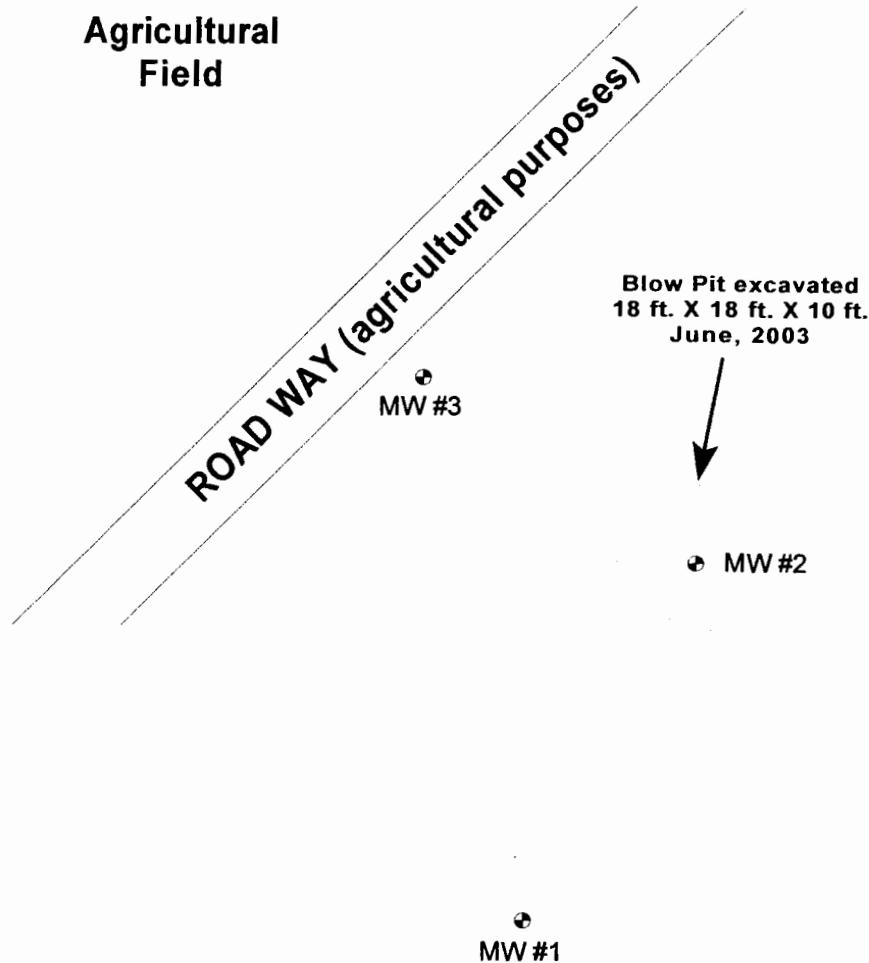
Jeffrey C. Blagg, P.E.
President

cc: Brandon Powell - NMOCD Aztec
Mr. Steven B. Etsitty - NNEPA Exec. Director
Larry Schlotterback - BP SJ Op. Ctr.

FIGURE 1



Agricultural
Field



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 #204E
NE/4 SE/4 SEC. 34, 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

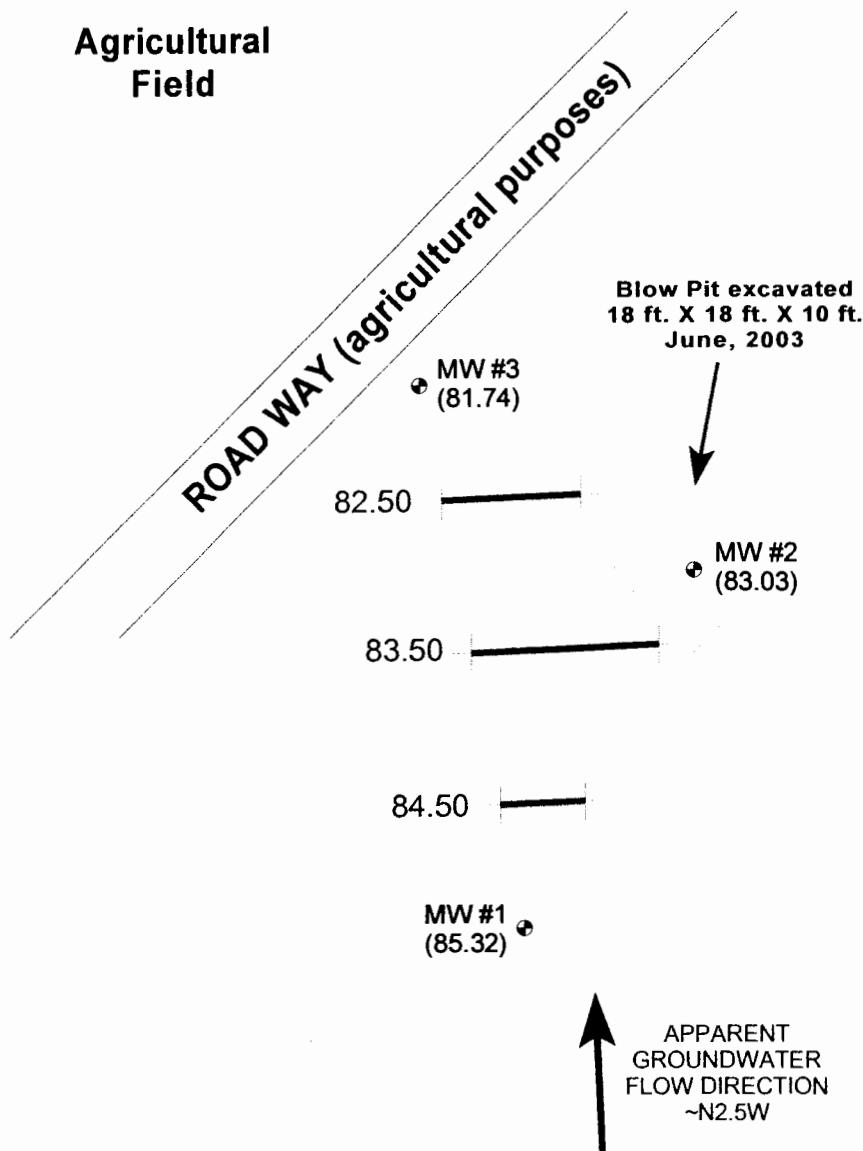
PROJECT: MW INSTALL.
DRAWN BY: NJV
FILENAME: GCU 204E-SM.SKF
DRAFTED: 01-30-07 NJV

SITE
MAP
01/07

FIGURE 2
(1st 1/4, 2007)



Agricultural
Field



1 INCH = 30 FT.

0 30 60 FT.

Top of Well Elevation	
MW #1	— (103.89)
MW #2	— (100.00)
MW #3	— (95.66)
MW #1	— Groundwater Elevation as of 1/30/07.

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.

BP AMERICA PRODUCTION CO.

GCU #204E

NE/4 SE/4 SEC. 34, 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

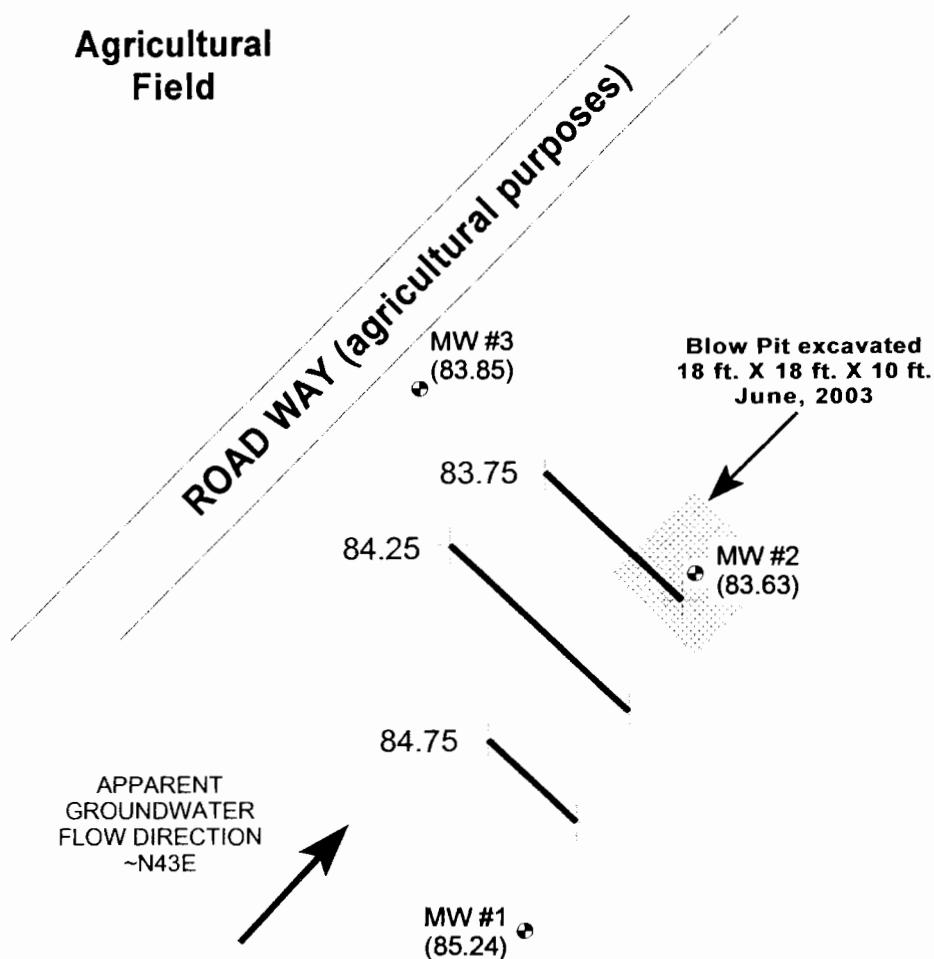
PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 01-30-07-GW.SKF
DRAFTED: 01-31-07 NJV

GROUNDWATER
CONTOUR
MAP
01/07

FIGURE 3
(2nd 1/4, 2007)



**Agricultural
Field**



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.

Top of Well
Elevation

MW #1 _____ (103.89)

MW #2 _____ (100.00)

MW #3 _____ (95.66)

MW #1 _____
(85.32) Groundwater Elevation
as of 1/30/07.

BP AMERICA PRODUCTION CO.

GCU #204E

NE/4 SE/4 SEC. 34, 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: 04-25-07-GW.SKF

DRAFTED: 04-30-07 NJV

GROUNDWATER
CONTOUR

MAP

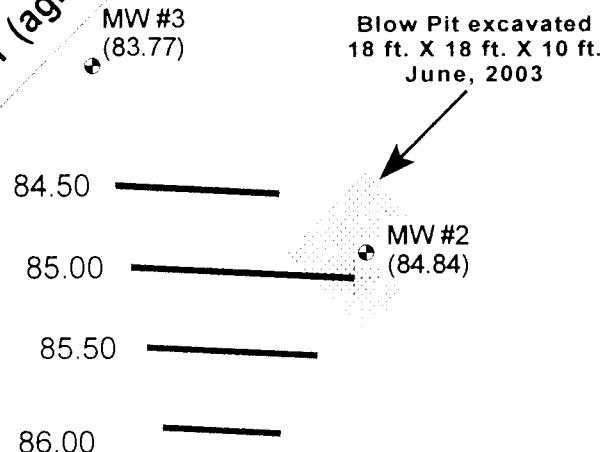
04/07

FIGURE 4
(3rd 1/4, 2007)



Agricultural
Field

ROAD WAY (agricultural purposes)



MW #1
(87.12)

APPARENT
GROUNDWATER
FLOW DIRECTION
~N3E

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.

Top of Well Elevation	
MW #1	----- (103.89)
MW #2	----- (100.00)
MW #3	----- (95.66)
MW #1	----- (87.12) Groundwater Elevation as of 7/23/07.

BP AMERICA PRODUCTION CO.

GCU #204E

NE/4 SE/4 SEC. 34, 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: 07-23-07-GW.SKF

DRAFTED: 07-25-07 NJV

GROUNDWATER
CONTOUR

MAP

07/07

FIGURE 5
(4th 1/4, 2007)



Agricultural
Field

ROAD WAY (agricultural purposes)

MW #3
(85.29)

Blow Pit excavated
18 ft. X 18 ft. X 10 ft.
June, 2003

86.00

86.50

87.00

87.50

MW #2
(86.25)

MW #1
(88.46)

APPARENT
GROUNDWATER
FLOW DIRECTION
~N5E

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.

Top of Well Elevation	
MW #1	— (103.89)
MW #2	— (100.00)
MW #3	— (95.66)
MW #1	(88.46) Groundwater Elevation as of 10/25/07.

BP AMERICA PRODUCTION CO.
GCU #204E
NE/4 SE/4 SEC. 34, 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: 10-25-07-GW.SKF
DRAFTED: 10-25-07 NJV

GROUNDWATER
CONTOUR
MAP
10/07

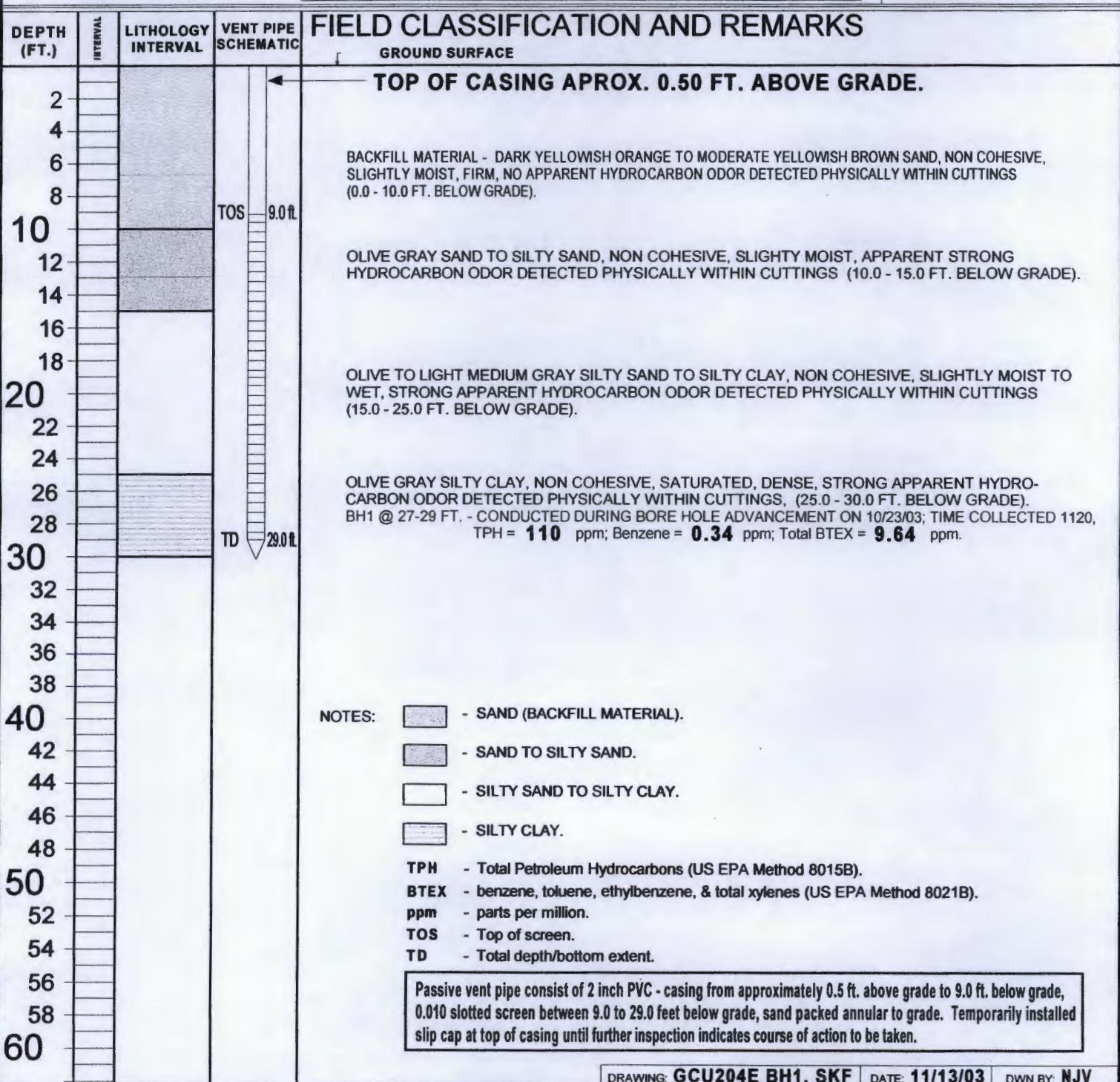
BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION COMPANY
LOCATION NAME: GCU # 204E BLOW PIT - UNIT I, SEC. 34, T28N, R12W
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: EARTHPROBE 200
BORING LOCATION: 532 FEET, N3W FROM WELL HEAD.

BORING #..... BH - 1
MW#..... NA
PAGE #..... 1
DATE STARTED 10/23/03
DATE FINISHED 10/23/03
OPERATOR..... JCB
PREPARED BY NJV



BLAGG ENGINEERING, Inc.

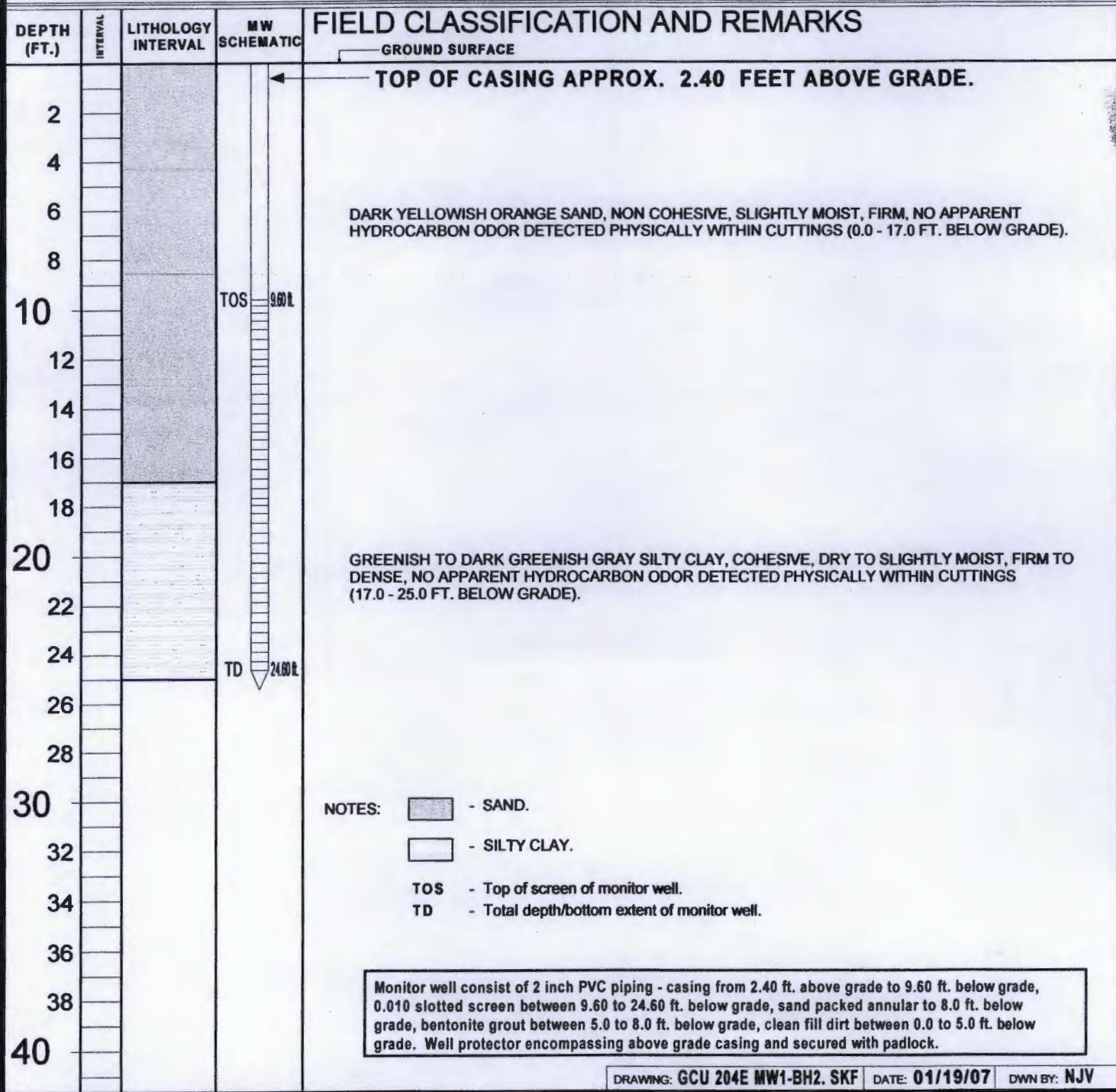
P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

MW #1

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION CO.
 LOCATION NAME: GCU #204E UNIT I, SEC. 34, T28N, R12W
 CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
 EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
 BORING LOCATION: 61.5 FEET, S25.5W FROM MW#2.

BORING #..... BH - 2
 MW#..... 1
 PAGE #..... 1
 DATE STARTED 01/18/07
 DATE FINISHED 01/18/07
 OPERATOR..... DP
 PREPARED BY NJV



BLAGG ENGINEERING, Inc.

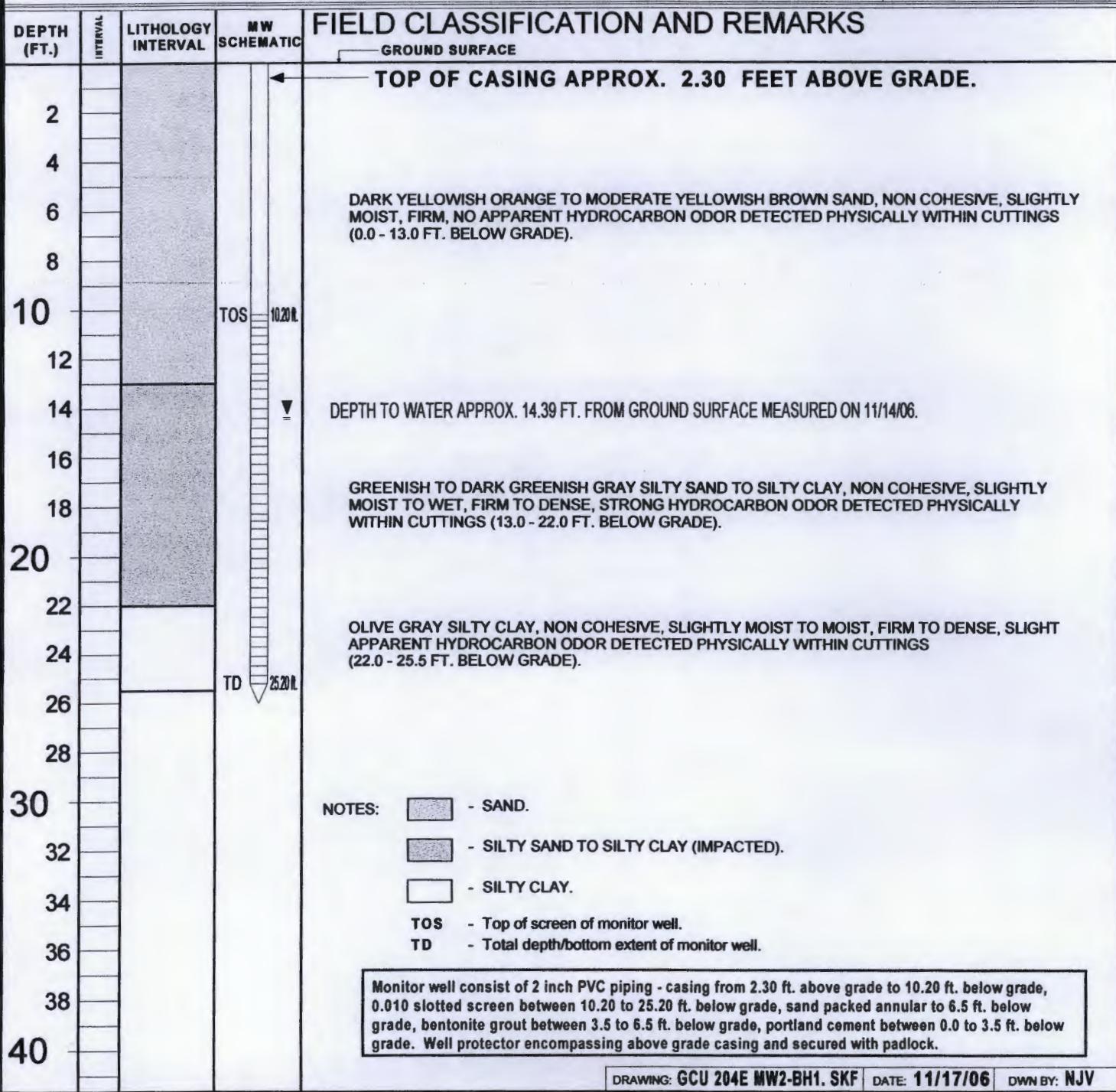
P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

MW #2

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION CO.
 LOCATION NAME: GCU #204E UNIT I, SEC. 34, T28N, R12W
 CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
 EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
 BORING LOCATION: 531 FEET, N3W FROM WELL HEAD.

BORING #..... BH - 1A
 MW#..... 2
 PAGE #..... 2
 DATE STARTED 11/1/06
 DATE FINISHED 11/1/06
 OPERATOR..... DP
 PREPARED BY NJV



BLAGG ENGINEERING, Inc.

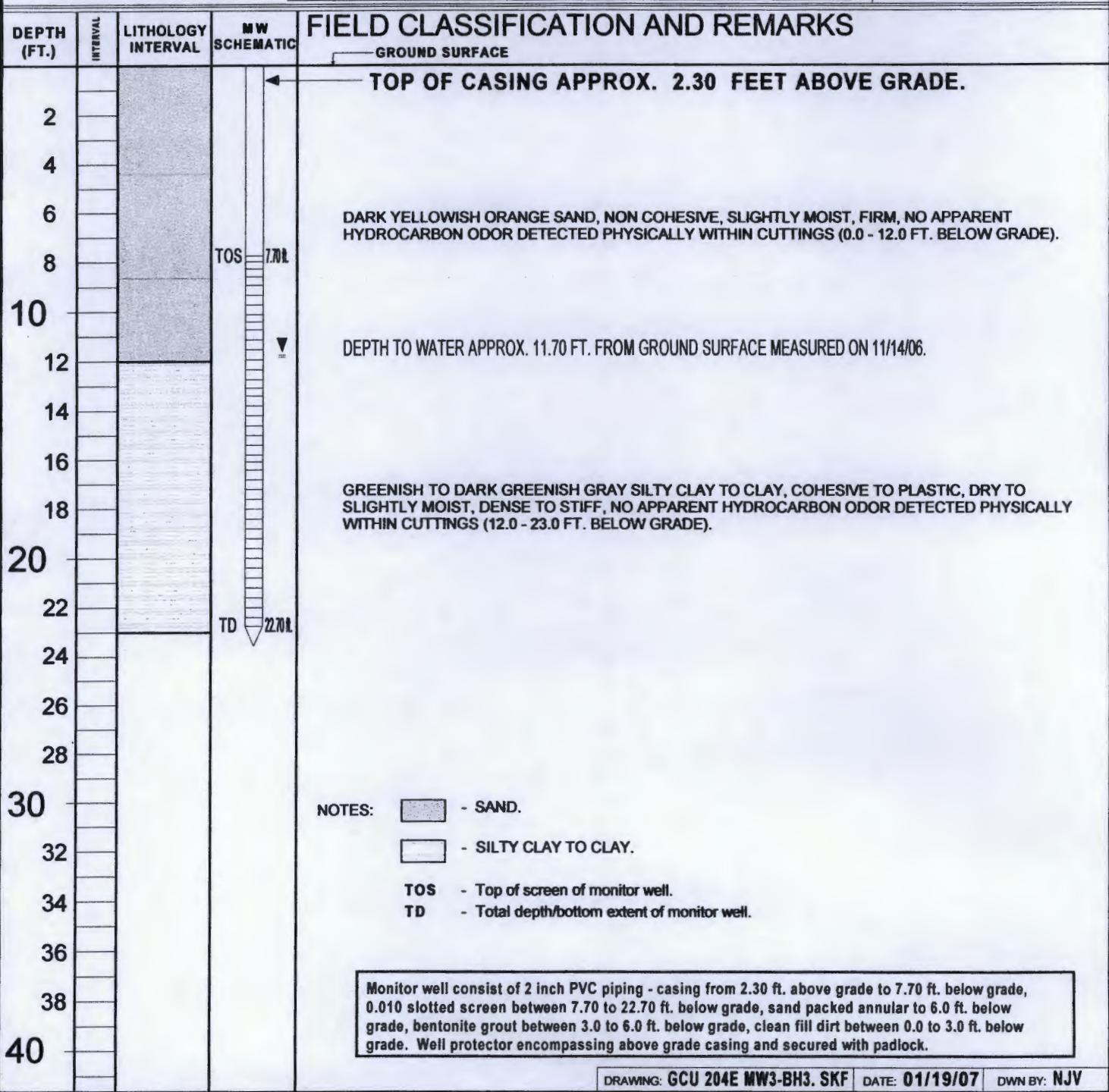
P.O. BOX 87
 BLOOMFIELD, NM 87413
 (505) 632-1199

MW #3

BORE / TEST HOLE REPORT

CLIENT: BP AMERICA PRODUCTION CO.
 LOCATION NAME: GCU #204E UNIT I, SEC. 34, T28N, R12W
 CONTRACTOR: BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
 EQUIPMENT USED: MOBILE DRILL RIG (CME 75)
 BORING LOCATION: 51.5 FEET, N56W FROM MW#2.

BORING #..... BH - 3
 MW#..... 3
 PAGE #..... 3
 DATE STARTED 01/18/07
 DATE FINISHED 01/18/07
 OPERATOR..... DP
 PREPARED BY NJV



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 7'	Date Reported:	06-04-03
Laboratory Number:	25777	Date Sampled:	06-03-03
Chain of Custody No:	10880	Date Received:	06-03-03
Sample Matrix:	Soil	Date Extracted:	06-03-03
Preservative:	Cool	Date Analyzed:	06-04-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	723	0.2
Diesel Range (C10 - C28)	759	0.1
Total Petroleum Hydrocarbons	1,480	0.2

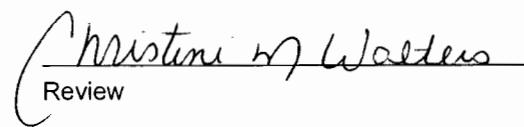
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: GCU #204E Blow Pit Grab Sample.


Dean C. Quinn

Analyst


Christine M. Walters

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 7'	Date Reported:	06-04-03
Laboratory Number:	25777	Date Sampled:	06-03-03
Chain of Custody:	10880	Date Received:	06-03-03
Sample Matrix:	Soil	Date Analyzed:	06-04-03
Preservative:	Cool	Date Extracted:	06-03-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	291	1.8
Toluene	1,730	1.7
Ethylbenzene	1,520	1.5
p,m-Xylene	989	2.2
o-Xylene	1,760	1.0
Total BTEX	6,290	

ND - Parameter not detected at the stated detection limit.

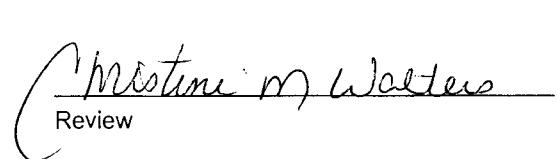
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: GCU #204E Blow Pit Grab Sample.


Analyst


Review

Hall Environmental Analysis Laboratory

Date: 10-Jun-03

CLIENT:	Blagg Engineering	Client Sample ID:	1 @ 7'
Lab Order:	0306025	Collection Date:	6/3/2003 7:50:00 AM
Project:	GCU #204E Blow Pit		
Lab ID:	0306025-01	Matrix:	SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	8100	100		mg/Kg	20	6/10/2003 2:48:10 PM
Motor Oil Range Organics (MRO)	1800	1000		mg/Kg	20	6/10/2003 2:48:10 PM
Surr: DNOP	86.4	60-124		%REC	20	6/10/2003 2:48:10 PM
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	1600	250		mg/Kg	50	6/5/2003 6:18:09 PM
Surr: BFB	139	74-118	S	%REC	50	6/5/2003 6:18:09 PM
EPA METHOD 8021B: VOLATILES						
Benzene	3.1	1.3		mg/Kg	50	6/5/2003 6:18:09 PM
Toluene	57	1.3		mg/Kg	50	6/5/2003 6:18:09 PM
Ethylbenzene	12	1.3		mg/Kg	50	6/5/2003 6:18:09 PM
Xylenes, Total	130	1.3		mg/Kg	50	6/5/2003 6:18:09 PM
Surr: 4-Bromofluorobenzene	112	74-118		%REC	50	6/5/2003 6:18:09 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496



P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 17-Jun-03

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit
Lab ID: 0306008-001A

Client Sample Info: BP - GCU #204E
Client Sample ID: 1 (@ 7ft.)
Collection Date: 6/3/2003 7:50:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	8650	250		mg/Kg	10	Analyst: JEM 6/6/2003
GASOLINE RANGE ORGANICS T/R Hydrocarbons: C6-C10	1720	180		mg/Kg	1000	Analyst: JEM 6/4/2003
AROMATIC VOLATILES BY GC/PID			SW8021B			Analyst: DWC
Benzene	4800	2500		µg/Kg	2500	6/12/2003
Ethylbenzene	18000	2500		µg/Kg	2500	6/12/2003
m,p-Xylene	160000	5000		µg/Kg	2500	6/12/2003
o-Xylene	37000	2500		µg/Kg	2500	6/12/2003
Toluene	85000	5000		µg/Kg	2500	6/12/2003

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL.

Hall Environmental Analysis Laboratory

Date: 10-Jun-03

CLIENT: Blagg Engineering **Client Sample ID:** 2 @ 11'
Lab Order: 0306025 **Collection Date:** 6/3/2003 8:00:00 AM
Project: GCU #204E Blow Pit
Lab ID: 0306025-02 **Matrix:** SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	6200	100		mg/Kg	20	6/10/2003 3:16:54 PM
Motor Oil Range Organics (MRO)	1600	1000		mg/Kg	20	6/10/2003 3:16:54 PM
Surr: DNOP	99.6	60-124		%REC	20	6/10/2003 3:16:54 PM
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	1800	250		mg/Kg	50	6/5/2003 6:51:21 PM
Surr: BFB	149	74-118	S	%REC	50	6/5/2003 6:51:21 PM
EPA METHOD 8021B: VOLATILES						
Benzene	4.9	1.3		mg/Kg	50	6/5/2003 6:51:21 PM
Toluene	48	1.3		mg/Kg	50	6/5/2003 6:51:21 PM
Ethylbenzene	12	1.3		mg/Kg	50	6/5/2003 6:51:21 PM
Xylenes, Total	120	1.3		mg/Kg	50	6/5/2003 6:51:21 PM
Surr: 4-Bromofluorobenzene	110	74-118		%REC	50	6/5/2003 6:51:21 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level

CHAIN OF CUSTODY RECORD

10880

CHAIN-OF-CUSTODY RECORD

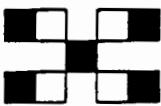
Client: **BRACCS EVER.** /BP America Project Name

6cm # 204 E 8mws p,T

Project Name:

HALL ENVIRONMENTAL ANALYSIS LABORATORY

**4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.halenvironmental.com**



Address: P.O. Box 87

Broomfield, NM 87413

Project #: _____

卷之三

ANALYSIS REQUEST

Air Bubbles or Headspace (Y or N)

Air Bubbles or Headspace (Y or N)	
BTEX + MTBE + TMB3 (8021G)	TPH Method 8015B MOD (Gasoline Only)
Volatiles Full List (8021)	TPH (Method 418.1)
EDB (Method 504.1)	EDC (Method 8021)
8310 (PNA or PAH)	RCCA 8 Metals
Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
8081 Pesticides / PCBs (8082)	8260 (VOA)
8270 (Semi-VOA)	

Remarks:

Received By: (Signature)

Relinquished By: (Signature)


Date: 5/03 Time: 0905



CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.: TEFF BUSS		Project No.		REPORT TO		Name / Vessel Name		Title																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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<tr><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td><td>23</td></tr> <tr><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td><td>24</td></tr> <tr><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td><td>25</td></tr> <tr><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td><td>26</td></tr> <tr><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td><td>27</td></tr> <tr><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td><td>28</td></tr> <tr><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td><td>29</td></tr> <tr><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td><td>30</td></tr> 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<tr><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td><td>87</td></tr> <tr><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td><td>88</td></tr> <tr><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td><td>89</td></tr> <tr><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td><td>90</td></tr> <tr><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td></tr> <tr><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td><td>92</td></tr> <tr><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td><td>93</td></tr> <tr><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td><td>94</td></tr> <tr><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td><td>95</td></tr> <tr><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td><td>96</td></tr> <tr><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td><td>97</td></tr> <tr><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td><td>98</td></tr> <tr><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td><td>99</td></tr> <tr><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td></tr> </tbody></table>										Number of Containers	SAMPLE									LAB ID	Container									1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	26	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	32	32	32	32	32	32	32	32	32	32	33	33	33	33	33	33	33	33	33	33	34	34	34	34	34	34	34	34	34	34	35	35	35	35	35	35	35	35	35	35	36	36	36	36	36	36	36	36	36	36	37	37	37	37	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	39	39	39	39	39	39	39	39	39	39	40	40	40	40	40	40	40	40	40	40	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	42	42	42	42	43	43	43	43	43	43	43	43	43	43	44	44	44	44	44	44	44	44	44	44	45	45	45	45	45	45	45	45	45	45	46	46	46	46	46	46	46	46	46	46	47	47	47	47	47	47	47	47	47	47	48	48	48	48	48	48	48	48	48	48	49	49	49	49	49	49	49	49	49	49	50	50	50	50	50	50	50	50	50	50	51	51	51	51	51	51	51	51	51	51	52	52	52	52	52	52	52	52	52	52	53	53	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54	54	55	55	55	55	55	55	55	55	55	55	56	56	56	56	56	56	56	56	56	56	57	57	57	57	57	57	57	57	57	57	58	58	58	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	60	60	60	60	60	60	60	60	60	60	61	61	61	61	61	61	61	61	61	61	62	62	62	62	62	62	62	62	62	62	63	63	63	63	63	63	63	63	63	63	64	64	64	64	64	64	64	64	64	64	65	65	65	65	65	65	65	65	65	65	66	66	66	66	66	66	66	66	66	66	67	67	67	67	67	67	67	67	67	67	68	68	68	68	68	68	68	68	68	68	69	69	69	69	69	69	69	69	69	69	70	70	70	70	70	70	70	70	70	70	71	71	71	71	71	71	71	71	71	71	72	72	72	72	72	72	72	72	72	72	73	73	73	73	73	73	73	73	73	73	74	74	74	74	74	74	74	74	74	74	75	75	75	75	75	75	75	75	75	75	76	76	76	76	76	76	76	76	76	76	77	77	77	77	77	77	77	77	77	77	78	78	78	78	78	78	78	78	78	78	79	79	79	79	79	79	79	79	79	79	80	80	80	80	80	80	80	80	80	80	81	81	81	81	81	81	81	81	81	81	82	82	82	82	82	82	82	82	82	82	83	83	83	83	83	83	83	83	83	83	84	84	84	84	84	84	84	84	84	84	85	85	85	85	85	85	85	85	85	85	86	86	86	86	86	86	86	86	86	86	87	87	87	87	87	87	87	87	87	87	88	88	88	88	88	88	88	88	88	88	89	89	89	89	89	89	89	89	89	89	90	90	90	90	90	90	90	90	90	90	91	91	91	91	91	91	91	91	91	91	92	92	92	92	92	92	92	92	92	92	93	93	93	93	93	93	93	93	93	93	94	94	94	94	94	94	94	94	94	94	95	95	95	95	95	95	95	95	95	95	96	96	96	96	96	96	96	96	96	96	97	97	97	97	97	97	97	97	97	97	98	98	98	98	98	98	98	98	98	98	99	99	99	99	99	99	99	99	99	99	100	100	100	100	100	100	100	100	100	100
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Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-04-TPH QA/QC	Date Reported:	06-04-03
Laboratory Number:	25777	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-04-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	723	720	0.4%	0 - 30%
Diesel Range C10 - C28	759	756	0.3%	0 - 30%

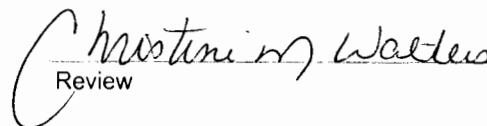
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	723	250	971	99.8%	75 - 125%
Diesel Range C10 - C28	759	250	1,000	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 25777, 25779, 25792 - 25794, 25806.


Dennis E. Quinn
Analyst


Christine M. Walters
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-04-BTEX QA/QC	Date Reported:	06-04-03
Laboratory Number:	25777	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-04-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	291	297	2.3%	0 - 30%	1.8
Toluene	1,730	1,700	1.7%	0 - 30%	1.7
Ethylbenzene	1,520	1,490	2.0%	0 - 30%	1.5
p,m-Xylene	989	1,010	2.1%	0 - 30%	2.2
o-Xylene	1,760	1,810	2.8%	0 - 30%	1.0

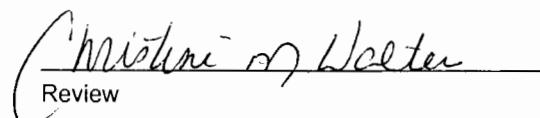
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	291	50.0	340	99.8%	39 - 150
Toluene	1,730	50.0	1,770	99.4%	46 - 148
Ethylbenzene	1,520	50.0	1,560	99.4%	32 - 160
p,m-Xylene	989	100	1,080	99.2%	46 - 148
o-Xylene	1,760	50.0	1,800	99.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:
Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for sample 25777.


Analyst


Review

Hall Environmental Analysis Laboratory

Date: 10-Jun-03

QC SUMMARY REPORT

Method Blank

Sample ID	Client ID:	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date						
Sample ID	Client ID:	Run ID:	FID(17A)_030610A	mg/Kg	6/10/2003 10:57:24 AM	6/9/2003						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		ND	5.0									
Motor Oil Range Organics (MRO)		ND	50									
Surr: DNOP		8.826	0	10	0	88.3	60	124	0	0		
Gasoline Range Organics (GRO)		1.7	5.0	0	0	0	0	0	0	0		
Surr: BFB		936	0	1000	0	93.6	74	118	0	0		
Benzene		ND	0.025									
Toluene		ND	0.025									
Ethylbenzene		ND	0.025									
Xylenes, Total		ND	0.025									
Surr: 4-Bromofluorobenzene		1.042	0	1	0	104	74	118	0	0		

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

Hall Environmental Analysis Laboratory

Date: 10-Jun-03

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	Client ID:	Project:	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date				
				Run ID:	mg/Kg	SeqNo:					
Analyte			Result	PQL	SPK value	%REC	RPD Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Diesel Range Organics (DRO)			43.54	5.0	50	0	87.1	67.4	117	0	
Sample ID	Client ID:	Project:	LCSD-3741	Batch ID: 3741	Test Code: SW8015	Units: mg/Kg	Analysis Date	6/10/2003 11:26:41 AM	Prep Date	6/9/2003	
				Run ID: FID(17A)_030610A							
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Diesel Range Organics (DRO)			51.63	5.0	50	0	103	67.4	117	43.54	17.0
Sample ID	Client ID:	Project:	GRO Std 2.5ug	Batch ID: 3717	Test Code: SW8015	Units: mg/Kg	Analysis Date	6/5/2003 9:02:39 PM	Prep Date		
				Run ID: PIDFID_030605A							
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Gasoline Range Organics (GRO)			23.71	5.0	25	1.7	88.0	85.8	111	0	
Sample ID	Client ID:	Project:	GRO Std 2.5ug	Batch ID: 3717	Test Code: SW8015	Units: mg/Kg	Analysis Date	6/5/2003 9:35:06 PM	Prep Date		
				Run ID: PIDFID_030605A							
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Gasoline Range Organics (GRO)			25.3	5.0	25	1.7	94.4	85.8	111	23.71	6.49

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0306025
Project: GCU #204E Blow Pit

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID:	3717	Test Code:	SW8021	Units:	mg/Kg	Analysis Date	6/5/2003 7:57:18 PM	Prep Date	
Client ID:		Run ID:		PIDFID_030605A				SeqNo:	191667		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.08	0.025	1	0	108	77	122	0			
Toluene	1.071	0.025	1	0	107	81	115	0			
Ethylbenzene	1.071	0.025	1	0	107	84	117	0			
Xylenes, Total	3.236	0.025	3	0	108	84	116	0			

Sample ID	BTEX Std 100ng	Batch ID:	3717	Test Code:	SW8021	Units:	mg/Kg	Analysis Date	6/5/2003 8:30:01 PM	Prep Date	
Client ID:		Run ID:		PIDFID_030605A				SeqNo:	191669		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.059	0.025	1	0	106	77	122	1.08	1.96	27	
Toluene	1.036	0.025	1	0	104	81	115	1.071	3.38	19	
Ethylbenzene	1.047	0.025	1	0	105	84	117	1.071	2.22	10	
Xylenes, Total	3.14	0.025	3	0	105	84	116	3.236	3.01	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

Work Order Number 0306025

Received by AMG

Checklist completed by

Signature

Date

Matrix:

Carrier name: Greyhound

- | | | | |
|---|--|------------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |

Container/Temp Blank temperature? **16°** *4° C ± 2 Acceptable*

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

Hall Environmental Analysis Laboratory

Date: 10-Jun-03

CLIENT: Blagg Engineering
Project: GCU #204E Blow Pit
Lab Order: 0306025

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_S, SAMPLE 0306025-01a: Surrogate elevated due to matrix interference. Analytical Comments for METHOD 8015GRO_S, SAMPLE 0306025-02a: Surrogate elevated due to matrix interference.

iná bá, Ltd.

Date: 17-Jun-03

ANALYTICAL QC SUMMARY REPORT

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

TestCode: 8015DR2_S

Sample ID	SampType:	MBLK	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:		Batch ID:	R4631	TestNo:	SW8015B		Analysis Date:	6/6/2003	SeqNo:	67069	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	ND	25.0									
Sample ID	SampType:	LCS	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:		Batch ID:	R4631	TestNo:	SW8015B		Analysis Date:	6/6/2003	SeqNo:	67071	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	435.6	25.0	501	0	86.9	70	123	0	0	0	
Sample ID	SampType:	MS	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:		Batch ID:	R4631	TestNo:	SW8015B		Analysis Date:	6/6/2003	SeqNo:	67089	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	443.9	25.0	501	0	88.6	68	128	0	0	0	
Sample ID	SampType:	DUP	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:		Batch ID:	R4631	TestNo:	SW8015B		Analysis Date:	6/6/2003	SeqNo:	67088	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	8807	250	0	0	0	0	0	0	8651	1.79	34
Sample ID	SampType:	CCV	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:		Batch ID:	R4631	TestNo:	SW8015B		Analysis Date:	6/6/2003	SeqNo:	67070	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	439.5	25.0	501	0	87.7	85	115	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 1 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2_S

Sample ID	CCV2_030606	SampType:	CCV	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:	zzzzz	Batch ID:	R4631	TestNo:	SW8015B			Analysis Date:	6/6/2003	SeqNo:	67090	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28												
Sample ID	CCV3_030606	SampType:	CCV	TestCode:	8015DR2_S	Units:	mg/Kg	Prep Date:	6/6/2003	Run ID:	GC-2_030606A	
Client ID:	zzzzz	Batch ID:	R4631	TestNo:	SW8015B			Analysis Date:	6/6/2003	SeqNo:	67091	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28												

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

Page 2 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID	MB_030604	SampType:	MBLK	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66926	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		0.695	4.50							J		
Sample ID	LCS_030604	SampType:	LCS	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66928	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		46.09	4.50	45	0.695	101	66	129	0	0	0	
Sample ID	0306005-001AMSD	SampType:	MSD	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66947	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		45.92	4.50	45	0	102	69	122	0	0	0	
Sample ID	0306005-001AMSD	SampType:	MSD	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66948	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		44.23	4.50	45	0	98.3	69	121	45.92	3.75	10	
Sample ID	CCV1_030604	SampType:	CCV	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66927	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		1.815	0.180	1.8	0	101	85	115	0	0	0	
Sample ID	CCV2_030604	SampType:	CCV	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	zzzzz	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66949	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pt

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID	SampType:	CCV	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66949	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.806	0.180	1.8	0	100	85	115	0	0	0	
Sample ID	SampType:	CCV	TestCode:	8015GRO_S	Units:	mg/Kg	Prep Date:	6/4/2003	Run ID:	GC-1B_030604A	
Client ID:	Batch ID:	R4625	TestNo:	SW8015B			Analysis Date:	6/4/2003	SeqNo:	66950	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.709	0.180	1.8	0	94.9	85	115	0	0	0	

Qualifiers:

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

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 4 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	MB_030602	SampType: MBLK	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 6/2/2003	Run ID: GC-1_030606A						
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date: 6/6/2003	SeqNo: 67048						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	25									J
Ethylbenzene		22.16	25									J
m,p-Xylene		32.76	50									
o-Xylene		ND	25									
Toluene		ND	50									

Sample ID	MB_030605	SampType: MBLK	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 6/5/2003	Run ID: GC-1_030606A						
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date: 6/6/2003	SeqNo: 67049						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	25									J
Ethylbenzene		11.68	25									
m,p-Xylene		ND	50									
o-Xylene		ND	25									
Toluene		ND	50									

Sample ID	MB_030612	SampType: MBLK	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 6/12/2003	Run ID: GC-1_030612A						
Client ID:	zzzzz	Batch ID: R4638	TestNo: SW8021B		Analysis Date: 6/12/2003	SeqNo: 67182						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	25									J
Ethylbenzene		10.58	25									
m,p-Xylene		ND	50									
o-Xylene		ND	25									
Toluene		ND	50									

Sample ID	LCS_030602	SampType: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 6/2/2003	Run ID: GC-1_030606A						
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date: 6/6/2003	SeqNo: 67046						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1483	25	1500	0	98.9	75	115	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in the associated Method Blank

Page 5 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	LCS_030602	SampType: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/2/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67046				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene		1454	25	1500	22.16	95.5	75	120	0	0	0	
m,p-Xylene		2931	50	3000	32.76	96.6	73	118	0	0	0	
o-Xylene		1453	25	1500	0	96.9	75	117	0	0	0	
Toluene		1439	50	1500	0	95.9	72	116	0	0	0	
Sample ID	LCS_030605	SampType: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/5/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67047				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1434	25	1500	0	95.6	75	115	0	0	0	
Ethylbenzene		1396	25	1500	11.68	92.3	75	120	0	0	0	
m,p-Xylene		2815	50	3000	0	93.8	73	118	0	0	0	
o-Xylene		1402	25	1500	0	93.5	75	117	0	0	0	
Toluene		1385	50	1500	0	92.3	72	116	0	0	0	
Sample ID	LCS_030612	SampType: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/12/2003	Run ID:	GC-1_030612A				
Client ID:	zzzzzz	Batch ID: R4638	TestNo: SW8021B		Analysis Date:	6/12/2003	SeqNo:	67181				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1486	25	1500	0	99.1	75	115	0	0	0	
Ethylbenzene		1475	25	1500	10.58	97.6	75	120	0	0	0	
m,p-Xylene		2962	50	3000	0	98.7	73	118	0	0	0	
o-Xylene		1462	25	1500	0	97.5	75	117	0	0	0	
Toluene		1452	50	1500	0	96.8	72	116	0	0	0	
Sample ID	0305039-002AM-S	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/2/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67050				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1406	25	1500	0	93.7	82	110	0	0	0	
Ethylbenzene		1333	25	1500	13.82	87.9	88	110	0	0	0	S

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GC/U #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	0305039-002AM\$	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/2/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67050				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene		2672	50	3000	0	89.1	85	110	0	0	0	
o-Xylene		1339	25	1500	0	89.3	85	110	0	0	0	
Toluene		1353	50	1500	0	90.2	80	110	0	0	0	

Sample ID	0306005-002AMS\$	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/5/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67051				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1435	25	1500	0	95.6	82	110	0	0	0	
Ethylbenzene		1380	25	1500	12.72	91.1	88	110	0	0	0	
m,p-Xylene		2777	50	3000	0	92.6	85	110	0	0	0	
o-Xylene		1388	25	1500	0	92.5	85	110	0	0	0	
Toluene		1392	50	1500	0	92.8	80	110	0	0	0	

Sample ID	0306011-001AMS\$	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/12/2003	Run ID:	GC-1_030612A				
Client ID:	zzzzz	Batch ID: R4638	TestNo: SW8021B		Analysis Date:	6/12/2003	SeqNo:	67185				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1490	25	1500	0	99.3	82	110	0	0	0	
Ethylbenzene		1467	25	1500	10.39	97.1	88	110	0	0	0	
m,p-Xylene		2944	50	3000	0	98.1	85	110	0	0	0	
o-Xylene		1464	25	1500	0	97.6	85	110	0	0	0	
Toluene		1441	50	1500	0	96.1	80	110	0	0	0	

Sample ID	0305039-002AMSD	SampType: MSD	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/2/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67052				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1539	25	1500	0	103	75	111	1406	9.04	9	R
Ethylbenzene		1497	25	1500	13.82	98.9	85	110	1333	11.6	7.4	R
m,p-Xylene		3008	50	3000	0	100	79	110	2672	11.8	8	R

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	0305039-002AMSD	SampType: MSD	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/22/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67052				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene		1495	25	1500	0	99.6	81	110	1339	11.0	6.8	R
Toluene		1494	50	1500	0	99.6	72	112	1353	9.93	9.1	R
Sample ID	0306005-002AMSD	SampType: MSD	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/5/2003	Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67053				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1448	25	1500	0	96.5	75	111	1435	0.937	9	
Ethylbenzene		1393	25	1500	12.72	92	85	110	1380	0.963	7.4	
m,p-Xylene		2804	50	3000	0	93.5	79	110	2777	0.954	8	
o-Xylene		1402	25	1500	0	93.5	81	110	1388	1.00	6.8	
Toluene		1401	50	1500	0	93.4	72	112	1392	0.621	9.1	
Sample ID	0306011-001AMSD	SampType: MSD	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/12/2003	Run ID:	GC-1_030612A				
Client ID:	zzzzz	Batch ID: R4638	TestNo: SW8021B		Analysis Date:	6/12/2003	SeqNo:	67184				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1393	25	1500	0	92.9	75	111	1490	6.76	9	
Ethylbenzene		1375	25	1500	10.39	91	85	110	1467	6.47	7.4	
m,p-Xylene		2763	50	3000	0	92.1	79	110	2944	6.34	8	
o-Xylene		1378	25	1500	0	91.8	81	110	1464	6.07	6.8	
Toluene		1351	50	1500	0	90.1	72	112	1441	6.42	9.1	
Sample ID	CCV1_030606	SampType: CCV	TestCode: BTEX_S	Units: µg/Kg	Prep Date:		Run ID:	GC-1_030606A				
Client ID:	zzzzz	Batch ID: R4629	TestNo: SW8021B		Analysis Date:	6/6/2003	SeqNo:	67042				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		56.81	1.0	60	0	94.7	85	115	0	0	0	
Ethylbenzene		55.4	1.0	60	0	92.3	85	115	0	0	0	
m,p-Xylene		111.9	2.0	120	0	93.2	85	115	0	0	0	
o-Xylene		55.54	1.0	60	0	92.6	85	115	0	0	0	

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

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
 Page 8 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pt

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	SampType:	CCV	TestCode:	BTEX_S	Units:	µg/Kg	Prep Date:	Run ID: GC-1_030606A				
Client ID:	Batch ID:	R4629	TestNo:	SW8021B	Analysis Date:	6/6/2003	SeqNo:	67042				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene		55.46	2.0	60	0	92.4	85	115	0	0	0	
Sample ID	SampType:	CCV	TestCode:	BTEX_S	Units:	µg/Kg	Prep Date:	Run ID: GC-1_030606A				
Client ID:	Batch ID:	R4629	TestNo:	SW8021B	Analysis Date:	6/6/2003	SeqNo:	67043				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		57.45	1.0	60	0	95.7	85	115	0	0	0	
Ethylbenzene		57.19	1.0	60	0	95.3	85	115	0	0	0	
m,p-Xylene		121.3	2.0	120	0	101	85	115	0	0	0	
o-Xylene		60.09	1.0	60	0	100	85	115	0	0	0	
Toluene		56.02	2.0	60	0	93.4	85	115	0	0	0	
Sample ID	SampType:	CCV	TestCode:	BTEX_S	Units:	µg/Kg	Prep Date:	Run ID: GC-1_030606A				
Client ID:	Batch ID:	R4629	TestNo:	SW8021B	Analysis Date:	6/6/2003	SeqNo:	67044				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		55.68	1.0	60	0	92.8	85	115	0	0	0	
Ethylbenzene		53.54	1.0	60	0	89.2	85	115	0	0	0	
m,p-Xylene		106.2	2.0	120	0	88.5	85	115	0	0	0	
o-Xylene		53.33	1.0	60	0	88.9	85	115	0	0	0	
Toluene		55.32	2.0	60	0	92.2	85	115	0	0	0	
Sample ID	SampType:	CCV	TestCode:	BTEX_S	Units:	µg/Kg	Prep Date:	Run ID: GC-1_030606A				
Client ID:	Batch ID:	R4629	TestNo:	SW8021B	Analysis Date:	6/6/2003	SeqNo:	67045				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		57.66	1.0	60	0	96.1	85	115	0	0	0	
Ethylbenzene		56.37	1.0	60	0	94	85	115	0	0	0	
m,p-Xylene		114.1	2.0	120	0	95.1	85	115	0	0	0	
o-Xylene		57.25	1.0	60	0	95.4	85	115	0	0	0	
Toluene		56.5	2.0	60	0	94.2	85	115	0	0	0	

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
Page 9 of 10

CLIENT: Blagg Engineering
Work Order: 0306008
Project: BP - GCU #204E Blow Pit

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID	SampType: CCV	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/12/2003	Run ID: GC-1_030612A					
Client ID:	Batch ID:	TestNo: SW8021B		Analysis Date:	6/12/2003	SeqNo: 67179					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	58.92	1.0	60	0	98.2	85	115	0	0	0	
Ethylbenzene	58.16	1.0	60	0	96.9	85	115	0	0	0	
m,p-Xylene	117.1	2.0	120	0	97.6	85	115	0	0	0	
o-Xylene	57.88	1.0	60	0	96.5	85	115	0	0	0	
Toluene	57.88	2.0	60	0	96.5	85	115	0	0	0	
Sample ID	SampType: CCV	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	6/12/2003	Run ID: GC-1_030612A					
Client ID:	Batch ID:	TestNo: SW8021B		Analysis Date:	6/12/2003	SeqNo: 67180					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	59.96	1.0	60	0	99.9	85	115	0	0	0	
Ethylbenzene	58.29	1.0	60	0	97.2	85	115	0	0	0	
m,p-Xylene	117	2.0	120	0	97.5	85	115	0	0	0	
o-Xylene	58.14	1.0	60	0	96.9	85	115	0	0	0	
Toluene	57.97	2.0	60	0	96.6	85	115	0	0	0	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

iiná bá, Ltd.

Date: 17-Jun-03

CLIENT: Blagg Engineering

Work Order: 0306008

Project: BP - GCU #204E Blow Pit

Test No: SW8015B Matrix: S

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	OT	TFT
0306005-001AMS		125
0306005-001AMSD		129
0306008-001A	180 *	109
0306008-001AD	148 *	
0306009-001AMS	71.2	
CCV1_030604		124
CCV1_030606	99.0	
CCV2_030604		128
CCV2_030606	102	
CCV3_030604		85.9
CCV3_030606	100	
LCS_030604		123
LCS_030606	81.8	
MB_030604		124
MB_030606	77.1	

Acronym	Surrogate	QC Limits
OT	= o-Terphenyl	53-125
TFT	= Trifluorotoluene	57-133

* Surrogate recovery outside acceptance limits

iiná bá, Ltd.

Date: 17-Jun-03

CLIENT: Blagg Engineering

Work Order: 0306008

Project: BP - GCU #204E Blow Pit

Test No: SW8021B

Matrix: S

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Sample ID	14FBZ	4BCBZ	FLBZ
0305039-002AMS	88.3	97.6	86.2
0305039-002AMSD	88.0	104	86.2
0306005-002AMS	88.3	93.1	85.9
0306005-002AMSD	87.7	94.4	85.7
0306008-001A	85.8	96.1	86.7
0306011-001AMS	87.5	104	85.3
0306011-001AMSD	90.1	92.1	87.7
CCV1_030606	87.7	95.5	86.3
CCV1_030612	88.0	95.9	87.0
CCV2_030606	88.2	104	85.5
CCV2_030612	89.3	96.4	86.5
CCV3_030606	88.2	89.2	86.2
CCV4_030606	89.1	95.7	86.4
LCS_030602	87.0	96.7	85.5
LCS_030605	88.1	95.7	86.1
LCS_030612	88.4	96.8	86.3
MB_030602	87.6	96.9	86.4
MB_030605	89.4	99.1	87.3
MB_030612	89.6	95.4	88.4

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-110
4BCBZ	= 4-Bromochlorobenzene	68-121
FLBZ	= Fluorobenzene	75-110

* Surrogate recovery outside acceptance limits /

iiná bá, Ltd.

Sample Receipt Checklist

Client Name: BLA1002

Date and Time Received:

6/3/2003

Work Order Number: 0306008

Received by:

HNR

Checklist completed by: T. bá, 12

Signature

6/3/03

Date

Reviewed by: jim

Initials

6/4/03

Date

Matrix:

Carrier name: Courier

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Adjusted?

Checked by:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted:

Date contacted:

Person contacted:

Contacted by:

Regarding:

Comments:

Corrective Action:

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Blagg Engineering
Lab Order: 0310191
Project: GCU #204E
Lab ID: 0310191-02

Client Sample ID: BH1 @ 27'-29' Blow Pit
Collection Date: 10/23/2003 11:20:00 AM

Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
Diesel Range Organics (DRO)	ND	5.0		mg/Kg	1	10/28/2003 6:07:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2003 6:07:07 PM
Surr: DNOP	104	60-124		%REC	1	10/28/2003 6:07:07 PM
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	110	50		mg/Kg	10	10/29/2003 9:48:12 PM
Surr: BFB	112	74-118		%REC	10	10/29/2003 9:48:12 PM
EPA METHOD 8021B: VOLATILES						
Benzene	0.34	0.25		mg/Kg	10	10/29/2003 9:48:12 PM
Toluene	2.2	0.25		mg/Kg	10	10/29/2003 9:48:12 PM
Ethylbenzene	0.90	0.25		mg/Kg	10	10/29/2003 9:48:12 PM
Xylenes, Total	6.2	0.25		mg/Kg	10	10/29/2003 9:48:12 PM
Surr: 4-Bromofluorobenzene	111	74-118		%REC	10	10/29/2003 9:48:12 PM

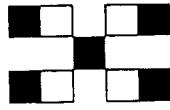
Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

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

CHAIN-OF-CUSTODY RECORD

Client: **BLAES** / BP America

Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com



CHAIN-OF-CUSTODY RECORD						ANALYSIS REQUEST									
Client: <u>Bags / BP America</u>			Address: <u>P.O. Box 87 Bloomfield, NM 87413</u>			Project #: <u>GCN # 2041</u>		Project #: <u>no</u>		Project Manager: <u>NJV</u>		Sample #: <u>80218</u>		Sample Temperature: <u>20</u>	
Phone #: <u>(505) 632-1199</u>			Fax #: <u>(505) 632-3903</u>			Number/VOLUME		Preservative		HEAL No.		BTEX + MTEC + TMB's (80218)		TPH Method 8015B MOD (Gas/Diesel)	
Date	Time	Matrix	Sample I.D. No.	<u>HgCl₂</u>	<u>HNO₃</u>	<u>031019-1</u>		<u>-2</u>		<u>✓</u>		<u>✓</u>		EDB (Method 504.1)	
10/23/03	1205	SOIL	<u>① e 10' separator pit</u>											EDC (Method 8021)	
10/23/03	1120	SOIL	<u>841 @ 27'-29'</u>											8310 (PNA or PAH)	
			<u>Blow off</u>											RCRA 8 Metals	
														Cations (Na, K, Ca, Mg)	
														Amines (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
														8081 Pesticides / PCB's (8082)	
														8260 (VOA)	
														8270 (Semi-VOA)	
														Air Bubbles or Headspace (Y or N)	

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

QC SUMMARY REPORT

Method Blank

CLIENT: Blagg Engineering
Work Order: 0310191
Project: GCU #204E

Sample ID	MB-4547	Batch ID:	4547	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	10/28/2003 12:10:59 P	Prep Date	10/27/2003	
Client ID:		Run ID:	FID(17A)_031028A	SeqNo:	223077							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	5.0										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	9.559	0	10	0	0	95.6	60	124	0	0		
Sample ID	MB-4543	Batch ID:	4543	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	10/29/2003 10:18:39 P	Prep Date	10/27/2003	
Client ID:		Run ID:	PIDFID_031029A	SeqNo:	223392							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	1014	0	1000	0	0	101	74	118	0	0		
Sample ID	MB-4543	Batch ID:	4543	Test Code:	SW8021	Units:	mg/Kg	Analysis Date	10/29/2003 10:18:39 P	Prep Date	10/27/2003	
Client ID:		Run ID:	PIDFID_031029A	SeqNo:	223399							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.025										
Toluene	ND	0.025										
Ethylbenzene	ND	0.025										
Xylenes, Total	ND	0.025										
Surr: 4-Bromofluorobenzene	1.028	0	1	0	0	103	74	118	0	0		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Blagg Engineering
Work Order: 0310191
Project: GCU #204E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	Batch ID:	Test Code:	Units:	%REC	Analysis Date	Prep Date				
Client ID:		Run ID:	mg/Kg		10/28/2003 12:40:20 P	10/27/2003				
Analyte	Result	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46.33	5.0	50	0	92.7	67.4	117	0		
Sample ID LCSD-4547	Batch ID: 4547	Test Code: SW8015	Units: mg/Kg		Analysis Date	10/28/2003 1:10:10 PM	Prep Date	10/27/2003		
Client ID:		Run ID:	FID(17A)_031028A		SeqNo:	223078				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Diesel Range Organics (DRO)	42.37	5.0	50	0	84.7	67.4	117	46.33	8.94	17.4
Sample ID GRO Std 2.5ug	Batch ID: 4543	Test Code: SW8015	Units: mg/Kg		Analysis Date	10/29/2003 10:03:16 A	Prep Date			
Client ID:		Run ID:	PIDFID_031029A		SeqNo:	223397				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	28.42	5.0	25	0	114	85.8	115	0		
Sample ID GRO Std 2.5ug	Batch ID: 4543	Test Code: SW8015	Units: mg/Kg		Analysis Date	10/29/2003 10:49:17 P	Prep Date			
Client ID:		Run ID:	PIDFID_031029A		SeqNo:	223398				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	26.84	5.0	25	0	107	85.8	111	28.42	5.72	11.6

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

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0310191
Project: GCU #204E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID:	4543	Test Code:	SW8021	Units:	mg/Kg		Analysis Date	10/29/2003	10:33:44 A	Prep Date	
Client ID:				Run ID:	PIDFID_031029A			SeqNo:	223401				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		0.9958	0.025	1	0	99.6		77	122	0			
Toluene		1.017	0.025	1	0	102		81	115	0			
Ethylbenzene		1.01	0.025	1	0	101		84	117	0			
Xylenes, Total		3.039	0.025	3	0	101		84	116	0			

Sample ID	BTEX Std 100ng	Batch ID:	4543	Test Code:	SW8021	Units:	mg/Kg		Analysis Date	10/29/2003	11:19:52 P	Prep Date	
Client ID:				Run ID:	PIDFID_031029A			SeqNo:	223402				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		1.004	0.025	1	0	100		77	122	0.9958	0.790	27	
Toluene		0.9837	0.025	1	0	98.4		81	115	1.017	3.35	19	
Ethylbenzene		1.005	0.025	1	0	100		84	117	1.01	0.530	10	
Xylenes, Total		3.005	0.025	3	0	100		84	116	3.039	1.12	13	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

10/24/2003

Work Order Number **0310191**

Received by **AT**

Checklist completed by *Ann Horne*

Signature

Date

10/24/03

Matrix

Carrier name **Greyhound**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Container/Temp Blank temperature?	2°	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 & 14714

GCU # 204E - BLOW PIT

LABORATORY(S) USED: HALL ENVIRONMENTAL
 ENVIROTECH

UNIT I, SEC. 34, T28N, R12W

Date : November 14, 2006

SAMPLER : NJV

Filename : 11-14-06.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 2	-	-	16.69	27.50	1105	6.80	1,400	13.1	6.00
INSTRUMENT CALIBRATIONS =						7.00	2,800		
DATE & TIME =						11/14/06	0945		

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. Slight greenish tint in appearance, wisp of a sheen observed on purged water surface within disposal bucket. Collected samples for BTEX and major anions / cations analyses .

Top of casing MW # 2 ~ 2.30 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Nov-06

CLIENT: Blagg Engineering
Lab Order: 0611181
Project: GCU #204E
Lab ID: 0611181-01

Client Sample ID: MW-2
Collection Date: 11/14/2006 11:05:00 AM
Date Received: 11/15/2006
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	1000	40		µg/L	40	11/20/2006 12:52:12 PM
Toluene	3900	40		µg/L	40	11/20/2006 12:52:12 PM
Ethylbenzene	1100	40		µg/L	40	11/20/2006 12:52:12 PM
Xylenes, Total	9700	300		µg/L	100	11/20/2006 3:25:01 PM
Surr: 4-Bromofluorobenzene	102	70.2-105		%REC	40	11/20/2006 12:52:12 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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

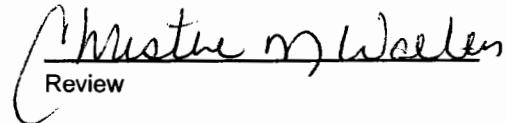
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	11-17-06
Laboratory Number:	39150	Date Sampled:	11-14-06
Chain of Custody:	14714	Date Received:	11-14-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	11-15-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.08	s.u.		
Conductivity @ 25° C	1,310	umhos/cm		
Total Dissolved Solids @ 180C	924	mg/L		
Total Dissolved Solids (Calc)	918	mg/L		
SAR	5.4	ratio		
Total Alkalinity as CaCO ₃	420	mg/L		
Total Hardness as CaCO ₃	300	mg/L		
Bicarbonate as HCO ₃	420	mg/L	6.88	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	3.9	mg/L	0.06	meq/L
Nitrite Nitrogen	0.43	mg/L	0.01	meq/L
Chloride	192	mg/L	5.42	meq/L
Fluoride	1.00	mg/L	0.05	meq/L
Phosphate	0.6	mg/L	0.02	meq/L
Sulfate	142	mg/L	2.96	meq/L
Iron	0.672	mg/L	0.02	meq/L
Calcium	84.5	mg/L	4.22	meq/L
Magnesium	21.7	mg/L	1.79	meq/L
Potassium	2.82	mg/L	0.07	meq/L
Sodium	214	mg/L	9.31	meq/L
Cations			15.38	meq/L
Anions			15.40	meq/L
Cation/Anion Difference			0.11%	

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 #204E Grab Sample.


Robb Hall
Analyst


Christine M. Woerner
Review

CHAIN-OF-CUSTODY RECORD

Client: BEST ENGR. / BOSTON

Project Name:

QA / QC Package:
Std Level 4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenenvironmental.com

14714

CHAIN OF CUSTODY RECORD

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #204E

Work Order: 0611181

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		MBLK					Batch ID: R21507	Analysis Date:	11/20/2006 9:02:19 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: R21507	Analysis Date:	11/20/2006 9:00:08 PM
Benzene	19.19	µg/L	1.0	96.0	85.9	113			
Toluene	19.47	µg/L	1.0	97.4	86.4	113			
Ethylbenzene	19.22	µg/L	1.0	96.1	83.5	118			
Xylenes, Total	39.98	µg/L	3.0	100	83.4	122			

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

11/15/2006

Work Order Number 0611181

Received by TLS

Checklist completed by Jayne Shanahan

Signature

Nov 15, 2006

Date

Matrix

Carrier name Courier

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
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 & 14691

GCU # 204E - BLOW PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT I, SEC. 34, T28N, R12W

ENVIROTECH

Date : January 30, 2007

SAMPLER: NJV

Filename : 01-30-07.WK4

PROJECT MANAGER: NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	103.89	85.32	18.57	27.00	1420	7.33	1,100	12.5	4.25
MW - 2	100.00	83.03	16.97	27.50	1115	6.89	1,200	13.5	5.25
MW - 3	95.66	81.74	13.92	25.00	1035	7.00	1,000	11.9	5.50
INSTRUMENT CALIBRATIONS =									7.00 2,800
DATE & TIME =									01/30/07 0830

NOTES : Volume of water purged from well prior to sampling: $V = \pi r^2 h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(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 all MW's. All contained olive gray appearance. Strong hydrocarbon odor detected physically within purged water from MW # 2. Collected BTEX from all MW's & major anions / cations from MW # 1 & # 3.

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

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Feb-07

CLIENT:	Blagg Engineering	Lab Order:	0702006
Project:	GCU #204E		

Lab ID:	0702006-01	Collection Date:	1/30/2007 2:20:00 PM
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Client Sample ID:	MW #1	Matrix:	AQUEOUS
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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Benzene	ND	1.0	µg/L	1	2/1/2007 10:46:31 PM
Toluene	3.0	1.0	µg/L	1	2/1/2007 10:46:31 PM
Ethylbenzene	2.3	1.0	µg/L	1	2/1/2007 10:46:31 PM
Xylenes, Total	13	3.0	µg/L	1	2/1/2007 10:46:31 PM
Surr: 4-Bromofluorobenzene	87.1	70.2-105	%REC	1	2/1/2007 10:46:31 PM

Lab ID:	0702006-02	Collection Date:	1/30/2007 11:15:00 AM
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Client Sample ID:	MW #2	Matrix:	AQUEOUS
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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Benzene	900	100	µg/L	100	2/2/2007 5:56:50 PM
Toluene	1600	100	µg/L	100	2/2/2007 5:56:50 PM
Ethylbenzene	1400	100	µg/L	100	2/2/2007 5:56:50 PM
Xylenes, Total	12000	300	µg/L	100	2/2/2007 5:56:50 PM
Surr: 4-Bromofluorobenzene	87.4	70.2-105	%REC	100	2/2/2007 5:56:50 PM

Lab ID:	0702006-03	Collection Date:	1/30/2007 10:35:00 AM
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Client Sample ID:	MW #3	Matrix:	AQUEOUS
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Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Benzene	8.2	1.0	µg/L	1	2/2/2007 7:59:50 PM
Toluene	ND	1.0	µg/L	1	2/2/2007 7:59:50 PM
Ethylbenzene	71	1.0	µg/L	1	2/2/2007 7:59:50 PM
Xylenes, Total	120	3.0	µg/L	1	2/2/2007 7:59:50 PM
Surr: 4-Bromofluorobenzene	91.2	70.2-105	%REC	1	2/2/2007 7:59:50 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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #1	Date Reported:	01-31-07
Laboratory Number:	39876	Date Sampled:	01-30-07
Chain of Custody:	14691	Date Received:	01-30-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-31-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.12	s.u.		
Conductivity @ 25° C	1,110	umhos/cm		
Total Dissolved Solids @ 180C	584	mg/L		
Total Dissolved Solids (Calc)	574	mg/L		
SAR	1.4	ratio		
Total Alkalinity as CaCO ₃	254	mg/L		
Total Hardness as CaCO ₃	331	mg/L		
Bicarbonate as HCO ₃	254	mg/L	4.16	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	10.8	mg/L	0.17	meq/L
Nitrite Nitrogen	0.484	mg/L	0.01	meq/L
Chloride	42.2	mg/L	1.19	meq/L
Fluoride	0.57	mg/L	0.03	meq/L
Phosphate	1.2	mg/L	0.04	meq/L
Sulfate	180	mg/L	3.75	meq/L
Iron	0.006	mg/L	0.00	meq/L
Calcium	102	mg/L	5.09	meq/L
Magnesium	18.8	mg/L	1.55	meq/L
Potassium	3.48	mg/L	0.09	meq/L
Sodium	60.4	mg/L	2.63	meq/L
Cations			9.35	meq/L
Anions			9.35	meq/L
Cation/Anion Difference			0.03%	

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 #204E Grab Sample

Christine Waters
Analyst

Debra P. Reeder
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #3	Date Reported:	01-31-07
Laboratory Number:	39877	Date Sampled:	01-30-07
Chain of Custody:	14691	Date Received:	01-30-07
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-31-07
Condition:	Cool & Intact		

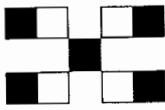
Parameter	Analytical Result	Units		
pH	7.10	s.u.		
Conductivity @ 25° C	1,090	umhos/cm		
Total Dissolved Solids @ 180C	620	mg/L		
Total Dissolved Solids (Calc)	617	mg/L		
SAR	1.4	ratio		
Total Alkalinity as CaCO ₃	369	mg/L		
Total Hardness as CaCO ₃	394	mg/L		
Bicarbonate as HCO ₃	369	mg/L	6.05	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.8	mg/L	0.01	meq/L
Nitrite Nitrogen	0.082	mg/L	0.00	meq/L
Chloride	96.2	mg/L	2.71	meq/L
Fluoride	0.69	mg/L	0.04	meq/L
Phosphate	0.8	mg/L	0.03	meq/L
Sulfate	90.0	mg/L	1.87	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	108	mg/L	5.39	meq/L
Magnesium	30.3	mg/L	2.49	meq/L
Potassium	3.39	mg/L	0.09	meq/L
Sodium	63.0	mg/L	2.74	meq/L
Cations			10.71	meq/L
Anions			10.71	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 #204E Grab Sample

Christie M. Webster
Analyst

Steve P. O'Brien
Review



CHAIN-OF-CUSTODY RECORD

Client: BIGGE ECKER, BFA AMERICA

Project Name:

Std □ QA / QC Package: Level 4 |

Project Name:

Exact Name: **SCU # 204E**

Address: P.O. Box 87

b27D, Nm 87413

Project #:

Project #: _____

Project Manager:

Phone #: 632-1199

Fax #:

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

Air Bubbles or Headspace (Y or N)

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative	HEAL No.
					HgCl ₂	HNO ₃
1/30/07	1420	WATER	M.W #1	2-40ml	✓	0702000
					1	✓
1/30/07	11/5	WATER	M.W #2	2-40ml	✓	0702000
					2	✓
1/30/07	1035	WATER	M.W #3	2-40ml	✓	0702000
					3	✓

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	Remarks:
1/31/07	06:30	<u>John H.</u>	<u>Gene Olson</u>	21107 935
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

CHAIN OF CUSTODY RECORD

14691

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #204E

Work Order: 0702006

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 0702006-01A MSD		MSD			Batch ID: R22351		Analysis Date:	2/1/2007 11:46:48 PM	
Benzene	18.97	µg/L	1.0	94.4	85.9	113	1.54	27	
Toluene	22.24	µg/L	1.0	96.3	86.4	113	1.51	19	
Ethylbenzene	21.72	µg/L	1.0	97.3	83.5	118	1.34	10	
Xylenes, Total	70.12	µg/L	3.0	96.0	83.4	122	0.963	13	
Sample ID: 5ML RB		MBLK			Batch ID: R22351		Analysis Date:	2/1/2007 9:17:32 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 5ML RB		MBLK			Batch ID: R22359		Analysis Date:	2/2/2007 9:44:47 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: R22351		Analysis Date:	2/1/2007 11:09:24 AM	
Benzene	18.92	µg/L	1.0	94.6	85.9	113			
Toluene	19.52	µg/L	1.0	97.6	86.4	113			
Ethylbenzene	19.66	µg/L	1.0	98.3	83.5	118			
Xylenes, Total	58.64	µg/L	3.0	97.7	83.4	122			
Sample ID: 100NG BTEX LCS		LCS			Batch ID: R22359		Analysis Date:	2/2/2007 11:15:15 AM	
Benzene	18.38	µg/L	1.0	91.9	85.9	113			
Toluene	19.10	µg/L	1.0	95.5	86.4	113			
Ethylbenzene	19.18	µg/L	1.0	95.9	83.5	118			
Xylenes, Total	57.41	µg/L	3.0	95.7	83.4	122			
Sample ID: 0702006-01A MS		MS			Batch ID: R22351		Analysis Date:	2/1/2007 11:16:40 PM	
Benzene	18.68	µg/L	1.0	92.9	85.9	113			
Toluene	21.91	µg/L	1.0	94.6	86.4	113			
Ethylbenzene	21.43	µg/L	1.0	95.9	83.5	118			
Xylenes, Total	69.45	µg/L	3.0	94.9	83.4	122			

Qualifiers:

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

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Sample recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

2/1/2007

Work Order Number 0702006

Received by TLS

Checklist completed by

(Signature)

Jenny Shan

Date

Feb 1, 07

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
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 # 204E - BLOW PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT I, SEC. 34, T28N, R12W

Date : April 25, 2007

SAMPLER: NJV

Filename : 04-25-07.WK4

PROJECT MANAGER: NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	103.89	85.24	18.65	27.00	-	-	-	-	-
MW - 2	100.00	83.63	16.37	27.50	1430	6.78	1,000	18.0	5.50
MW - 3	95.66	83.85	11.81	25.00	1355	6.91	900	17.3	6.50
INSTRUMENT CALIBRATIONS =						7.00	2,800		
DATE & TIME =						04/25/07	0855		

NOTES : Volume of water purged from well prior to sampling: $V = \pi r^2 X h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (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 . Both contained olive gray appearance . Strong hydrocarbon odor detected physically within purged water from MW # 2 . Collected BTEX from MW # 2 & # 3 only .

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

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Apr-07

CLIENT: Blagg Engineering
Project: GCU #204E

Lab Order: 0704419

Lab ID: 0704419-01 Collection Date: 4/25/2007 2:30:00 PM

Client Sample ID: MW #2 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst: NSB
EPA METHOD 8021B: VOLATILES							
Benzene	790	100		µg/L	100	4/28/2007 2:41:20 PM	
Toluene	1200	100		µg/L	100	4/28/2007 2:41:20 PM	
Ethylbenzene	1100	100		µg/L	100	4/28/2007 2:41:20 PM	
Xylenes, Total	13000	200		µg/L	100	4/28/2007 2:41:20 PM	
Surr: 4-Bromofluorobenzene	90.4	70.2-105		%REC	100	4/28/2007 2:41:20 PM	

Lab ID: 0704419-02 Collection Date: 4/25/2007 1:55:00 PM

Client Sample ID: MW #3 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst: NSB
EPA METHOD 8021B: VOLATILES							
Benzene	8.3	1.0		µg/L	1	4/28/2007 3:11:28 PM	
Toluene	ND	1.0		µg/L	1	4/28/2007 3:11:28 PM	
Ethylbenzene	25	1.0		µg/L	1	4/28/2007 3:11:28 PM	
Xylenes, Total	140	2.0		µg/L	1	4/28/2007 3:11:28 PM	
Surr: 4-Bromofluorobenzene	89.2	70.2-105		%REC	1	4/28/2007 3:11:28 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 RECORDClient: *BLAZES ENSR. / BP AMERICA*
 QA/QC Package:
 Std Level 4

Other:

Project Name: *SCU # 204E*Address: *P.O. Box 87**BFD, NM 87413*Project #: *MW*Project Manager: *MV*Phone #: *632 - 1199*Sampler: *N/V*Sample Temperature: *T*

Fax #:

ANALYSIS REQUEST	
Air Bubbles or Headspace (Y or N)	
8270 (Semi-VOA)	
8260B (VOA)	
8081 Pesticides / PCB's (8082)	
ACTIONS (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
RCRA 8 Metals	
8310 (PNA or PAH)	
EDC (Method 8021)	
EDB (Method 504.1)	
TPH (Method 418.1)	
TPH Method 8015B (Gas/Diesel)	
BTEx + MTBE + TMB ₃ (8021B)	
BTEx + MTBE + TMB ₃ (Gasoline Only)	

Remarks:

4/25/07 1430 water MW # 2 2-40ml ✓ - 1 ✓
4/25/07 1355 water MW # 3 2-40ml ✓ - 2 ✓

Received By: (Signature) J. Smith
Received By: (Signature) J. Smith

Date: *4/25/07* Time: *1535* Relinquished By: (Signature) *J. Smith*
 Date: *4/25/07* Time: *1535* Relinquished By: (Signature) *J. Smith*
 Date: *4/25/07* Time: *1535* Received By: (Signature) *J. Smith*

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #204E

Work Order: 0704419

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML REAGENT BLA		MBLK					Batch ID: R23390	Analysis Date:	4/27/2007 8:31:58 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: R23390	Analysis Date:	4/28/2007 10:05:11 AM
Benzene	19.11	µg/L	1.0	95.6	85.9	113			
Toluene	19.66	µg/L	1.0	98.3	86.4	113			
Ethylbenzene	19.70	µg/L	1.0	98.5	83.5	118			
Xylenes, Total	58.72	µg/L	2.0	97.9	83.4	122			
Sample ID: 100NG BTEX LCSD		LCSD					Batch ID: R23390	Analysis Date:	4/28/2007 10:35:06 AM
Benzene	18.42	µg/L	1.0	92.1	85.9	113	3.67	27	
Toluene	18.85	µg/L	1.0	94.3	86.4	113	4.18	19	
Ethylbenzene	19.01	µg/L	1.0	95.0	83.5	118	3.55	10	
Xylenes, Total	56.20	µg/L	2.0	93.7	83.4	122	4.38	13	

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

4/26/2007

Work Order Number 0704419

Received by TLS

Checklist completed by


Signature _____ Date 4-26-07

Matrix

Carrier name UPS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Container/Temp Blank temperature?	<u>7°</u>	<u>4° C ± 2 Acceptable</u>		
		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 # 204E - BLOW PIT

UNIT I, SEC. 34, T28N, R12W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date : July 23, 2007

SAMPLER : N J V

Filename : 07-23-07.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.)
MW - 1	103.89	87.12	16.77	27.00	-	-	-	-	-
MW - 2	100.00	84.84	15.16	27.50	0700	6.82	1,000	15.6	6.00
MW - 3	95.66	83.77	11.89	25.00	0630	6.74	1,000	15.1	6.50

INSTRUMENT CALIBRATIONS =	<u>7.00</u>	<u>2,800</u>
DATE & TIME =	<u>07/23/07</u>	<u>0620</u>

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

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. Both contained olive gray appearance. Strong hydrocarbon odor detected physically within purged water from MW # 2. Collected BTEX from MW # 2 & # 3 only.

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

Hall Environmental Analysis Laboratory, Inc.

Date: 31-Jul-07

CLIENT: Blagg Engineering
Project: GCU #204E

Lab Order: 0707297

Lab ID: 0707297-01 Collection Date: 7/23/2007 6:30:00 AM
Client Sample ID: MW #2 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES Analyst: NSB						
Benzene	940	100		µg/L	100	7/28/2007 12:45:13 AM
Toluene	630	100		µg/L	100	7/28/2007 12:45:13 AM
Ethylbenzene	1800	100		µg/L	100	7/28/2007 12:45:13 AM
Xylenes, Total	12000	200		µg/L	100	7/28/2007 12:45:13 AM
Surr: 4-Bromofluorobenzene	115	70.2-105	S	%REC	100	7/28/2007 12:45:13 AM

Lab ID: 0707297-02 Collection Date: 7/23/2007 6:00:00 AM
Client Sample ID: MW #3 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES Analyst: NSB						
Benzene	26	1.0		µg/L	1	7/28/2007 1:15:16 AM
Toluene	ND	1.0		µg/L	1	7/28/2007 1:15:16 AM
Ethylbenzene	90	1.0		µg/L	1	7/28/2007 1:15:16 AM
Xylenes, Total	270	20		µg/L	10	7/28/2007 6:20:18 PM
Surr: 4-Bromofluorobenzene	134	70.2-105	S	%REC	1	7/28/2007 1:15:16 AM

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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #204E

Work Order: 0707297

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 5ML RB

MBLK

Batch ID: R24556 Analysis Date: 7/27/2007 9:15:11 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-II

MBLK

Batch ID: R24557 Analysis Date: 7/28/2007 4:45:02 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: R24556 Analysis Date: 7/27/2007 1:04:28 PM

Benzene	21.25	µg/L	1.0	106	85.9	113
Toluene	21.71	µg/L	1.0	109	86.4	113
Ethylbenzene	22.05	µg/L	1.0	110	83.5	118
Xylenes, Total	67.14	µg/L	2.0	112	83.4	122

Sample ID: 100NG BTEX LCS-II

LCS

Batch ID: R24557 Analysis Date: 7/28/2007 5:44:58 AM

Benzene	21.66	µg/L	1.0	108	85.9	113
Toluene	21.40	µg/L	1.0	107	86.4	113
Ethylbenzene	21.61	µg/L	1.0	108	83.5	118
Xylenes, Total	65.07	µg/L	2.0	108	83.4	122

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

7/24/2007

Work Order Number 0707297

Received by ARS

Checklist completed by

Signature

7/24/07
Date

Matrix

Carrier name UPS

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Container/Temp Blank temperature?	4°	4° C ± 2 Acceptable	

COMMENTS:

If given sufficient time to cool.

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 # 204E - BLOW PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT I, SEC. 34, T28N, R12W

Date : 7/23/07

SAMPLER: NJV

Filename :

PROJECT MANAGER: NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	103.89	87.12	16.77	27.00	-	-	-	-	-
MW - 2	100.00	84.84	15.16	27.50	0700	6.82	1000	15.6	6.00
MW - 3	95.66	83.77	11.89	25.00	0630	6.74	1000	15.1	6.50

INSTRUMENT CALIBRATIONS =

7.00	2,800
------	-------

DATE & TIME = 04/25/07 0855

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

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. Both contained olive gray appearance. Strong hydrocarbon odor detected physically within purged water from MW # 2. Collected BTEX from MW # 2 & # 3 only.

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

MW - 1	103.89	85.24	18.65	27.00	-	-	-	-	-
MW - 2	100.00	83.63	16.37	27.50	1430	6.78	1,000	18.0	5.50
MW - 3	95.66	83.85	11.81	25.00	1355	6.91	900	17.3	6.50

5:40 - 6:00

15.1 m).

6:00 - 7:10

1 ↑ 1.88

85.50 1-3
1-2

2 ↑ 1.21

85.00 1-3
1-2

3 ↓ 0.08

84.50 1-3
2-3

BLAGG ENGINEERING, INC.
MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N / A

GCU # 204E - BLOW PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT I, SEC. 34, T28N, R12W

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.)
MW - 1	103.89	88.46	15.43	27.00	-	-	-	-	-
MW - 2	100.00	86.25	13.75	27.50	-	-	-	-	-
MW - 3	95.66	85.29	10.37	25.00	1300	7.00	1,100	18.9	7.25
INSTRUMENT CALIBRATIONS =									7.00 2,800
DATE & TIME =									10/23/07 1100

NOTES : Volume of water purged from well prior to sampling: $V = \pi r^2 X h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
(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 # 3 . Olive gray appearance . Collected sample for BTEX analysis from MW # 3 only .

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

Hall Environmental Analysis Laboratory, Inc.**Date:** 30-Oct-07

CLIENT: Blagg Engineering
Lab Order: 0710520
Project: GCU #204E
Lab ID: 0710520-01

Client Sample ID: MW #3
Collection Date: 10/25/2007 1:00:00 PM
Date Received: 10/26/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Benzene	2.4	1.0		µg/L	1	10/29/2007 10:57:59 PM
Toluene	ND	1.0		µg/L	1	10/29/2007 10:57:59 PM
Ethylbenzene	4.7	1.0		µg/L	1	10/29/2007 10:57:59 PM
Xylenes, Total	11	2.0		µg/L	1	10/29/2007 10:57:59 PM
Surr: 4-Bromofluorobenzene	91.8	70.2-105		%REC	1	10/29/2007 10:57:59 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 RECORDClient: Burk's Enter./BP America

QA/QC Package:
 Std Level 4

Other:

Project Name: 6CU #204E
20

Project #: 20

Address: P.O. Box 87
BLZD, NM 87413

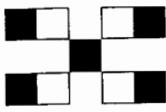
Project Manager: NVSampler: NV

Sample Temperature: 5
BTEx + MTBE + TMB-3 (8021B)

ANALYSIS REQUEST

Air Bubbles or Headspace (Y or N)

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



8270 (Semi-VOA)
8260B (VOA)
8081 Pesticides / PCB's (8082)
Amines (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
RCRA 8 Metals
8310 (PNA or PAH)
EDC (Method 8021)
EDB (Method 504.1)
TPH (Method 418.1)
TPH Method 8015B (Gasoline Only)
BTEx + MTBE + TMB-3 (8021B)

Remarks:

Received By: (Signature)

Received By: (Signature)

Date: 10/25/07 Time: 14:10 Relinquished By: (Signature) MilnerReceived By: (Signature) Received By: (Signature) Received By: (Signature) Date: 10/25/07 Time: 14:10 Relinquished By: (Signature) Received By: (Signature) Date: 10/25/07 Time: 14:10 Relinquished By: (Signature) Received By: (Signature)

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #204E

Work Order: 0710520

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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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
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

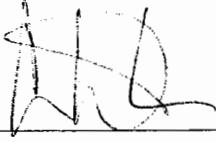
Date and Time Received:

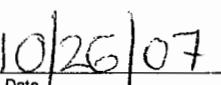
10/26/2007

Work Order Number **0710520**

Received by **AT**

Checklist completed by


Signature


Date

Matrix

Carrier name **UPS**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
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 _____
