

3R - 004

**CLOSURE
REPORT**

DECEMBER 2010

3R004

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

**BOYD GC #1A
(A) SECTION 8, T31N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

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

DECEMBER 2010

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

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

BP AMERICA PRODUCTION COMPANY
BOYD GC # 1A
NE¹/₄ NE¹/₄, Sec. 8, T31N, R10W

Monitor Well Installation Dates: 10/31/2002 (MW #2), 12/13/2002 (MW #1, MW #3),
1/16/2003 (MW #4), 7/24/2006 (MW #5)

Monitor Well Sampling Dates: 3/31/09, 5/16/09, 9/2/09, 12/16/09, 3/3/10, 5/20/10,
7/20/10, 10/12/10

Pit Closure and Background:

Groundwater was encountered at a depth of approximately 24 feet below surface grade during excavation of impacted soils from an earthen separator/dehydrator (sep/dehy) pit in July/August 1994. Impacted soils discovered at the site's compressor 21 barrel below-grade tank (BGT) were encountered during closure activities in October 2002. The origin of the release is unknown; however, the observations noted during the closure activity indicate a historical nature is highly probable. Potential groundwater impact was identified within the compressor BGT source area via installation of a monitor well in November 2002 (MW #2). Documentation for this work and subsequent groundwater monitoring data for the site was previously submitted to the New Mexico Oil Conservation Division (NMOCD) for review. Continued annual and/or quarterly sampling and testing pursuant to BP's NMOCD approved Groundwater Management Plan (GMP) was recommended within the report. The reporting herein is for site monitoring conducted in 2009 and 2010 only.

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 for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B or 8260 was conducted.

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

Water Quality and Gradient Information:

Sampling of the groundwater monitor wells has been ongoing since November, 2002. Test results for MW #1, MW #3, and MW #5 were discussed in the previous annual report. Groundwater at the site of the prior compressor BGT (MW #2) has tested benzene and total xylenes in excess of New Mexico Water Quality Control Commission (NMWQCC) standards since 2002. MW #4 has tested benzene levels fluctuating above and below NMWQCC standards since quarterly sampling was initiated in June 2003. A summary of BTEX laboratory analytical results is included within the table on the following pages. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included.

Groundwater contour maps (Figure 2 through Figure 9) reveal the relative elevations from the site wells have shown an apparent west or northwest flow direction. It was noted within the previous annual reports; a significant fluctuation (4± feet) in seasonal depth to water levels was likely due to crop irrigation and ditch flow between April – October.

Summary and/or Recommendations:

Bi-annual sampling of MW #2 and the continuation of quarterly sampling of MW #4 is proposed unless changes in their analytical data suggest otherwise. This site will continue to have sampling and testing pursuant to BP's GMP. If warranted, alternative remedial actions will be evaluated.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

BOYD GC # 1A
UNIT A, SEC. 8, T31N, R10W

REVISED DATE: October 28, 2010

FILENAME: (B1A-4Q10.WK4) NJV

SAMPLE DATE	WELL NAME or #	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
04-Oct-02	GAINES	NA	NA					ND	ND	ND	ND
10-Aug-06		NA	NA					ND	ND	ND	ND
31-Oct-02	HARRIS	NA	NA					ND	ND	ND	ND
09-Jun-03	MW #1	23.31	29.50		700	6.96		ND	ND	ND	ND
20-Aug-03		19.00			900	7.21		ND	ND	ND	ND
11-Nov-03		22.84			900	7.17		ND	ND	ND	ND
27-May-04		26.49			900	6.80		ND	ND	ND	ND
28-Sep-04		19.59			900	7.20		ND	ND	ND	ND
13-Nov-02	MW #2	23.31	29.50		700	6.84		705	597	60	959
09-Jun-03		23.06			700	6.89		830	110	170	1,800
20-Aug-03		18.11			700	6.94		58	ND	60	800
27-May-04		26.76			1,000	6.67		940	ND	200	1,200
23-Jun-05		22.31			1,100	6.82		1,400	21	490	5,500
28-Jun-06		18.59			800	6.88		75	ND	ND	1,600
24-Jun-08		24.04			900	6.98		553	ND	117	1,590
27-Aug-08		22.41			700	6.81		410	ND	170	2,400
16-May-09		27.79			600	6.79		530	ND	140	1,200
20-May-10		26.44			900	6.91		160	18	58	590
09-Jun-03	MW #3	26.46	29.50		600	6.92		ND	ND	ND	ND
20-Aug-03		23.11			900	7.08		ND	ND	ND	ND
11-Nov-03		26.23			900	7.17		ND	ND	ND	ND
28-Sep-04		23.17			800	7.17		ND	ND	ND	ND
09-Jun-03	MW #4	28.09	34.50		1,000	6.69		15	ND	4.5	0.75
20-Aug-03		25.26			1,000	6.80		460	71	100	88
11-Nov-03		28.08			1,000	7.00		270	ND	310	440
27-May-04		30.52			1,000	6.87		5.1	ND	14	51
28-Sep-04		25.13			700	6.91		140	ND	18	9.1
23-Jun-05		27.81			1,000	6.73		0.68	0.59	2.0	ND
20-Sep-05		27.28			800	6.70		120	3.4	120	130
28-Jun-06		26.96			900	6.80		ND	ND	ND	ND
15-Nov-06		28.74			800	7.08		29	ND	38	200
24-Jan-07		31.17			800	7.14		40	ND	140	1,300
18-Apr-07		32.44			800	6.98		ND	ND	1.6	ND
24-Jul-07		27.82			700	7.01		ND	ND	ND	ND
23-Oct-07		28.73			1,000	6.93		26	ND	20	120
15-Apr-08		32.09			800	7.11		1.0	ND	50.9	186
24-Jun-08		28.90			800	7.10		ND	ND	3.2	ND
27-Aug-08		27.68			900	7.15		ND	ND	ND	ND
20-Dec-08		29.54			800	7.21		120	ND	150	570
31-Mar-09		31.73			700	7.34		13	ND	210	1,200
16-May-09		30.71			700	7.22		ND	ND	21	72
02-Sep-09		27.09			900	7.38		12	ND	ND	ND
16-Dec-09		30.07			800	7.50		33	ND	140	510
03-Mar-10		31.90			800	7.36		7.5	ND	170	1,100
20-May-10		30.22			900	7.34		ND	ND	7.4	ND
20-Jul-10		28.15			900	7.17		ND	ND	ND	ND
12-Oct-10		28.55			1,000	7.21		16	ND	17	37
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

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

BOYD GC # 1A
UNIT A, SEC. 8, T31N, R10W

REVISED DATE: October 28, 2010
 FILENAME: (B1A-4Q10.WK4) NJV

SAMPLE DATE	WELL NAME or #	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
10-Aug-06	MW #5	23.90	36.30		1,100	6.84		23	ND	11	15
15-Nov-06		26.20			900	7.05		6.8	ND	2.9	ND
24-Jan-07		28.35			800	7.13		1.3	ND	ND	ND
18-Apr-07		29.29			900	6.90		ND	ND	ND	ND
24-Jul-07		25.25			1,500	6.74		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

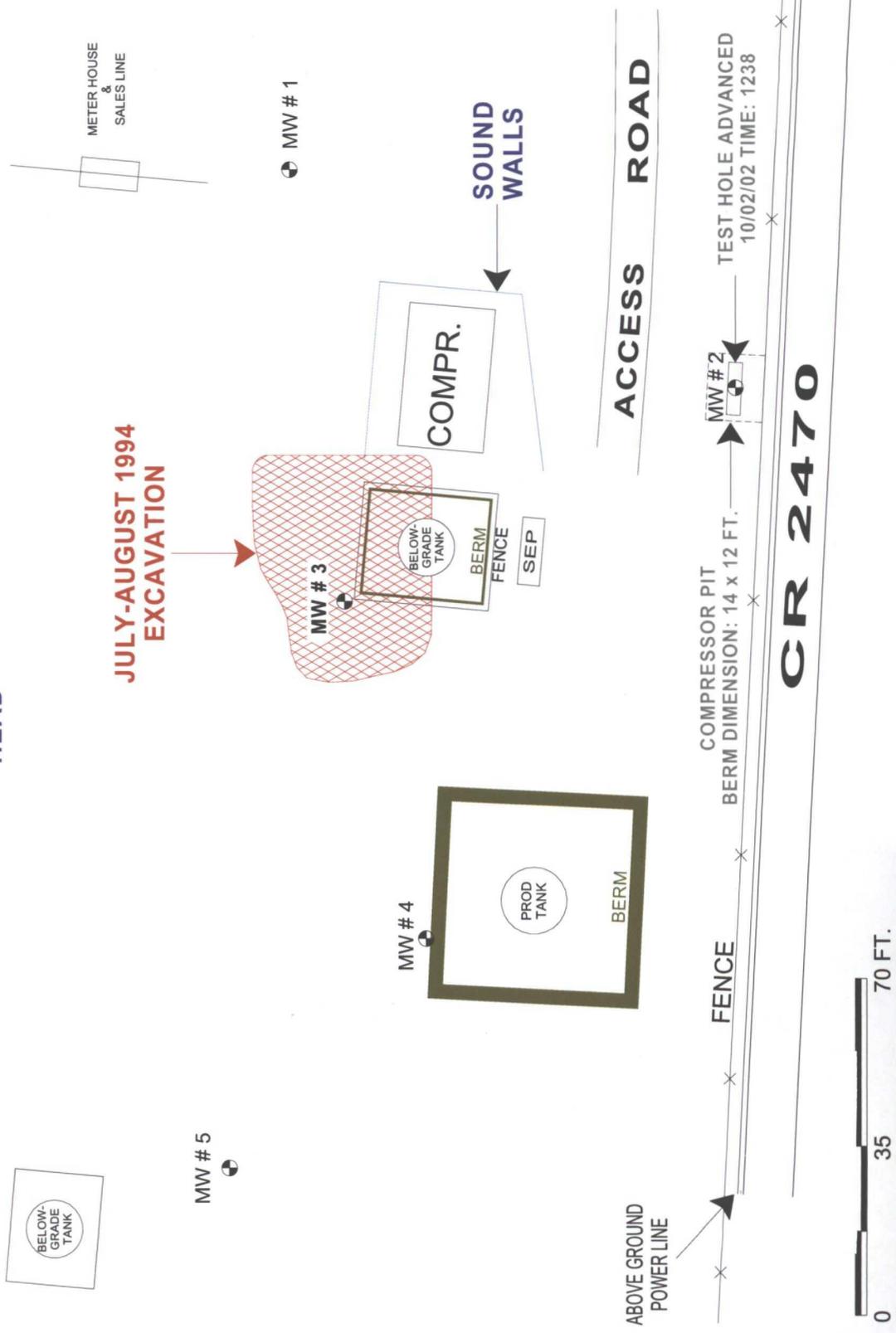
- NOTES :
- 1) GAINES WATER WELL CURRENTLY CATEGORIZED AS UP GRADIENT FROM MW # 2 .
 - 2) HARRIS WATER WELL CURRENTLY CATEGORIZED AS LATERAL GRADIENT FROM MW # 2 .
 - 3) MW # 2 LOCATED WITHIN COMPRESSOR PIT , IDENTIFIED WITH SOIL HYDROCARBON CONTAMINATION ON 10 / 2 / 02 .
 - 4) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS .
 - 5) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED .
 - 6) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10) .

FIGURE 1

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



WELL HEAD ⊕



BP AMERICA PRODUCTION COMPANY
 BOYD GC # 1A
 NE/4 NW/4 SEC. 8, T31N, R10W, NMPM
 SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: BOYD GC 1A-SM3.SKF
REVISED: 05-22-09 NJV

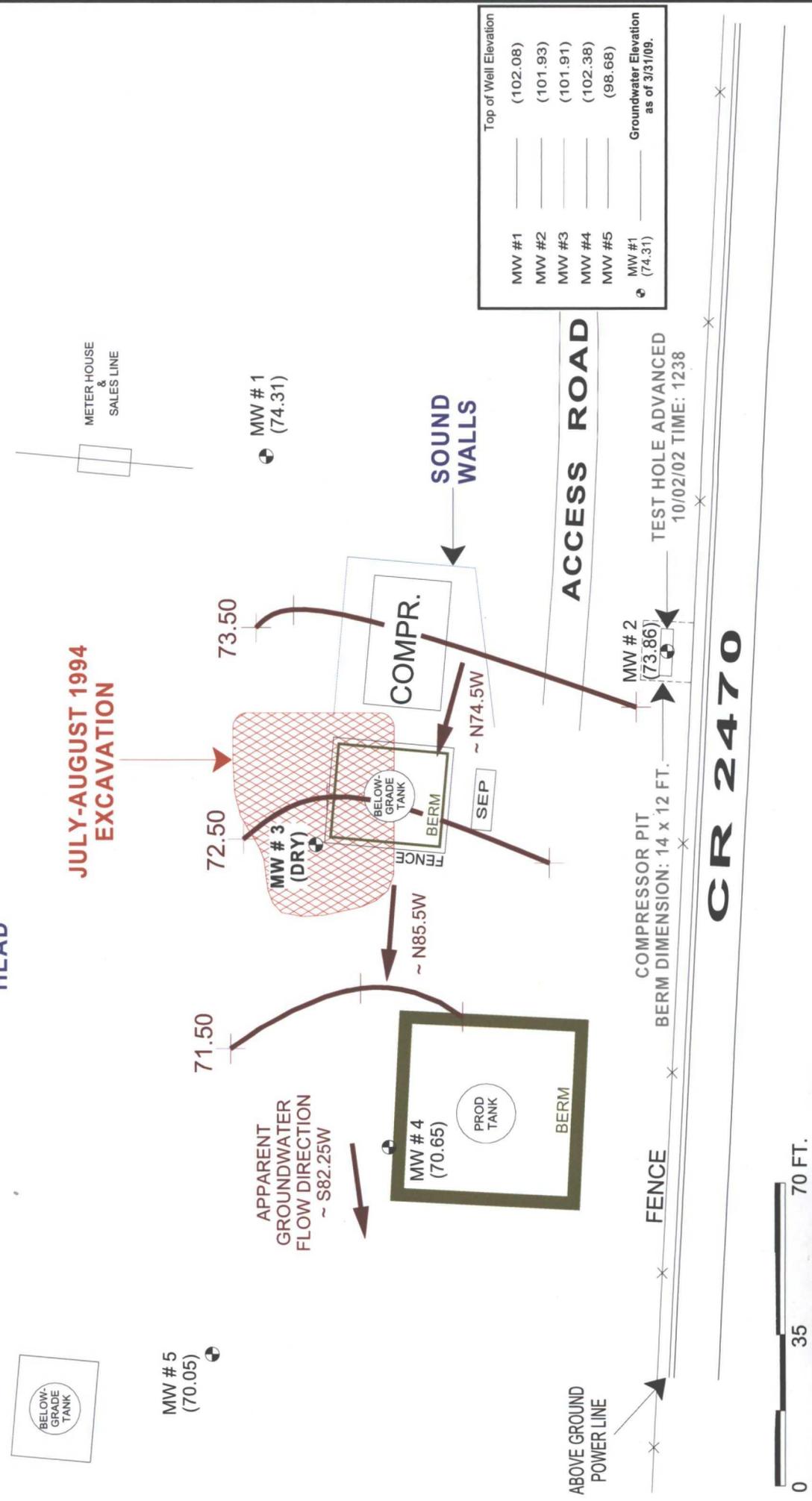
SITE MAP
 05/09

FIGURE 2
(1st 1/4, 2009)

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



WELL HEAD ⊕



GROUNDWATER CONTOUR MAP
03/09

PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 03-31-09-GW-SKF
REVISED: 04-01-09 NJV

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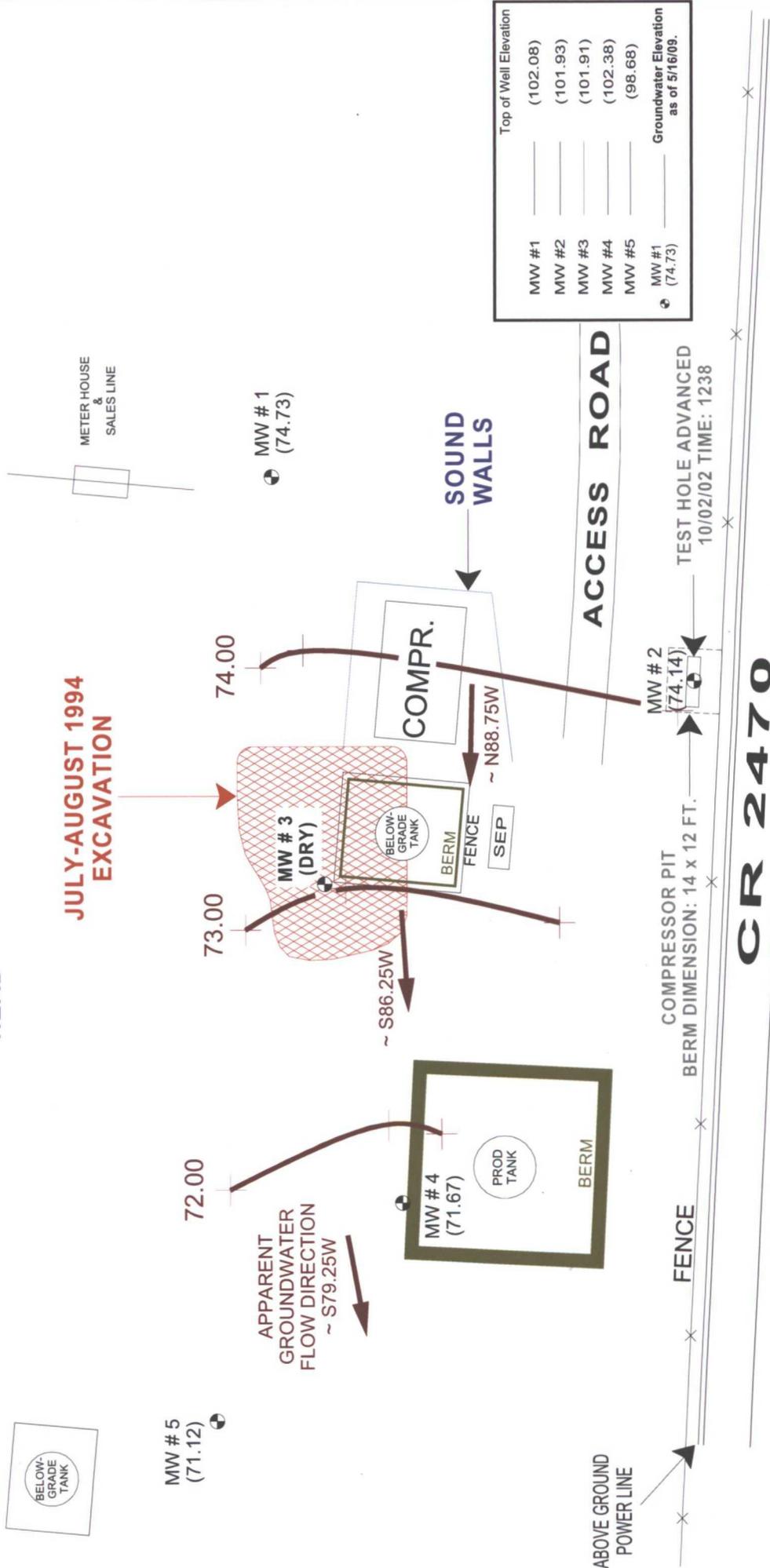
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BOYD GC # 1A
NE/4 NW/4 SEC. 8, T31N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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

FIGURE 3
(2nd 1/4, 2009)



WELL HEAD ⊕



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PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 05-16-09-GW.SKF
REVISED: 05-22-09 NJV

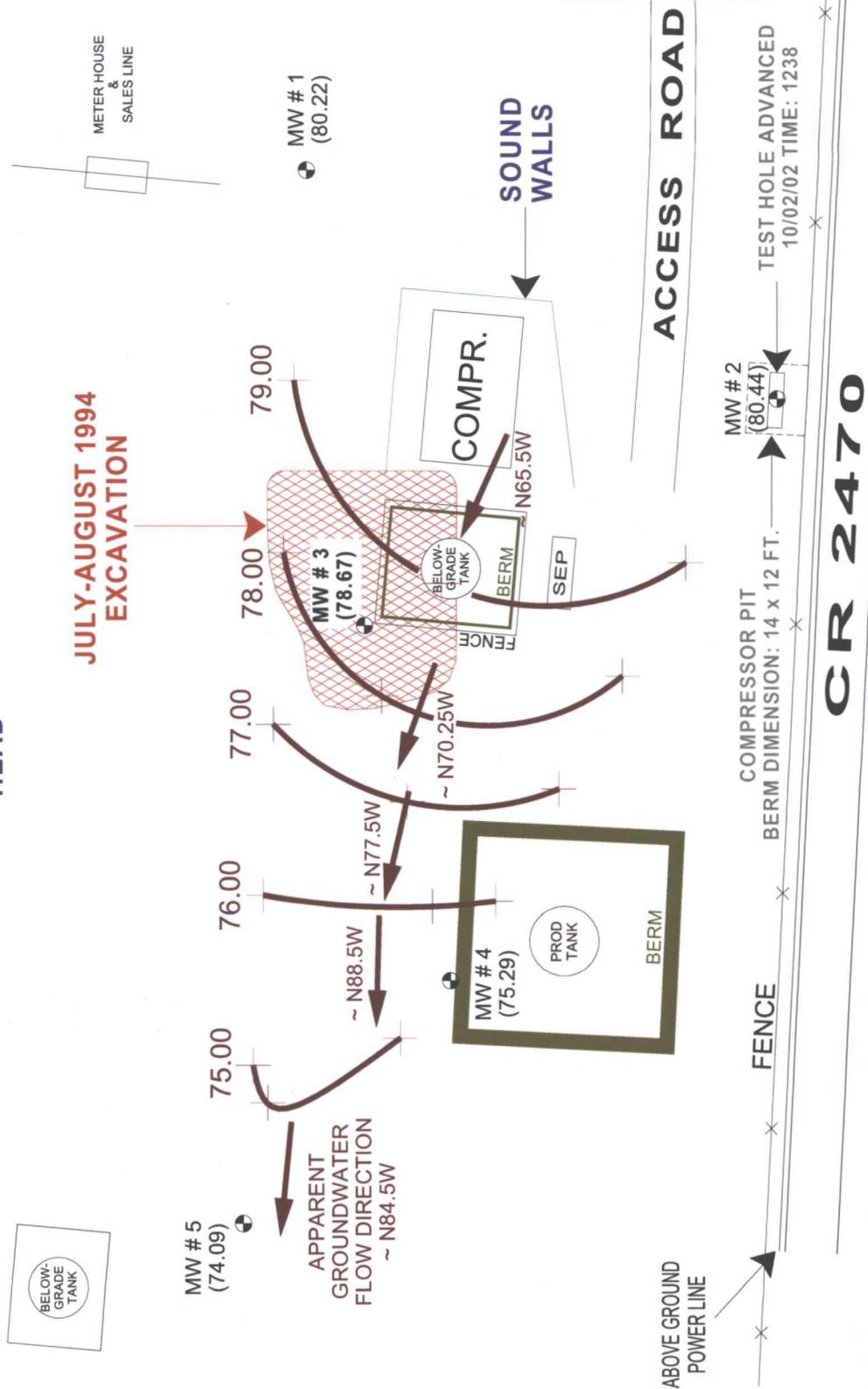
**GROUNDWATER
CONTOUR
MAP**
05/09

FIGURE 4
(3rd 1/4, 2009)

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



WELL HEAD ⊕



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 BOYD GC # 1A
 NE/4 NW/4 SEC. 8, T31N, R10W, NMPM
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PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 09-02-09-GW-SKF
REVISED: 09-02-09 NJV

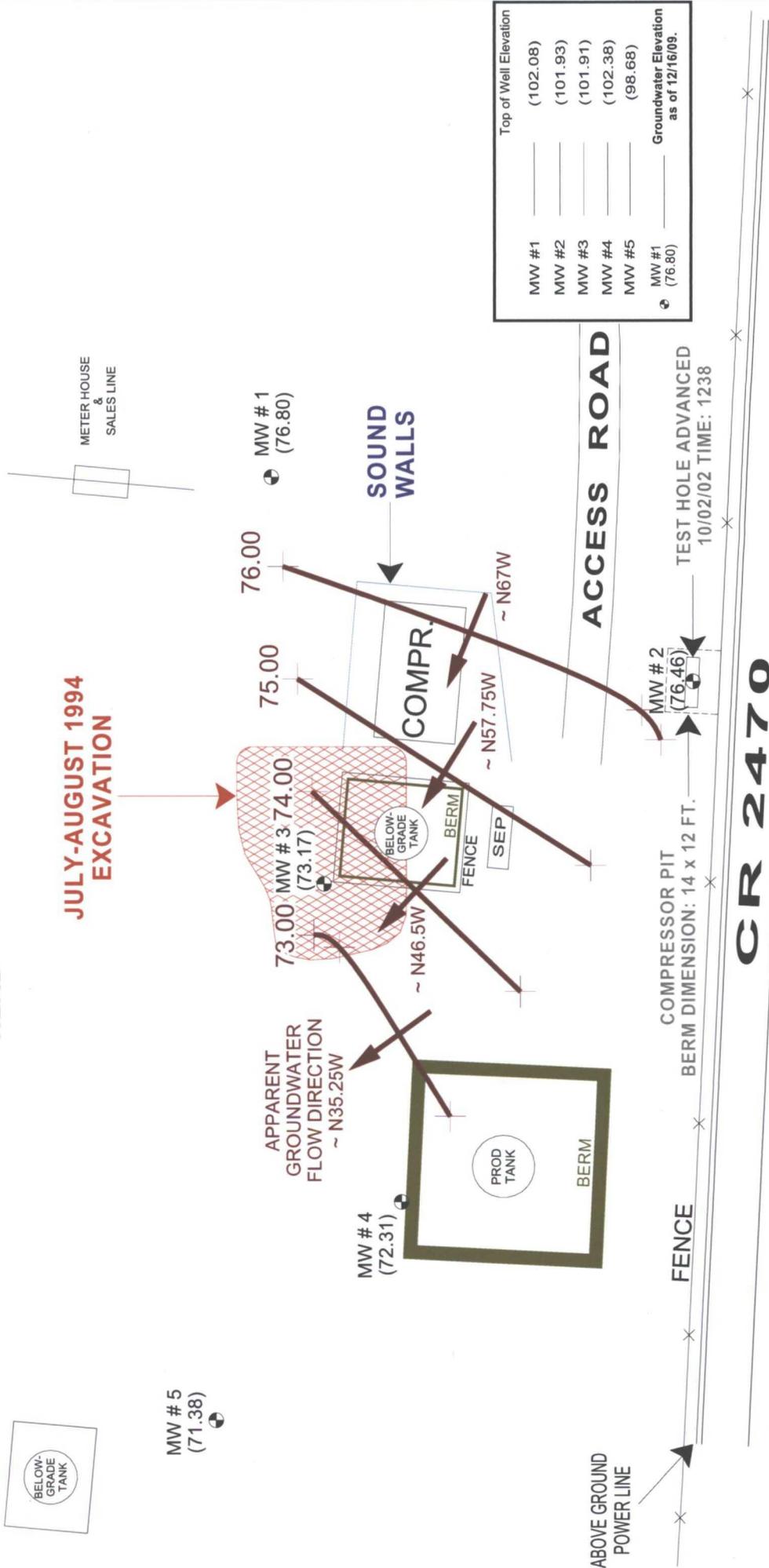
GROUNDWATER CONTOUR MAP
09/09

FIGURE 5
(4th 1/4, 2009)

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



WELL HEAD ⊕



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BOYD GC # 1A
NE/4 NW/4 SEC. 8, T31N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 12-16-09-GW.SKF
REVISED: 12-19-09 NJV

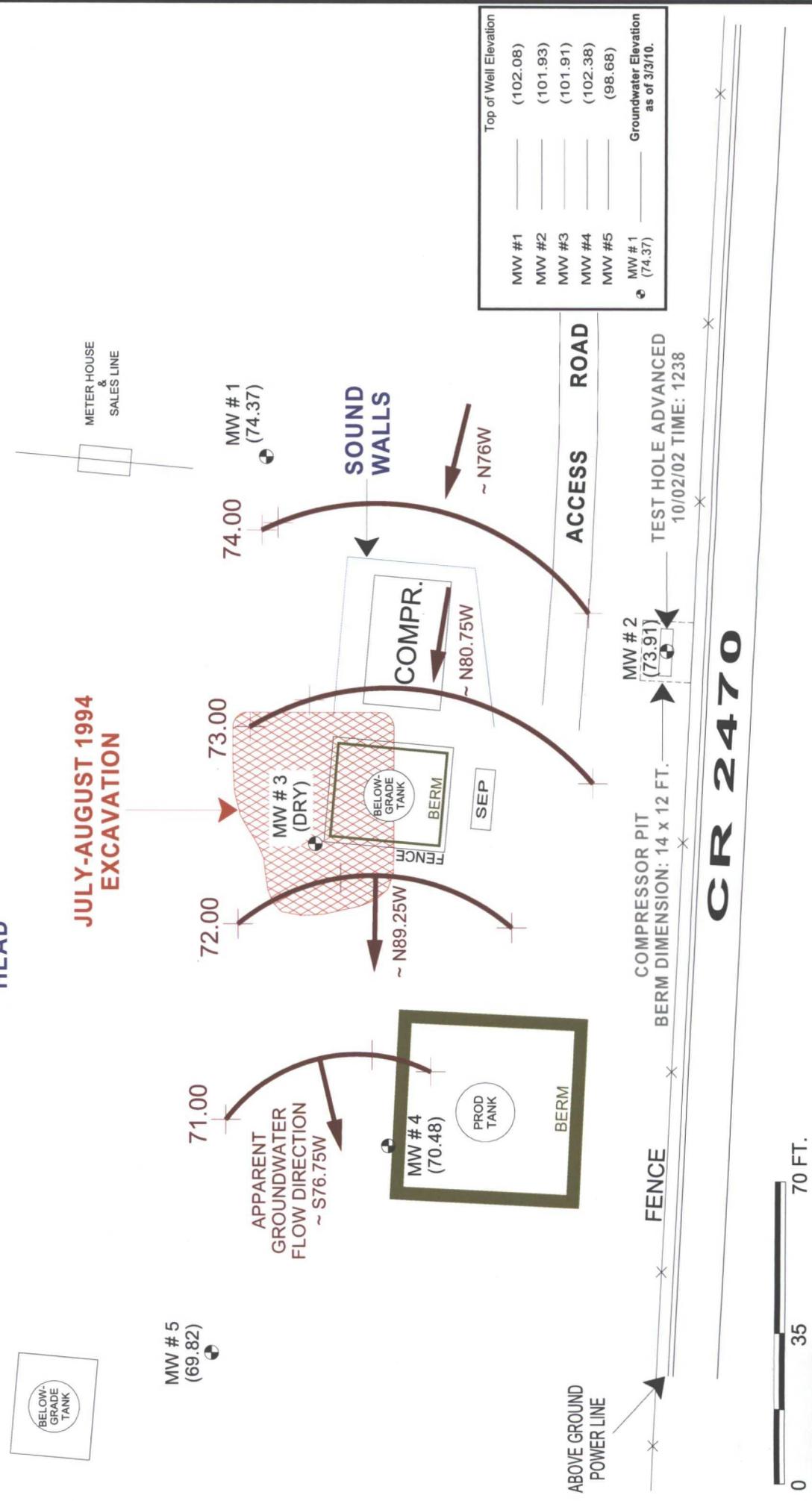
GROUNDWATER CONTOUR MAP
12/09

FIGURE 6
(1st 1/4, 2010)

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



WELL HEAD ⊕



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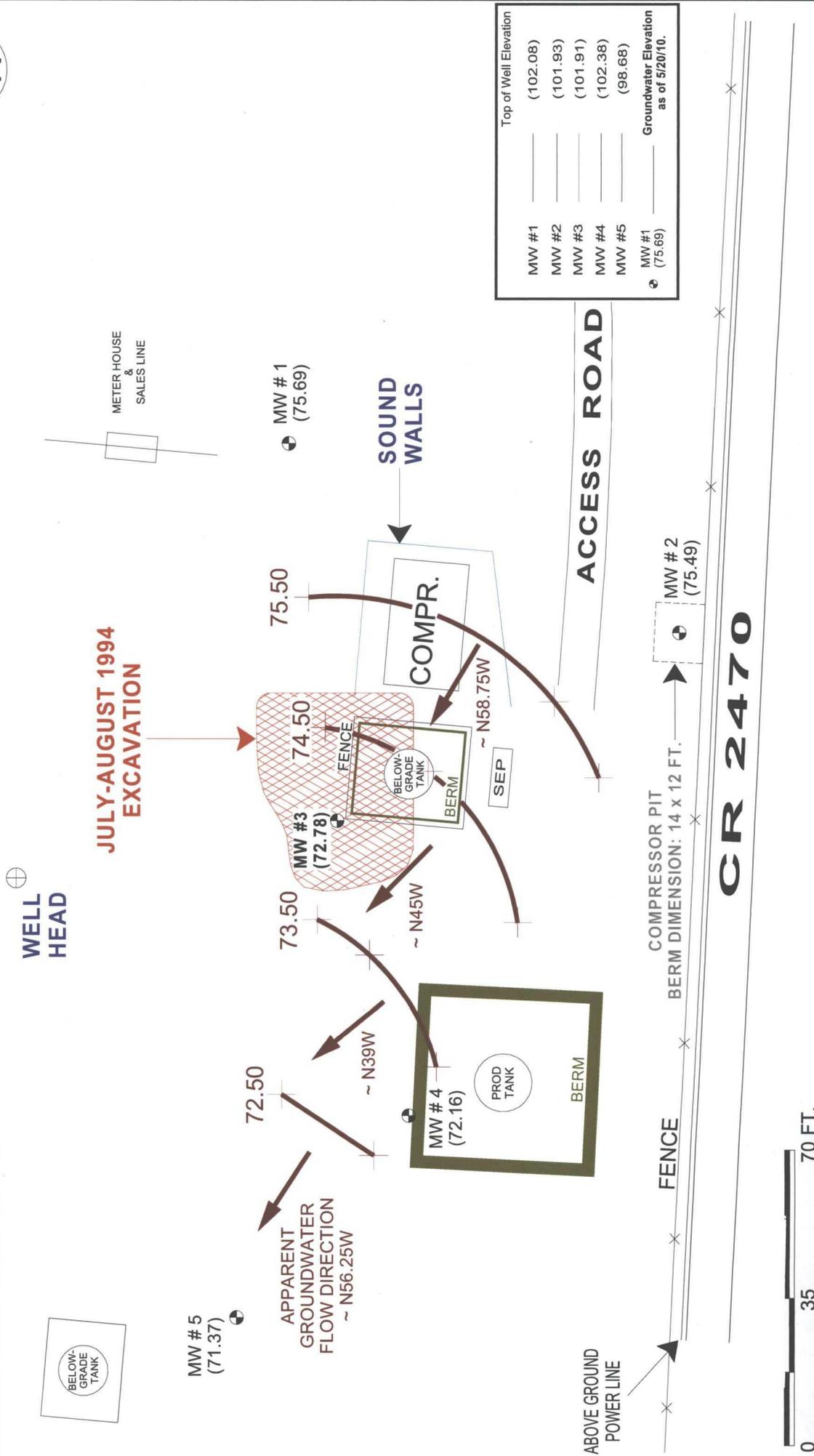
BP AMERICA PRODUCTION COMPANY
BOYD GC # 1A
NE/4 NW/4 SEC. 8, T31N, R10W, N10PM
SAN JUAN COUNTY, NEW MEXICO

PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 03-03-10-GW-SKF
REVISED: 03-03-10 NJV

GROUNDWATER CONTOUR MAP
03/10

FIGURE 7
(2nd 1/4, 2010)

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



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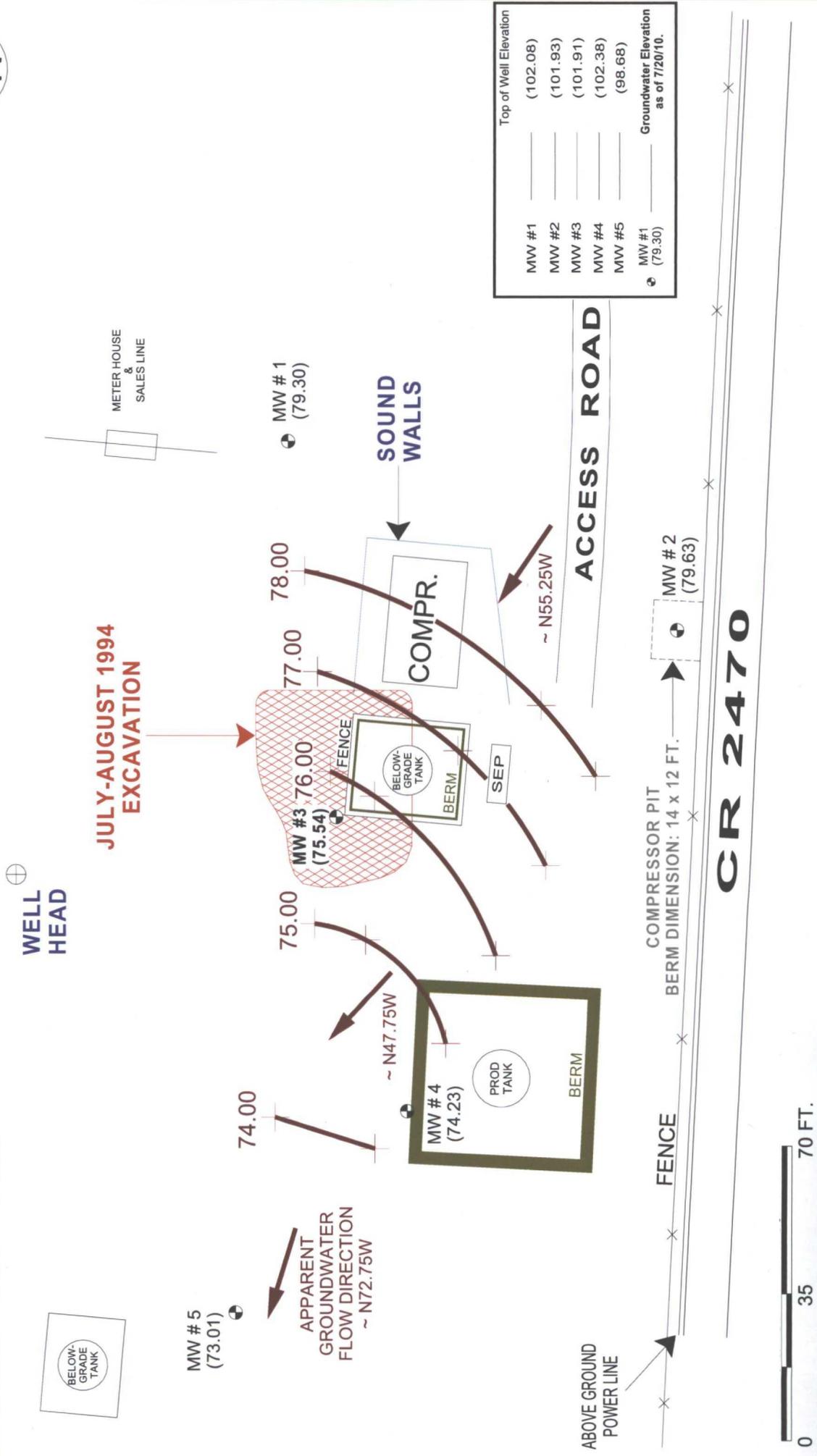
PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 05-20-10-GW-SKF
REVISED: 05-20-10 NJV

BP AMERICA PRODUCTION COMPANY
BOYD GC # 1A
NE/4 NW/4 SEC. 8, T31N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO

GROUNDWATER CONTOUR MAP
05/10

FIGURE 8
(3rd 1/4, 2010)

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



MW #	Top of Well Elevation
MW #1	(102.08)
MW #2	(101.93)
MW #3	(101.91)
MW #4	(102.38)
MW #5	(98.68)
MW #1 (79.30)	Groundwater Elevation as of 7/20/10.

BP AMERICA PRODUCTION COMPANY
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PHONE: (505) 632-1199

PROJECT: MW SAMPLING
DRAFTED BY: NJV
FILENAME: 07-20-10-GW.SKF
REVISED: 07-20-10 NJV

GROUNDWATER CONTOUR MAP
07/10

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : March 31, 2009

SAMPLER : N J V

Filename : 03-31-09.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	102.08	74.31	27.77	29.50	-	-	-	-	-
MW - 2	101.93	73.86	28.07	29.50	-	-	-	-	-
MW - 3	101.91	-	DRY	29.50	-	-	-	-	-
MW - 4	102.38	70.65	31.73	34.50	1410	7.34	700	17.7	0.75
MW - 5	98.68	70.05	28.63	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	03/31/09	0945

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (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".

Fair / good recovery in MW # 4 . Collected sample from MW # 4 only BTEX analysis .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

on-site	1:39	temp	51 F
off-site	2:20	temp	52 F
sky cond.	Mostly sunny		
wind speed	0-10	direct.	W

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Apr-09

CLIENT: Blagg Engineering
 Lab Order: 0904020
 Project: Boyd GC #1A
 Lab ID: 0904020-01

Client Sample ID: MW #4
 Collection Date: 3/31/2009 2:10:00 PM
 Date Received: 4/1/2009
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	13	5.0		µg/L	5	4/7/2009 12:49:54 AM
Toluene	ND	5.0		µg/L	5	4/7/2009 12:49:54 AM
Ethylbenzene	210	5.0		µg/L	5	4/7/2009 12:49:54 AM
Xylenes, Total	1200	20		µg/L	10	4/7/2009 2:43:28 PM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	5	4/7/2009 12:49:54 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 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: Boyd GC #1A

Work Order: 0904020

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB

MBLK

Batch ID: R33112 Analysis Date: 4/6/2009 10:05:03 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: R33112 Analysis Date: 4/6/2009 8:13:23 PM

Benzene	21.79	µg/L	1.0	109	85.9	113			
Toluene	22.74	µg/L	1.0	114	86.4	113			S
Ethylbenzene	21.76	µg/L	1.0	109	83.5	118			
Xylenes, Total	64.38	µg/L	2.0	107	83.4	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date Received:

4/1/2009

Work Order Number 0904020

Received by: AT

Checklist completed by:

[Signature]
Signature

4/1/09
Date

Sample ID labels checked by:

[Initials]
Initials

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? 2° *<6° C Acceptable*
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC #1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : May 16, 2009

SAMPLER : NJV

Filename : 05-16-09.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	102.08	74.73	27.35	29.50	-	-	-	-	-
MW - 2	101.93	74.14	27.79	29.50	1315	6.79	600	21.9	0.50
MW - 3	101.91	-	DRY	29.50	-	-	-	-	-
MW - 4	102.38	71.67	30.71	34.50	1225	7.22	700	20.4	1.50
MW - 5	98.68	71.12	27.56	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	05/16/09	0810

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (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".

Fair / good recovery in MW # 4 , very poor recovery in MW # 2 . Collected samples for BTEX per US EPA Method 8021B from MW # 2 & MW # 4 .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

on-site	11:39	temp	76 F
off-site	1:25	temp	80 F
sky cond.	Partly cloudy		
wind speed	0 - 5	direct.	S

Hall Environmental Analysis Laboratory, Inc.

Date: 29-May-09

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0905362

Lab ID: 0905362-01

Collection Date: 5/16/2009 1:15:00 PM

Client Sample ID: MW #2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	530	10		µg/L	10	5/29/2009 12:26:54 AM
Toluene	ND	10		µg/L	10	5/29/2009 12:26:54 AM
Ethylbenzene	140	10		µg/L	10	5/29/2009 12:26:54 AM
Xylenes, Total	1200	20		µg/L	10	5/29/2009 12:26:54 AM
Surr: 4-Bromofluorobenzene	109	65.9-130		%REC	10	5/29/2009 12:26:54 AM

Lab ID: 0905362-02

Collection Date: 5/16/2009 12:25:00 PM

Client Sample ID: MW #4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	ND	1.0		µg/L	1	5/29/2009 1:27:34 AM
Toluene	ND	1.0		µg/L	1	5/29/2009 1:27:34 AM
Ethylbenzene	21	1.0		µg/L	1	5/29/2009 1:27:34 AM
Xylenes, Total	72	2.0		µg/L	1	5/29/2009 1:27:34 AM
Surr: 4-Bromofluorobenzene	97.8	65.9-130		%REC	1	5/29/2009 1:27:34 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- 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: Boyd GC #1A

Work Order: 0905362

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK Batch ID: R33871 Analysis Date: 5/28/2009 8:39:43 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: R33871 Analysis Date: 5/29/2009 3:29:31 AM

Benzene	20.76	µg/L	1.0	104	85.9	113			
Toluene	20.87	µg/L	1.0	102	86.4	113			
Ethylbenzene	21.00	µg/L	1.0	104	83.5	118			
Xylenes, Total	63.28	µg/L	2.0	105	83.4	122			

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R33871 Analysis Date: 5/29/2009 4:00:07 AM

Benzene	20.80	µg/L	1.0	104	85.9	113	0.183	27	
Toluene	20.71	µg/L	1.0	101	86.4	113	0.750	19	
Ethylbenzene	20.97	µg/L	1.0	104	83.5	118	0.152	10	
Xylenes, Total	62.85	µg/L	2.0	105	83.4	122	0.685	13	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

5/20/2009

Work Order Number 0905362

Received by: **TLS**

Checklist completed by:

[Signature]
Signature

5/20/09
Date

Sample ID labels checked by:

[Initials]
Initials

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? **3.8°** <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : September 2, 2009

SAMPLER : N J V

Filename : 09-02-09.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	102.08	80.22	21.86	29.50	-	-	-	-	-
MW - 2	101.93	80.44	21.49	29.50	-	-	-	-	-
MW - 3	101.91	80.67	21.24	29.50	-	-	-	-	-
MW - 4	102.38	75.29	27.09	34.50	0820	7.38	900	16.6	3.75
MW - 5	98.68	74.09	24.59	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	09/02/09	0815

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (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".

Fair / good recovery in MW # 4. Collected samples for BTEX per US EPA Method 8021B from MW # 4 only.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft., MW # 5 ~ 2.20 ft. above grade.

on-site	7:49	temp	65 F
off-site	8:35	temp	67 F
sky cond.	Mostly sunny		
wind speed	0 - 5	direct.	NE

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-09

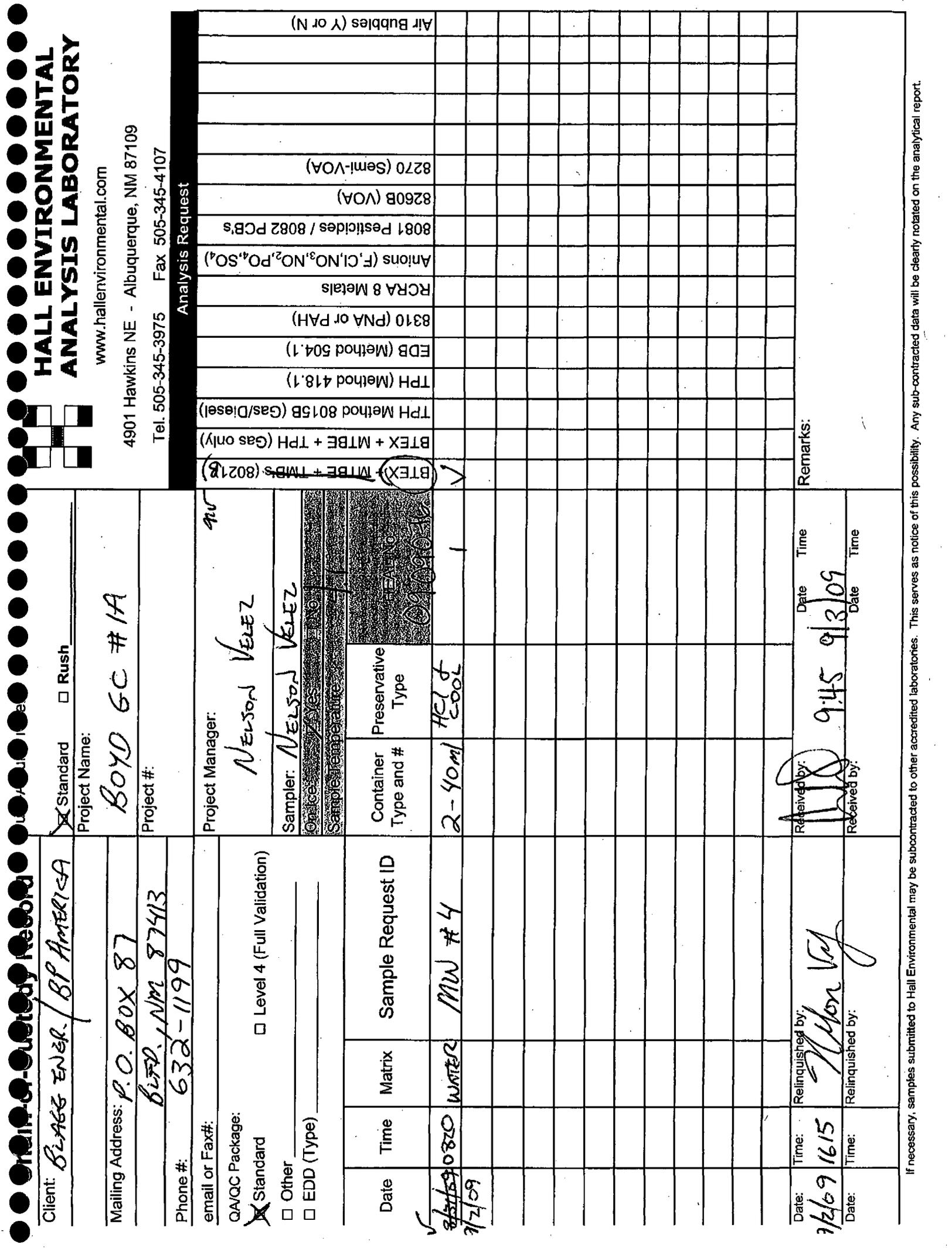
CLIENT: Blagg Engineering
Lab Order: 0909076
Project: Boyd GC #1A
Lab ID: 0909076-01

Client Sample ID: MW #4
Collection Date: 9/2/2009 8:20:00 AM
Date Received: 9/3/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	12	1.0		µg/L	1	9/8/2009 5:49:52 PM
Toluene	ND	1.0		µg/L	1	9/8/2009 5:49:52 PM
Ethylbenzene	ND	1.0		µg/L	1	9/8/2009 5:49:52 PM
Xylenes, Total	ND	2.0		µg/L	1	9/8/2009 5:49:52 PM
Surr: 4-Bromofluorobenzene	107	65.9-130		%REC	1	9/8/2009 5:49:52 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: BLAGG ENER. / BP AMERICA

Mailing Address: P.O. BOX 87

BLVD. / NM 87413

Phone #: 632-1199

email or Fax#: _____

QA/QC Package: Level 4 (Full Validation)

Standard

Other _____

EDD (Type) _____

Project Manager: Nelson Velez

Sampler: Nelson Velez

On Ice: Yes / No

Sample Temperature: _____

Container Type and #: 2-40ml

Preservative Type: HCl & COOL

Sample Request ID: MW # 4

Date Time: 8/2/09 10:20

Matrix: WATER

Date: 8/2/09

Relinquished by: Nelson Velez

Relinquished by: _____

Date: 8/2/09 1615

Date: _____

Received by: [Signature]

Received by: _____

Date: 9/13/09

Date: _____

Analysis Request	
<input checked="" type="checkbox"/> BTEX + MTBE + TMS (8021B)	
<input type="checkbox"/> BTEX + MTBE + TPH (Gas only)	
<input type="checkbox"/> TPH Method 8015B (Gas/Diesel)	
<input type="checkbox"/> TPH (Method 418.1)	
<input type="checkbox"/> EDB (Method 504.1)	
<input type="checkbox"/> 8310 (PNA or PAH)	
<input type="checkbox"/> RCRA 8 Metals	
<input type="checkbox"/> Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
<input type="checkbox"/> 8081 Pesticides / 8082 PCBs	
<input type="checkbox"/> 8260B (VOA)	
<input type="checkbox"/> 8270 (Semi-VOA)	
<input type="checkbox"/> Air Bubbles (Y or N)	

Remarks:

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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Boyd GC #1A

Work Order: 0909076

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB

MBLK

Batch ID: R35219 Analysis Date: 9/8/2009 9:20:48 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: R35219 Analysis Date: 9/9/2009 2:55:15 AM

Benzene	21.17	µg/L	1.0	20	0	106	85.9	113			
Toluene	21.76	µg/L	1.0	20	0	109	86.4	113			
Ethylbenzene	21.04	µg/L	1.0	20	0.134	105	83.5	118			
Xylenes, Total	62.33	µg/L	2.0	60	0	104	83.4	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

9/3/2009

Work Order Number **0909076**

Received by: **ARS**

Checklist completed by:

Signature

[Handwritten Signature]

9/3/09
Date

Sample ID labels checked by:

Initials

[Handwritten Initials]

Matrix:

Carrier name: Greyhound

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature? **4.1°** <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : December 16, 2009

SAMPLER : N J V

Filename : 12-16-09.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	102.08	76.80	25.28	29.50	-	-	-	-	-
MW - 2	101.93	76.46	25.47	29.50	-	-	-	-	-
MW - 3	101.91	73.17	28.74	29.50	-	-	-	-	-
MW - 4	102.38	72.31	30.07	34.50	0840	7.50	800	10.0	1.50
MW - 5	98.68	71.38	27.30	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	12/16/09	0835

NOTES : Volume of water purged from well prior to sampling; $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (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".

Fair / good recovery in MW # 4. Collected sample for BTEX per US EPA Method 8021B from MW # 4 only.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft., MW # 5 ~ 2.20 ft. above grade.

on-site	<u>8:00</u>	temp.	<u>19 F</u>
off-site	<u>8:45</u>	temp.	<u>22 F</u>
sky cond.	<u>Mostly sunny</u>		
wind speed	<u>0 - 5</u>	direct.	<u>SE</u>

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Dec-09

CLIENT: Blagg Engineering
Lab Order: 0912423
Project: Boyd GC #1A
Lab ID: 0912423-01

Client Sample ID: MW #4
Collection Date: 12/16/2009 8:40:00 AM
Date Received: 12/18/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Benzene	33	1.0		µg/L	1	12/24/2009 11:44:35 PM
Toluene	ND	1.0		µg/L	1	12/24/2009 11:44:35 PM
Ethylbenzene	140	10		µg/L	10	12/28/2009 4:00:53 PM
Xylenes, Total	510	20		µg/L	10	12/28/2009 4:00:53 PM
Surr: 4-Bromofluorobenzene	111	65.9-130		%REC	1	12/24/2009 11:44:35 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Estimated value
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: Boyd GC #1A

Work Order: 0912423

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB

MBLK

Batch ID: R36711 Analysis Date: 12/24/2009 10:04:25 AM

Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								

Sample ID: 5ML RB

MBLK

Batch ID: R36728 Analysis Date: 12/28/2009 9:33:12 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: R36711 Analysis Date: 12/24/2009 6:11:13 PM

Benzene	20.55	µg/L	1.0	20	0	103	85.9	113			
Toluene	20.53	µg/L	1.0	20	0	103	86.4	113			
Ethylbenzene	20.09	µg/L	1.0	20	0.066	100	83.5	118			
Xylenes, Total	61.73	µg/L	2.0	60	0	103	83.4	122			

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R36728 Analysis Date: 12/28/2009 7:33:50 PM

Benzene	19.19	µg/L	1.0	20	0	96.0	85.9	113			
Toluene	19.21	µg/L	1.0	20	0	96.0	86.4	113			
Ethylbenzene	19.09	µg/L	1.0	20	0	95.5	83.5	118			
Xylenes, Total	57.94	µg/L	2.0	60	0	96.6	83.4	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

12/18/2009

Work Order Number **0912423**

Received by: **TLS**

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

[Handwritten Signature]

Date

12/18/09

[Handwritten Initials]

Matrix:

Carrier name: **UPS**

Shipping container/cooler in good condition?

Yes

No

Not Present

Custody seals intact on shipping container/cooler?

Yes

No

Not Present

Not Shipped

Custody seals intact on sample bottles?

Yes

No

N/A

Chain of custody present?

Yes

No

Chain of custody signed when relinquished and received?

Yes

No

Chain of custody agrees with sample labels?

Yes

No

Samples in proper container/bottle?

Yes

No

Sample containers intact?

Yes

No

Sufficient sample volume for indicated test?

Yes

No

All samples received within holding time?

Yes

No

Water - VOA vials have zero headspace?

No VOA vials submitted

Yes

No

Water - Preservation labels on bottle and cap match?

Yes

No

N/A

Water - pH acceptable upon receipt?

Yes

No

N/A

Container/Temp Blank temperature?

0.8°

<6° C Acceptable

If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : March 3, 2010

SAMPLER : N J V

Filename : 03-03-10.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	102.08	74.37	27.71	29.50	-	-	-	-	-
MW - 2	101.93	73.91	28.02	29.50	-	-	-	-	-
MW - 3	101.91	101.91	DRY	29.50	-	-	-	-	-
MW - 4	102.38	70.48	31.90	34.50	1135	7.36	800	17.8	0.75
MW - 5	98.68	69.82	28.86	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	03/01/10	1215

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (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".

Fair / good recovery in MW # 4. Collected sample for BTEX per US EPA Method 8021B from MW # 4 only.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft., MW # 5 ~ 2.20 ft. above grade.

on-site	<u>11:00</u>	temp.	<u>48 F</u>
off-site	<u>11:46</u>	temp.	<u>51 F</u>
sky cond.	<u>Sunny</u>		
wind speed	<u>0 - 5</u>	direct.	<u>E</u>

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Mar-10

CLIENT: Blagg Engineering
 Lab Order: 1003178
 Project: Boyd GC #1A
 Lab ID: 1003178-01

Client Sample ID: MW #4
 Collection Date: 3/3/2010 11:35:00 AM
 Date Received: 3/8/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	7.5	1.0		µg/L	1	3/9/2010 3:32:34 AM
Toluene	ND	1.0		µg/L	1	3/9/2010 3:32:34 AM
Ethylbenzene	170	10		µg/L	10	3/9/2010 3:02:16 AM
Xylenes, Total	1100	20		µg/L	10	3/9/2010 3:02:16 AM
Surr: 4-Bromofluorobenzene	125	65.9-130		%REC	1	3/9/2010 3:32:34 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Boyd GC #1A

Work Order: 1003178

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: b 5 MBLK Batch ID: R37677 Analysis Date: 3/8/2010 11:21:44 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: R37677 Analysis Date: 3/8/2010 8:58:22 PM

Benzene	21.82	µg/L	1.0	20	0	109	85.9	113			
Toluene	21.28	µg/L	1.0	20	0	106	86.4	113			
Ethylbenzene	20.95	µg/L	1.0	20	0	105	83.5	118			
Xylenes, Total	62.35	µg/L	2.0	60	0	104	83.4	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

3/8/2010

Work Order Number **1003178**

Received by: **ARS**

Checklist completed by:

Signature

[Handwritten Signature]

Date

3/8/10

Sample ID labels checked by:

Initials

[Handwritten Initials]

Matrix:

Carrier name: Greyhound

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

3.8°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : **BP AMERICA PROD. CO.**

CHAIN-OF-CUSTODY # : **N / A**

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

Date : **May 20, 2010**

SAMPLER : **N J V**

Filename : **05-20-10.WK4**

PROJECT MANAGER : **N J V**

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	102.08	75.69	26.39	29.50	-	-	-	-	-
MW - 2	101.93	75.49	26.44	29.50	1000	6.91	900	16.5	0.75
MW - 3	101.91	72.78	29.13	29.50	-	-	-	-	-
MW - 4	102.38	72.16	30.22	34.50	0930	7.34	900	16.6	1.25
MW - 5	98.68	71.37	27.31	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	05/19/10	1035

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (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".

Poor recovery in MW # 2 , poor / fair recovery in MW # 4 . Collected samples for BTEX per US EPA Method 8021B from MW # 2 & # 4 only .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

on-site	9:00	temp.	55 F
off-site	10:23	temp.	65 F
sky cond.	Sunny		
wind speed	0 - 5	direct.	ESE - S

Hall Environmental Analysis Laboratory, Inc.

Date: 26-May-10

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 1005608

Lab ID: 1005608-01

Collection Date: 5/20/2010 10:00:00 AM

Client Sample ID: MW #2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	160	10		µg/L	10	5/26/2010 2:03:24 AM
Toluene	18	10		µg/L	10	5/26/2010 2:03:24 AM
Ethylbenzene	58	10		µg/L	10	5/26/2010 2:03:24 AM
Xylenes, Total	590	20		µg/L	10	5/26/2010 2:03:24 AM
Surr: 4-Bromofluorobenzene	107	65.9-130		%REC	10	5/26/2010 2:03:24 AM

Lab ID: 1005608-02

Collection Date: 5/20/2010 9:30:00 AM

Client Sample ID: MW #4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/26/2010 3:03:56 AM
Toluene	ND	1.0		µg/L	1	5/26/2010 3:03:56 AM
Ethylbenzene	7.4	1.0		µg/L	1	5/26/2010 3:03:56 AM
Xylenes, Total	ND	2.0		µg/L	1	5/26/2010 3:03:56 AM
Surr: 4-Bromofluorobenzene	97.1	65.9-130		%REC	1	5/26/2010 3:03:56 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Boyd GC #1A

Work Order: 1005608

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK Batch ID: R38920 Analysis Date: 5/25/2010 9:21:20 AM

Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								

Sample ID: 100NG BTEX LCS LCS Batch ID: R38920 Analysis Date: 5/25/2010 6:58:36 PM

Benzene	22.78	µg/L	1.0	20	0	114	87.9	121			
Toluene	23.15	µg/L	1.0	20	0	116	83	124			
Ethylbenzene	22.55	µg/L	1.0	20	0.138	112	81.7	122			
Xylenes, Total	68.50	µg/L	2.0	60	0	114	85.6	121			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

5/21/2010

Work Order Number 1005608

Received by: TLS

Checklist completed by:

Signature

[Handwritten Signature]

5/21/10
Date

Sample ID labels checked by:

Initials

[Handwritten Initials]

Matrix:

Carrier name: Greyhound

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A
- Container/Temp Blank temperature? **-0.6°** <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : July 20, 2010

SAMPLER : N J V

Filename : 07-20-10.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	102.08	79.30	22.78	29.50	-	-	-	-	-
MW - 2	101.93	79.63	22.30	29.50	-	-	-	-	-
MW - 3	101.91	75.54	26.37	29.50	-	-	-	-	-
MW - 4	102.38	74.23	28.15	34.50	0925	7.17	900	22.0	3.00
MW - 5	98.68	73.01	25.67	36.30	-	-	-	-	-

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

NOTES : Volume of water purged from well prior to sampling; $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$ (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".

Fair / good recovery in MW # 4 . Collected sample for BTEX per US EPA Method 8021B from MW # 4 only .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

on-site	<u>8:43</u>	temp.	<u>80 F</u>
off-site	<u>9:35</u>	temp.	<u>82 F</u>
sky cond.	<u>Partly cloudy</u>		
wind speed	<u>0 - 5</u>	direct.	<u>E</u>

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Jul-10

CLIENT: Blagg Engineering	Client Sample ID: MW #4
Lab Order: 1007841	Collection Date: 7/20/2010 9:25:00 AM
Project: Boyd GC #1A	Date Received: 7/23/2010
Lab ID: 1007841-01	Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/27/2010 3:00:11 AM
Toluene	ND	1.0		µg/L	1	7/27/2010 3:00:11 AM
Ethylbenzene	ND	1.0		µg/L	1	7/27/2010 3:00:11 AM
Xylenes, Total	ND	2.0		µg/L	1	7/27/2010 3:00:11 AM
Surr: 4-Bromofluorobenzene	125	65.9-130		%REC	1	7/27/2010 3:00:11 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

7/23/2010

Work Order Number 1007841

Received by: TLS

TL

Checklist completed by:

Signature

[Handwritten Signature]

Date

7/23/10

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

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

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature? **0.7°**

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

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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

CLIENT : **BP AMERICA PROD. CO.**

CHAIN-OF-CUSTODY # : **N / A**

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : **HALL ENVIRONMENTAL**

Date : **October 12, 2010**

SAMPLER : **NJV**

Filename : **10-12-10.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	102.08	79.10	22.98	29.50	-	-	-	-	-
MW - 2	101.93	79.01	22.92	29.50	-	-	-	-	-
MW - 3	101.91	75.60	26.31	29.50	-	-	-	-	-
MW - 4	102.38	73.83	28.55	34.50	1035	7.21	1,000	16.3	2.25
MW - 5	98.68	73.27	25.41	36.30	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800
DATE & TIME =	10/12/10	0900

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$.
 (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".

Fair / good recovery in MW # 4 . Collected sample for BTEX per US EPA Method 8021B from MW # 4 only .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

on-site	9:45	temp.	55 F
off-site	10:45	temp.	61 F
sky cond.	Sunny		
wind speed	0 - 5	direct.	calm

Hall Environmental Analysis Laboratory, Inc.

Date: 25-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010601
Project: Boyd GC #1A
Lab ID: 1010601-01

Client Sample ID: MW #4
Collection Date: 10/12/2010 10:35:00 AM
Date Received: 10/13/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	16	1.0		µg/L	1	10/19/2010 2:23:05 AM
Toluene	ND	1.0		µg/L	1	10/19/2010 2:23:05 AM
Ethylbenzene	17	1.0		µg/L	1	10/19/2010 2:23:05 AM
Xylenes, Total	37	2.0		µg/L	1	10/19/2010 2:23:05 AM
Surr: 4-Bromofluorobenzene	95.3	81.3-151		%REC	1	10/19/2010 2:23:05 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Boyd GC #1A

Work Order: 1010601

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

10/13/2010

Work Order Number 1010601

Received by:

MLW

Checklist completed by:

Signature

[Handwritten Signature]

10/13/10
Date

Sample ID labels checked by:

Initials

MA

Matrix:

Carrier name: Priority US Mail

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

Number of preserved bottles checked for pH:

2.1° <6° C Acceptable
If given sufficient time to cool.

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____