

3R - 379

REPORTS

DATE:

FEB. 2006

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

320379
COPY

February 9, 2006

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

RECEIVED

FEB 10 2006

Oil Conservation Division
Environmental Bureau

**Re: BP America Production Company (formerly BP Amoco)
Groundwater Monitoring Report
Gallegos Canyon Unit (GCU) Com H # 180, Unit J, Sec. 28, T29N, R12W, NMPM
San Juan County, New Mexico**

Dear Mr. Von Gonten:

BP America Production Company (BP) has retained Blagg Engineering, Inc. (BEI) to conduct environmental monitoring of groundwater at the GCU Com H # 180.

The last BEI correspondence concerning the above reference well site was with letter dated, March 13, 2001. Since then, BP has followed its NMOCD approved groundwater management plan and request permanent closure for the on-site separator pit.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at the address or phone number listed above. Thank you for your cooperation and assistance.

Respectfully submitted:
Blagg Engineering, Inc.



Nelson J. Velez
Staff Geologist

Attachment: Groundwater Report

cc: Mr. Denny Foust, Environmental Geologist, NMOCD District III Office, Aztec, NM
Mr. Don Brooks, Environmental Coordinator, BP, Farmington, NM (without lab reports)

NJV/njv

GCU 180 02-09-06.CVL.WPD

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BP AMERICA PRODUCTION CO. RECEIVED

FEB 10 2006

Oil Conservation Division
Environmental Bureau

SUPPLEMENT GROUNDWATER REMEDIATION REPORT

2001-2002

**GCU COM H #180
(J) SECTION 28, T29N, R12W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:
MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION**

DECEMBER 2005

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

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

**BP America Production Co.
GCU Com H # 180 - Separator Pit
NW/4 SE/4 Sec. 28, T29N, R12W**

Monitor Well Sampling Dates: 7/28/01, 9/21/01, 12/3/01, 2/25/02

Site Historic Summary:

A site separator pit was closed out beginning in April, 1992 by removing impacted soils by excavation. Documentaion for this work and subsequent groundwater monitoring data for the site have previously been submitted for New Mexico Oil Conservation review. The reporting herein is for site monitoring from March, 2001 to the present.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (*Figure 1*) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed into new laboratory supplied 40 ml glass vials with teflon septa caps. The samples were preserved cool and with either mercuric chloride or hydrochloric acid and hand delivered to a qualified laboratory for testing. Analytical procedures included benzene, toluene, ethyl-benzene and total xylenes (BTEX) per US EPA Method 8020 or 8021. Additional samples were collected into laboratory supplied containers for general water chemistry testing. Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

Water Quality and Gradient Information:

Based on the enclosed site monitor well information, groundwater flow has been determined to be in the southwest direction. Groundwater gradient maps are displayed on *Figures 2 through Figure 4*. Beginning with sampling in July, 2001 all site wells have tested contamination levels at below New Mexico Water Quality Control Commission (NMWQCC) standards for closure and there are no known residual hydrocarbon impacts in excess of NMWQCC standards in either the original pit or down-gradient wells.

Summary and/or Recommendations:

Site closure is recommended. Following approval by the New Mexico Oil Conservation Division, site monitor wells will be abandoned pursuant to the approved BP Ground Water Management Plan.

BP AMOCO GROUNDWATER MONITOR WELL LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

GCU COM H #180
UNIT J, SEC. 28, T29N, R12W

REVISED DATE: MARCH 7, 2002

FILENAME: (GH-1Q-02.WK4) NJV

SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS mg/L	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8021 (PPB)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
12-Jan-93	MW #1	5.04	8.63	4,460	4,800	6.9		5,500	24.5	39.0	884.9
07-Jun-93		3.67	8.63		3,800	7.1		2,440	24.4	73.0	810.8
01-Sep-93		5.35	8.65		3,800	7.4		6,700	43.0	224	942.9
01-Dec-93		5.11			5,400	7.5		2,180	45.1	135	738.8
08-Mar-94		4.98			5,000	7.2		3,810	41.9	211	964.4
28-Jun-94		4.04			5,000	7.2		6,089	22.5	350	1561.6
21-Sep-94		5.51			5,000	7.2		3,652	15.2	266	1143.5
16-Dec-94		5.25			4,100	7.5		1.8	ND	1.4	9.8
15-Mar-95		4.64			5,000	7.3		ND	ND	12.5	27.9
15-Jun-95		3.35			4,700	7.3		4382.1	16.1	269.6	1244.5
11-Sep-95		5.16			4,000	7.5		1,020	25.4	162	803.4
07-Dec-95		4.77			3,900	7.3		1,910	21.1	184	869
05-Mar-96		4.63			3,200	7.2		2,360	19.2	178	985
03-Jun-96		4.81			4,300	7.2		3,010	36.8	231	1,020
23-Jun-97		3.45			2,500	8.3		692	2.9	135	171.3
12-Jun-98		3.35			1,400	8.0		278	3.8	48.7	123
28-May-99		3.33			400	7.4		227	336	15.6	117.5
13-Jun-00	MW #1R	4.96	10.00		2,300	7.5		230	ND	170	1106.9
28-Jul-01		6.16			1,000	8.0		2.6	ND	33	59
21-Sep-01		5.88			1,700	7.8		6.9	2.9	41	63
03-Dec-01		5.62			3,000	7.6		2.8	2	11	3.9
25-Feb-02		5.45			2,500	7.8		4.1	1.8	17	6.4
12-Jan-93	MW #2	5.38	8.92		4,300	6.8		0.9	0.4	ND	1.4
07-Jun-93		4.18	8.88		2,600	6.6		ND	ND	ND	ND
01-Sep-93		5.50	8.81		2,700	7.2		ND	0.4	ND	2
08-Mar-94		5.28			4,600	7.1		ND	1.1	ND	ND
28-Jun-94		4.66			4,900	7.0		ND	1.0	ND	ND
21-Sep-94		5.95			5,100	7.1		1.3	1.4	ND	6.0
16-Dec-94		5.63			3,300	7.1		1.1	ND	0.2	1.0
15-Mar-95		4.99			4,800	7.0		2.3	ND	ND	ND
15-Jun-95		3.96			3,300	7.1		2.1	1.9	0.8	5.3
11-Sep-95		5.58			3,400	7.1		2.2	3.8	ND	3.9
07-Dec-95		5.52			3,200	7.1		ND	ND	ND	ND
05-Mar-96		5.35			2,800	7.2		ND	ND	ND	ND
03-Jun-96		5.50			4,800	7.0		ND	ND	ND	ND

BP AMOCO GROUNDWATER MONITOR WELL LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

GCU COM H #180
UNIT J, SEC. 28, T29N, R12W

REVISED DATE: MARCH 7, 2002
FILENAME: (GH-1Q-02.WK4) NJV

SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS mg/L	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8021 (PPB)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
12-Jan-93	MW #3	5.16	9.75			7.3		ND	1.2	0.6	6.5
07-Jun-93		4.23	9.67		7,000	7.4		ND	ND	ND	0.5
01-Sep-93		6.04	9.74		7,400	7.3		ND	ND	ND	0.5
08-Mar-94		5.49			13,800	7.3		ND	1.4	ND	0.8
28-Jun-94		4.75			12,100	7.3		4.8	ND	2.0	4.7
21-Sep-94		6.02			12,000	7.2		0.7	1.3	ND	4.2
16-Dec-94		5.20			8,300	7.6		6.9	ND	ND	ND
15-Mar-95		4.45			12,800	7.4		ND	ND	ND	ND
15-Jun-95		3.94			11,500	7.2		1.0	1.0	ND	2.2
11-Sep-95		4.58	9.74		7,800	7.6		ND	ND	ND	0.6
07-Dec-95		5.59			8,400	7.4		ND	ND	ND	ND
05-Mar-96		5.51			5,000	7.5		ND	ND	ND	ND
03-Jun-96		5.55			13,900	7.2		ND	0.57	2.16	19.61
23-Jun-97	MW #4	5.32	10.00	4,972	3,400	7.0		ND	ND	ND	0.4
28-Jul-01		6.80			2,600	7.4		ND	ND	ND	ND

FIGURE 1



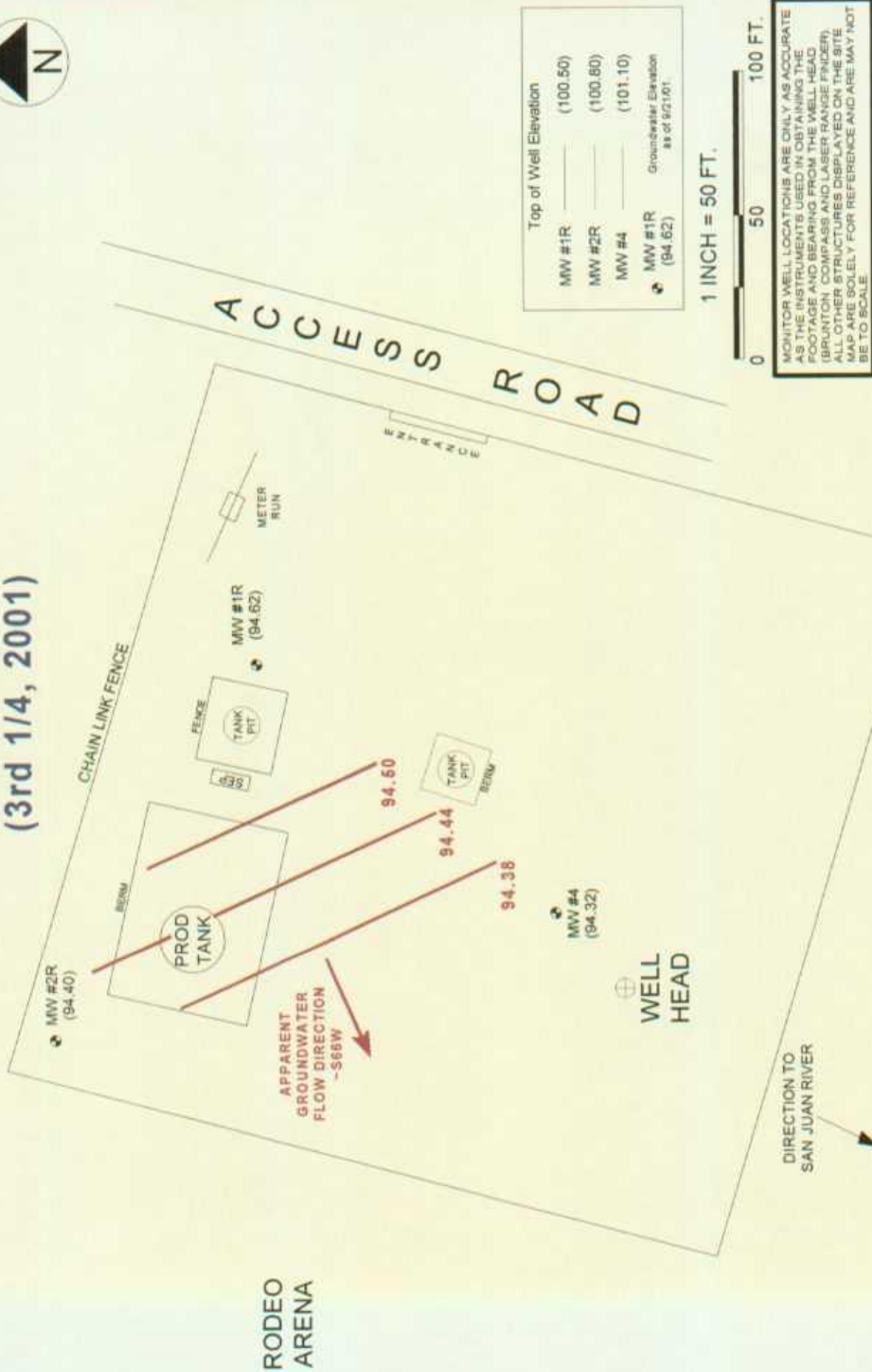
BP AMERICA PRODUCTION COMPANY
 GCU COM H #180
 NW/4 SE/4 SEC. 28, T29N, R12W
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.
 CONSULTING PETROLEUM / RECLAMATION SERVICES
 P.O. BOX 87
 BLOOMFIELD, NEW MEXICO 87413
 PHONE: (505) 832-1199

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 06-23-97-SM.SKF
REVISED: 12/01/05 NJV

SITE MAP
 06/97

FIGURE 2
(3rd 1/4, 2001)



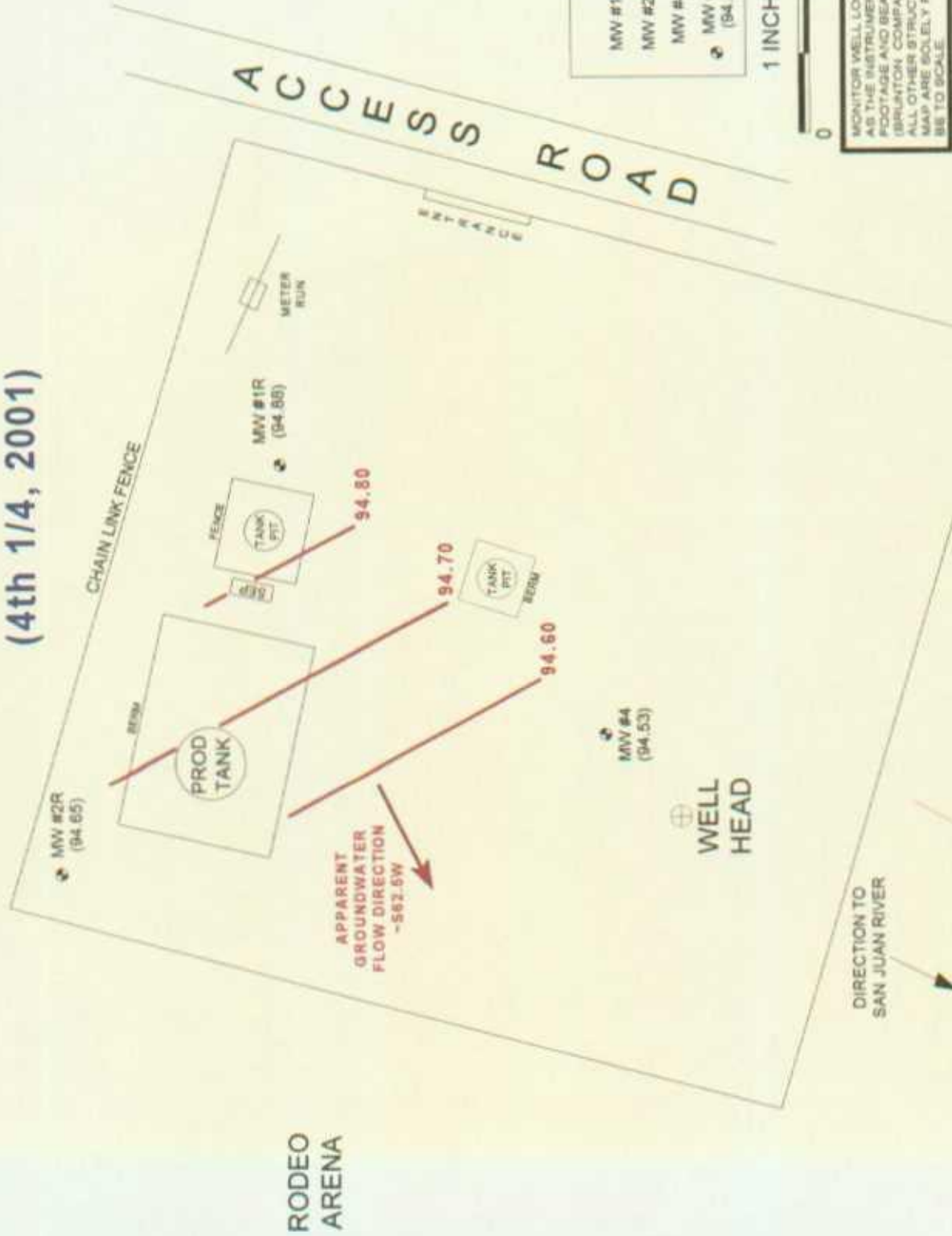
AMOCO PRODUCTION COMPANY
GCU COM H #180
NW/4 SE/4 SEC. 28, T29N, R12W
SAN JUAN COUNTY, NEW MEXICO

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

PROJECT: MW SAMPLING
DRAWN BY: NJV
FILENAME: 09-21-01-SM.SKF
REVISED: 12/01/05 NJV

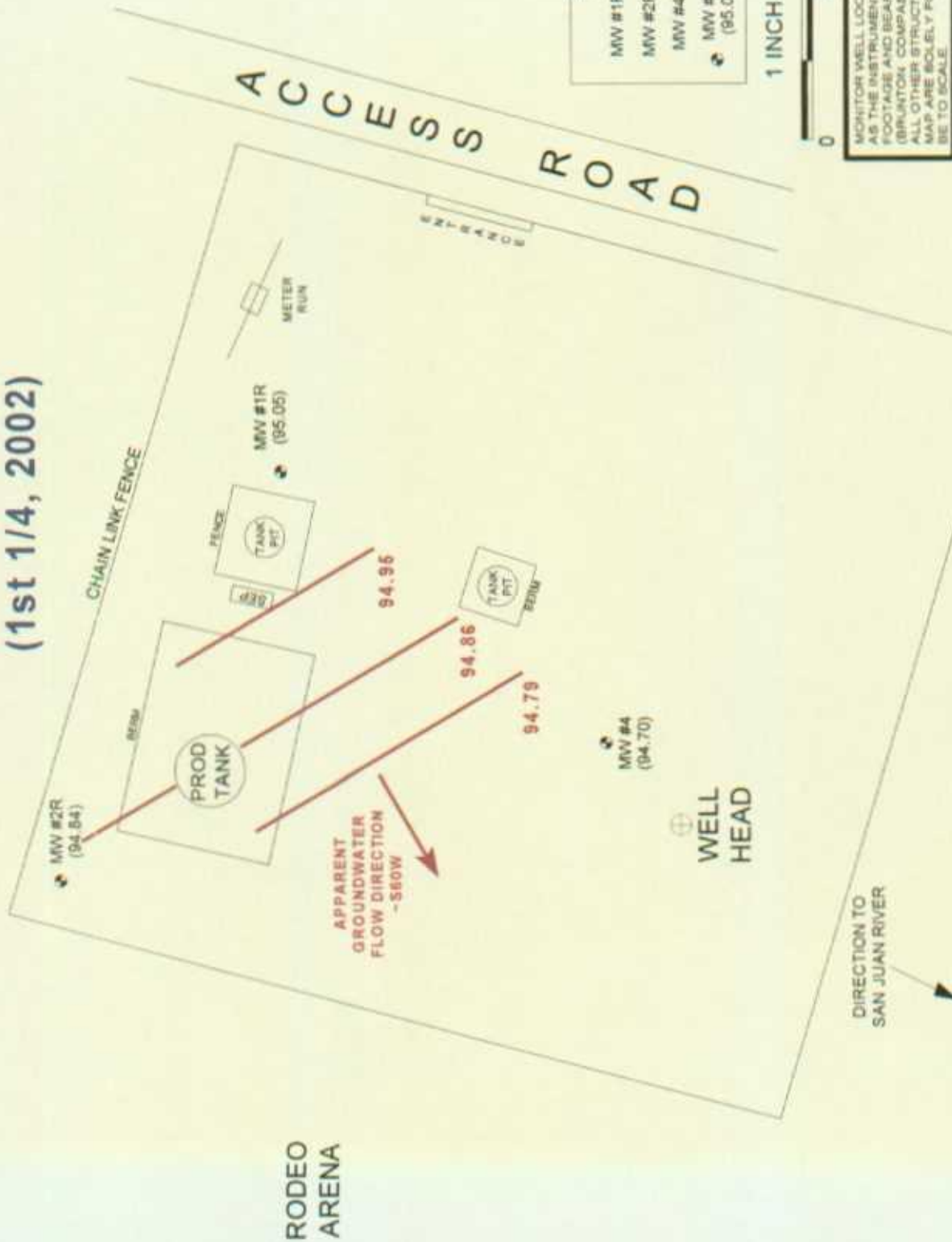
GROUNDWATER GRADIENT MAP
09/01

FIGURE 3
(4th 1/4, 2001)



AMOCO PRODUCTION COMPANY GCU COM H #180 NW/4 SE/4 SEC. 28, T29N, R12W SAN JUAN COUNTY, NEW MEXICO	BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199	PROJECT: MW SAMPLING DRAWN BY: NJV FILENAME: 12-03-01-GW.SKF REVISED: 12/01/05 NJV	GROUNDWATER GRADIENT MAP 12/01
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FIGURE 4
(1st 1/4, 2002)



Top of Well Elevation

MW #1R (100.50)

MW #2R (100.80)

MW #4 (101.10)

MW #1R (95.05) Groundwater Elevation as of 2/25/02

1 INCH = 50 FT.



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

AMOCO PRODUCTION COMPANY

GCU COM H #180

NW/4 SE/4 SEC. 28, T29N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 02-25-02-GW.SKF

REVISED: 12/01/05 NJV

**GROUNDWATER
GRADIENT
MAP**

02/02

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : BP AMOCOCHAIN-OF-CUSTODY # : 11150

GCU COM H #180

LABORATORY (S) USED : ON - SITE TECH.

UNIT J, SEC. 28, T29N, R12W

Date : July 24 & 28, 2001SAMPLER : N J VFilename : 07-28-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1R	100.50	94.34	6.16	10.00	0930	8.0	1,000	1.25	-
2R	100.80	94.45	6.35	10.00	-	-	-	-	-
4	101.10	94.30	6.80	10.00	0730	7.4	2,600	2.50	-

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:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

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

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW # 4 , very poor recovery in MW # 1R . Fluid level detector malfunctioned after using in MW # 4 . Purged MW #'s 1R & 4 on 7 / 24 / 01 . Collected BTEX samples from MW # 4 on 7 / 24 / 01 & MW # 1R on 7 / 28 / 01 (from first bail) . DTW measured in MW # 4 = 7.48 ft. (may not have been accurate or valid) .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 08-Aug-01

Client:	Blagg Engineering	Client Sample Info:	GCU Com H #180
Work Order:	0107048	Client Sample ID:	MW #1R
Lab ID:	0107048-02A	Matrix:	AQUEOUS
Project:	BP - GC Com H #180	Collection Date:	7/28/2001 9:30:00 AM
		COC Record:	11150

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
-----------	--------	-----	------	-------	----	---------------

AROMATIC VOLATILES BY GC/PID

SW8021B

Analyst: DM

Benzene	2.6	2.5		µg/L	5	8/3/2001
Toluene	ND	2.5		µg/L	5	8/3/2001
Ethylbenzene	33	2.5		µg/L	5	8/3/2001
m,p-Xylene	59	5		µg/L	5	8/3/2001
o-Xylene	ND	2.5		µg/L	5	8/3/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Sum: - Surrogate

2 of 2

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Date: 7/24/01

Page: 1 of 1

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Project No.

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Company	Dept.
Company	Dept.

Address

City. State. Zip

PROJECT LOCATION:

BP-CCU com H #180

SAMPLER'S SIGNATURE:

John V. L.

SAMPLE IDENTIFICATION

IE	MATRIX	PRES.
----	--------	-------

DATE _____

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INDEX

7.2

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ANALYTICAL REPORT

Date: 08-Aug-01

Client:	Blagg Engineering	Client Sample Info:	GCU Com H #180
Work Order:	0107048	Client Sample ID:	MW #4
Lab ID:	0107048-01A	Matrix:	AQUEOUS
Project:	BP - GC Com H #180	Collection Date:	7/24/2001 7:30:00 AM
		COC Record:	11150

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	8/3/2001
Toluene	ND	0.5		µg/L	1	8/3/2001
Ethylbenzene	ND	0.5		µg/L	1	8/3/2001
m,p-Xylene	ND	1		µg/L	1	8/3/2001
o-Xylene	ND	0.5		µg/L	1	8/3/2001

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

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

1 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 08-Aug-01

CLIENT: Blagg Engineering
Work Order: 0107048
Project: BP - GC Com H #180

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010803	Test Code: SW8021B	Units: µg/L	Analysis Date 8/3/2001	Prep Date:
Client ID:	0107048	Run ID: GC-1_010803A		SeqNo: 40173	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.1235	0.5			

J

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

On Site Technologies, LTD.

Date: 08-Aug-01

CLIENT: Blagg Engineering
Work Order: 0107048
Project: BP - GC Com H #180

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0108001-14AMS		Batch ID: GC-1_010803		Test Code: SW8021B		Units: µg/L		Analysis Date 8/3/2001		Prep Date:	
Client ID:		0107048		Run ID:		GC-1_010803A		SeqNo: 40174			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2408	10	800	1637	96.4%	70	130				
Ethylbenzene	1307	10	800	520.2	98.4%	70	130				
m,p-Xylene	3019	20	1600	1501	94.8%	70	130				
Methyl tert-Butyl Ether	994.9	20	800	250.7	93.0%	70	130				
o-Xylene	904.1	10	800	107.8	99.5%	70	130				
Toluene	1006	10	800	207.4	99.9%	70	130				

Sample ID: 0108001-14AMSD		Batch ID: GC-1_010803		Test Code: SW8021B		Units: µg/L		Analysis Date 8/3/2001		Prep Date:	
Client ID:		0107048		Run ID:		GC-1_010803A		SeqNo: 40175			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2351	10	800	1637	89.2%	70	130	2408	2.4%	8	
Ethylbenzene	1277	10	800	520.2	94.7%	70	130	1307	2.3%	7	
m,p-Xylene	2954	20	1600	1501	90.8%	70	130	3019	2.2%	7	
Methyl tert-Butyl Ether	987.4	20	800	250.7	92.1%	70	130	994.9	0.8%	6	
o-Xylene	892.8	10	800	107.8	98.1%	70	130	904.1	1.3%	6	
Toluene	990.9	10	800	207.4	97.9%	70	130	1006	1.6%	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

On Site Technologies, LTD.

Date: 08-Aug-01

CLIENT: Blagg Engineering
Work Order: 0107048
Project: BP - GC Com H #180

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010803	Test Code: SW8021B	Units: µg/L	Analysis Date 8/3/2001		Prep Date:				
Client ID:		0107048	Run ID:	GC-1_010803A	SeqNo:	40172					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.21	0.5	40	0	103.0%	80	120				
Ethylbenzene	41.93	0.5	40	0	104.8%	80	120				
m,p-Xylene	82.05	1	80	0	102.6%	80	120				
Methyl tert-Butyl Ether	41	1	40	0	102.5%	80	120				
o-Xylene	42.11	0.5	40	0	105.3%	80	120				
Toluene	41.62	0.5	40	0.1235	103.7%	80	120				

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

On Site Technologies, LTD.

Date: 08-Aug-01

CLIENT: Blagg Engineering
Work Order: 0107048
Project: BP - GC Com H #180

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0107		Batch ID: GC-1_010803		Test Code: SW8021B		Units: µg/L		Analysis Date 8/3/2001		Prep Date:	
Client ID: 0107048		Run ID: GC-1_010803A		PQL		SPK value		SeqNo: 40169			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.77	0.5	20	0	103.8%	85	115				
Ethylbenzene	21.1	0.5	20	0	105.5%	85	115				
m,p-Xylene	41.59	1	40	0	104.0%	85	115				
Methyl tert-Butyl Ether	20.6	1	20	0	103.0%	85	115				
o-Xylene	21.1	0.5	20	0	105.5%	85	115				
Toluene	20.99	0.5	20	0	105.0%	85	115				
1,4-Difluorobenzene	113.2	0	120	0	94.4%	70	130				
4-Bromochlorobenzene	126.2	0	120	0	105.2%	70	130				
Fluorobenzene	110.8	0	120	0	92.3%	70	130				

Sample ID: CCV2 BTEX_0107		Batch ID: GC-1_010803		Test Code: SW8021B		Units: µg/L		Analysis Date 8/3/2001		Prep Date:	
Client ID: 0107048		Run ID: GC-1_010803A		PQL		SPK value		SeqNo: 40170			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.99	0.5	20	0	99.9%	85	115				
Ethylbenzene	20.3	0.5	20	0	101.5%	85	115				
m,p-Xylene	40.05	1	40	0	100.1%	85	115				
Methyl tert-Butyl Ether	20.24	1	20	0	101.2%	85	115				
o-Xylene	20.47	0.5	20	0	102.4%	85	115				
Toluene	20.24	0.5	20	0	101.2%	85	115				
1,4-Difluorobenzene	112.6	0	120	0	93.8%	70	130				
4-Bromochlorobenzene	124.4	0	120	0	103.6%	70	130				
Fluorobenzene	111	0	120	0	92.5%	70	130				

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: 0107048
 Project: BP - GC Com H #180

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0107		Batch ID: GC-1_010803	Test Code: SW8021B	Units: µg/L	Analysis Date 8/3/2001		Prep Date:	
Client ID: 0107048		Run ID: GC-1_010803A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	39.28		0.5	40	0	98.2%	85	115
Ethylbenzene	40.07		0.5	40	0	100.2%	85	115
m,p-Xylene	78.6		1	80	0	98.2%	85	115
Methyl tert-Butyl Ether	39.71		1	40	0	99.3%	85	115
o-Xylene	40.52		0.5	40	0	101.3%	85	115
Toluene	39.84		0.5	40	0	99.6%	85	115
1,4-Difluorobenzene	111.8		0	120	0	93.2%	70	130
4-Bromochlorobenzene	122.3		0	120	0	101.9%	70	130
Fluorobenzene	110.4		0	120	0	92.0%	70	130

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

On Site Technologies, LTD.

Date: 08-Aug-01

CLIENT: Blagg Engineering
Work Order: 0107048
Project: BP - GC Com H #180
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0107048-01A	95.1	104	93.5
0107048-02A	93.3	99.4	93.7
0107049-01A	94.1	101	92.5
0107049-02A	92.3	101	91.9
0107049-03A	94.8	105	93.4
0108001-01A	94.2	105	93.3
0108001-02A	93.9	101	93.6
0108001-03A	93	103	92.4
0108001-04A	93.2	106	93
0108001-05A	94.7	105	93.4
0108001-06A	93.7	99	92.9
0108001-07A	93	102	92.5
0108001-08A	94.6	102	93.6
0108001-09A	95.1	105	93.6
0108001-10A	94.4	103	93.6
0108001-11A	94.4	103	93
0108001-12A	95.1	101	93.2
0108001-13A	94.3	102	93.3
0108001-14A	92	103	91.1
0108001-14AMS	91.9	104	90.5
0108001-14AMSD	92.2	103	90.6
0108001-15A	94	103	93.1
CCV1 BTEX_01070	94.4	105	92.3
CCV2 BTEX_01070	93.8	104	92.5
CCV3 BTEX_01070	93.2	102	92
LCS WATER	93.3	106	92.5
MBI	95.2	104	93

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : BP AMOCOCHAIN-OF-CUSTODY # : 11154

GCU COM H # 180

LABORATORY (S) USED : ON - SITE TECH.

UNIT J, SEC. 28, T29N, R12W

Date : Sept. 21, 2001SAMPLER : N J VFilename : 09-21-01.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1R	100.50	94.62	5.88	10.00	1000	7.80	1,700	1.25	-
2R	100.80	94.40	6.40	10.00	-	-	-	-	-
4	101.10	94.32	6.78	10.00	-	-	-	-	-

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:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

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

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Very poor recovery in MW # 1R . Collected BTEX sample from MW # 1R only .

Bailed 1.00 gallon on 9/20/01 @ 0900 .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 01-Oct-01

Client:	Blagg Engineering	Client Sample Info:	GCU Com H #180
Work Order:	0109034	Client Sample ID:	MW #1R
Lab ID:	0109034-01A	Matrix:	AQUEOUS
Project:	BP Amoco; GCU Com H #180	Collection Date:	9/21/2001 10:00:00 AM
		COC Record:	11154

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	6.9	2.5		µg/L	5	9/28/2001
Toluene	2.9	2.5		µg/L	5	9/28/2001
Ethylbenzene	41	2.5		µg/L	5	9/28/2001
m,p-Xylene	63	5		µg/L	5	9/28/2001
o-Xylene	ND	2.5		µg/L	5	9/28/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

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EMAIL: ONSITE@ONSITELTD.COM

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LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: 9/21/01

Page: 1 of 1

Purchase Order No.:		Project No.		Name Nelson Velez		Title	
SEND INVOICE TO		Name Jeff Bagg		Company SAME			
		Company Bagg Engineering, Inc.		Mailing Address			
		Address		City, State, Zip			
		City, State, Zip		Telephone No. 632-1199		Telefax No. 632-3903	
PROJECT LOCATION: BP - Gen com H #130				ANALYSIS REQUESTED			
SAMPLER'S SIGNATURE: <i>John Velez</i>							
SAMPLE IDENTIFICATION				LAB ID			
DATE		TIME		MATRIX		PRES.	
9/21/01		1200		WATER		H2O	
P.W. #130						0109034-01A	
REPORT TO				Containers			
RESULTS TO				Number of			
2				2			
Relinquished by: <i>John Velez</i>				Date/Time: 9/21/01		Date/Time: 9/21/01	
Relinquished by:				Date/Time:		Date/Time:	
Relinquished by:				Date/Time:		Date/Time:	
Method of Shipment:				Rush		24-48 Hours	
				10 Working Days		By Date	
Authorized by: _____				Special Instructions / Remarks:			
(Client Signature Must Accompany Request)							

On Site Technologies, LTD.

Date: 02-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109034

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Method Blank

Sample ID: MB_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001	Prep Date: 09/28/2001
Client ID:	0109034	Run ID: GC-1_010928A		SeqNo: 42834	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0938	0.5			J
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	.1731	1			J
o-Xylene	ND	0.5			
Toluene	.1909	0.5			J

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

On Site Technologies, LTD.

Date: 02-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109034

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109039-09AMS		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034		Run ID: GC-1_010928A		SeqNo: 42835							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	960.8	5	400	562	99.7%	78	117				
Ethylbenzene	679.2	5	400	265.7	103.4%	79	121				
m,p-Xylene	962.8	10	800	141.3	102.7%	80	115				
Methyl tert-Butyl Ether	461	10	400	35.45	106.4%	84	114				
o-Xylene	474.3	5	400	50.33	106.0%	88	116				
Toluene	455.5	5	400	26.31	107.3%	88	113				

Sample ID: 0109039-09AMSD		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034		Run ID: GC-1_010928A		SeqNo: 42836							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	936.2	5	400	562	93.6%	78	117	960.8	2.6%	6	
Ethylbenzene	665.7	5	400	265.7	100.0%	79	121	679.2	2.0%	7	
m,p-Xylene	943	10	800	141.3	100.2%	80	115	962.8	2.1%	6	
Methyl tert-Butyl Ether	456.8	10	400	35.45	105.3%	84	114	461	0.9%	5	
o-Xylene	468.9	5	400	50.33	104.6%	88	116	474.3	1.2%	5	
Toluene	444.9	5	400	26.31	104.7%	88	113	455.5	2.4%	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

On Site Technologies, LTD.

Date: 02-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109034

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_010928A	Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034	Run ID: GC-1_010928A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 42833	
Analyte	Result					LowLimit	HighLimit
Benzene	42.17	0.5	40	0.0938	105.2%	92	113
Ethylbenzene	43.02	0.5	40	0	107.6%	94	114
m,p-Xylene	84.6	1	80	0	105.7%	92	111
Methyl tert-Butyl Ether	41.28	1	40	0.1731	102.8%	91	112
o-Xylene	42.75	0.5	40	0	106.9%	97	112
Toluene	42.22	0.5	40	0.1909	105.1%	95	111
						RPDLimit	Qual

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

On Site Technologies, LTD.

Date: 02-Oct-01

CLIENT: Blagg Engineering

Work Order: 0109034

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_010928A		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034		Run ID: GC-1_010928A		SeqNo: 42830							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.97	0.5	20	0	109.8%	85	115				
Ethylbenzene	22.41	0.5	20	0	112.1%	85	115				
m,p-Xylene	44.35	1	40	0	110.9%	85	115				
Methyl tert-Butyl Ether	21.26	1	20	0	106.3%	85	115				
o-Xylene	22.33	0.5	20	0	111.6%	85	115				
Toluene	22.04	0.5	20	0	110.2%	85	115				
1,4-Difluorobenzene	115.2	0	120	0	96.0%	77	112				
4-Bromochlorobenzene	125.5	0	120	0	104.6%	88	116				
Fluorobenzene	116.2	0	120	0	96.8%	87	102				

Sample ID: CCV2_010928A		Batch ID: GC-1_010928		Test Code: SW8021B		Units: µg/L		Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034		Run ID: GC-1_010928A		SeqNo: 42831							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.45	0.5	20	0	107.3%	85	115				
Ethylbenzene	21.91	0.5	20	0	109.6%	85	115				
m,p-Xylene	43.54	1	40	0	108.9%	85	115				
Methyl tert-Butyl Ether	20.68	1	20	0	103.4%	85	115				
o-Xylene	22.01	0.5	20	0	110.0%	85	115				
Toluene	21.63	0.5	20	0	108.1%	85	115				
1,4-Difluorobenzene	115.2	0	120	0	96.0%	77	112				
4-Bromochlorobenzene	122.6	0	120	0	102.2%	88	116				
Fluorobenzene	115.5	0	120	0	96.2%	87	102				

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: 0109034
Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3_010928A		Batch ID: GC-1_010928	Test Code: SW8021B	Units: µg/L	Analysis Date 09/28/2001		Prep Date: 09/28/2001	
Client ID: 0109034		Run ID: GC-1_010928A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte		Result						
Benzene		41.17	0.5	40	0	102.9%	85	115
Ethylbenzene		42.01	0.5	40	0	105.0%	85	115
m,p-Xylene		82.7	1	80	0	103.4%	85	115
Methyl tert-Butyl Ether		40.89	1	40	0	102.2%	85	115
o-Xylene		42.02	0.5	40	0	105.1%	85	115
Toluene		41.44	0.5	40	0	103.6%	85	115
1,4-Difluorobenzene		114.8	0	120	0	95.7%	77	112
4-Bromochlorobenzene		124.8	0	120	0	104.0%	88	116
Fluorobenzene		115.4	0	120	0	96.2%	87	102

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

On Site Technologies, LTD.

Date: 02-Oct-01

CLIENT: Blagg Engineering
Work Order: 0109034
Project: BP Amoco; GCU Com H #180
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0109034-01A	95.8	101	96
0109035-01A	88.8	101	95.4
0109035-02A	96.3	103	97.3
0109039-01A	96.8	106	98.1
0109039-02A	96.7	102	97.5
0109039-03A	96.2	104	97.3
0109039-04A	96.8	104	97.7
0109039-05A	96.1	104	97.4
0109039-06A	97	104	97.7
0109039-07A	96	101	97.2
0109039-08A	96.3	101	97.1
0109039-09A	96.1	106	95.6
0109039-09AMS	94.6	103	94.1
0109039-09AMSD	95.5	104	94.8
0109039-10A	96.4	103	97.4
0109039-11A	96.8	105	97.3
0109039-12A	96.9	104	97.2
0109039-13A	96.8	104	97.5
0109039-14A	96.7	103	97.4
0109039-15A	96.5	105	97.3
0109039-16A	96.7	103	97.4
CCV1_010928A	96	105	96.8
CCV2_010928A	96	102	96.2
CCV3_010928A	95.7	104	96.2
LCS_010928A	95.4	105	96
MB_010928A	96.1	103	96.6

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits

/

BLAGG ENGINEERING, INC.
MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO

CHAIN-OF-CUSTODY # : 11159

GCU COM H # 180

LABORATORY (S) USED : ON - SITE TECH.

UNIT J, SEC. 28, T29N, R12W

Date : Dec. 3, 2001

SAMPLER : N J V

Filename : 12-03-01.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)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1R	100.50	94.88	5.62	10.00	1355	7.56	3,000	1.00	-
2R	100.80	94.65	6.15	10.00	-	-	-	-	-
4	101.10	94.53	6.57	10.00	-	-	-	-	-

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:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

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

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2 "

Very poor recovery in MW # 1R . Collected BTEX sample from MW # 1R only .

Bailed 0.75 gallons @ time 1135 , returned @ time 1344 , DTW measured @

'6.49 ft. , then sampled .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 13-Dec-01

Client:	Blagg Engineering	Client Sample Info:	GCU Com H #180
Work Order:	0112002	Client Sample ID:	MW #1R
Lab ID:	0112002-01A	Matrix:	AQUEOUS
Project:	BP Amoco; GCU Com H #180	Collection Date:	12/3/2001 1:55:00 PM
		COC Record:	11159

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID

SW8021B

Analyst: DDM

Benzene	2.8	0.5		µg/L	1	12/5/2001
Toluene	2	0.5		µg/L	1	12/5/2001
Ethylbenzene	11	0.5		µg/L	1	12/5/2001
m,p-Xylene	3.9	1		µg/L	1	12/5/2001
o-Xylene	ND	0.5		µg/L	1	12/5/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

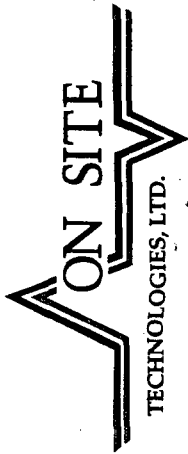
B - Analyte detected in the associated Method Blank

Surrogate - Surrogate

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EMAIL: ONSITE@ONSITELTD.COM

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Date: 12/3/01

Page: 1 of 1

Purchase Order No.:		Project No.		Name Nelson Valle 2		Title	
SEND INVOICE TO		Name TUFF BLACC		Company SAME		Mailing Address	
		Address		City, State, Zip		Telephone No. 632-1199	
		City, State, Zip		Telephone No. 632-1199		Telefax No. 632-3903	
PROJECT LOCATION: BP - Gen Com H #10				ANALYSIS REQUESTED			
SAMPLER'S SIGNATURE: <i>[Signature]</i>				LAB ID			
SAMPLE IDENTIFICATION				LAB ID			
DATE TIME MATRIX PRES.				LAB ID			
12/3/01 1355 WIRE 500L				0112002 - CIA			
RELINQUISHED BY: <i>[Signature]</i>				Date/Time 12/3/01			
RELINQUISHED BY: <i>[Signature]</i>				Date/Time			
RELINQUISHED BY: <i>[Signature]</i>				Date/Time			
Method of Shipment:				By Date			
Authorized by: _____				Date _____			
(Client Signature Must Accompany Request)							

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: Blagg Engineering

Work Order: 0112002

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Method Blank

Sample ID: MB_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01		
Client ID:		0112002		Run ID: GC-1_011205A				SeqNo: 45677				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	0.5									
Ethylbenzene		ND	0.5									
m,p-Xylene		ND	1									
Methyl tert-Butyl Ether		ND	1									
o-Xylene		ND	0.5									
Toluene		ND	0.5									
1,4-Difluorobenzene		103.3	0									
4-Bromochlorobenzene		110.9	0									
Fluorobenzene		104.6	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

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: Blagg Engineering

Work Order: 0112002

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0111041-18AMS		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112002		Run ID:		GC-1_011205A		SeqNo: 45678			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	471.4	5	400	108	90.8%	78	117				
Ethylbenzene	1443	5	400	1079	90.9%	79	121				
m,p-Xylene	772.5	10	800	10.85	95.2%	80	115				
Methyl tert-Butyl Ether	471.6	10	400	52.08	104.9%	84	114				
o-Xylene	392.8	5	400	1.982	97.7%	88	116				
Toluene	375	5	400	14.49	90.1%	88	113				
1,4-Difluorobenzene	1027	0	1100	0	93.4%	77	112				
4-Bromochlorobenzene	1175	0	1100	0	106.8%	88	116				
Fluorobenzene	1036	0	1100	0	94.2%	87	102				

Sample ID: 0111041-18AMSD		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112002		Run ID: GC-1_011205A				SeqNo: 45679			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	462	5	400	108	88.5%	78	117	471.4	2.0%	6	
Ethylbenzene	1400	5	400	1079	80.3%	79	121	1443	3.0%	7	
m,p-Xylene	751.6	10	800	10.85	92.6%	80	115	772.5	2.7%	6	
Methyl tert-Butyl Ether	471.6	10	400	52.08	104.9%	84	114	471.6	0.0%	5	
o-Xylene	384	5	400	1.982	95.5%	88	116	392.8	2.3%	5	
Toluene	364	5	400	14.49	87.4%	88	113	375	3.0%	6	S
1,4-Difluorobenzene	1033	0	1100	0	94.0%	77	112	0	0.0%	0	
4-Bromochlorobenzene	1121	0	1100	0	101.9%	88	116	0	0.0%	0	
Fluorobenzene	1039	0	1100	0	94.4%	87	102	0	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

On Site Technologies, LTD.

Date: 13-Dec-01

CLIENT: Blagg Engineering

Work Order: 0112002

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_011205	Batch ID: GC-1_011205	Test Code: SW8021B	Units: µg/L	Analysis Date 12/5/2001				Prep Date: 12/5/01			
Client ID:	0112002	Run ID: GC-1_011205A		SeqNo: 45676							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.77	0.5	40	0	91.9%	80	120				
Ethylbenzene	37.15	0.5	40	0	92.9%	80	120				
m,p-Xylene	76.82	1	80	0	96.0%	80	120				
Methyl tert-Butyl Ether	39.15	1	40	0	97.9%	80	120				
o-Xylene	38.57	0.5	40	0	96.4%	80	120				
Toluene	36.74	0.5	40	0	91.9%	80	120				
1,4-Difluorobenzene	102.6	0	110	0	93.2%	77	112				
4-Bromochlorobenzene	115.1	0	110	0	104.6%	88	116				
Fluorobenzene	104	0	110	0	94.5%	87	102				

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

On Site Technologies, LTD.

Date: 13-Dec-01

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CLIENT: Blagg Engineering
 Work Order: 0112002
 Project: BP Amoco; GCU Com H #180

Sample ID: CCV1_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112002		Run ID: GC-1_011205A				SeqNo: 45672			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.29	0.5	20	0	91.4%	85	115				
Ethylbenzene	18.2	0.5	20	0	91.0%	85	115				
m,p-Xylene	37.46	1	40	0	93.6%	85	115				
Methyl tert-Butyl Ether	20.57	1	20	0	102.9%	85	115				
o-Xylene	19.34	0.5	20	0	96.7%	85	115				
Toluene	18.22	0.5	20	0	91.1%	85	115				
1,4-Difluorobenzene	101.3	0	110	0	92.1%	77	112				
4-Bromochlorobenzene	113	0	110	0	102.7%	88	116				
Fluorobenzene	104	0	110	0	94.6%	87	102				

Sample ID: CCV2_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID:		0112002		Run ID: GC-1_011205A				SeqNo: 45673			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.78	0.5	20	0	88.9%	85	115				
Ethylbenzene	17.61	0.5	20	0	88.0%	85	115				
m,p-Xylene	36.38	1	40	0	90.9%	85	115				
Methyl tert-Butyl Ether	19.78	1	20	0	98.9%	85	115				
o-Xylene	18.89	0.5	20	0	94.5%	85	115				
Toluene	17.57	0.5	20	0	87.8%	85	115				
1,4-Difluorobenzene	103.2	0	110	0	93.9%	77	112				
4-Bromochlorobenzene	113.2	0	110	0	102.9%	88	116				
Fluorobenzene	104.5	0	110	0	95.0%	87	102				

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

0111041-31A	92	113	97		
0112002-01A	92.4	102	94.5		
0112006-01A	93.2	103	94.2		
0112006-02A	94.2	102	95.8		
CCV1_011205	92.1	103	94.6		
CCV2_011205	93.8	103	95		
CCV3_011205	92.5	101	94.6		
CCV4_011205	93.6	102	95.1		
LCS_011205	93.2	105	94.5		
MB_011205	93.9	101	95.1		

CLIENT: Blagg Engineering

Work Order: 0112002

Project: BP Amoco; GCU Com H #180

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID: 0112002		Run ID: GC-1_011205A		SeqNo: 45674							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.24	0.5	40	0	90.6%	85	115				
Ethylbenzene	35.87	0.5	40	0	89.7%	85	115				
m,p-Xylene	74.89	1	80	0	93.6%	85	115				
Methyl tert-Butyl Ether	39.42	1	40	0	98.6%	85	115				
o-Xylene	37.59	0.5	40	0	94.0%	85	115				
Toluene	35.71	0.5	40	0	89.3%	85	115				
1,4-Difluorobenzene	101.7	0	110	0	92.5%	77	112				
4-Bromochlorobenzene	111.4	0	110	0	101.3%	88	116				
Fluorobenzene	104	0	110	0	94.6%	87	102				

Sample ID: CCV4_011205		Batch ID: GC-1_011205		Test Code: SW8021B		Units: µg/L		Analysis Date 12/5/2001		Prep Date: 12/5/01	
Client ID: 0112002		Run ID: GC-1_011205A		SeqNo: 45675							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.63	0.5	40	0	94.1%	85	115				
Ethylbenzene	37.36	0.5	40	0	93.4%	85	115				
m,p-Xylene	77.55	1	80	0	96.9%	85	115				
Methyl tert-Butyl Ether	41.1	1	40	0	102.7%	85	115				
o-Xylene	38.75	0.5	40	0	96.9%	85	115				
Toluene	37.44	0.5	40	0	93.6%	85	115				
1,4-Difluorobenzene	103	0	110	0	93.6%	77	112				
4-Bromochlorobenzene	111.7	0	110	0	101.5%	88	116				
Fluorobenzene	104.6	0	110	0	95.1%	87	102				

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

2 of 2

BLAGG ENGINEERING, INC.**MONITOR WELL SAMPLING DATA**CLIENT : BP AMOCOCHAIN-OF-CUSTODY # : 11769GCU COM H # 180LABORATORY (S) USED : ON - SITE TECH.

UNIT J, SEC. 28, T29N, R12W

Date : February 25, 2002SAMPLER : N J VFilename : 02-25-02.WK4PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
1R	100.50	95.05	5.45	10.00	1350	7.83	2,500	1.00	-
2R	100.80	94.84	5.96	10.00	-	-	-	-	-
4	101.10	94.70	6.40	10.00	-	-	-	-	-

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:

1.25 " well diameter $\approx$ 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4 " teflon bailer.

2.00 " well diameter $\approx$ 0.49 gallons per foot of water.4.00 " well diameter $\approx$ 1.95 gallons per foot of water.Comments or note well diameter if not standard 2 "Very poor recovery in MW # 1R . Collected BTEX sample from MW # 1R only .Bailed 0.75 gallons @ time 0915 , returned @ time 1348 , DTW measured @'5.68 ft. , then sampled .

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 07-Mar-02

Client:	Blagg Engineering	Client Sample Info:	BP - GCU Com H #180
Work Order:	0202032	Client Sample ID:	MW #1R
Lab ID:	0202032-01A	Matrix:	AQUEOUS
Project:	BP - GCU Com H #180	Collection Date:	02/25/2002 1:50:00 PM
		COC Record:	11769

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DDM		
Benzene	4.1	0.5		µg/L	1	03/01/2002
Toluene	1.8	0.5		µg/L	1	03/01/2002
Ethylbenzene	17	0.5		µg/L	1	03/01/2002
m,p-Xylene	6.4	1		µg/L	1	03/01/2002
o-Xylene	ND	0.5		µg/L	1	03/01/2002

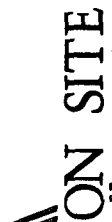
Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

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

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



10

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

Date: 2/25/02

Page: 1 of 1

(Client Signature Must Accompany Request)

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

Date: 07-Mar-02

On Site Technologies, LTD.

CLIENT: Blagg Engineering

Work Order: 0202032

Project: BP - GCU Com H #180

QC SUMMARY REPORT

Method Blank

Sample ID: MB_020301	Batch ID: GC-1_020301	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/01/2002	Prep Date:
Client ID: 0202032	Run ID: GC-1_020301A	PQL	SPK value	SeqNo: 48217	
Analyte	Result	PQL	SPK value	LowLimit	HighLimit
Benzene	ND	0.5		%REC	RPD Ref Val
Ethylbenzene	.092	0.5		%RPD	RPDLimit
m,p-Xylene	ND	1			Qual
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.0755	0.5			
1,4-Difluorobenzene	106.2	0			
4-Bromochlorobenzene	118.7	0			
Fluorobenzene	107	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

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: Blagg Engineering

Work Order: 0202032

Project: BP - GCU Com H #180

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0202036-01AMS		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002		Prep Date:	
Client ID: 0202032		Run ID: GC-1_020301A		PQL		SPK value		SeqNo: 48218			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1256	5	400	893	90.8%	70	130				
Ethylbenzene	740.5	5	400	371	92.4%	70	130				
m,p-Xylene	1667	10	800	909.8	94.7%	70	130				
Methyl tert-Butyl Ether	566.4	10	400	153	103.3%	70	130				
o-Xylene	491.6	5	400	117.2	93.6%	70	130				
Toluene	449	5	400	89.86	89.8%	70	130				
1,4-Difluorobenzene	1044	0	1100	0	95.0%	70	130				
4-Bromochlorobenzene	1162	0	1100	0	105.7%	70	130				
Fluorobenzene	1054	0	1100	0	95.9%	70	130				

Sample ID: 0202036-01AMSD		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002		Prep Date:	
Client ID: 0202032		Run ID: GC-1_020301A		PQL		SPK value		SeqNo: 48219			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1241	5	400	893	87.1%	70	130	1256	1.2%	15	
Ethylbenzene	732.2	5	400	371	90.3%	70	130	740.5	1.1%	15	
m,p-Xylene	1650	10	800	909.8	92.5%	70	130	1667	1.1%	15	
Methyl tert-Butyl Ether	587	10	400	153	108.5%	70	130	566.4	3.6%	15	
o-Xylene	487.7	5	400	117.2	92.6%	70	130	491.6	0.8%	15	
Toluene	452.3	5	400	89.86	90.6%	70	130	449	0.7%	15	
1,4-Difluorobenzene	1050	0	1100	0	95.4%	70	130	0	0.0%	0	
4-Bromochlorobenzene	1165	0	1100	0	105.9%	70	130	0	0.0%	0	
Fluorobenzene	1057	0	1100	0	96.1%	70	130	0	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

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: Blagg Engineering
Work Order: 0202032
Project: BP - GCU Com H #180

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS_020301	Batch ID: GC-1_020301	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/01/2002	Prep Date:						
Client ID:	0202032	Run ID: GC-1_020301A		SeqNo: 48216							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.94	0.5	40	0	92.4%	80	120				
Ethylbenzene	38.42	0.5	40	0.092	95.8%	80	120				
m,p-Xylene	76.65	1	80	0	95.8%	80	120				
Methyl tert-Butyl Ether	38.68	1	40	0	96.7%	80	120				
o-Xylene	37.73	0.5	40	0	94.3%	80	120				
Toluene	36.66	0.5	40	0.0755	91.5%	80	120				
1,4-Difluorobenzene	105.6	0	110	0	96.0%	70	130				
4-Bromochlorobenzene	120.1	0	110	0	109.2%	70	130				
Fluorobenzene	106.4	0	110	0	96.7%	70	130				

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

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: Blagg Engineering
Work Order: 0202032
Project: BP - GCU Com H #180

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002			Prep Date:	
Client ID:		0202032		Run ID:		GC-1_020301A		SeqNo: 48213				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	18.72	0.5	20	0	93.6%	85	115					
Ethylbenzene	19.44	0.5	20	0	97.2%	85	115					
m,p-Xylene	38.99	1	40	0	97.5%	85	115					
Methyl tert-Butyl Ether	19.24	1	20	0	96.2%	85	115					
o-Xylene	18.92	0.5	20	0	94.6%	85	115					
Toluene	18.51	0.5	20	0	92.5%	85	115					
1,4-Difluorobenzene	105.4	0	110	0	95.9%	70	130					
4-Bromochlorobenzene	119.3	0	110	0	108.5%	70	130					
Fluorobenzene	106.8	0	110	0	97.1%	70	130					

Sample ID: CCV2_020301		Batch ID: GC-1_020301		Test Code: SW8021B		Units: µg/L		Analysis Date: 03/01/2002			Prep Date:	
Client ID:		0202032		Run ID:		GC-1_020301A		SeqNo: 48214				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		18.47	0.5	20	0	92.4%	85	115				
Ethylbenzene		19.16	0.5	20	0	95.8%	85	115				
m,p-Xylene		38.48	1	40	0	96.2%	85	115				
Methyl tert-Butyl Ether		19.5	1	20	0	97.5%	85	115				
o-Xylene		18.86	0.5	20	0	94.3%	85	115				
Toluene		18.38	0.5	20	0	91.9%	85	115				
1,4-Difluorobenzene		106.2	0	110	0	96.6%	70	130				
4-Bromochlorobenzene		118.5	0	110	0	107.7%	70	130				
Fluorobenzene		107	0	110	0	97.2%	70	130				

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: 0202032
Project: BP - GCU Com H #180

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3_020301	Batch ID: GC-1_020301	Test Code: SW8021B	Units: µg/L	Analysis Date: 03/01/2002	Prep Date:					
Client ID: 0202032	Run ID: GC-1_020301A	PQL	SPK value	SeqNo: 48215						
Analyte	Result			LowLimit	HighLimit	RPD Ref Val	%REC	%RPD	RPDLimit	Qual
Benzene	36.97	0.5	40		85	115	92.4%			
Ethylbenzene	38.2	0.5	40		85	115	95.5%			
m,p-Xylene	76.2	1	80		85	115	95.3%			
Methyl tert-Butyl Ether	38.09	1	40		85	115	95.2%			
o-Xylene	37.67	0.5	40		85	115	94.2%			
Toluene	36.71	0.5	40		85	115	91.8%			
1,4-Difluorobenzene	104.9	0	110		70	130	95.4%			
4-Bromochlorobenzene	116.8	0	110		70	130	106.2%			
fluorobenzene	106.3	0	110		70	130	96.6%			

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

On Site Technologies, LTD.

Date: 07-Mar-02

CLIENT: Blagg Engineering
Work Order: 0202032
Project: BP - GCU Com H #180
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0202029-15A	98.7	107	107
0202029-16A	97	108	98.3
0202029-19A	97.1	104	98.9
0202029-20A	97.4	112	95.6
0202029-21A	94.4	105	95.7
0202029-23A	95	105	95.5
0202029-25A	98.7	104	99.7
0202029-26A	96.4	105	99.2
0202029-28A	95.7	105	97.2
0202029-31A	98	107	98.9
0202029-32A	96.5	108	98
0202029-33A	97	105	98.6
0202029-34A	96.6	108	98.3
0202031-01A	97.7	106	98.3
0202031-02A	94.9	102	96.1
0202031-03A	95.4	104	96
0202032-01A	96.1	105	96.7
0202036-01A	95.5	105	95.9
0202036-01AMS	95	106	95.8
0202036-01AMSD	95.4	106	96.1
0202036-02A	96.6	106	97.5
CCV1_020301	95.8	108	97
CCV2_020301	96.6	108	97.2
CCV3_020301	95.4	106	96.6
LCS_020301	96	109	96.7
MB_020301	96.6	108	97.3

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits