BLAGG ENGINEERING, INC.

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

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

February 1, 2011

SK 381

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

Re: BP America Production Company Groundwater Monitoring Report GCU # 170, Unit K, Sec. 35, T29N, R12W, NMPM San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-381-0

Dear Mr. von Gonten:

BP America Production Company (BP) has retained Blagg Engineering, Inc. (BEI) to conduct environmental monitoring of groundwater at the GCU # 170.

The last formal correspondence to NMOCD was conducted with letter dated, May 1, 2009. Since then, BP has followed its NMOCD approved groundwater management plan and continues to monitor the site. No permanent closure is requested at this time.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted: *Blagg Engineering, Inc.*

Thean.

Nelson J. Velez Staff Geologist

Attachment: Groundwater Report (2 copies)

cc: Mr. Brandon Powell, Environmental Specialist, NMOCD District III Office, Aztec, NM Mr. Jeff Peace, Environmental Advisor, BP, Farmington, NM **BP AMERICA PRODUCTION CO.**

GROUNDWATER REMEDIATION REPORT

GCU #170 (K) SECTION 35, T29N, R12W, NMPM SAN JUAN COUNTY, NEW MEXICO

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

DECEMBER 2010

PREPARED BY: BLAGG ENGINEERING, INC.

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

BP AMERICA PRODUCTION COMPANY GCU # 170 NE¹/₄ SW¹/₄, Sec. 35, T29N, R12W

Monitor Well Sampling Dates: 5/26/09, 12/28/09, 5/10/10, 10/21/10

Pit Closure and Background:

A site earthen separator pit closure was initiated in March 1995 by removing impacted soil via excavation. 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. The reporting herein is for site monitoring conducted in 2009 and 2010.

Groundwater Monitor Well Sampling Procedures:

Groundwater monitor well MW #3R was purged of its well bore using a new disposable bailer, then given a sufficient amount of time to allow recovery prior to sample collections. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by US EPA Method 8021B was conducted.

Fluids generated during monitor well development and purging were managed by discarding into the separator below-grade tank (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:

Bi-annual sampling of the groundwater monitor well MW #3R was conducted in 2009 and 2010. A historical summary of laboratory analytical BTEX results are included within the table on the following page. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included within this report.

Groundwater contour maps (Figure 2 through Figure 5) reveal the relative elevations from the site wells have consistently shown an apparent northwest flow direction.

Summary and/or Recommendations:

Continued site monitoring per BP's NMOCD approved Ground Water Management Plan is recommended. Hydrocarbon impacts appear to be in a steady state condition. It is necessary to install at least one (1) groundwater monitor well down gradient of MW #3R for delineation of any residual/dissolve phase BTEX. If warranted, alternative remedial actions will be evaluated.

BP AMERICA GROUNDWATER MONITOR WELL LABORATORY RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

GCU #170 - SEPARATOR PIT UNIT K, SEC. 35, T29N, R12W

REVISED DATE: November 2, 2010

FILENAME: (17-4Q-10.WK4) NJV

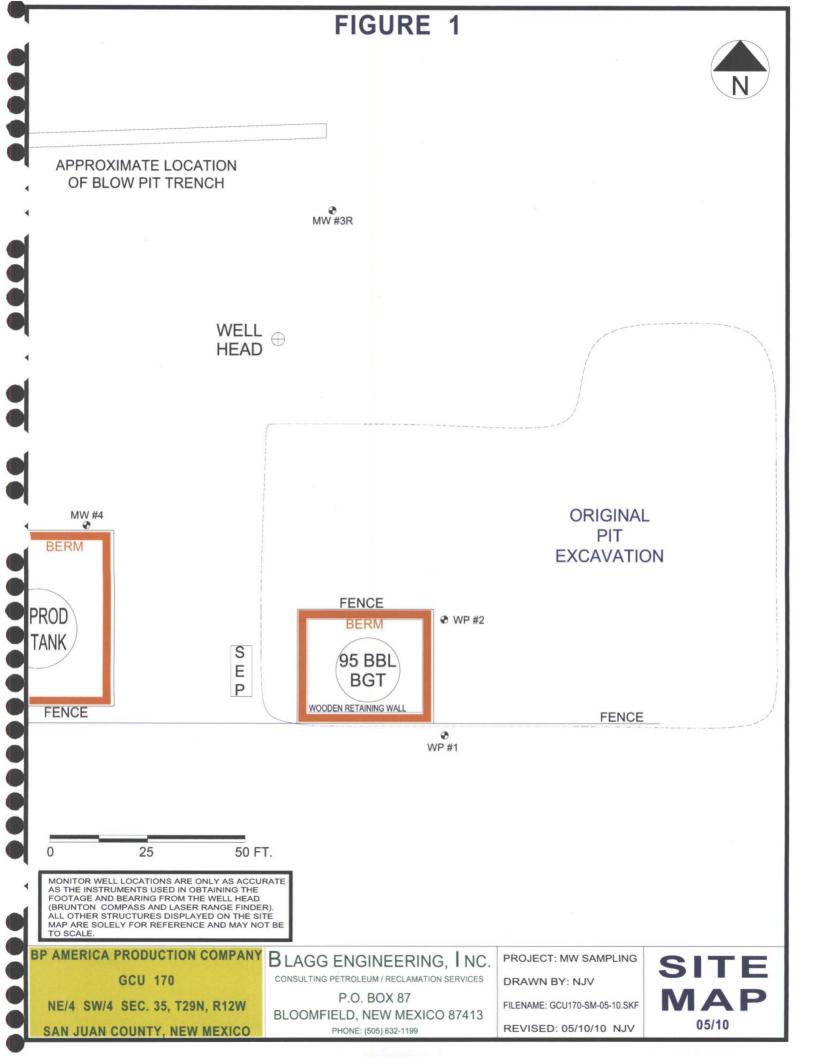
							[BTE	X EPA MET	HOD 8021B (ppb)
SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	pН	PRODUCT	Benzene	Toluene	Ethyl	Total
DATE	WELL #	(ft)	(ft)	mg/L	(umhos/cm)		(ft)			Benzene	Xylene
		1									
28-Jun-95	MW #1	10.50	15.00		1,400	7.4		0.2	0.2	0.3	0.9
08-Sep-95		9.56			1,400	7.8		206	82.3	4.9	67.0
07-Dec-95		9.91			1,700	6.8		ND	0.37	ND	ND
08-Mar-96		10.93			1,200	6.6		ND	0.97	ND	ND
04-Jun-96		10.74			1,300	6.7		ND	ND	ND	ND
28-Jun-95	WP #2	10.45	15.00		1,600	7.4		1.9	38.3	0.2	0.8
08-Sep-95		9.35			1,300	7.4		47.1	19.8	1.2	17.6
07-Dec-95		9.45			1,600	7.2		ND	ND	ND	ND
08-Mar-96		10.24			1,700	7.0		ND	ND	ND	ND
04-Jun-96		10.00			2,100	6.9		ND	ND	ND	ND
28-Jun-95	MW #3	10.45	15.00		1,500	7.4		2115.7	4485.8	318	2704.4
08-Sep-95		9.60			1,700	7.8		1,200	815	131	661
07-Dec-95		9.80			1,800	7.0		4,830	7,680	294	2,760
08-Mar-96		10.74			1,500	6.6		5,020	6,410	105	2,603
04-Jun-96		10.57			1,600	6.6		5,140	5,560	116	2,631
24-Jun-97		10.72			1,700	6.9		1,115	542	88.2	850
08-Jun-98		10.69			1,600	7.3		921	1,020	16.1	279.4
28-May-99		10.29			1,700	7.0		69.3	78.1	3	88.7
24-May-00		10.70			1,700	7.1		1,100	770	19	410
26-Jun-01	MW #3R	10.45	19.50		2,200	7.21		160	540	76	590
31-May-02		10.45			2,600	7.18		32	17	2.3	29.6
29-May-03		10.34			1,800	6.95		75	30	4.8	38
24-Jun-04		10.30			2,300	6.92		71	. 26	6.4	36
27-Jun-05		10.15			2,000	7.00		80	47	6.6	53
29-Jun-06		9.91			1,900	6.92		130	39	8.3	150
25-Jun-07		9.71			2,000	6.76		270	170	27	310
09-Jun-08		9.82			1,100	7.01		142	104	12.2	114
27-Aug-08		9.39			1,800	7.06		200	150	24	190
26-May-09		10.15			1,400	7.38		150	73	13	93
28-Dec-09		9.45			1,700	7.26		77	44	8.6	50
10-May-10		9.91			1,400	7.35		130	72	12	110
21-Oct-10		8.74		•	1,500	7.25		87	46	12	86
26-Jun-01	MW #4	11.14	18.50		800	7.41		ND	ND	ND	ND
		NMW	QCC G	ROUNE	WATER S	TANDA	ARDS	10	750	750	620

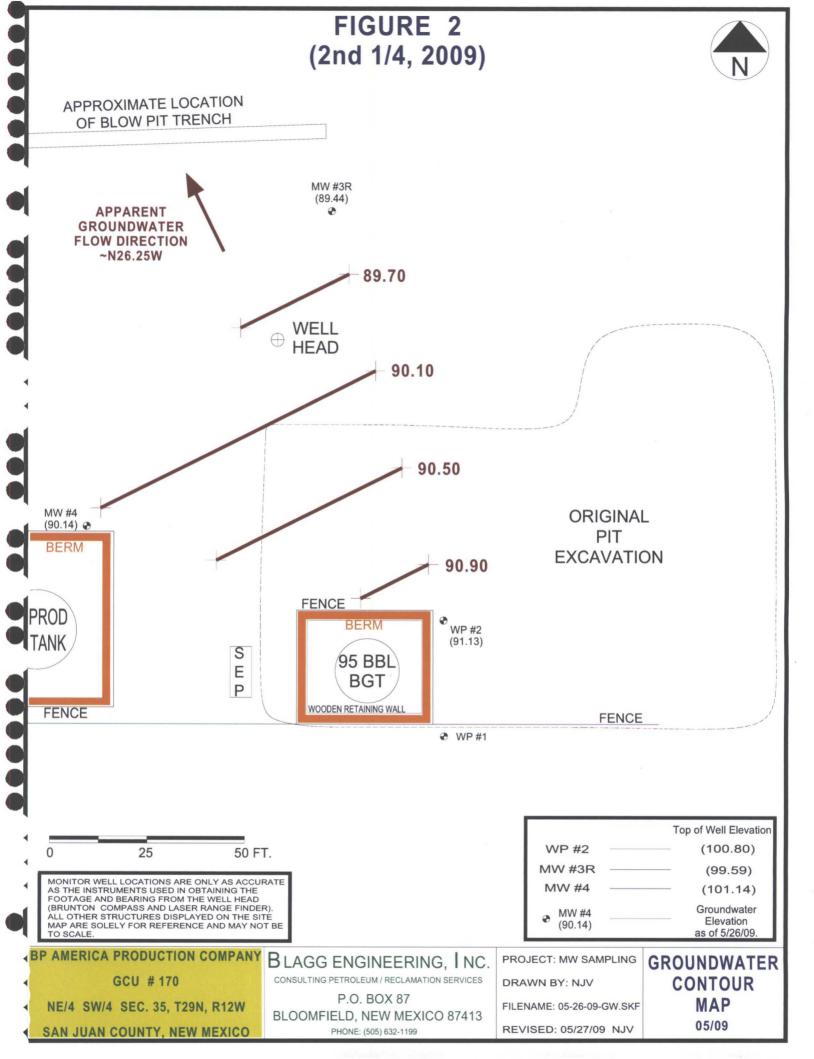
NOTES: 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.

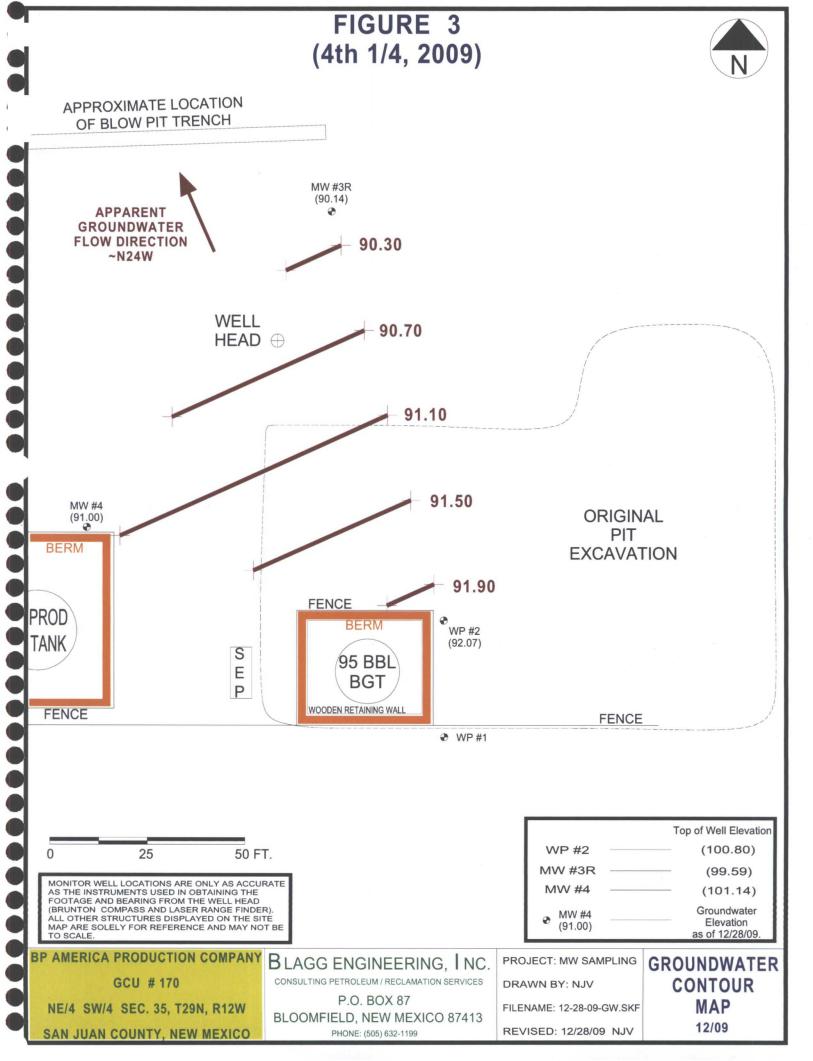
2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED.

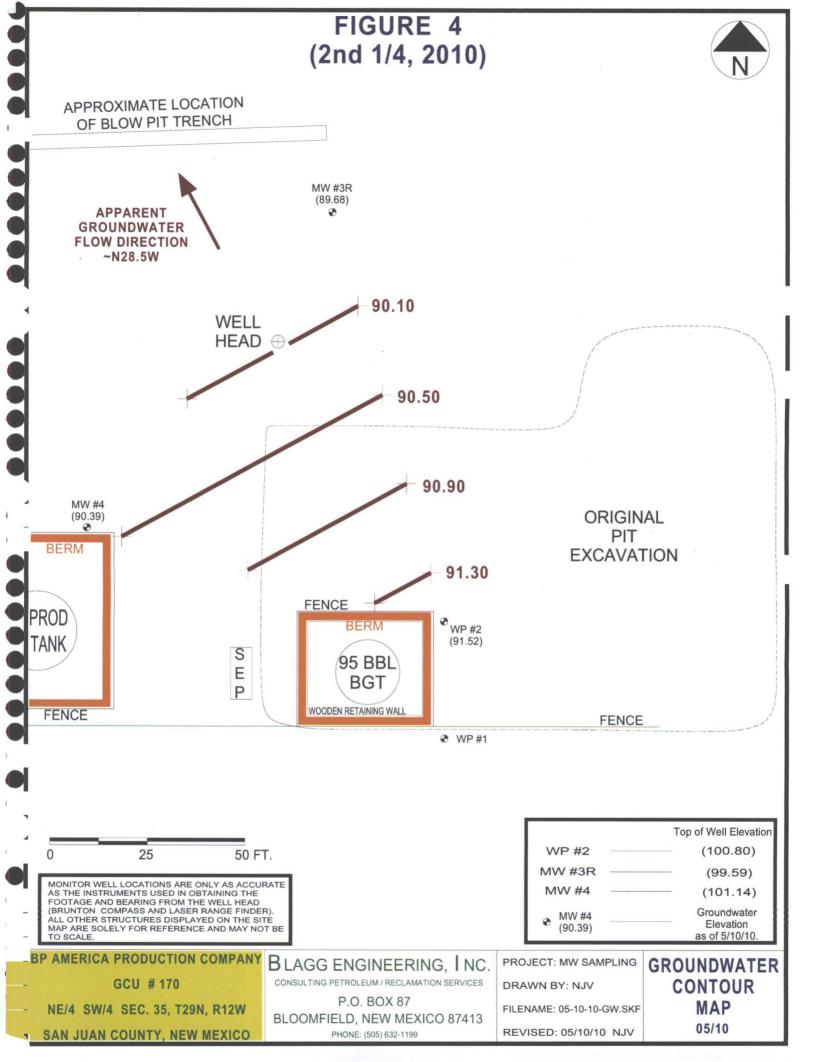
3) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10).

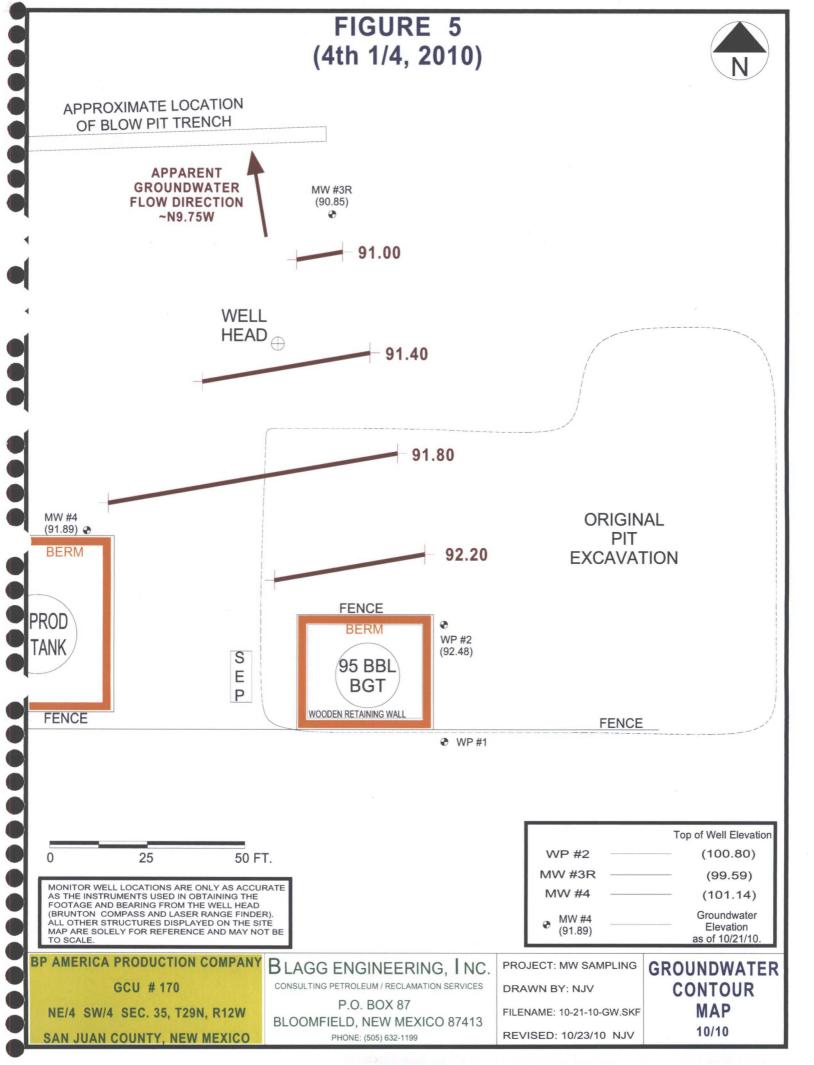
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BLAGG ENGINEERING, INC. MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

GCU #170 - SEPARATOR PIT UNIT K, SEC. 35, T29N, R12W

Date : May 19, 2009

Filename : 05-19-09.WK4

SAMPLER : N J V

LABORATORY (S) USED : HALL ENVIRONMENTAL

PROJECT MANAGER :

	N	JI	
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V

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WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	[°] (ft)					(gal.)
WP-2	100.80	91.13	9.67	15.00	-	, · _	-	-	-
MW-3R	99.59	89.44	10.15	19.50	0810	7.38	1,400	12.7	4.50
MW-4	101.14	90.14	11.00	18.50	-	-	-	-	-
			INSTRUM	ENT CALIE	BRATIONS =	4.01/7.00/10.00	2,800		
				DAT	E & TIME =	05/16/09	0810		

NOTES: <u>Volume_of_water_purged_from_well_prior_to_sampling; V = pi X r2 X h_ X 7.48 gal./ft3) X 3 (wellbores).</u> (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW # 3R. Collected sample for BTEX per US EPA Method 8021B from MW # 3R only.

on-site	7:42	temp	55 F
off-site	8:16	temp	59 F
sky cond.	Mostly	sunny	
wind speed	0 - 5	direct.	North

Date: 08-Jun-09	ļ
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Hall Environmenta	l Analysis	Laboratory,	Inc.
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Analyses		Result	PQL Qual Units	DF	Date Analyzed
Lab ID:	0905495-01		Matrix:	AQUEOUS	
Project:	GCU #170		Date Received:	5/27/2009	
Lab Order:	0905495		Collection Date:	5/26/2009 8	:10:00 AM
CLIENT:	Blagg Engineering		Client Sample ID:	MW-3R	,

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES	<u> </u>				Analyst: DAM
Benzene	150	10	µg/ L	10	6/6/2009 8:14:13 PM
Toluene	73	. 1.0	µg/L	1	6/5/2009 6:22:16 PM
Ethylbenzene	13	1.0	, μg/L	1	6/5/2009 6:22:16 PM
Xylenes, Total	93	2.0	µg/L	1	6/5/2009 6:22:16 PM
Surr: 4-Bromofluorobenzene	116	65.9-130	%REC	1	6/5/2009 6:22:16 PM
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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

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Date	Time	Matrix	Sample Request ID	Container	Preservative			BTEX)-MTBE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)	2222
Dale	Time	WIALTIX	Sample Request ID	Type and #	Туре	agas	19≪	BTEX	втех	TPH N) HdT	EDB (8310 (RCRA	Anion	80811	8260E	8270 (Air Bu	נ כ
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0905495

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6/5/2009 7:23:20 PM

OA/OC SUMMARY REPORT

lient: 'roject:	Blagg Engine GCU #170	ering						Work	Order:
, Analyte		Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP	DLimit
lethod: EP/	A Method 8021B: Vo	latiles			,				
Sample ID: 5%	/IL RB		MBLK			Batch ID): R33978	Analysis Date:	6/5/20
Benzene		ND	µg/L	1.0	•				
Foluene		ND	μg/L	1.0					
Ethylbenzene		ND	µg/L	1.0				· .	
Xylenes, Total		ND	µg/L	2.0		•			
Jample ID: 10	ONG BTEX LCS	,	LCS			Batch IC): R33978	Analysis Date:	6/5/20
)enzene		19.32	µg/L	1.0	96.6	85.9	113		
Toluene		19.52	µg/L	1.0	97.6	86.4	113		
Ethylbenzene		19.52	µg/L	1.0	97.6	83.5	118		
Villen - Total		50.44		~ ~	00.4	00.4	100 '		

83.4 Xylenes, Total 59.44 µg/L 2.0 99.1 122 Sample ID: 100NG BTEX LCSD LCSD Batch ID: R33978 Analysis Date: 6/5/2009 7:53:53 PM Benzene 19.61 µg/L 1.0 98.0 85.9 113 1.49 27 Toluene 19.70 µg/L 1.0 98.5 86.4 113 . 0.918 19 Ethylbenzene 83.5 0.613 19.64 µg/L 1.0 98.2 118 10 Xylenes, Total 59.29 µg/L 2.0 98.8 83.4 122 0.253 13

Qualifiers:

Ε Estimated value

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Holding times for preparation or analysis exceeded

Н

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

27

	Sample	e Receipt C	hecklist	· .	
Client Name BLAGG			Date Receiv	ed:	5/27/2009
Work Order Number 0905495		·	Received b	y: TLS	toma
Checklist completed by:	·	5 07 Date	09	labels checked by:	
Matrix:	Carrier name:	UPS			
Shipping container/cooler in good condition?	,	Yes 🗹	No 🗌	Not Present	l
Custody seals intact on shipping container/cool	er?	Yes 🗹	No 🗌	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗍	No 🗌	N/A	
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed when relinquished and	received?	Yes 🗹	No 🗌		
Chain of custody agrees with sample labels?		Yes 🗹	No 🗌		
Samples in proper container/bottle?		Yes 🗹	No 🗌		
Sample containers intact?		Yes 🗹	No 🗔		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗌		
All samples received within holding time?		Yes 🗹	No 🗌 🗉		Number of preserved
Water - VOA vials have zero headspace?	No VOA vials sub	mitted	Yes 🗹	No 🗌	bottles checked for pH:
Water - Preservation labels on bottle and cap m	atch?	Yes	No 🗌	N/A 🗹	·
Water - pH acceptable upon receipt?		Yes 🗌	No 🗖	N/A 🗹	<2 >12 unless noted
Container/Temp Blank temperature?		4.9°	<6° C Accepta		below.
COMMENTS:			If given sufficien	nt time to cool.	
			_		
	· · ·				
					,
Client contacted	Date contacted:		Per	son 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

LABORATORY (S) USED : HALL ENVIRONMENTAL

GCU # 170 - SEPARATOR PIT UNIT K, SEC. 35, T29N, R12W

Date : December 28, 2009

SAMPLER: NJV

NJV

PROJECT MANAGER:

Filename : **12-28-09.WK4**

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)			,		(gal.)
WP-2	100.80	92.07	8.73	15.00	-	-	-	-	· -
MW-3R	99.59	90.14	9.45	19.50	1325	7.26	1,700	13.4	5.00
MW-4	101.14	91.00	10.14	18.50	-	-	-	-	-
			INSTRUM	ENT CALIE	BRATIONS =	4.01/7.00/10.00	2,800		·
						12/28/09	1320		

NOTES: <u>Volume of water purged from well prior to sampling</u>: $V = pi X r^2 X h X 7.48 gal./ft3) X 3$ (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2 "...

Excellent recovery in MW # 3R. Collected sample for BTEX per US EPA Method 8021B from MW # 3R only.

on-site	12:55	temp	29 F
off-site	1:35	temp	31 F .
sky cond.	Mostly	cloudy	
wind speed	0 - 10	direct.	E.

CLIENT: Blagg Engineering Client Sample ID									
Lab Order:	0912560			Collection Dat	te: 12/28/200	9 1:25:00 PM			
Project:	GCU #170	Date Received: 12/29/2009							
Lab ID:	0912560-01		-	Matri	ix: AQUEOL	JS			
Analyses		Result	PQL	Qual Units	DF	Date Analyzed			
EPA METHOD	8021B: VOLATILES					Analyst: NSB			
Benzene		77	1.0	µg/L	1	12/31/2009 1:36:33 AM			
Toluene		44	1.0	μg/L	1	12/31/2009 1:36:33 AM			
Ethylbenzene		8.6	1.0	µg/L	1	12/31/2009 1:36:33 AM			

2.0

65.9-130

µg/L

%REC

50

104

Hall Environmental Analysis Laboratory, Inc.

Date: 04-Jan-10

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12/31/2009 1:36:33 AM

12/31/2009 1:36:33 AM

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

* 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

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Date	Time	Matrix	Sample Request ID	Container	Preservative			4	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA OF PAH)	KCKA 8 Metals Anions (F,CI,NO ₃ ,NO ₃ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
Dale				Type and #	Туре			ETEX	Ĕ	H	H	B	010		81	260	270				Ē
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Date:	Time:	Relinquish	ed by:	Received by:	U	Date -	Time										-				
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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.

2

QA/QC SUMMARY REPORT

	g Engineering #170								Work	Order:	0912560
Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLim	it Qual
Nethod: EPA Method 8	021B: Volatiles										
Sample ID: 5ML RB		MBLK				Batch ID:	R36771	Analys	sis Date:	12/30/200	9 8:55 <mark>:29</mark> AM
Benzene	ND	µg/L	1.0	1.1							
Toluene	ND ·	µg/L	1.0							•	
Sthylbenzene	ND	µg/L	1.0	•							
≺ylenes, Total	ND	µg/Ĺ	2.0				Ŧ				
Sample ID: 100NG BTEX	LCS	LCS				Batch ID:	R36771	Analys	sis Date:	12/30/200	9 7:32:46 PM
lenzene	20.55	µg/L	1.0	20	0	103	85.9	113			
Toluene	21.01	µg/L	1.0	20	0	105	86.4	113			
Ethylbenzene	20.64	µg/L	1.0	20	0.1	103	83.5	118			
Xylenes, Total	62.32	µg/L	2.0	60	0	104	83.4	122			
Sample ID: 100NG BTEX	LCSD	LCSD		•		Batch ID:	R36771	Analys	is Date:	12/30/200	9 8:03:02 PM
denzene	19.64	µg/L	1.0	20	0	98.2	85.9	113	4.51	27	
Toluene	19.63	µg/L	1.0	20	0	98.2	86.4	113	6.75	19	
Sthylbenzene	[`] 19.16	µg/L	1.0	20	0.1	95.3	83.5	118	7.45	10	
Xylenes, Total	58.67	µg/L	2.0	60	0	97.8	83.4	122	6.04	13	

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

•	Sample	Receipt Cl	necklist		
Client Name BLAGG	\cap	* •	Date Receiv	ed:	12/29/2009
Work Order Number 0912560			Received b	y: ARS	
Checklist completed by:	~}	122 Date	909 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/coole	r?	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 \Box		
Sample containers intact?		Yes 🗹	No		
Sufficient sample volume for indicated test?		Yes 🗹	No 🗍		
All samples received within holding time?		Yes 🗹	No 🗌		Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subr	nitted 🔲	Yes 🗹	No 🗌	bottles checked for pH:
Water - Preservation labels on bottle and cap ma	atch?	Yes 🗌	No 🗌	N/A 🗹	
Water - pH acceptable upon receipt?		Yes 🗍	No 🗔	N/A 🔽	<2 >12 unless noted below.
Container/Temp Blank temperature?		2.8°	<6° C Accepta		
COMMENTS:			If given sufficie	nt time to cool.	
	,				
Client contacted	Date contacted:		Pei	son contacted	
Contacted by:	Regarding:				· ·
Comments:					
r					·······
<u> </u>	· ······		· · · · · · · · · · · · · · · · · · ·		
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Corrective Action			•		· · · · · · · · · · · · · · · · · · ·
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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

LABORATORY (S) USED : HALL ENVIRONMENTAL

GCU #170 - SEPARATOR PIT UNIT K, SEC. 35, T29N, R12W

Date : May 10, 2010

SAMPLER : N J V

PROJECT MANAGER :

NJV

Filename	:	05-1	10)-1).WK4
	-	-	_		

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
、 #	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
WP-2	100.80	91.52	9.28	15.00	-	_	-	-	-
MW-3R	99.59	89.68	9.91	19.50	0925	7.35	1,400	13.3	4.75
MW-4	101.14	90.39	10.75	18.50	-	- 、	-	÷	-
			INSTRUM	ENT CALIE	BRATIONS =	4.01/7.00/10.00	2,800		·
				DAT	E & TIME =	05/10/10	0915		

NOTES : <u>Volume of water purged from well prior to sampling</u>; $V = pi X r^2 X h X 7.48 gal./ft3) X 3 (wellbores)$. (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Excellent recovery in MW #3R. Collected sample for BTEX per US EPA Method 8021B from MW # 3R only.

o'n-site	8:40	temp	49 F
off-site	9:35	temp	52 F
sky cond.	Sunny / partly	cloudy	· /
wind speed	10 - 20	direct.	W - WSW

CLIENT:	Blagg Engineering	Blagg Engineering Client Sample ID: MW #3R										
Lab Order:	1005290	·		Collection Dat	e: 5/10/201	0 9:25:00 AM						
Project:	GCU #170			Date Receive	d: 5/12/201	0 ·						
Lab ID:	1005290-01	Matrix: AQUEOUS										
Analyses	•	Result	PQL	Qual Units	DF	Date Analyzed						
EPA METHOD	8021B: VOLATILES					Analyst: NSE						
Benzene		130	.10	µg/L	10	5/21/2010 1:05:05 PM						
Toluene		72	1.0	µg/L	1	5/20/2010 5:15:41 PM						
Ethylbenzene		12	1.0	µg/L	1	5/20/2010 5:15:41 PM						
Xylenes, Total		110	2.0	µg/L	1	5/20/2010 5:15:41 PM						
Surr: 4-Brom	ofluorobenzene	~ 1 03	65.9-130	%REC	1	5/20/2010 5:15:41 PM						

Date: 26-May-10

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

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				Project Name	ə:		· · ·	1 🖢													211	N	
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Phone #	<u> </u>	505 +	632-1199	-		· ·			16	я. 50 Г)5-34	10-3:					-345- Iuesi	-4107 t					
email or				Project Mana	ader:		9.1		<u></u>	el)							· - 1						٦
QA/QC F	Package:		· · · · · · · · · · · · · · · · · · ·	NEL Sampler: //	SON VI	ELEZ		$\frac{1}{1MB^{2}}$ (8021 β	TPH (Gas only)	(Gas/Diesel)					04,SO	CB's	 .						
Stan			Level 4 (Full Validation)	<u> </u>	1	,/		B 3 (<u> </u> 위	Gae) ₂ ,P(32 P				1.	i I		
Accredit		Other	۲ <u></u>	Sampler: //	Hecson 1	VELEL			直	15B (8.1))4.1) (1	AH)		3, NO	/ 80£		F		i I		1	ŝ
	(Type)			Sample Tem	A CAR SHOW AND A COMMENDATION	39			н Н Н) 80 1	d 41	od 50	or P	tals	N,	ides	3	Ì					٤
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		No. 2910	ETEX)-MTBE	BTEX + MTBE	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	-				Air Bubbles (Y or N)
ilolro	0925	WATER	MW #3R	2-40m	HUF		1	$\overline{\mathbf{V}}$												\square			Ì
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Date: 11 (10 Date:	Time: 1615 Time:	Relinquishe	dan Vif	Received by:) 10:15	Date 5 Date	Time	Ren -	marks	5:			•	·	、								

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

QA/QC SUMMARY REPORT

	lagg Engineering CU #170								Work	Order:	1005290
Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EPA Metho	od 8021B: Volatiles						•				
Sample ID: 5ML RB		MBLK				Batch ID:	R38838	Analys	is Date:	5/20/2010	9:10:09 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:	R38870	Analysi	is Date:	5/21/2010	9:16:27 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 B1	TEX LCS	LCS				Batch ID:	R38838	Analysi	s Date:	5/20/2010	8:48:11 PM
Benzene	20.66	µg/L	1.0	20	0	103	87.9	121			
Toluene	19.36	μg/L	1.0	20	0	96.8	83	124			
Ethylbenzene	19.10	μg/L	1.0	20	0.134	94.8	8 1.7	122	•		
Xylenes, Total	59.26	µg/L	2.0	60	0	98.8	85.6	121			
Sample ID: 100NG BT	TEX LCSD	LCSD				Batch ID:	R38838	Analysi	s Date:	5/20/2010	9:18:30 PM
Benzene	20.59	μg/L	1.0	20	0	103	87.9	121	0.330	14.6	
Toluene	19.61	µg/L	1.0	20	0	98.1	83	124	1.29	18	•
Ethylbenzene	19.55	µg/L	1.0	20	0.134	97.1	81.7	122	2.33	- 15.8	
Xylenes, Total	60.09	μg/L	2.0	60	0	1 0 0	85.6	121	1.39	15.9	•

Qualifiers:

Estimated value Е

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

- NC

Н

R

Holding times for preparation or analysis exceeded Non-Chlorinated

RPD outside accepted recovery limits

	Sample	Receip	t Chec	klist		
Client Name BLAGG				Date Rec	elved:	5/12/2010
Work Order Number 1005290)	ļ		Receive Sample	d by: ARS	
Checklist completed by:)	-5	211 Date			Initials
Matrix:	Carrier name:	Greyhou	und			
Shipping container/cooler in good condition?		Yes 🗹		No 🗌	Not Present	
Custody seals intact on shipping container/cool	er?	Yes 🗹		No 🗌	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗌	Ì	No 🗌	N/A	
Chain of custody present?	·	Yes 🗹	l	No 🗌		
Chain of custody signed when relinquished and	received?	Yes 🗹		No 🗌		
Chain of custody agrees with sample labels?	Ţ,	Yes 🗹		No 🗌		
Samples in proper container/bottle?		Yes 🗹		No 🗌		•
Sample containers intact?		Yes 🗹		No 🗌		
Sufficient sample volume for indicated test?		Yes 🗹		No 🗌		
All samples received within holding time?		Yes 🗹		No 🗌		Number of preserved
Water - VOA vials have zero headspace?	No VOA vials subn	nitted	•	res 🗹	No 🗌	bottles checked for pH:
Water - Preservation labels on bottle and cap m	atch?	Yes 🗌		No 🗌	N/A 🗹	
Water - pH acceptable upon receipt?		Yes 🗌	·	Νο 🗔	N/A 🗹	<2 >12 unless noted below.
Container/Temp Blank temperature?		3.4°	•	°C Acce		Delow.
COMMENTS:			lf g	iven suffi	cient time to cool.	, ,
				===		
Client contacted	Date contacted:				Person contacted	
Contacted by:	Regarding:					
Comments:						
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Corrective Action	· · · · · · · · · · · · · · · · · · ·					

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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT :	<u>BP</u>	AMERICA	<u>_PROD.</u>	<u>CO.</u>

CHAIN-OF-CUSTODY # : N/A

LABORATORY (S) USED : HALL ENVIRONMENTAL

GCU #170 - SEPARATOR PIT UNIT K, SEC. 35, T29N, R12W

Date : October 21, 2010

SAMPLER :

NJV **PROJECT MANAGER:** NJV

Filename : 10-21-10.WK4

							-		
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
WP-2	100.80	92.48	8.32	15.00	-	0 -	-	-	-
MW-3R	99.59	90.85	8.74	19.50	0950	7.25	1,500	16.0	5.25
MW-4	101.14	91.89	9.25	18.50	-	-		-	-
	_		INSTRUM		RATIONS =	4.01/7.00/10.00	2,800		
				DATI	E & TIME =	10/21/10	0940		

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW #3R. Collected sample for BTEX per US EPA Method 8021B from MW # 3R only.

on-site	8:50	temp	47 F
off-site	10:00	temp	50 F
sky cond.	Sunny / pa	rtly cloudy	
wind speed	0 - 5	direct.	E - NE

Date: 29-Oct-10

	021B. VOLATILES				Analyst: NSI
Analyses		Result	PQL Qual Units	DF	Date Analyzed
Lab ID:	1010A01-01		Matrix:	AQUEOUS	
Project:	GCU #170		Date Received:		. ,
Lab Order:	1010A01		Collection Date:	10/21/2010	9:50:00 AM
CLIENT:	Blagg Engineering		Client Sample ID:	MW #3R	· · · ·

EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	87	5.0	µg/L	5	10/28/2010 2:59:43 AM
Toluene	46	5.0	µg/L	- 5	10/28/2010 2:59:43 AM
Ethylbenzene	12	5.0	µg/L	5	10/28/2010 2:59:43 AM
Xylenes, Total	86	10	µg/L	5	10/28/2010 2:59:43 AM
Surr: 4-Bromofluorobenzene	107	81.3-151	%REC	5	10/28/2010 2:59:43 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCI. Maximum Contaminant Level

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email or		<u> </u>		Project Mana	ider:		<i>7:5</i>	6	5	el)						-						
QA/QC F	Packagé:		Level 4 (Full Validation)	Sampler: A	VELSON V	EEZ		<u>тМв'</u> с (8021)	(Gas on	as/Dies	-				PO4,SO	PCB's						
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		Other	r	On Ice 2006	-¥Yest	E Nov		2 L I S	+	015	418	504	PA	s	0°	3 / Se		(A				o
Date	Time	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type		AT No-	BTEX -MIBE-	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
10	6950	WATER	MW # 3R	40m1-2	HCI J	-	-1	$\overline{\checkmark}$	\square													
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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.

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QA/QC SUMMARY REPORT

lient: 'roject:	Blagg Engineering GCU #170						 		Work	Order:	1010A01
- Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimi	it Qual
	ethod 8021B: Volatiles										
Sample ID: 5ML F	RB .	MBLK				Batch ID:	R41813	Analysis	Date:	10/27/2010	0 9:16:43 AM
Jenzene	ND	µg/L	1.0		•						
oluene	ND	µg/L	1.0								
Thylbenzene	ND	μg/L	1.0								
∧ylenes, Total	ND	µg/L	2.0								
ample ID: 100N0	G BTEX LCS	LCS				Batch ID:	R41813	Analysis	Date:	10/27/2010	12:52:24 PM
enzene	20.85	µg/L	1.0	20	0	104	84.7	118			
Toluene	21.96	µg/L	1.0	20	0	110	82	123			
_thylbenzene	22.04	µg/L	1.0	20	0.096	110	83	118			
ylenes, Total	. 69.60	µg/L	2.0	60	0	116	85.4	119			

Qualifiers:

З Estimated value

J Analyte detected below quantitation limits

Holding times for preparation or analysis exceeded Non-Chlorinated NC

2

Н

Sample	Receipt Ch	ecklist		
Rient Name BLAGG		Date Received	:	10/22/2010
Vork Order Number 1010A01	•	Received by:	MLW	
Checklist completed by:	$\frac{10}{22}$	Sample ID Ial	bels checked by:	Initials
Matrix: Garrier name:	Priority US M	ail		
hipping container/cooler in good condition?	Yes 🗹	No 🗔	Not Present	
ustody seals intact on shipping container/cooler?	Yes 🗹	No 🗖	Not Present	Not Shipped
Justody seals intact on sample bottles?	Yes 🗌 .	No 🗔	N/A	
Chain of custody present?	Yes 🗹	No 🗔		
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗆		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗖	·,	
Samples in proper container/bottle?	Yes 🗹	No 🗆		
Sample containers intact?	Yes 🗹	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆		
All samples received within holding time?	Yes 🗹	No 🗍		Number of preserved
Vater - VOA viais have zero headspace? No VOA viais subn	nitted 🔲 🐋	Yes 🗹	No 🗌	bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Yes 🗹	No 🗌	N/A 🗍	
Water - pH acceptable upon receipt?	Yes 🔽	No 🗋	N/A	<2 >12 unless noted below
Water - pH acceptable upon receipt? Container/Temp Blank temperature?		No 🗍		<2 >12 unless noted below.
	2.7°		,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable	,	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	
Container/Temp Blank temperature?	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature?	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Contacted by: Regarding:	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Contacted by: Contacted by: Regarding: Comments:	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Contacted by: Contacted by: Regarding: Comments:	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Contacted by: Contacted by: Regarding: Comments:	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Contacted by: Contacted by: Corrective Action	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.
Container/Temp Blank temperature? COMMENTS: Client contacted Date contacted: Vontacted by: Regarding: Jomments:	2.7°	<6° C Acceptable If given sufficient t	ime to cool.	below.

3

x