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

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	eatior	and Co	orrective A	ction	1	-6	7	
						OPERATOR M Initial Report M Final Report						
Name of Co						Contact: Ste						
Address: 20				M 87401		Telephone No.: 505-326-9497						
Facility Nar	ne: Gutier	rez Gas Con	B 001			Facility Type: Natural gas well						
Surface Ow	ner: Privat	e		Mineral C	wner: l	Federal			API No	. 30045088	08	
	LOCATION OF RELEASE											
Unit Letter B	Section 4	Township 29N	Range 09W	Feet from the 1,050	North/ North	Feet from the lorth Line Feet from the lorth East/West Line County: San Juan East East County: San Juan East Eas					n Juan	
	Latitude 36.758165° Longitude -107.782619°											
				NAT	URE	OF REL	EASE					
Type of Rele							Release: Unknov			Recovered: no		
Source of Re	lease: Leaki	ing flow line	ssociated	with condensate t	ank	Date and H Unknown	lour of Occurrence	e:	Date and 2012	Hour of Disc	overy: May 31,	
Was Immedia	ate Notice C		Yes 🗵	No Not Re	equired	If YES, To	Whom?					
By Whom?						Date and H	lour:					
Was a Water	course Reac	hed?	Yes 🛛	No		If YES, Vo	olume Impacting t	he Wate	ercourse. 0	IL CONS.	DIV DIST. 3	
If a Watercou	irse was Imp	pacted, Descr	ibe Fully.*							NOV 1	5 2016	
				Taken.* Soil im roundwater moni		rived from a	leaking flow line	associat	ted with a c	ondensate pro	oduction tank	
Soil samples groundwater which are like	confirm exc from the co- ely the resul	cavation extendensate releaselt of background	ts were rease as there as the concen	ached and impacte e are any BTEX in trations common	ed soils mpacts. in the Sa	removed from Constituents an Juan Basir		dwater i indards	monitoring include sul	indicates no i fates, nitrates	impacts to , iron and TDS	
regulations al public health should their o	I operators or the envir operations h nment. In a	are required to conment. The ave failed to a ddition, NMC	acceptance acceptance adequately CD accep	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	otifications ar NMOCD ma contamination	knowledge and und perform correctarked as "Final Room that pose a three the operator of the correction	tive act eport" d eat to gr	ions for rele loes not reli round water	eases which neve the opera , surface water	nay endanger ator of liability er, human health	
Signature:							OIL CONS		Ann	DIVISIO	N. A.	
Printed Name	: Steve Mo	skal			1	Approved by	Environmental S ₁	pecialis	t:	7/~		
Title: Field E	nvironment	al Coordinato	r		1	Approval Dat	e: 2/8/17]	Expiration 1	Date:		
E-mail Addre	ss: steven.n	noskal@bp.co	m		(Conditions of	Approval:			Attached		
Date: Novem				ne: 505-326-9497	_	Sample		-6				
NCS 170	3959	ts If Necess 143	Fe Ver	or Gen (They	~ /C	Ation/An Kajound. no complè	Gold	to			
			Ad	Loughtin	-1L	1 1 Sue	Kigiound.	\sum_{M}	pmi+			
					,	" And	~ while	2 200.				

bp



BP America Production Company

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

November 14, 2016

Mr. Cory Smith Environmental Specialist NMOCD District III Office 1000 Rio Brazos Road Aztec, NM

Re: Request for Permanent Closure

Gutierrez Gas Con B 001

API No. 30-045-08808; Unit letter B, Section 04, T29N, R09W; GPS: 36.758165°, -107.782619°

Dear Mr. Smith:

BP America Production Company has retained Blagg Engineering, Inc. to conduct environmental monitoring of groundwater at the Gutierrez Gas Con B 001. The site is located on private property.

Impacts were discovered in May of 2012 with a follow up excavation in August 2012. Groundwater impacts were suspected during the excavation activities. Six groundwater monitoring wells were installed in August of 2013 to determine groundwater impacts. The groundwater was sampled had elevated sulfate, iron and total dissolved solids. Produced water from an adjacent well, Jaquez Gas Com B 003E, drilled into the same formation was sampled for comparison. The results of the comparison sample demonstrated that the elevated sample results are likely derived from background concentrations.

The attached report requesting site closure demonstrates groundwater contaminants are elevated throughout the site and are consistent with background concentrations.

If you have any questions concerning this document, please contact either John Ritchie (john.ritchie@bp.com) or myself (steven.moskal@bp.com) at the address or phone number listed above. Thank you for your cooperation and assistance.

Sincerely,

Steve Moskal

Field Environmental Coordinator



BP America Production Company

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

November 14, 2016

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The attached report requesting site closure demonstrates groundwater contaminants are elevated throughout the site and are consistent with background concentrations.

If you have any questions concerning this document, please contact either John Ritchie (<u>john.ritchie@bp.com</u>) or myself (steven.moskal@bp.com) at the address or phone number listed above. Thank you for your cooperation and assistance.

Sincerely,

Steve Moskal

Olan Muy)

Field Environmental Coordinator

BP AMERICA PRODUCTION CO.

REMEDIATION REPORT

GUTIERREZ GC B 001 API #: 300-45-08808 (B) SECTION 4, T29N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR:
NEW MEXICO OIL CONSERVATION DIVISION
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410

FEBRUARY 2016

PREPARED BY: BLAGG ENGINEERING, INC.

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

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BP AMERICA PRODUCTION COMPANY

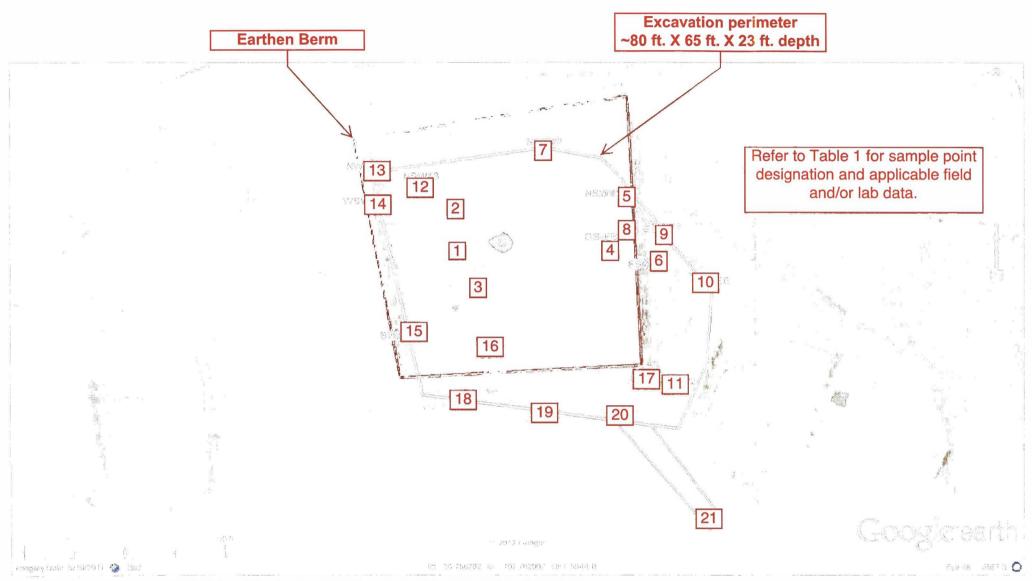
REMEDIATION OF UNIDENTIFIED SOURCE(S) GUTIERREZ GC B # 1

API#: 300408808

Legal Description: (Unit Letter B, Sec. 4, T29N, R9W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

- 1. **May 31, 2012**: Impacted soils were discovered during removal of subsurface piping west of two (2) 300 barrel production tanks. Preliminary investigation commenced with the advancement of five (5) test holes (see field report page 1 of 7).
- 2. **August 2012**: Remediation of impacted soils via excavation initiated and completed (see Aerial Map #1, Figure 1, and field report pages 2 through 7 of 7). Soils sampling were conducted on August 17th and 24th, September 5th, 10th, 17th, 18th, 20th, and 26th. Potential groundwater was observed at approximately twenty-one (21) feet (ft.) below grade (b.g.).
- 3. August 2013: Six (6) groundwater monitor wells were installed on August 2nd, 5th, and 6th (see Aerial Map #2, Figure 1, and attached Boring Logs). Water level gauging and initial development on the monitor wells were completed on August 12th. Groundwater levels below grade were measured between 17.5 and 22.7 ft. b.g. Monitor well casing tops were surveyed on August 13th. Monitor well sampling for laboratory analytical testing was completed on August 15th.
- 4. January 20, 2016: Completed sampling of produced water from nearby Jaquez Gas Com B 003E well site (API #: 3004524217; Legals: Unit Letter D, Sec. 4, T29N, R9W) for anion/cation balance per US EPA Method 300.1 (total dissolved solids and sulfate).
- 5. **February 2, 2016**: BP received final laboratory analytical report.



BP - Gutierrez GC B #1 - Historical Release of Unidentified Origin Unit letter B, Section 4, T29N, R9W

Well head: 36.758165, -107.782619

Imagery Date: 06/10/2011

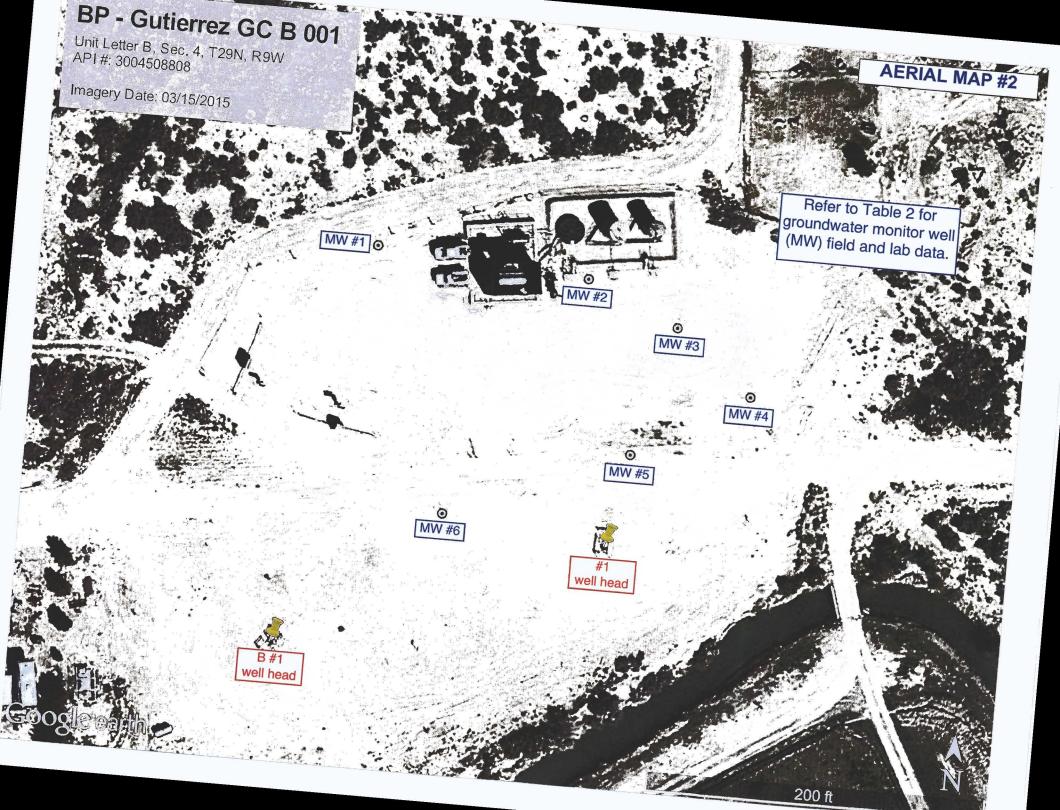
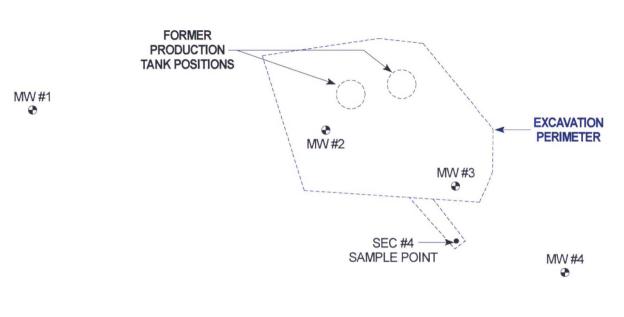


FIGURE 1





SUSPECTED GROUNDWATER FLOW DIRECTION

MW #5



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAPARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE. MAGNETIC DECLINATION USED ~ 10° E.

BP AMERICA PRODUCTION COMPANY

GUTIERREZ GC B# 1

NW/4 NE/4 SEC. 4, T29N, R9W

SAN JUAN COUNTY, NEW MEXICO

B LAGG ENGINEERING, I NC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS

DRAWN BY: NJV

80 FT.

FILENAME: GUTIERREZ GC B 1 MW-SM.SKF

DRAFTED: 12-18-2015



08/13

BP AMERICA PRODUCTION COMPANY

Gutierrez GC B #1

Unit Letter B, Section 4, T29N, R9W - API Number: 30-045-08808

Cleanup of Historical Release of Unidentified Origin

SAMPLE ID & MAP NUMBER SAMPLE DATE		SAMPLE DATE	SAMPLE TIME	SAMPLING	FIELD OVM	TPH -	Benzene	BTEX -	Comments
				COLLECTION	READING (ppm)	cumulative (ppm)	(ppm)	cumulative (ppm)	
TH1 @ 10'	1	05/31/12	0855	GRAB	1,809	2,160	ND	84.1	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
TH2 @ 9'	2	05/31/12	0933	GRAB	0.0	ND	ND	ND	
TH3 @ 10'	3	05/31/12	0950	GRAB	796	2,200	ND	4.88	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
TH5 @ 10'	4	05/31/12	1016	GRAB	0.0	ND	ND	ND	
GS-NSW#1 @ 19'	5	08/17/12	1017	GRAB	0.0	ND	ND	ND	
GS-ESW @ 15'	6	08/17/12	1014	GRAB	0.0	<u> </u>	-	-	
GS-NSW#2 @ 20'	7	08/17/12	1022	GRAB	0.0	ND	ND	ND	
GS-NSW#2 @ 7'		08/17/12	1052	GRAB	0.0	-	-	-	
GS-PB#1 @ 21'	8	08/21/12	0826	GRAB	207	-	-	-	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
GS-PB#1 @ 23'		08/21/12	0846	GRAB	0.0	ND	ND	ND	
GS-ESW#1 @ 16'	9	08/24/12	1200	GRAB	0.0	ND	-	-	
SEC @ 21'	10	09/05/12	1543	GRAB	234	-	-	-	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
SEC#2 @ 21'	11	09/10/12	0936	GRAB	182	-	-	-	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
SEC#2 @ 23'		09/10/12	0950	GRAB	12.1	-	-	-	
NSW#3 @ 21'	12	09/10/12	1008	GRAB	0.0	-	-	-	
NWC @ 20'	13	09/17/12	0925	GRAB	25.2	ND	ND	ND	
WSW @ 22'	14	09/17/12	0930	GRAB	20.2	ND	ND	ND	
SWC @ 21'	15	09/17/12	0938	GRAB	100.0	44	ND	0.19	
SSW @ 19'	16	09/17/12	0945	GRAB	256	5,900	ND	369	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
SEC#3 @ 21'	17	09/20/12	1044	GRAB	225	ND	ND	ND	
SSW#2 @ 23'	18	09/20/12	0925	GRAB	35.6	ND	ND	ND	
SSW#3 @ 20'	19	09/20/12	0939	GRAB	0.0	ND	ND	ND	
SSW#4 @ 20'	20	09/20/12	0943	GRAB	217.4	510	ND	1.70	Soils eventually excavated and transported to BP's Crouch Mesa Facilty
SEC#4 @ 20'	21	09/26/12	1114	GRAB	0.0	-	-	-	
SEC#4 @ 21'		09/26/12	1115	GRAB	0.0	ND	ND	ND	
	NMC	CD RELEASE C	LOSURE STAND	ARDS (soils) -	100	100	10	50	

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

ppm - Parts per million or milligram per kilogram (mg/Kg).

ND - Not detected at Reporting Limit.

NMOCD - New Mexico Oil Conservation Division.

Not available.

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993.

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA

DATE	TIME	READING
05/31/12	0924	52.2
08/17/12	1043	52.4
08/21/12	0836	53.1

DATE	TIME	READING
09/05/12	1345	54.0
09/10/12	1026	53.6
09/17/12	0957	53.8

DATE	TIME	READING
09/20/12	0959	53.4
09/26/12	1135	52.6

BP AMERICA PRODUCTION COMPANY

Gutierrez GC B #1

Unit Letter B, Section 4, T29N, R9W - API Number: 30-045-08808

Field & Laboratory Data from Groundwater Monitor Wells & Produced Water from Jaquez GC B 003E

		FIELD PARAMETERS									
SAMPLE ID	SAMPLE DATE	SAMPLE TIME	DEPTH TO WATER	TOTAL MW LENGTH	рН	Conductivity	Temperature	Volume Purged			
			(feet)	(feet)		(µmhos/cm)	(°Celcius)	(gallons)			
MW # 1	08/15/13	1315	25.22	36.61	7.42	1,500	17.4	5.50			
MW # 2	08/15/13	1530	22.03	31.52	7.16	1,900	17.8	4.75			
MW # 3	08/15/13	1445	21.38	31.50	7.28	1,800	17.7	5.00			
MW # 4	08/15/13	1400	20.41	30.50	7.48	2,000	17.4	5.00			
MW # 5	08/15/13	1140	20.01	31.28	7.29	1,200	17.4	5.50			
MW # 6	08/15/13	1225	20.96	31.09	7.32	1,500	17.8	5.00			
LP AGT Produced Water	01/20/16	1210	NA	NA	NA	NA	NA	NA			
			NMWQC	STANDARDS -	6 - 9						

LABORATORY PARAMETERS SAMPLE ID **Fluoride** Chloride Sulfate Nitrate-**TDS** Ethyl -Iron Benzene Toluene **Total Xylenes** Nitrite as N benzene (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ $(\mu g/L)$ 2,840 0.85 18 1,700 ND 1.8 ND ND MW # 1 ND ND 41 0.54 1.00 2,700 0.44 4,810 ND ND ND ND MW # 2 1.0 47 2,300 ND 13 4,330 ND ND ND ND MW #3 92 0.93 2,900 0.25 8.1 5,050 ND ND ND ND MW # 4 0.53 12 1,300 ND 1.4 2,420 ND ND MW # 5 ND ND 0.88 18 1,800 ND 0.85 3,460 ND ND ND MW # 6 ND 1.2 140 NA NA NA NA NA NA NA NA LP AGT Produced Water NMWQCC STANDARDS -1.6 250 600 10 1.0 1,000 10 750 750 620

Notes:

Depth to water measured from casing top of monitor well.

Groundwater standards are applied to values assigned in blue highlighted boxes or confirmed background levels, which ever is higher.

MW - Monitor well

μmhos/cm - Micromhos per centimeter

TDS - Total dissolved solids

mg/L - Milligram per Liter

μg/L - Microgram per liter

NA - Not Availble or Applicable

ND - Not detected at Reporting Limit

NMWQCC - New Mexico Water Quality Control Commission

P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199 MW # 1

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

40

CONTRACTOR: EQUIPMENT USED:

BORING LOCATION:

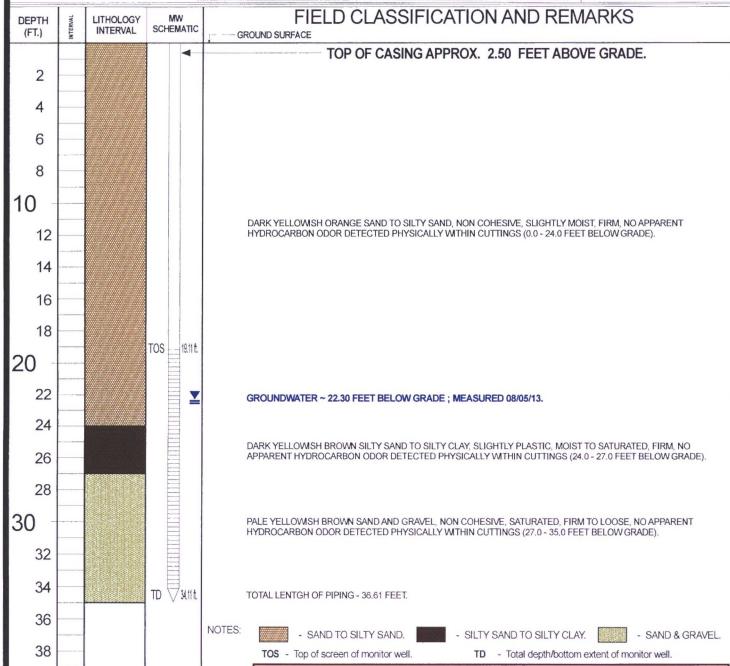
BP AMERICA PRODUCTION CO.

GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

239.5 FEET, N 11 E FROM WELL HEAD.



Monitor well consist of 2 inch PVC piping - casing from 2.50 feet above grade to 19.11 feet below grade, 0.020 slotted screen between

19.11 to 34.11 feet below grade, sand packed annular to 17.0 feet below grade, bentonite grout between 15.0 to 17.0 feet below grade,

DRAWING: GUTIERREZ GC B 1 MW-1 2013-08-02.SKF DATE: 12/17/13

DWN BY: NJV

cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

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

MW # 2

BORE/TEST HOLE REP

CLIENT: LOCATION NAME: CONTRACTOR:

EQUIPMENT USED:

BORING LOCATION:

BP AMERICA PRODUCTION CO.

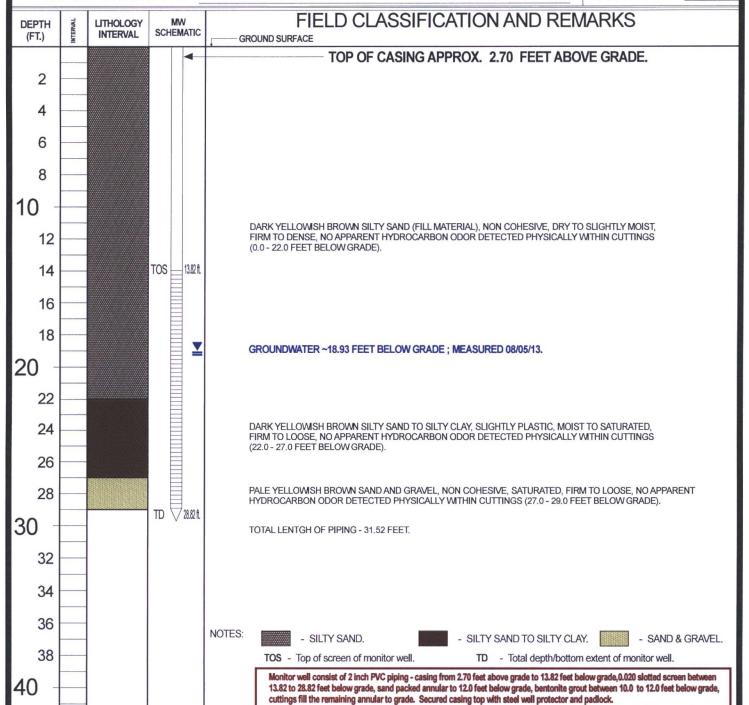
GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

282 FEET, N36.5E FROM WELL HEAD.

BORING #..... __ BH - 2 MW#..... PAGE #..... DATE STARTED 08/02/13 DATE FINISHED 08/02/13 OPERATOR..... KP LOGGED BY..... NJV



DRAWING: GUTIERREZ GC B 1 MW-2 2013-08-02.SKF DATE: 12/17/13 DWN BY: NJV

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

MW # 3

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

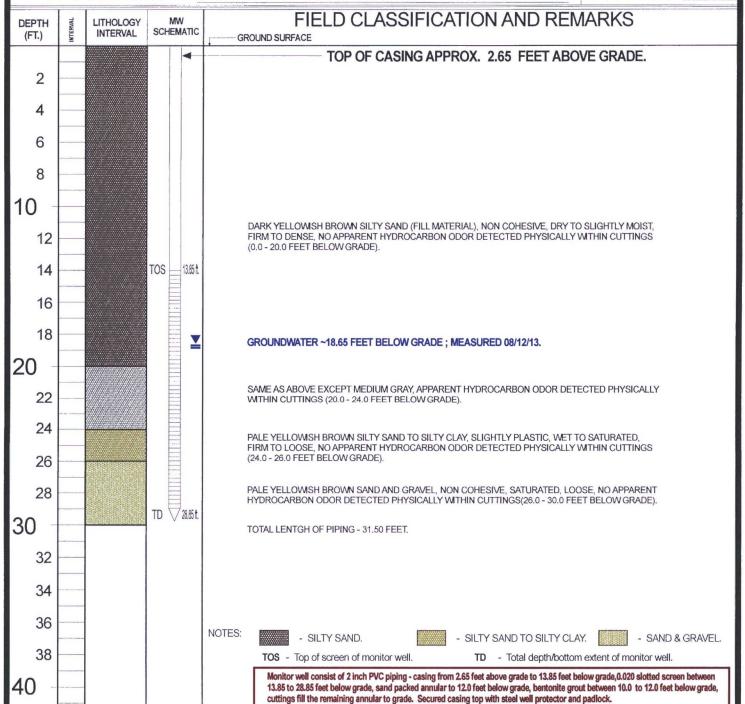
CONTRACTOR: EQUIPMENT USED: BORING LOCATION: BP AMERICA PRODUCTION CO.

GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

301 FEET, N47.5E FROM WELL HEAD.



DRAWING: GUTIERREZ GC B1 MW-3 2013-08-05,SKF DATE: 12/17/13 DWN BY: NJV

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

MW # 4

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME: CONTRACTOR:

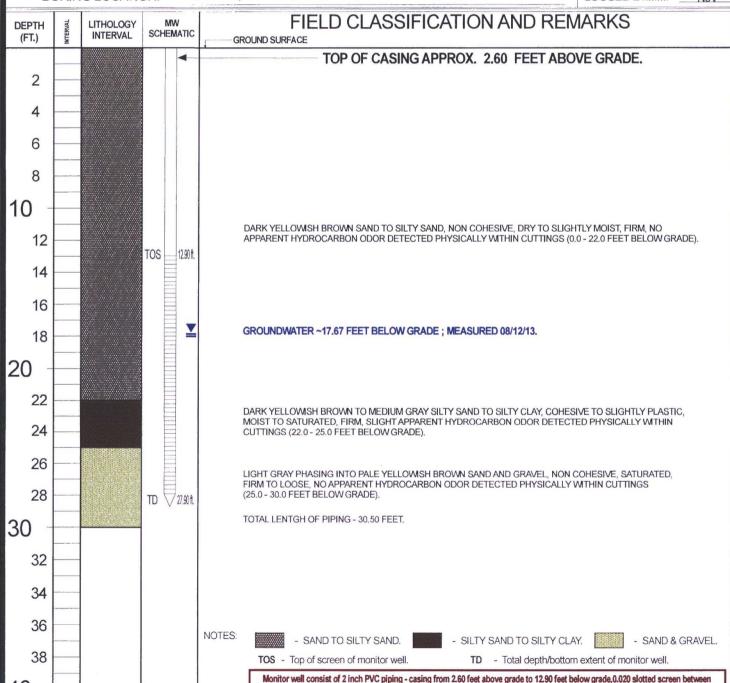
EQUIPMENT USED: BORING LOCATION:

BP AMERICA PRODUCTION CO.

GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

316 FEET, N58E FROM WELL HEAD.



12.90 to 27.90 feet below grade, sand packed annular to 11.0 feet below grade, bentonite grout between 9.0 to 11.0 feet below grade,

DRAWING: GUTIERREZ GC B 1 MW-4 2013-08-05.SKF DATE: 12/17/13 DWN BY: NJV

cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

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

MW # 5

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

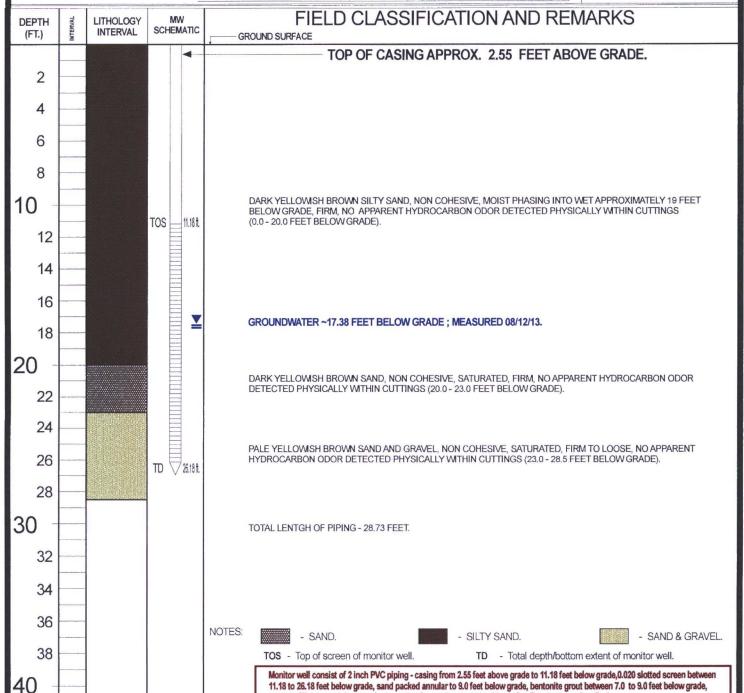
CONTRACTOR: EQUIPMENT USED: BORING LOCATION: BP AMERICA PRODUCTION CO.

GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

238 FEET, N57.5E FROM WELL HEAD.



cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

DRAWING: GUTIERREZ GC B 1 MW-5 2013-08-05.SKF | DATE: 12/17/13

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

MW#6

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME: CONTRACTOR: EQUIPMENT USED:

BORING LOCATION:

BP AMERICA PRODUCTION CO.

GUTIERREZ GC B # 1 API # 3004508808 UNIT B, SEC. 4, T29N, R9W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

126 FEET, N48E FROM WELL HEAD.

BORING #....... BH - 6.

MW #...... 6

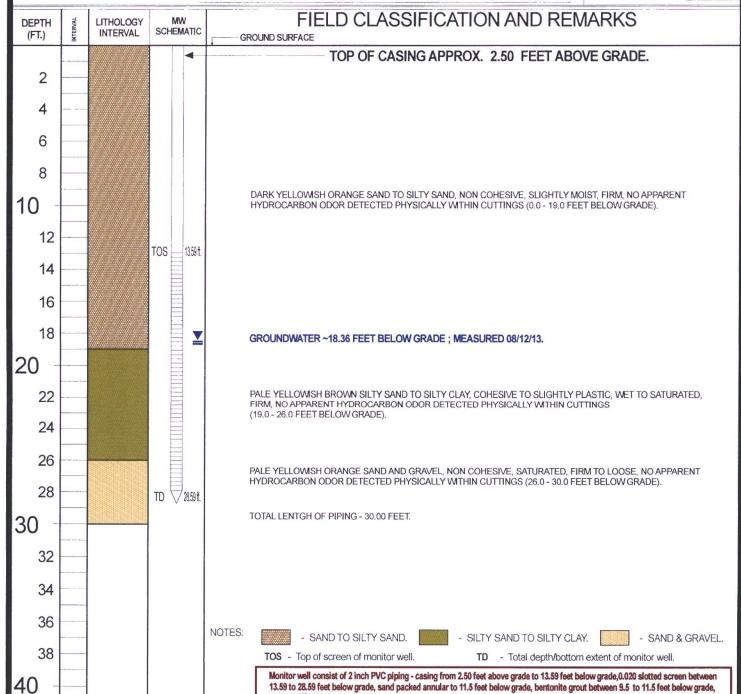
PAGE #..... 6

DATE STARTED 08/06/13

DATE FINISHED 08/06/13

OPERATOR...... KP

LOGGED BY...... NJV



cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

DRAWING: GUTIERREZ GC B 1 MW-6 2013-08-06,SKF | DATE: 12/17/13

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #: N/A

GUTIERREZ GC B # 1 LABORATORY (S) USED: HALL ENVIRONMENTAL

DEVELOPER / SAMPLER : N J V Date: August 15, 2013

PROJECT MANAGER: NJV Filename: Gutierrez GC B 1 mw log 08-15-13.xls

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	105.50	80.28	25.22	36.61	1315	7.42	1,500	17.4	5.50
2	102.21	80.18	22.03	31.52	1530	7.16	1,900	17.8	4.75
3	101.54	80.16	21.38	31.50	1445	7.28	1,800	17.7	5.00
4	100.46	80.05	20.41	30.50	1400	7.48	2,000	17.4	5.00
5	100.05	80.04	20.01	31.28	1140	7.29	1,200	17.4	5.50
6	100.95	79.99	20.96	31.09	1225	7.32	1,500	17.8	5.00
INSTRUMENT CALIBRATIONS =					4.01/7.00/10.00	2.800			

DATE & TIME = 08/15/13 0630

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 gal./ft. of water.

Comments or note well diameter if not standard 2 ".

UNIT B, SEC. 4, T29N, R9W

Monitor wells installed 08/02 to 08/06, 2013. Gauging & development completed on 08/12/13. Well top survey on 08/13/13.

Excellent recovery in all monitor wells. No physical indication of hydrocarbons within purged water observed prior to sample collection. Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing. Collected samples from all MW's for BTEX per US EPA Method 8021B & general chemistry parameters.

Top of casing MW #1 \sim 2.50 ft., MW #2 \sim 2.70 ft., MW #3 \sim 2.65 ft., MW #4 \sim 2.60 ft., MW #5 \sim 2.55 ft., MW #6 ~ 2.50 ft. below grade.

on-site	11:00 AM	temp	79 F
off-site	3:00 PM	temp	93 F
sky cond.		Sunny	-
wind speed	0 - 10	direct.	E - WNW

CLIENT: BP	BLAGG ENGI P.O. BOX 87, BLO	OMFIELD, NN		API #: 300)4508	808			
	(505) 6	32-1199		(if applicble):	Α				
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	ASE INVESTIGATION / O	THER:	PAGE #:	1 of	6			
SITE INFORMATION	I: SITE NAME: GUTIERRE	Z GC B # 1		DATE STARTED:	05/3	1/12			
QUAD/UNIT: B SEC: 4 TWP:	29N RNG: 9W PM: N	M CNTY: SJ	ST: NM	DATE FINISHED:					
1/4 -1/4/FOOTAGE: 1,050'N / 1,84		FEDERAL / STATE /	1	ENVIRONMENTAL SPECIALIST(S):	NJ	IV			
REFERENCE POINT	LEASE # FROD. I CRIMATION. DIX CONTINUOR. MISF - J.SHAHAN								
Gutierrez GC #1 well head		RD.: <u>36.758</u> 334 X 107.78197	3165 X 107.782	619 GL ELE	=v.: _5,	626'			
2) Western Production Tank		335 X 107.782027		ARING FROM W.H.:	173.5	.N5W			
3)	GPS COORD.:				(from #1 w				
4)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:					
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB	USED: HAL	L			OVM READING			
1) SAMPLE ID: TH1 @ 10'	SAMPLE DATE: 05/31/12	2077		5B/8021B/300.0	(CI)	1,809			
2) SAMPLE ID: TH2 @ 9'	SAMPLE DATE: 05/31/12	SAMPLE TIME: 0933	LAB ANALYSIS: 801	5B/8021B/300.0) (CI)	0.0			
3) SAMPLE ID: TH3 @ 10'	SAMPLE DATE: 05/31/12	SAMPLE TIME: 0950		5B/8021B/300.0		796			
4) SAMPLE ID: TH5 @ 10'	SAMPLE DATE: 05/31/12	SAMPLETIME: 1016	LAB ANALYSIS: 801	5B/8021B/300.0	(CI)	0.0			
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / C	CLAY / GRAVEL / OTI	HER					
	BROWN TO BLACK								
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC		PLASTICITY (CLAYS): NON PL DENSITY (COHESIVE C							
MOISTURE: DRY SLIGHTLY MOIST MOIST/W		HC ODOR DETECTE				AND			
SAMPLE TYPE: GRAB COMPOSITE - #		DISCOLORED SOILS (ONLY.						
DISCOLORATION/STAINING OBSERVED 5 - 8 ft. b.g., TH4 between 1.5 - 6 ft. b.g., OLI	YES NO EXPLANATION - MEDIUM G				f of TH3 be	tween			
ANY AREAS DISPLAYING WETNESS: YES / NO		10 to tage (with apparent	. Hydrodanbon odor da	ricoicuj.					
	BSERVED AND/OR OCCURRED : YES								
ADDITIONAL COMMENTS: TH1@4.5' OV CURRENLY UNKNOWN, BUT ESTIMATED I		N BERM TO IRRIGATION	DITCH APPROXIMATE	ELY 220 FT., DEPTH	TO GROUN	DWATER			
SOIL IMPACT DIMENSION ESTIMATION:	?ft. Xft.			TMATION (Cubic Ya	The state of the s	?			
	EAREST WATER SOURCE: <1,000' NEA	AREST SURFACE WATER:	<1,000' NMOC	D TPH CLOSURE STO	D: <u>100</u>	ppm			
SITE SKETCH		PLOT PLAN circ	le: attached 0VM	CALIB. READ. = 52	.2 ppm	RF = 0.52			
	DDOD			CALIB. GAS =10		1			
	PROD. TANKS		N TIME	9:24 ampm	DATE: 05	/31/12			
NO DISCOLORATION OBSERVED		NO DISCOLORATION OBS	SEDI/ED	MISCELL.	. NOT	ES			
TO TOTAL DEPTH OF 10 FT. B.G.		TO TOTAL DEPTH OF 10	1 14	O: N141027	78				
LATERAL EXTENT	TH4		1 -	0#: 75977	" 507				
OF DISCOLORED SOIL	16' X TH5								
TUA	14.5'	NECOLOBED AT 1 5 B G		J#: Z2-0006 ermit date(s):	NA				
TH1 ——	₹ S	DISCOLORED AT 1.5 B.G. FRONG HYDROCARBON	ODOR	CD Appr. date(s):	NA				
TH		(NO SAMPLES COLLECT	ED) Tan	ık					
то	PIPING			BGT Sidewalls Visi	ible: Y / N	ı			
WELL HEAD)	(- S.P.D.	BGT Sidewalls Visi					
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION OF THE PROPERTY OF THE PROPER				BGT Sidewalls Visi					
	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DE E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB		WALL, NA-NOT	lagnetic declinat	ion: 10	<u> </u>			
NOTES: GOOGLE EARTH IMA	GERY DATE: 06/10/2011	ONSITE: 05/31/	12						

CLIENT: BP	BLAGG ENGI P.O. BOX 87, BLO	INEERING, INC. OMFIELD, NM 874	13	API #: 300	45088	
	(505) 6	632-1199		(if applicble):	NA	
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE		tanks	PAGE #:	2 of	_6
SITE INFORMATION	I: SITE NAME: GUTIERRE	ZGCB#1		DATE STARTED:	08/1	7/12
QUAD/UNIT: B SEC: 4 TWP:	29N RNG: 9W PM: NM	CNTY: SJ ST: NM		DATE FINISHED:		
1/4 -1/4/FOOTAGE: 1700'N / 1650'		FEDERAL / STATE (FEE / I PAUL & SONS ITRACTOR: MBF - D. DECK		ENVIRONMENTAL SPECIALIST(S):	N	IV
REFERENCE POINT				S19 GLELE	=\/.	5626'
1) ESW		821 X 107.781884		RING FROM W.H.:		N42E
2) NSW #1		865 X 107.781910		RING FROM W.H.:		N39E
3) NSW #2		892 X 107.781979		RING FROM W.H.:	325', N	
4) ESW #1		836 X 107.781882		RING FROM W.H.:	326', N	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB					OVM READING
1) SAMPLE ID: GS-NSW#1 @ 1		SAMPLETIME: 1017 LAB ANALYS	8015	, 8021, 300.0 (0	Chlor.)	(ppm)
2) SAMPLE ID: GS-NSW#2 @ 2	GAVILLE DATE.	SAMPLETIME: 1022 LAB ANALYS		, 8021, 300.0 (0		0.0
3) SAMPLE ID: GS-PB#1 @ 23	GAVILLE DALL.	SAMPLETIME: 0846 LAB ANALYS		8015, 8021	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0
4) SAMPLE ID: GS-ESW#1 @ 1		SAMPLETIME: 1200 LAB ANALYS		8015		0.0
SOIL DESCRIPTION	O WILLDAY.					
	SOIL TYPE: SAND / SILTY SANI #ISH ORANGE TO MODERATE BROWN	DI/ SILT <u>(SILTY CLAY / CLAY</u> / G 	RAVEL / OTH	HER		
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY		PLASTICITY (CLAYS): NON PLASTIC SLIG	HTLY PLASTIC / C	OHESIVE MEDIUM PLASTI	IC / HIGHLY PL	ASTIC
CONSISTENCY (NON COHESIVE SOILS): LC	OOSE (FIRM) DENSE / VERY DENSE	DENSITY (COHESIVE CLAYS & S				
MOISTURE: DRY SLIGHTLY MOIST / MOIST / WI		HC ODOR DETECTED: YES			LY FROM S	
SAMPLE TYPE: GRAB / COMPOSITE - # DISCOLORATION/STAINING OBSERVED		COLLECTED. UNKNOWN PHY				VIPLE.
	DEAD TO THE DESCRIPTION DESCRIPTION	TEXTER WITHIN NOTWING 13 ()	THIOR IN	AONTOL BOOKET		
ANY AREAS DISPLAYING WETNESS: YES / NO	EXPLANATION - GROUNDWATER OBSERVE					
APPARENT EVIDENCE OF A RELEASE O			Control of the Control			
ADDITIONAL COMMENTS: NSW #2 SAN NATURE AS STATED IN INITIAL MAY 2012 INVE	MPLE PT. PHYSICALLY MEASURED AT 194 FT., ESTIGATION. HORIZONTAL BANDED MOISTUR					
EXCAVATION DIMENSIONS (if applicable): ft. X ft	. X ft.		cavated (if applicable):		
DEPTH TO GROUNDWATER: ~21' N	EAREST WATER SOURCE: <1,000' NE	AREST SURFACE WATER: <20	10' NMOCI	D TPH CLOSURE STO	: 100	ppm
SITE SKETCH	GS - NSW #2 (T.H.)	PLOT PLAN circle: attack	ned OVM (CALIB. READ. = 52	2.4 ppm	RF = 0.52
	CREST OF		♦ OVM)0 ppm	111 - 0.02
ı	EXCAVATION > 25' SLOPE	GS - NSW #1	TIME:	10:43 ampm	DATE: 08	/17/12
SAMPLE DATE: 08/17/12 SAMP. OVM TIME	525.2	(T.H.)	1 =	MISCELL.	NOT	ES
ID (ppm)		21' 50144 (470)	W	O: N150791		
GS-ESW@ 15' 0.0 1014 GS-NSW#2@ 7' 0.0 1052	\ \//_	from Gutierrez G	13L —	#: 43000661		
SAMPLE DATE: 08/21/12	BENCH	W.H.)	Pł	(:		
SAMP. OVM TIME ID (ppm)	DEPRESSION ~7' - 8' B.G.	GS - ESW	PJ	J #:		
GS-PB #1 @ 21' 207 0826		(T.H.)	00	CD Appr. date(s):	NA	
Recalibrated OVM @ TIME 0836 Reading = 53.1 ppm.	GS - PB #1 (T.H.)	GROUNDWATER	Tan			
FF		EXPOSED ~ 21' B.G.	Tan ID	Permit date(s):	NA	
OVM = Organic Vapor Meter	To Gutierrez	(8/24/12)		BGT Sidewalls Visi		
ppm = parts per million	GC #1 W.H. γ			BGT Sidewalls Visi		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION. T.B. = TANK BOTTOM: PBGTL = PREVIOUS BELOW.	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T. OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DE		NOT		10,700 1 11,101	° E
APPLICABLE OR NOT AVAILABLE; SW - SINGLE	E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DE		<u>M</u>	agnetic declinati	ion: 10	
TRAVEL NOTES: CALLOUT:		ONSITE: 8/15/12, 8/17/12	8/21/12, 8/2	2/12, 8/24/12		

CLIENT: BP	BLAG P.O. BOX 8	The second secon		D, NM		API #: 300 TANK ID (if applicble):	4508 N/	
FIELD REPORT:	(circle one): BGT CONFIRM	ATION / RELE	ASE INVESTIG	ATION / OT		PAGE #:	3 0	
SITE INFORMATION						DATE STARTED:	09/1	0/12
QUAD/UNIT: B SEC: 4 TWP:	29N RNG: 9W		CNTY: S.		IM	DATE FINISHED:		
1/4 -1/4/FOOTAGE: 1700'N / 1650'	E NW/NE	LEASE TYPE:			FEE/ INDIAN	ENVIRONMENTAL		
LEASE #:	PROD. FORMATION:	DK CON	TRACTOR:	PAUL & S MBF - D.	DECKER	SPECIALIST(S):		1V
REFERENCE POINT	: WELL HEAD (W.I	H.) GPS COO	RD.:	36.758	165 X 107.78	2619 GL EL	.EV.:	5626'
1)SEC	GPS COORD.:		307 X 107.		DISTANCE	BEARING FROM W.H.:		N44E
2) SEC#2	GPS COORD.:		743 X 107		DISTANCE	BEARING FROM W.H.:		N45.5E
3)NSW#3	GPS COORD.:	36.7588	378 X 107.	782081	DISTANCE	BEARING FROM W.H.:	304',	N31E
4)	GPS COORD.:				DISTANCE	BEARING FROM W.H.:		
SAMPLING DATA:	CHAIN OF CUSTODY RECOR	RD(S) # OR LAB	USED:	HALI	_			OVM READING (ppm)
1) SAMPLE ID: SEC@ 21'	SAMPLE DATE: 09	/05/12	SAMPLE TIME:	1543	LAB ANALYSIS:	NA		234
2) SAMPLE ID: SEC#2 @ 21'	SAMPLE DATE: 09	/10/12	_ SAMPLE TIME: _	0936	LAB ANALYSIS:	NA		182
3) SAMPLE ID: SEC#2 @ 23'	O WII LL DI II L.	/10/12	SAMPLE TIME:		LAB ANALYSIS:	NA		12.1
4) SAMPLE ID: NSW#3 @ 21'	SAMPLE DATE: 09	/10/12	_ SAMPLE TIME: _	1008	LAB ANALYSIS:	NA		0.0
SOIL DESCRIPTION	SOIL TYPE: SAND	SILTY SANI	SILT	Y CLAY C	LAY GRAVEL / C	OTHER		
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST / MOIST / WE SAMPLE TYPE: GRAB / COMPOSITE - #	SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE TO MODERATE BROWN COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE MOISTURE: DRY SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. NA DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - MOSTLY BETWEEN 18' - 21' BELOW GRADE IN SE CORNER & FURTHEST WESTERN END OF							
ANY AREAS DISPLAYING WETNESS: YES / NO	EXPLANATION - GROUNDWA	TER OBSERVE	D @ ~ 21' BEL	OW GRADE				
APPARENT EVIDENCE OF A RELEASE O						COVERED IN MAY 2012	(see initial	field report)
ADDITIONAL COMMENTS: CLAY AT 23'	BELOW GRADE - OLIVE GRAY	[GS-PB] TO MC	DERATE YELLO	DWISH BROV	WN [SEC#2 (T.H.)].			
EXCAVATION DIMENSIONS (if applicable) DEPTH TO GROUNDWATER:		ft. <1,000' NE	XAREST SURFAC	ft. E WATER:		excavated (if applicable): DCD TPH CLOSURE ST		ppm
SITE SKETCH	NSW #3 GS - NSW (T.H.)	I#2	PLOT PL	AN circle	e: attached	/M CALIB. READ. = 5	4.0 ppr	n RF = 0.52
CREST OF EXCAVATION SLOPE	30'	25'	GS - NSW#	I		/M CALIB. GAS = 1	OO ppr DATE: OS	9/04/12
		////	21'	ECINIA (47CI NOT	wo: N150791		
/ (GROUNDWATER			ESW #1 - (- from Gutie		PO#: 4300066		
)	~ 21' B.G.					PK:		
	BENCH DEPRESSION	The state of the s		GS - ESW		PJ#:		
SAMPLE DATE: 09/10/12 Recalibrated OVM @ TIME 1026 Reading = 53.6 ppm.	AL CID C	GS - PB #1 (T.H.)		(T.H.)	N13E from	OCD Appr. date(s):	N/	١
	To Gutierrez	GS - SE	:C		Gutierrez GC #1 W.H.)	Permit date(s):	N/	\
	GC #1 W.H.			SEC #2 /TI	H.) - (~142', N11E	BGT Sidewalls Vis	sible: Y / I	V
OVM = Organic Vapor Meter ppm = parts per million	*		-	from Gutie	errez GC #1 W.H.)	BGT Sidewalls Vis		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIC T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELC APPLICABLE OR NOT AVAILABLE; SW - SINGLE	DW-GRADE TANK LOCATION; SPD = \$	SAMPLE POINT DE	SIGNATION; R.W.	= RETAINING W		BGT Sidewalls Vis) ° E
TRAVEL NOTES: CALLOUT:					2/12. 8/24/12. 8/2	9/12, 9/5/12, 9/10/12		

CHENT BP		NEERING, INC.	API# 300	4508808
CLIENT: Dr	,	OMFIELD, NM 87413	TANK ID	Name and page
	(505) 6	32-1199	(if applicble):	NA
CIEI D DEDADT	(circle one): BGT CONFIRMATION / RELE	ASE INVESTIGATION / OTHER:		4 . 6
FIELD REPORT:	·	se source near production tan	PAGE #:	4 of 6
SITE INFORMATION	: SITE NAME: GUTIERRE	Z GC B # 1	DATE STARTED:	09/17/12
QUAD/UNIT: B SEC: 4 TWP:	29N RNG: 9W PM: NM		DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1700'N / 1650'		FEDERAL / STATE FEE / INDI/		
		PAUL & SONS TRACTOR: MBF - D. DECKER	SPECIALIST(S):	NV
REFERENCE POINT			7.782619 GLEL	EV.: 5626'
1) NWC		004 V 407 700447	ANCE/BEARING FROM W.H.:	300', N29E
2) WSW		250 V 407 700447	ANCE/BEARING FROM W.H.:	292', N30E
3) SWC		770 V 407 700000	ANCE/BEARING FROM W.H.:	271', N35E
4) SSW		ACE V 407 700000	ANCE/BEARING FROM W.H.:	280', N38.5E
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB			OVM READING
18400000	00/47/42	0025	8015, 8021	(ppm)
140144 0 001	00/47/40	0020	2015 2001	
	00/47/40	0000	2015 200	
	00/47/40	0045	2015 2004	
4) SAMPLE ID: SSW @ 19'	OWN LE ONE.	O WILL TIME.		230
SOIL DESCRIPTION		SILT SILTY CLAY CLAY GRAV	EL/OTHER	
SOIL COLOR: DARK YELLOW COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY	SH ORANGE TO BLACK	PLASTICITY (CLAYS): NON PLASTIC SLIGHTLY	NACTO LOCUEDE MEDITADI ACT	TO LUICULV DI ACTIC
CONSISTENCY (NON COHESIVE) SLIGHTLY		DENSITY (CLAYS): NON PLASTIC SLIGHTLY DENSITY (COHESIVE CLAYS & SILTS		
MOISTURE: DRY SLIGHTLY MOIST / MOIST / WI	SATURATED SUPER SATURATED	HC ODOR DETECTED: YES NO		ILY FROM
SAMPLE TYPE: GRAB / COMPOSITE - #		DISCOLORED SOILS NOTED BELO	W.	
DISCOLORATION/STAINING OBSERVED:			OUTH SIDEWALL & SOUTHV	VEST CORNER -
MEDIUM GRAY TO BLACK (PLAN ON STRIF ANY AREAS DISPLAYING WETNESS: YES / NO				
APPARENT EVIDENCE OF A RELEASE O			Y DISCOVERED IN MAY 2012	(see initial field report)
ADDITIONAL COMMENTS: CLAY AT 21'				
EXCAVATION DIMENSIONS (if applicable)): ft. X ft.	X ft. cubic	yards excavated (if applicable);	
		AREST SURFACE WATER: <200'	yards excavated (if applicable): NMOCD TPH CLOSURE STI	D:
SITE SKETCH	GS - NSW#2			
	NSW #3 (T.H.)	PLOT PLAN circle: attached		3.8 ppm RF = 0.52
EXCAVATION>	IWC	NIT.		00 ppm DATE: 09/17/12
SLOPE		\mathbb{N}		
	GS - NSW #1	`	MISCELL	. NOTES
GROUNDWATER WSW	(T.H.)	ESW#1 - (~176', N9E	wo: N150791	
~ 21' B.G.	GS - PB #1	from Gutierrez GC #1 W.H	DO #: 4300066	178
DEPRESSION ~4' - 6' B.G.	(T.H.)		PK:	
7-0 5.0.		GS - ESW	PJ#:	
	\/ _ ///////////////////////////////////	(T.H.) SEC - (~167',	OCD Appr. date(s):	NA
		N13E from Gutierrez GC	Tank D	
	SWC SSW	#1 W.H.)	ID Permit date(s):	NA NA
O'Es - O	To Gutierrez GC #1 W.H.	SEC #2 (T.H.) - (~142', N1		
OVM = Organic Vapor Meter ppm = parts per million	*	from Gutierrez GC #1 W.H	BGT Sidewalls Vis	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	IN DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.F DW-GRADE TANK LOCATION; SPD = SAMPLE POINT DE:			
	: WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB		Magnetic declinat	ion: 10° E
TRAVEL NOTES: CALLOUT:	ONSITE: 8/15	112 8/17/12 8/21/12 8/22/12 8/24/1	2 8/29/12 9/5/12 9/10/12	9/17/12

CLIENT: BP	P.O. BOX 87, BLO	INEERING, INC. OMFIELD, NM 87413 632-1199	API #: 3004508808 TANK ID (if applicble): NA	
CICI D DEDODT:	(circle one): BGT CONFIRMATION / RELE			c
FIELD REPORT:		ase source near production tanks	PAGE #: 5 of t	<u>)</u>
SITE INFORMATION			DATE STARTED:	!
QUAD/UNIT: B SEC: 4 TWP:		CNTY: SJ ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1700'N / 1650'		FEDERAL / STATE FEE / INDIAN PAUL & SONS	ENVIRONMENTAL	
	_	TRACTOR: MBF - D. DECKER	SPECIALIST(S): NV	
REFERENCE POINT	20.750			
SEC#3@ 21' 2) SSW#2 @ 23'		707 V 407 700040	BEARING FROM W.H.: 302.5', N46 265.5', N39.5	
CCIAHO @ 201		700 V 407 704070	BEARING FROM W.H.: 265.5', N39.5'	
3) SSW#3 @ 20 4) SSW#4 @ 20'		74.4.V.407.704047	BEARING FROM W.H.: 287', N45.5	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB		OVM READII	M
1) SAMPLE ID: SEC#3@ 21'	SAMPLE DATE: 09/18/12	SAMPLETIME: 1044 LAB ANALYSIS:	8015, 8021 (ppm 225	n)
2) SAMPLE ID: SSW#2 @ 23'	SAMPLE DATE: 09/20/12	SAMPLETIME: 0925 LAB ANALYSIS:	8015, 8021 35.6	6
3) SAMPLE ID: SSW#3 @ 20'	SAMPLE DATE: 09/20/12	SAMPLETIME: 0939 LAB ANALYSIS:	8015, 8021 0.0)
4) SAMPLE ID: SSW#4 @ 20'	SAMPLE DATE: 09/20/12	SAMPLETIME: 0943 LAB ANALYSIS:	8015, 8021 217.	4
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	D SILT SILTY CLAY CLAY GRAVEL / C	OTHER	
	MISH ORANGE TO BLACK			
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC		PLASTICITY (CLAYS): NON PLASTIC SLIGHTLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SO		
MOISTURE: DRY SLIGHTLY MOIST / MOIST / W	ET (SATURATED) SUPER SATURATED	HC ODOR DETECTED: YES NO EXP		
SAMPLE TYPE: GRAB / COMPOSITE - #		DISCOLORED SOILS NOTED BELOW. ETWEEN 19' - 22' BELOW GRADE IN EAST H	IALE OF COLITY CIDENALL & COLITYEN	СТ
CORNER - MEDIUM GRAY TO BLACK.	TEST NO EXPENDITION - MOSTEL DE	ETWEEN 19 - 22 DELOW GRADE IN EAST II	ALF OF SOUTH SIDEWALL & SOUTHER	51
	EXPLANATION - GROUNDWATER OBSERVE			
	BSERVED AND/OR OCCURRED : YES/ 1 TO 23' BELOW GRADE AT WEST SIDEWALL (N		COVERED IN MAY 2012 (see initial field repo	ort)
ADDITIONAL CONTINENTS.				_
EXCAVATION DIMENSIONS (if applicable DEPTH TO GROUNDWATER: ~21' N):ft. Xft. EAREST WATER SOURCE: <1,000' NEA		excavated (if applicable): OCD TPH CLOSURE STD: 100 ppm	1
SITE SKETCH NWC	GS - NSW#2	PLOT PLAN circle: attached	VM CALIB. READ. = 53.4 ppm RF = 0.	52
1	H////	Recalibrated Ovivi (a) Thirt 1030	VM CALIB. GAS = 100 ppm	
N Z/	NSW #3 GS - NSW #1	Reading = 53.1 ppm.	ME: <u>9:59</u> @m/pm DATE: <u>09/20/1</u> 2	2
wsw	7//////////////////////////////////////	λ	MISCELL. NOTES	
GROUNDWATER ~ 21' B.G.	GS-PB#1	LOW#1	wo: N15079146	
7	GS-I	7//	PO#: 4300066178	_
K		SEC.		
swc	///////////////////////////////////////	/////		
Y	SSW		OVM = Organic Vapor Meter	
<u> </u>	SSW#2	EC #2	ppm = parts per million	
	SSW#3 SSW#4	SEC #3		
NAMES DOT - DELONIODADE TANK ED - EVONVATIO		- TEST HOLE: - ADDDOV JANU - MELL HEAD.		-
	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DE	SIGNATION; R.W. = RETAINING WALL; NA - NOT	Magnetic declination: 10 ° E	_
	E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - 8/17/12	B - DOUBLE BOTTOM. [] 12, 9/5/12, 9/10/12, 9/17/12, 9/18/12, 9/20/		

CLIENT: BP	API#: 3004508808				
CLIENT:	P.O. BOX 87, BLC (505)	OOMFIELD, NI 632-1199	M 87413	TANK ID (if applicble):	A
FIELD REPORT:	(circle one): BGT CONFIRMATION / RE Reclamation of unknown re	lease source near pro		PAGE#: 6 o	f 6
SITE INFORMATION		SC 366		DATE STARTED: 09/2	26/12
		M CNTY: SJ ST:		DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1700'N / 1650' LEASE #: -		FEDERAL/STATE PAUL 8 ONTRACTOR: MBF - D	SONS	ENVIRONMENTAL SPECIALIST(S):	VV
REFERENCE POINT			8165 X 107.782	619 GL ELEV.:	5626'
050"4		8650 X 107.78184	4		N52E
2)	GPS COORD.:		DISTANCE/BE	EARING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BE	EARING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR L	AB USED: HA	LL		OVM READING
1) SAMPLE ID: SEC#4@ 20'	SAMPLE DATE:09/26/12	SAMPLE TIME: 1114	LAB ANALYSIS:	8015, 8021	(ppm)
2) SAMPLE ID: SEC#4@ 21'	SAMPLE DATE: 09/26/12	SAMPLE TIME: 1115	LAB ANALYSIS:	0045 0004	0.0
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SA	ND SILT SILTY CLAY	CLAY GRAVEL / OT	HER	
SOIL COLOR: DARK YELLOW					
COHESION (ALL OTHERS): NON COHESIVE/SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST/MOIST/W SAMPLE TYPE: GRAB/COMPOSITE - # DISCOLORATION/STAINING OBSERVED CORNER - MEDIUM GRAY TO BLACK.	OSE (FIRM) DENSE / VERY DENSE ET (SATURATED) SUPER SATURATED OF PTS. NA	DENSITY (COHESIVE HC ODOR DETECT DISCOLORED SOILS	CLAYS & SILTS): SOFTED: YES NO EXPL		IARD
ANY AREAS DISPLAYING WETNESS: YES / NO APPARENT EVIDENCE OF A RELEASE O ADDITIONAL COMMENTS:		_		OVERED IN MAY 2012 (see initial	field report)
		ft. X <u>23</u> ft. NEAREST SURFACE WATER		covated (if applicable): ~4,500 TPH CLOSURE STD: 100	00 - 5,000 ppm
SITE SKETCH NO	NSW #3 GS - NSW #1	PLOT PLAN cir	OVM	CALIB. READ. = <u>52.6</u> ppr CALIB. GAS = <u>100</u> ppr E <u>11:35</u> mpm DATE: <u>0</u> 9	111 - 0.02
GROUNDWATER ~ 21' B.G.		ESW#1		MISCELL. NOT vo: N15079146 o#: 4300066178	TES
	SSW #2 SSW#3 SSW #4	\$EC #3	1	M = Organic Vapor Meter m = parts per million	
		SEC #4			
	DW-GRADE TANK LOCATION; SPD = SAMPLE POINT WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM;	DESIGNATION; R.W. = RETAINING DB - DOUBLE BOTTOM.	G WALL; NA - NOT N) ° E

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH1 @ 10' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 8:55:00 AM

Lab ID: 1206018-001

Matrix: MEOH (SOIL)

Received Date: 6/1/2012 10:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	360	10		mg/Kg	1	6/1/2012 10:50:29 AM
Surr: DNOP	118	82.1-121		%REC	1	6/1/2012 10:50:29 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	58	30		mg/Kg	20	6/1/2012 11:31:51 AM
EPA METHOD 8260B: VOLATILES SHO	ORT LIST					Analyst: BDH
Benzene	ND	0.20		mg/Kg	4	6/1/2012 2:34:48 PM
Toluene	4.1	0.20		mg/Kg	4	6/1/2012 2:34:48 PM
Ethylbenzene	5.0	0.20		mg/Kg	4	6/1/2012 2:34:48 PM
Xylenes, Total	75	10		mg/Kg	100	6/1/2012 12:33:50 PM
Surr: 1,2-Dichloroethane-d4	93.7	70-130		%REC	4	6/1/2012 2:34:48 PM
Surr: 4-Bromofluorobenzene	148	70-130	S	%REC	4	6/1/2012 2:34:48 PM
Surr: Dibromofluoromethane	109	71.7-132		%REC	4	6/1/2012 2:34:48 PM
Surr: Toluene-d8	94.0	70-130		%REC	4	6/1/2012 2:34:48 PM
EPA METHOD 8015B MOD: GASOLINE	RANGE					Analyst: BDH
Gasoline Range Organics (GRO)	1800	500		mg/Kg	100	6/1/2012 12:33:50 PM
Surr: BFB	97.9	70-130		%REC	100	6/1/2012 12:33:50 PM

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH2 @ 9' historical release

Project: Gutierrez GC B #1

Collection Date: 5/31/2012 9:33:00 AM

Lab ID: 1206018-002

Matrix: MEOH (SOIL) Received Date: 6/1/2012 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	Analyst: JMP				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/1/2012 11:12:15 AM
Surr: DNOP	111	82.1-121	%REC	1	6/1/2012 11:12:15 AM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	30	mg/Kg	20	6/1/2012 11:44:15 AM
EPA METHOD 8260B: VOLATILES \$	SHORT LIST				Analyst: BDH
Benzene	ND	0.050	mg/Kg	1	6/1/2012 1:01:34 PM
Toluene	ND	0.050	mg/Kg	1	6/1/2012 1:01:34 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2012 1:01:34 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/1/2012 1:01:34 PM
Surr: 1,2-Dichloroethane-d4	87.9	70-130	%REC	1	6/1/2012 1:01:34 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	%REC	1	6/1/2012 1:01:34 PM
Surr: Dibromofluoromethane	92.5	71.7-132	%REC	1	6/1/2012 1:01:34 PM
Surr: Toluene-d8	91.5	70-130	%REC	1	6/1/2012 1:01:34 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: BDH
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2012 1:01:34 PM
Surr: BFB	91.3	70-130	%REC	1	6/1/2012 1:01:34 PM

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order **1206018**Date Reported: **6/4/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH3 @ 10' historical release

Project: Gutierrez GC B #1 Collection Date: 5/31/2012 9:50:00 AM

Lab ID: 1206018-003 Matrix: MEOH (SOIL) Received Date: 6/1/2012 10:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	6/1/2012 12:17:39 PM
Surr: DNOP	0	82.1-121	S	%REC	10	6/1/2012 12:17:39 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	300	30		mg/Kg	20	6/1/2012 11:56:39 AM
EPA METHOD 8260B: VOLATILES	SHORT LIST					Analyst: BDH
Benzene	ND	0.20		mg/Kg	4	6/1/2012 3:30:07 PM
Toluene	ND	0.20		mg/Kg	4	6/1/2012 3:30:07 PM
Ethylbenzene	0.28	0.20		mg/Kg	4	6/1/2012 3:30:07 PM
Xylenes, Total	4.6	0.40		mg/Kg	4	6/1/2012 3:30:07 PM
Surr: 1,2-Dichloroethane-d4	89.3	70-130		%REC	4	6/1/2012 3:30:07 PM
Surr: 4-Bromofluorobenzene	140	70-130	S	%REC	4	6/1/2012 3:30:07 PM
Surr: Dibromofluoromethane	91.8	71.7-132		%REC	4	6/1/2012 3:30:07 PM
Surr: Toluene-d8	91.1	70-130		%REC	4	6/1/2012 3:30:07 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE					Analyst: BDH
Gasoline Range Organics (GRO)	1100	250		mg/Kg	50	6/1/2012 1:29:08 PM
Surr: BFB	98.5	70-130		%REC	50	6/1/2012 1:29:08 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Lab Order 1206018

Date Reported: 6/4/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Project:** Gutierrez GC B #1

1206018-004

Lab ID:

Client Sample ID: TH5 @ 10' historical release

Collection Date: 5/31/2012 10:16:00 AM

Matrix: MEOH (SOIL) Received Date: 6/1/2012 10:05:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/1/2012 11:55:50 AM
Surr: DNOP	105	82.1-121	%REC	1	6/1/2012 11:55:50 AM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	30	mg/Kg	20	6/1/2012 12:09:04 PM
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst: BDH
Benzene	ND	0.050	mg/Kg	1	6/1/2012 1:56:47 PM
Toluene	ND	0.050	mg/Kg	1	6/1/2012 1:56:47 PM
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2012 1:56:47 PM
Xylenes, Total	ND	0.10	mg/Kg	1	6/1/2012 1:56:47 PM
Surr: 1,2-Dichloroethane-d4	86.8	70-130	%REC	1	6/1/2012 1:56:47 PM
Surr: 4-Bromofluorobenzene	88.4	70-130	%REC	1	6/1/2012 1:56:47 PM
Surr: Dibromofluoromethane	90.4	71.7-132	%REC	1	6/1/2012 1:56:47 PM
Surr: Toluene-d8	92.6	70-130	%REC	1	6/1/2012 1:56:47 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: BDH
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2012 1:56:47 PM
Surr: BFB	88.4	70-130	%REC	1	6/1/2012 1:56:47 PM

- */X Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1208877

Date Reported: 8/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GS-NSW#1 @ 19'-Unknown Rel

Gutierrez GC B #1 Project:

Collection Date: 8/17/2012 10:17:00 AM

Lab ID: 1208877-001

Matrix: SOIL

Received Date: 8/21/2012 10:31:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE (EPA METHOD 8015B: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/23/2012 9:10:37 AM			
Surr: DNOP	118	77.6-140	%REC	1	8/23/2012 9:10:37 AM			
EPA METHOD 8015B: GASOLINE RANG	SE .				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/23/2012 3:53:59 PM			
Surr: BFB	94.8	84-116	%REC	1	8/23/2012 3:53:59 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.049	mg/Kg	1	8/23/2012 3:53:59 PM			
Toluene	ND	0.049	mg/Kg	1	8/23/2012 3:53:59 PM			
Ethylbenzene	ND	0.049	mg/Kg	1	8/23/2012 3:53:59 PM			
Xylenes, Total	ND	0.098	mg/Kg	1	8/23/2012 3:53:59 PM			
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	8/23/2012 3:53:59 PM			
EPA METHOD 300.0: ANIONS					Analyst: SRM			
Chloride	1.9	1.5	mg/Kg	1	8/22/2012 1:20:09 PM			

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
 Page 1 of 10

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GS-NSW#2 @20' Unknown Rele

Project: Gutierrez GC B #1 Collection Date: 8/17/2012 10:22:00 AM

Lab ID: 1208877-002 Matrix: MEOH (SOIL) Received Date: 8/21/2012 10:31:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANGE ORGANICS Analyst: J							
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/21/2012 12:21:10 PM		
Surr: DNOP	101	77.6-140	%REC	1	8/21/2012 12:21:10 PM		
EPA METHOD 8015B: GASOLINE RANG	E				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/21/2012 12:42:03 PM		
Surr: BFB	98.1	84-116	%REC	1	8/21/2012 12:42:03 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	0.050	mg/Kg	1	8/21/2012 12:42:03 PM		
Toluene	ND	0.050	mg/Kg	1	8/21/2012 12:42:03 PM		
Ethylbenzene	ND	0.050	mg/Kg	1	8/21/2012 12:42:03 PM		
Xylenes, Total	ND	0.10	mg/Kg	1	8/21/2012 12:42:03 PM		
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	8/21/2012 12:42:03 PM		
EPA METHOD 300.0: ANIONS					Analyst: SRM		
Chloride	33	30	mg/Kg	20	8/21/2012 2:52:46 PM		

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits Page 2 of 10

Lab Order 1208C22

Date Reported: 9/5/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GS-PB#1 @ 23'-unknown release

Project: GUTIERREZ GC B #1

Collection Date: 8/21/2012 8:46:00 AM

Lab ID: 1208C22-001

Matrix: SOIL

Received Date: 8/28/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANGE ORGANICS Analyst: JN								
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/30/2012 10:29:19 AM			
Surr: DNOP	112	77.6-140	%REC	1	8/30/2012 10:29:19 AM			
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/30/2012 8:01:07 PM			
Surr: BFB	98.4	84-116	%REC	1	8/30/2012 8:01:07 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	0.047	mg/Kg	1	8/30/2012 8:01:07 PM			
Toluene	ND	0.047	mg/Kg	1	8/30/2012 8:01:07 PM			
Ethylbenzene	ND	0.047	mg/Kg	1	8/30/2012 8:01:07 PM			
Xylenes, Total	ND	0.095	mg/Kg	1	8/30/2012 8:01:07 PM			
Surr: 4-Bromofluorobenzene	98.9	80-120	%REC	1	8/30/2012 8:01:07 PM			

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits Page 1 of 8

Lab Order 1208C22

Date Reported: 9/5/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GS-ESW#1 @ 16'-unknown relea

Project: **GUTIERREZ GC B #1** Collection Date: 8/24/2012 12:00:00 PM

Lab ID: 1208C22-002

Matrix: SOIL

Received Date: 8/28/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/30/2012 10:55:14 AM
Surr: DNOP	114	77.6-140	%REC	1	8/30/2012 10:55:14 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/30/2012 8:29:53 PM
Surr: BFB	97.5	84-116	%REC	1	8/30/2012 8:29:53 PM

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
 Page 2 of 8

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NWC @ 20' - unknown release

Gutierrez GC B #1 Project:

Collection Date: 9/17/2012 9:25:00 AM

Lab ID: 1209922-001

Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG		Analyst: JMP			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/23/2012 7:06:56 PM
Surr: DNOP	99.0	77.6-140	%REC	1	9/23/2012 7:06:56 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/25/2012 2:23:50 AM
Surr: BFB	99.0	84-116	%REC	1	9/25/2012 2:23:50 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	9/25/2012 2:23:50 AM
Toluene	ND	0.047	mg/Kg	1	9/25/2012 2:23:50 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/25/2012 2:23:50 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/25/2012 2:23:50 AM
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1	9/25/2012 2:23:50 AM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 1 of 7

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: WSW @ 22' - unknown release

Project: Gutierrez GC B #1

Collection Date: 9/17/2012 9:30:00 AM

Lab ID: 1209922-002 Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE		Analyst: JMP			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/23/2012 7:32:17 PM
Surr: DNOP	104	77.6-140	%REC	1	9/23/2012 7:32:17 PM
EPA METHOD 8015B: GASOLINE RAN		Analyst: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/25/2012 5:07:54 PM
Surr: BFB	102	84-116	%REC	1	9/25/2012 5:07:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	9/25/2012 5:07:54 PM
Toluene	ND	0.047	mg/Kg	1	9/25/2012 5:07:54 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/25/2012 5:07:54 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/25/2012 5:07:54 PM
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	9/25/2012 5:07:54 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SWC @ 21' - unknown release

Project: Gutierrez GC B #1 Collection Date: 9/17/2012 9:38:00 AM

Lab ID: 1209922-003 Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	13	10		mg/Kg	1	9/23/2012 7:57:42 PM
Surr: DNOP	105	77.6-140		%REC	1	9/23/2012 7:57:42 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	31	9.8		mg/Kg	2	9/25/2012 5:36:40 PM
Surr: BFB	310	84-116	S	%REC	2	9/25/2012 5:36:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.098		mg/Kg	2	9/25/2012 5:36:40 PM
Toluene	ND	0.098		mg/Kg	2	9/25/2012 5:36:40 PM
Ethylbenzene	0.19	0.098		mg/Kg	2	9/25/2012 5:36:40 PM
Xylenes, Total	ND	0.20		mg/Kg	2	9/25/2012 5:36:40 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	2	9/25/2012 5:36:40 PM

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 3 of 7

Lab Order 1209922

Date Reported: 10/2/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW @ 19' - unknown release

Project: Gutierrez GC B #1 Collection Date: 9/17/2012 9:45:00 AM

Lab ID: 1209922-004

Matrix: SOIL

Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	2400	100		mg/Kg	10	9/24/2012 2:26:48 PM
Surr: DNOP	0	77.6-140	S	%REC	10	9/24/2012 2:26:48 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	3500	490		mg/Kg	100	9/25/2012 3:50:11 AM
Surr: BFB	205	84-116	S	%REC	100	9/25/2012 3:50:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	2.5		mg/Kg	100	9/25/2012 3:50:11 AM
Toluene	14	4.9		mg/Kg	100	9/25/2012 3:50:11 AM
Ethylbenzene	25	4.9		mg/Kg	100	9/25/2012 3:50:11 AM
Xylenes, Total	330	9.8		mg/Kg	100	9/25/2012 3:50:11 AM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	100	9/25/2012 3:50:11 AM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits Page 4 of 7

Lab Order 1209870

Date Reported: 9/24/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SEC #3 @21'- unknown release

Project: Gutierrez GC B #1

Collection Date: 9/18/2012 10:44:00 AM

Lab ID: 1209870-001

Matrix: MEOH (SOIL) Received Date: 9/20/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	280	9.9		mg/Kg	1	9/21/2012 9:29:17 AM
Surr: DNOP	116	77.6-140		%REC	1	9/21/2012 9:29:17 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	1700	100		mg/Kg	20	9/20/2012 12:36:06 PM
Surr: BFB	534	84-116	S	%REC	20	9/20/2012 12:36:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	20	9/20/2012 12:36:06 PM
Toluene	ND	1.0		mg/Kg	20	9/20/2012 12:36:06 PM
Ethylbenzene	11	1.0		mg/Kg	20	9/20/2012 12:36:06 PM
Xylenes, Total	52	2.0		mg/Kg	20	9/20/2012 12:36:06 PM
Surr: 4-Bromofluorobenzene	128	80-120	S	%REC	20	9/20/2012 12:36:06 PM

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits Page 1 of 5

Lab Order 1209B22

Date Reported: 10/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #2 @ 23'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:25:00 AM

Lab ID: 1209B22-001

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/27/2012 10:46:33 AM
Surr: DNOP	109	77.6-140	%REC	1	9/27/2012 10:46:33 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/29/2012 8:24:33 PM
Surr: BFB	99.1	84-116	%REC	1	9/29/2012 8:24:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	9/29/2012 8:24:33 PM
Toluene	ND	0.047	mg/Kg	1	9/29/2012 8:24:33 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/29/2012 8:24:33 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/29/2012 8:24:33 PM
Surr: 4-Bromofluorobenzene	98.3	80-120	%REC	1	9/29/2012 8:24:33 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits 1 of 8

Lab Order 1209B22

Date Reported: 10/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #3 @ 20'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:39:00 AM

Lab ID: 1209B22-002

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/27/2012 11:11:38 AM
Surr: DNOP	108	77.6-140	%REC	1	9/27/2012 11:11:38 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/29/2012 8:53:21 PM
Surr: BFB	98.8	84-116	%REC	1	9/29/2012 8:53:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	9/29/2012 8:53:21 PM
Toluene	ND	0.048	mg/Kg	1	9/29/2012 8:53:21 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/29/2012 8:53:21 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/29/2012 8:53:21 PM
Surr: 4-Bromofluorobenzene	97.9	80-120	%REC	1	9/29/2012 8:53:21 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits Page 2 of 8

Lab Order 1209B22

Date Reported: 10/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SSW #4 @ 20'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/20/2012 9:43:00 AM

Lab ID: 1209B22-003

Matrix: SOIL

Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	120	10		mg/Kg	1	9/27/2012 11:36:43 AM
Surr: DNOP	108	77.6-140		%REC	1	9/27/2012 11:36:43 AM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	390	98		mg/Kg	20	9/30/2012 1:33:20 PM
Surr: BFB	254	84-116	S	%REC	20	9/30/2012 1:33:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.98		mg/Kg	20	9/30/2012 1:33:20 PM
Toluene	ND	0.98		mg/Kg	20	9/30/2012 1:33:20 PM
Ethylbenzene	1.7	0.98		mg/Kg	20	9/30/2012 1:33:20 PM
Xylenes, Total	ND	2.0		mg/Kg	20	9/30/2012 1:33:20 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	20	9/30/2012 1:33:20 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
 - Spike Recovery outside accepted recovery limits Page 3 of 8

Lab Order 1210004

Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SEC #4 @ 20'-unknown release

Project: Gutierrez GC B #1 Collection Date: 9/26/2012 11:14:00 AM

Lab ID: 1210004-001

Matrix: SOIL

Received Date: 9/29/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/2/2012 12:12:09 PM
Surr: DNOP	109	77.6-140	%REC	1	10/2/2012 12:12:09 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/6/2012 12:34:33 AM
Surr: BFB	98.9	84-116	%REC	1	10/6/2012 12:34:33 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	10/4/2012 5:26:14 PM
Toluene	ND	0.047	mg/Kg	1	10/4/2012 5:26:14 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/4/2012 5:26:14 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/4/2012 5:26:14 PM
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	10/4/2012 5:26:14 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 1 of 5

Lab Order 1210004

Date Reported: 10/9/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SEC #4 @ 21'-unknown release

Project: Gutierrez GC B #1

Collection Date: 9/26/2012 11:15:00 AM

Lab ID: 1210004-002

Matrix: SOIL

Received Date: 9/29/2012 10:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	10/2/2012 12:37:31 PM
Surr: DNOP	111	77.6-140	%REC	1	10/2/2012 12:37:31 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/6/2012 1:03:17 AM
Surr: BFB	112	84-116	%REC	1	10/6/2012 1:03:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	10/4/2012 5:55:02 PM
Toluene	ND	0.049	mg/Kg	1	10/4/2012 5:55:02 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/4/2012 5:55:02 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/4/2012 5:55:02 PM
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	10/4/2012 5:55:02 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits

 Page 2 of 5

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Gutierrez GC B#1 Project:

Lab ID: 1308729-001 Client Sample ID: MW #1

Collection Date: 8/15/2013 1:15:00 PM

Matrix: AQUEOUS Received Date: 8/16/2013 10:07:00 AM

Analyses	Result	RL Q	Qual Uni	its DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	1.0	μg	/L 1	8/19/2013 9:57:34 PM	R12735
Toluene	ND	1.0	μg	/L 1	8/19/2013 9:57:34 PM	R12735
Ethylbenzene	ND	1.0	μg/	/L 1	8/19/2013 9:57:34 PM	R12735
Xylenes, Total	ND	2.0	μg/	/L 1	8/19/2013 9:57:34 PM	R12735
Surr: 4-Bromofluorobenzene	103	69.4-129	%F	REC 1	8/19/2013 9:57:34 PM	R12735
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Fluoride	0.85	0.10	mg	_J /L 1	8/16/2013 11:15:46 PM	R12706
Chloride	18	10	mg	_J /L 20	8/16/2013 11:28:11 PM	R12706
Nitrogen, Nitrate (As N)	ND	0.10	mg	_J /L 1	8/16/2013 11:15:46 PM	R12706
Sulfate	1700	25	mg	J/L 50	8/20/2013 5:11:02 PM	R12777
EPA METHOD 200.7: DISSOLVED ME	TALS				Analyst:	JLF
Iron	1.8	0.10	* mg	J/L 5	8/22/2013 5:06:16 PM	R12837
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst:	KS
Total Dissolved Solids	2840	200	* mg)/L 1	8/21/2013 11:35:00 AM	8911

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Not Detected at the Reporting Limit Page 1 of 11 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #2

Project: Gutierrez GC B#1 Collection Date: 8/15/2013 3:30:00 PM

Lab ID: 1308729-002

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	1.0		μg/L	1	8/19/2013 10:27:49 PM	1 R12735
Toluene	ND	1.0		μg/L	1	8/19/2013 10:27:49 PM	1 R12735
Ethylbenzene	ND	1.0		μg/L	1	8/19/2013 10:27:49 PM	1 R12735
Xylenes, Total	ND	2.0		μg/L	1	8/19/2013 10:27:49 PM	1 R12735
Surr: 4-Bromofluorobenzene	107	69.4-129		%REC	1	8/19/2013 10:27:49 PM	1 R12735
EPA METHOD 300.0: ANIONS						Analys	: JRR
Fluoride	1.0	0.10		mg/L	1	8/16/2013 11:40:36 PM	1 R12706
Chloride	41	10		mg/L	20	8/16/2013 11:53:00 PM	1 R12706
Nitrogen, Nitrate (As N)	0.44	0.10		mg/L	1	8/16/2013 11:40:36 PM	R12706
Sulfate	2700	50		mg/L	100	8/20/2013 5:23:26 PM	R12777
EPA METHOD 200.7: DISSOLVED MET	TALS					Analys	: JLF
Iron	0.54	0.020	*	mg/L	1	8/22/2013 5:08:48 PM	R12837
SM2540C MOD: TOTAL DISSOLVED S	OLIDS					Analyst	: KS
Total Dissolved Solids	4810	200	*	mg/L	1	8/21/2013 11:35:00 AM	8911

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 2 of 11 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Gutierrez GC B#1

Lab ID: 1308729-003

Client Sample ID: MW #3

Collection Date: 8/15/2013 2:45:00 PM

Received Date: 8/16/2013 10:07:00 AM

Result	RL Q	Qual Uni	ts DF	Date Analyzed	Batch
				Analyst:	NSB
ND	1.0	μg/	_ 1	8/19/2013 10:57:54 PM	R12735
ND	1.0	μg/	L 1	8/19/2013 10:57:54 PM	R12735
5.7	1.0	μg/l	_ 1	8/19/2013 10:57:54 PM	R12735
42	2.0	μg/l	_ 1	8/19/2013 10:57:54 PM	R12735
126	69.4-129	%R	EC 1	8/19/2013 10:57:54 PM	R12735
				Analyst:	JRR
1.0	0.10	mg	'L 1	8/17/2013 12:05:25 AM	R12706
47	10	mg	'L 20	8/17/2013 12:17:50 AM	R12706
ND	0.10	mg	L 1	8/17/2013 12:05:25 AM	R12706
2300	50	mg	L 10	0 8/20/2013 6:00:40 PM	R12777
ETALS				Analyst:	JLF
13	0.40	* mg/	L 20	8/22/2013 6:47:30 PM	R12837
SOLIDS				Analyst:	KS
4330	200	* mg/	L 1	8/21/2013 11:35:00 AM	8911
	ND ND 5.7 42 126 1.0 47 ND 2300 ETALS	ND 1.0 ND 1.0 5.7 1.0 42 2.0 126 69.4-129 1.0 0.10 47 10 ND 0.10 2300 50 ETALS 13 0.40 SOLIDS	ND 1.0 μg/l ND 1.0 μg/l 5.7 1.0 μg/l 42 2.0 μg/l 126 69.4-129 %R 1.0 0.10 mg/l 47 10 mg/l ND 0.10 mg/l 2300 50 mg/l ETALS 13 0.40 * mg/l SOLIDS	ND 1.0 μg/L 1 ND 1.0 μg/L 1 5.7 1.0 μg/L 1 42 2.0 μg/L 1 126 69.4-129 %REC 1 1.0 0.10 mg/L 1 47 10 mg/L 20 ND 0.10 mg/L 1 2300 50 mg/L 1 ETALS 13 0.40 * mg/L 20 SOLIDS	Analyst: ND 1.0 μg/L 1 8/19/2013 10:57:54 PM ND 1.0 μg/L 1 8/19/2013 10:57:54 PM 5.7 1.0 μg/L 1 8/19/2013 10:57:54 PM 42 2.0 μg/L 1 8/19/2013 10:57:54 PM 126 69.4-129 %REC 1 8/19/2013 10:57:54 PM Analyst: 1.0 0.10 mg/L 1 8/17/2013 12:05:25 AM 47 10 mg/L 20 8/17/2013 12:17:50 AM ND 0.10 mg/L 1 8/17/2013 12:05:25 AM 2300 50 mg/L 100 8/20/2013 6:00:40 PM ETALS Analyst: 13 0.40 * mg/L 20 8/22/2013 6:47:30 PM SOLIDS Analyst:

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 3
- ND Not Detected at the Reporting Limit Page 3 of 11
 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

Gutierrez GC B#1 **Project:**

Collection Date: 8/15/2013 2:00:00 PM

Lab ID: 1308729-004

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	μg/L	1	8/19/2013 11:27:56 PM	R12735
Toluene	ND	1.0	μg/L	1	8/19/2013 11:27:56 PM	R12735
Ethylbenzene	ND	1.0	μg/L	1	8/19/2013 11:27:56 PM	R12735
Xylenes, Total	ND	2.0	μg/L	1	8/19/2013 11:27:56 PM	R12735
Surr: 4-Bromofluorobenzene	110	69.4-129	%REC	1	8/19/2013 11:27:56 PM	R12735
EPA METHOD 300.0: ANIONS					Analyst	JRR
Fluoride	0.93	0.10	mg/L	1	8/17/2013 12:30:14 AM	R12706
Chloride	92	10	mg/L	20	8/17/2013 12:42:39 AM	R12706
Nitrogen, Nitrate (As N)	0.25	0.10	mg/L	1	8/17/2013 12:30:14 AM	R12706
Sulfate	2900	50	mg/L	100	8/20/2013 6:13:05 PM	R12777
EPA METHOD 200.7: DISSOLVED ME	TALS				Analyst	JLF
Iron	8.1	0.20	* mg/L	10	8/22/2013 6:49:44 PM	R12837
SM2540C MOD: TOTAL DISSOLVED	SOLIDS				Analyst	KS
Total Dissolved Solids	5050	200	* mg/L	1	8/21/2013 11:35:00 AM	8911

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 4 of 11 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1308729

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #5

Project: Gutierrez GC B#1 Collection Date: 8/15/2013 11:40:00 AM

Lab ID: 1308729-005

Matrix: AQUEOUS

Received Date: 8/16/2013 10:07:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	μg/L	1	8/19/2013 11:58:09 PM	R12735
Toluene	ND	1.0	μg/L	1	8/19/2013 11:58:09 PM	R12735
Ethylbenzene	ND	1.0	μg/L	1	8/19/2013 11:58:09 PM	R12735
Xylenes, Total	ND	2.0	μg/L	1	8/19/2013 11:58:09 PM	R12735
Surr: 4-Bromofluorobenzene	109	69.4-129	%REC	1	8/19/2013 11:58:09 PM	R12735
EPA METHOD 300.0: ANIONS					Analyst	JRR
Fluoride	0.53	0.10	mg/L	1	8/17/2013 12:55:04 AM	R12706
Chloride	12	0.50	mg/L	1	8/17/2013 12:55:04 AM	R12706
Nitrogen, Nitrate (As N)	ND	0.10	mg/L	1	8/17/2013 12:55:04 AM	R12706
Sulfate	1300	25	mg/L	50	8/20/2013 6:25:30 PM	R12777
EPA METHOD 200.7: DISSOLVED MET	TALS				Analyst	JLF
Iron	1.4	0.10	* mg/L	5	8/22/2013 5:36:42 PM	R12837
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst	: KS
Total Dissolved Solids	2420	200	* mg/L	1	8/21/2013 11:35:00 AM	8911

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 5 of 11 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Date Reported: 8/27/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #6

Project: Gutierrez GC B#1

Collection Date: 8/15/2013 12:25:00 PM

Lab ID: 1308729-006

Matrix: AQUEOUS Received Date: 8/16/2013 10:07:00 AM

Analyses	Result	RL (Qual Un	its DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	1.0	μg	/L 1	8/20/2013 12:28:19 AM	R12735
Toluene	ND	1.0	μg	/L 1	8/20/2013 12:28:19 AM	R12735
Ethylbenzene	ND	1.0	μg	/L 1	8/20/2013 12:28:19 AM	R12735
Xylenes, Total	ND	2.0	μg	/L 1	8/20/2013 12:28:19 AM	R12735
Surr: 4-Bromofluorobenzene	107	69.4-129	%F	REC 1	8/20/2013 12:28:19 AM	R12735
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Fluoride	0.88	0.10	mg	g/L 1	8/17/2013 1:44:42 AM	R12706
Chloride	18	0.50	mg	g/L 1	8/17/2013 1:44:42 AM	R12706
Nitrogen, Nitrate (As N)	ND	0.10	mg	g/L 1	8/17/2013 1:44:42 AM	R12706
Sulfate	1800	50	mg	g/L 10	0 8/20/2013 6:37:55 PM	R12777
EPA METHOD 200.7: DISSOLVED META	ALS				Analyst:	JLF
Iron	0.85	0.020	* mg	g/L 1	8/22/2013 5:39:16 PM	R12837
SM2540C MOD: TOTAL DISSOLVED SC	DLIDS				Analyst:	KS
Total Dissolved Solids	3460	200	* mg	g/L 1	8/21/2013 11:35:00 AM	8911

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 6 of 11
 - P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1601774

Date Reported: 2/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: LP AGT Produced Water

Project: Jaquez GC B #3E

Collection Date: 1/20/2016 12:10:00 PM

Lab ID: 1601774-001

Matrix: AQUEOUS Received Date: 1/21/2016 8:15:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analy	st: LGT
Sulfate	1.2	0.50		mg/L	1	1/26/2016 3:24:11 AM	R31665
SM2540C MOD: TOTAL DISSOLVE	D SOLIDS					Analy	st: KS
Total Dissolved Solids	140	100	D	mg/L	1	1/27/2016 1:00:00 PM	23389

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Cl	nain-c	of-Cus	tody Record	Turn-Around 7	Γime:	COMPLETE BY)		5	ŀ	HΑ	LL	E	NV	/TE	20	NI	ИE	NT	ΆL	_
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	✓ Rush/_	06/01/2012													ATC		
	•			Project Name:	1							w.ha									•
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QA/QC Pad Standa			Level 4 (Fuil Validation)		NELSON VE	ELEZ -	5 (8021B)	only)	'Diesel)					PO4, SO4)	PCB's						0
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□ NELAP		□ Other		On ice:) X ÛYes	□ No	1	TPH	15B ((8.1)	504.1)	Œ.		33, N	/ 808		2				e sa
□ EDD (T	ype)			Sample Temp	erature:	-O	1)E +	d 80	od 41)d 50	or P/	tals	N.	ides	-	-V0/	0.00	.	<u>. ا ۋ</u>	osit 'v
Date	Time	Matrix	Sample Request ID	Container Type and # MeOH	Preservative Type	HEAL No.	BTEX +-WH	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	r	Grab sample	5 pt. composite sample
5/31/12	0855	SOIL	TH1 @ 10' -	4 oz 1	Cool	-001	٧		٧									٧		V	
			historical release																		

5/31/12	0933	SOIL	TH2 @ 9' -	4 oz 1	Cool	-m2	٧		٧									٧	,	V	\top
			historical release																		
	· · · · · · · · · · · · · · · · · · ·						-													1	十
5/31/12	0950	SOIL	TH3 @ 10' -	4 oz 1	Cool	-003	٧		٧									٧	,	V	十
			historical release																		
5/31/12	1016	SOIL	TH5 @ 10' -	4 oz 1	Cool	-00-1	٧		٧									٧		V	\top
			historical release			<u> </u>									1		-			+	+
												 	 						\Box	\top	十
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5/31/1Z	1445	11/	En Uf	Mustin	1 6010	5/31/12 1445	1			TLY T											
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Standard Rush Project Name: Project Name: GUTIERREZ GC B # 1 Apply	CI	hain-c	of-Cus	tody Record	1 dill-Alound	mie.	COMPLETE BY	L	1	1	H	A	LL	E	NV	IR	05	NI	4 E	NT	AI	
Project Name:	Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	08/21/2012															
BLOMFIELD, NM 87413					Project Name:					16												
Phone #: (505) 632-1199 email or Fax#: QA/QC Package: Standard Accreditation: NELSON VELEZ On ice: Sample: NELSON VELEZ On ice: Sample Temperature: Date Time Matrix Sample Request ID Container Type and # Type HEALNO. Type HEALNO. Type HEALNO. Type HEALNO. Type HEALNO. Received by: Date Time: Relinquisbed.by: Received by: Received by: Received by: Received by: Date Time Remarks: TPH (80158) - GRO & DRO NIV.	Mailing A	ddress:	P.O. BO	X 87	GL	JTIERREZ GO	CB#1		49	01 H	awk	ins I	NE -	Alb	uqu	erqu	ıe, N	IM 8	710	Э		
Project Manager; Project Man			BLOOM	FIELD, NM 87413	Project #:				Te	1. 50	5-34	15-3	975	F	ax !	505-	345	-410	7			
Accreditation: □ NELAP □ Other □ EDD (Type) □ Date □ Time □ Matrix □ Sample Request ID □ Date □ Time □ Matrix □ Sample Request ID □ Container □ Type and # □ Type Preservative HEAL No. Type Type	Phone #:		(505) 63	2-1199									A	naly	ysis	Red	lues	t				
Sample S	email or F	ax#:			Project Manag	jer;									04)							
NELAP		_		Level 4 (Full Validation)		NELSON VE	LEZ	0218)	(Aluo	/Diesel					PO4, SC	CB's						9
NELAP	Accreditat	tion:			Sampler:	NELSON VE	LEZ	100 kg	(Gas	(Gas						82 P						dw
Date Time Matrix Sample Request D Container Type and # Type HEAL No. Type Type HEAL No. Type	□ NELAF	•	□ Other		On Ice:	Yes, 🕒	□ No	1	표		18.1)	04.1)	(H)		J3, N	-		2				e sa
Type and # Type Type Type and # Type and	□ EDD (1	Гуре)			Sample Temp	erature: \- [1	+	d 80		od 5(or P/	als	I, R	ides	2	100	0.00		<u>e</u>	osit V
8/17/12 1017 SOIL GS-NSW#1 @ 19' - 4 oz1 Cool — CO V V V V V V V V V V V V V V V V V V	Date	Time	Matrix	Sample Request ID	1			BTEX +-MIT	BTEX + MTE	TPH Metho	TPH (Metho	EDB (Metho	8310 (PNA	RCRA 8 Mei	Anions (F, C		8260B (VOA	8270 (Semi-	Chloride (30			5 pt. composite sa
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +- MATE	BTEX + MTBE + TPH (Gas	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	
8/21/12	0846	SOIL	GS-PB#1 @ 23' -	4 oz 1	Cool	-001	٧		٧											٧		
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-WITE	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	1	Grab Sample	o ptr. comp
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			unknown release																		I
9/17/12	0930	SOIL	WSW @ 22' -	4 oz 1	Cool	-002	٧		٧										1	V	
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email or F	ax#:			Project Manag	jer:									504)							T	
QA/QC Pad Standa	_		Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)	only)	/Diesel)					PO4, SC	CB's						a	
Accreditati	ion:	33		Sampler:	NELSON VE	LEZ 91V	**************************************	(Gas	(Gas,					102,	8082 PCB's						sample	
□ NELAP		☐ Other		On ice:		□ No	1	TPH	158	(8.1)	14.1	Ŧ		J3, N	_		-				e sa	٠
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MFB	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite	:
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Phone #: email or F	ax#:	(303) 63	2-1199	Project Manag	ier:																	
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Accreditat				Sampler:	NELSON VE	ELEZ TOV	3(80	Gas	Gas/					02, 1	32 PC						mple	
□ NELAP		□ Other			∀ Yes	□ No	1	PH (15B (8.1)	4.1)	Ĥ		3, N	808/						e sa	
□ EDD (T	ype)			Sample Temp	erature: [(?	ļ	E +	08 p	d 41	od 50	or P.≱	als	J, N	ides	2	VOA	0.00		e	osit	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MIT	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	9
9/20/12	0925	SOIL	SSW #2 @ 23' -	4 oz 1	Cool	-001	٧		٧											٧		
			unknown release																			
9/20/12	0939	SOIL	SSW #3 @ 20' -	4 oz 1	Cool	-002	٧		٧											٧		
			unknown release																			
ورود	<u>.</u>														_	_						L
9/20/12	0943	SOIL	SSW #4 @ 20' - unknown release	4 oz 1	Cool	-603	٧		٧	-					-	-		-	-	٧		-
										-			-	-	-				-			
								-		-				-	+	-	-	-				-
												\vdash	-	\vdash	+	-						-
247																						
Date: 9/24/12 Date:	Time:	Relinquish	lan Vf	Received by:	e Wales	Date Time	S			TPI	D: B P.	agg O. B	Engii	neer 7	0 & ing,	inc.	10 0	VLY.				
124/12	1724	Sur	ster Walley -	Muhle	. Com	09/25/12/10:	00)			ㅂ	noor	irieio	, NF	A 874	+15						_

CI	hain-c	of-Cus	tody Record	I urn-Around I	ime:			T	F 1		dΑ	п	F	NV	/TE	20	NI	ME	N	ΓΔΙ	L	
Client:	BLAG	G ENGR.	/ BP AMERICA		Rush _														AT(
				Project Name:								w.ha										
Mailing Ad	ddress:	P.O. BO	X 87	GL	ITIERREZ GO	B#1		49	01 F	ławk	ins I	NE -	Alb	uqu	erqu	ıe, N	MI	3710	9			
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50)5-3	45-3	975	-	ax	505-	345	-410)7				
Phone #:		(505) 63	2-1199									A	nal	ysis	Rec	ques	t					
email or F	ax#:			Project Manag	jer:									504)								
QA/QC Pad Standa	_		Level 4 (Full Validation)		NELSON VE	LEZ	(8021B)	only)	/Diesel					PO4, S	PCB's						е	
Accreditat	ion:			Sampler:	NELSON VE	LEZ gnV	1	(Gas	(Gas	_				NO2,	82 P						amp	
□ NELAP		□ Other		On Ice:	[⊠:Yes	□No	1	H.	1158	18.1	04.1	or PAH)		03,	/ 80		3				te s	;
□ EDD (T	[ype]	<u> </u>		Sample Temp	erature: 2.8	' <	1	3E +)8 p	pd 4	od 5	or P	tals	Z	ides	7	-VO	0.00		흥	osi	7
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No./	BTEX +-NH	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	
9/26/12	1114	SOIL	SEC #4 @ 20' -	4 oz 1	Cool	-601	٧		٧											٧		
			unknown release																			_
9/26/12	1115	SOIL	SEC #4 @ 21' -	4 oz 1	Cool		-1	-	V									_		-/	\dashv	_
3/20/12	1113	JOIL	unknown release	4 02 1	COOI	-007_	٧		V							-				٧	\dashv	_
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Date: 9/28/12	Time: 0745	Relinquish	ed by:	Received by:	12) 00 tes	Date Time 9/28/12 805	1	nark end		TPI ice to	:	015					10 0	NLY.				
Date:	Time:	Relinquish	ed by:	Received by:		Date Time					Ρ.	O. B	ox 87	7								
128/12	1700	Chr	attu Waller	May		9/29/12 10:00	(this :	!ь	11'6 · A				omfield, NM 87413								_	

CI	nain-c	of-Cus	tody Record	Turn-Around i	me.		Ι.			L	1 A		E	NV	/TE	20	NI	MEI	47/	A I	
Client:	BLAG	G ENGR.	/ BP AMERICA	☑ Standard	Rush _													RA			•
				Project Name:									allen								J
Mailing Ad	dress:	P.O. BO	X 87	GL	JTIERREZ GO	C B# 1		49	01 H									37109			
		BLOOM	FIELD, NM 87413	Project #:)5-34					505-	(8)					
Phone #:		(505) 63	2-1199									F	Anal	ysis	Rec	ues	t				
email or F	ax#:			Project Manag	er:		~							(4)							T
QA/QC Pad Standa			Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)	onfy)	(MRO)			(S)		PO4,SO		_	מנו <i>ד</i>			e	
Accreditat	ion:			Sampler:	NELSON VE	LEZ 91V	4	(Gas	/ DRO /	1)	1)	SIN	Sil	10 ,	lids	red)	Ł			sample	1
□ NELAP		□ Other		On fce:	a description of the same and t	□ No′	Ħ	TPH	0/0	418	504.1)	8270SIMS)	S	03,1	d So	(filte	/ Number				
□ EDD (T	ype)			Sample Tempe	erature:	<u>(0</u>	#	BE +	(GR	hod	hod	Oor	8 Metals	CI,N	olve	snc	ŧ		l e	posi	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1308729	BTEX 🛨	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 M	Anions (F,CI,NG3,NO2,PO2,SO4)	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N		Grab sample	5 pt. composite	
8/15/13	1315	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-001	٧												٧		T
8/12/13	1315	WATER	MW # 1	500 ml - 1	Cool									٧	٧				V	T	T
8/12/13	1315	WATER	MW # 1	125 ml - 1	HNO ₃ & Cool											٧			V		T
8/15/13	1315	WATER	MW # 1	125 ml - 1	H ₂ SO ₄												٧		V		T
8/15/13	1530	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002	٧												٧	1	T
8 15 13	7-4	WATER	MW # 2	500 ml - 1	Cool									٧	٧				٧		T
8/15/13	1530	WATER	MW # 2	125 ml - 1	HNO ₃ & Cool											٧			V		I
8/15/13	1530	WATER	MW # 2	125 ml - 1	H ₂ SO ₄												٧		٧	<u> </u>	
8/15/13		WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-003	٧												٧		
		WATER	MW # 3	500 ml - 1	Cool									٧	٧				V		
8/15/13		WATER	MW # 3	125 ml - 1	HNO ₃ & Cool											٧			V	1	
8/15/13	1445	WATER	MW # 3	125 ml - 1	H₂SO ₄												٧		V		
Date: 8/15 (13	Time: 1635	Relinquish	ed by:	Received by:	Lack	Date Time 8/15/13 /635		nark e nd ii		e to								pg	Î	of o	2
Date:	Time:	Relinquishe	ed by:	Received by:	Nali	Date Time					P.C	O. Bo	ngin ox 87 field,		-						
···· '		rv. samples s	ubmitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie		f this p	ossibil	ity. A	ny sub	-contra	acted	data v	vill be	clearly	notat	ed on	the anal	tical re	port.	

8/15/13 1466 WATER MW#4 500 ml-1 Cool V V V 8/15/13 1400 WATER MW#4 125 ml-1 HNO3 & Cool V V S/15/13 1400 WATER MW#4 125 ml-1 H ₂ SO ₄ V S/15/13 1400 WATER MW#5 40 ml VOA - 2 HCl & Cool - 55 V			
Project Name:			RY
Matrix Sample Request Date Time Date			146.11
BLOOMFIELD, NM 87413 Project #: Tel. 505-345-3975 Fax 505-345-4107 Analysis Request Project Manager: Project Manager:			
Phone #: (505) 632-1199 email or Fax#: QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation) Accreditation: ☐ NELAP ☐ Other ☐ Dr.Ice ☐ NELAP ☐ Other ☐ Time ☐ Matrix Sample Request ID Container Type and # Type ☐ EDD (Type) Bisisis 1/400 WATER ☐ WW#4 MW#4 MW#5 MW#4 MW#5 MW#4 MW#5 MW#6 MW#6			
email or Fax#: QA/QC Package: □ Level 4 (Full Validation) NELSON VELEZ (60 cm mode) NELSON VELEZ (70 cm mode)			
Standard			
Date Time Matrix Sample Request D Container Type A B B B B B B B B B	η _{αν}	a)	, a
Date Time Matrix Sample Request D Container Type A B B B B B B B B B	sample	ldw	ld m
Date Time Matrix Sample Request D Container Type A B B B B B B B B B			
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8 15 13 146 WATER MW#4 500 ml - 1 Cool 8 15 13 1400 WATER MW#4 125 ml - 1 HNO3 & Cool 8 15 13 1400 WATER MW#4 125 ml - 1 H ₂ SO ₄ 8 15 13 140 WATER MW#5 40 ml VOA - 2 HCl & Cool 8 15 13 1140 WATER MW#5 500 ml - 1 Cool 8 15 13 1140 WATER MW#5 125 ml - 1 HNO3 & Cool 8 15 13 1140 WATER MW#5 125 ml - 1 HNO3 & Cool	Grab sample 5 pt. composite		
S IS IS IS IS IS IS IS	٧	П	_
8 15 13 1400 WATER MW # 4 125 ml - 1 HNO3 & Cool V 8 15 13 1400 WATER MW # 4 125 ml - 1 H2SO4 V 8 15 13 140 WATER MW # 5 40 ml VOA - 2 HCl & Cool -005 V 8 15 13 140 WATER MW # 5 500 ml - 1 Cool V V 8 15 13 140 WATER MW # 5 125 ml - 1 HNO3 & Cool V V	٧		
8 15 13 140 WATER MW # 4 125 ml - 1 H ₂ SO ₄ 8 15 13 140 WATER MW # 5 40 ml VOA - 2 HCl & Cool - 0.05 V 8 15 13 140 WATER MW # 5 500 ml - 1 Cool 8 15 13 140 WATER MW # 5 125 ml - 1 HNO ₃ & Cool 8 15 18 140 WATER MW # 5 125 ml - 1 H ₂ SO ₄ V V	V	П	\Box
8/15/13 /140 WATER MW#5 40 ml VOA - 2 HCl & Cool - 5 V	٧		
8 15 13 11 40 WATER MW #5 500 ml - 1 Cool V V V 8 125 ml - 1 HNO ₃ & Cool V V V V V V V V V V V V V V V V V V	٧		
8/15/13/140 WATER MW#5 125 ml - 1 HNO ₃ & Cool V V V V V V V V V V V V V V V V V V	٧	П	
8 (15 3 / 140 WATER MW # 5 125 ml - 1 H ₂ SO ₄	٧		
	V		
	V		
8 (15 13)225 WATER MW # 6 500 ml - 1 Cool V V	٧		
8 15 13 /Z&5 WATER MW#6 125 ml - 1 HNO ₃ & Cool	٧		
8 (13)275 WATER MW # 6 125 ml - 1 H ₂ SO ₄	٧		T
5/13/13/233 Send invoice to: Blagg Engineering Inc.	of Z	of Z	oF d
Date: Time: Relinquished by: Date Time P.O. Box 87 Bloomfield, NM 87413 If necessary, samples submitted to Hall Environmental may be subcontracted to other accordited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytic			

ain-c	f-Cus	tody Record	Turn-Around	Time:		1	1 1	1	н	ΙΔΙ	LL	EI	VV	IR	10	NP	1E	NT	ΓΑΙ	L	
BLAG	G ENGR.	/ BP AMERICA	Standard	Rush _					A	N	AL	YS	SIS	L	AE	30	R/				
ddress:	P.O. BO	X 87		AQUEZ GC B	# 3E		49	01 H	awki	ins N	NE -	Alb	uqu	erqu	ıe, N	S MI	710	9			
	BLOOM	FIELD, NM 87413	Project #:				Te	1.50	5-34	15-39					-		7		4179		
	(505) 63	2-1199									А	naly	/sis	Red	lues	t				.)	
ax#:			Project Manag	ger:				_													
ckage: ard		Level 4 (Full Validation)		NELSON VE	LEZ	80218)	s only)	_			AS)									e	
ion:			Sampler:	NELSON VE	LEZ	B's (l Ga	DRO BRO	F	F	OSIA		-			(pa	nce	ds		E I	
)	□ Other		On Ice:		□ No	Ξ	TP	10	418	504	827	v.	ite			ilter	Bala	Soli		te s:	or N)
ype)	1		Sample Temp	erature: /. ()		BE +	BE +	(GR	poq	hod	Oor	etal	Nit	Se Se		us (1	tion	hed	ple	posi	2) 5
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1 601774	BTEX + MT	BTEX + MT	TPH 8015B	IPH (Met	EDB (Met	PAH (8310	RCRA 8 M	Nitrate N /	Mangane	Total Iron	Iron, Ferro	Anion / Ca	Total Disso	Grab sam	5 pt. com	Air Bubbles (Y or
1210	WATER	LP AGT PRODUCED WATER	500 ml - 1	Cool	-001												٧	٧	٧		
1210	WATER	LP ACT PRODUCED WATER	250 mil 1	HNO ₃ 8. Cool	-001											J			4		
																Ļ	,				
Time: [819	Relinquish	ed by:	Received by:	Walt 1	20/12/8/9	ВІ	LL D	REC	TLY T	ОВ	P:										ce.
Time: 1844	Ph	Walt	Received by:	3set 01/2	Date Time :1/16 08/5	V	D: Y	HIXC	DNEV	RM	W	BS El	eme	ent:_	L1-0	0136	-E:JA	QUE	ZGCI	B3E	
	BLAG ddress: ax#: ckage: ard ion: Time 1210 Time: [8]9	BLAGG ENGR. ddress: P.O. BO BLOOM (505) 63 ax#: ckage: ard Time Matrix 1210 WATER Time: Relinquish [844 Augusta Augus	BLOOMFIELD, NM 87413 (505) 632-1199 ax#: ckage: ard	BLAGG ENGR. / BP AMERICA BLAGG ENGR. / BP AMERICA Project Name ddress: P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199 ax#: ckage: ard	BLAGG ENGR. / BP AMERICA Project Name: Project Name: JAQUEZ GC B	BLAGG ENGR. / BP AMERICA Project Name: JAQUEZ GC B # 3E BLOOMFIELD, NM 87413 (505) 632-1199 ax#: Project Manager: Project Manager: NELSON VELEZ On Ice: No Sampler Temperature: / O Time Matrix Sample Request ID Time Matrix Sample Request ID Ton Ice: NELSON VELEZ On Ice: No Sample Temperature: / O Type and # Type and # Type and # Type and # Type ID- Time Matrix Propouced Water Soo mi-1 Cool — Oc I Time: Reinquished by: Received by: Date Time Water Pages Time Resinquished by: Received by: Date Time Water Pages Time Received by: Date Time Water Pages Time Received by: Date Time Water Pages Time Water Pages Time Received by: Date Time Water Pages Time	BLAGG ENGR. / BP AMERICA Project Name: Project Manager: Project Manager: Project Manager: Project Manager: NELSON VELEZ Manager: NELSON VELEZ Manager: Matrix Sample Request ID Sample Temperature: O Matrix Sample Request ID Preservative Preservative Project Manager: Project Manager: Project Manager: Matrix Sample Request ID No Matrix Preservative Pres	BLAGG ENGR. / BP AMERICA Standard Rush Project Name: Project Name: JAQUEZ GC B # 3E Project #: Project Manager: Received by: Date Time Reinquished by:	BLAGG ENGR. / BP AMERICA Standard	BLAGG ENGR. / BP AMERICA Project Name: Standard	BLAGG ENGR. / BP AMERICA Standard Rush Project Name: AN.	BLAGG ENGR. / BP AMERICA Project Name: Project Name: Project Manager: Ckage: ard Level 4 (Full Validation) Ion: Sampler: NELSON VELEZ On Ice: V Yes: No Sample Temperature: / O Sample Temperature: / O Image: Near No Indiana NALL ANALL ANAL ANALL ANAL ANAL	BLAGG ENGR. / BP AMERICA Standard Rush Project Name: Www.hallen A901 Hawkins NE - Alb Tel. 505-345-3975 Froject Manager: Project Manager: NELSON VELEZ Analy Anal	BLAGG ENGR. / BP AMERICA Project Name: Project Name: Analysis Analys	BLAGE ENGR. / BP AMERICA Standard Rush Project Name:	BLAGENGR. / BP AMERICA Project Name: Project Manager:	BLAGE ENGR. / BP AMERICA Standard Rush Project Name:	BLAGE ENGR. / BP AMERICA Container Project Name: Project Manager: Project Manage	BLAGE ENGR. / BP AMERICA Project Name: JAQUEZ GC B # 3E BLOOMFIELD, NM 87413 Project #: Project Manager: Sampler: NELSON VELEZ On loe: Nelson VELEZ	BLAGG ENGR. / BP AMERICA Standard Rush Project Name: Www.hallenvironmental.com A901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Tel. 505-345-3407 Tel. 505-345-3407	BLAGG ENGR. / 8P AMERICA Project Name: Project Manager:

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206018 04-Jun-12

Client:

Project:

Blagg Engineering Gutierrez GC B #1

Sample ID MB-2183

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 2183

RunNo: 3153

Prep Date: 5/31/2012

Analysis Date: 6/1/2012

PQL

1.5

SeqNo: 87137 SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Analyte Chloride

HighLimit

%RPD **RPDLimit** Qual

Result ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-2183

Client ID: LCSS

RunNo: 3153

Prep Date:

5/31/2012

Batch ID: 2183 Analysis Date: 6/1/2012

SeqNo: 87138

Units: mg/Kg

Qual

Analyte

PQL

15.00

%RPD

Result

1.5

RPDLimit

14

SPK value SPK Ref Val %REC LowLimit

Chloride

94.6

HighLimit

110

- E Value above quantitation range
- J Analyte detected below quantitation limits RPD outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1206018**

04-Jun-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID MB-2197	SampT	ype: ME	BLK	Test	Code: El	PA Method	8015B: Dies	el Range C	Organics	
Client ID: PBS	Batch	ID: 21	97	R	unNo: 3	139				
Prep Date: 6/1/2012	Analysis D	ate: 6/	1/2012	S	eqNo: 8	7007	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		109	82.1	121			

3	Sample ID LCS-2197	Sampi	ype: LC	5	res	Code: El	A Method	8015B: Diese	Range C	rganics	
	Client ID: LCSS	Batch	ID: 219	97	R	tunNo: 3	139				
F	Prep Date: 6/1/2012	Analysis Da	ate: 6/	1/2012	S	eqNo: 8	7008	Units: mg/K	g		
A	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Di	esel Range Organics (DRO)	39	10	50.00	0	78.1	52.6	130			
	Surr: DNOP	4.6		5.000		92.8	82.1	121			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206018

04-Jun-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID 5mL rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batch	n ID: R3	160	F	RunNo: 3	160				
Prep Date:	Analysis D	ate: 6/	1/2012	8	SeqNo: 8	7250	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.7	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		85.5	71.7	132			
Surr: Toluene-d8	0.46		0.5000		91.9	70	130			

Sample ID 100ng Ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	nt ID: LCSS Batch ID: R3160 Date: Analysis Date: 6/1/201: lyte Result PQL SPK pne 1.1 0.050 ne 0.98 0.050 r: 1,2-Dichloroethane-d4 0.42 0.42					160				
Prep Date:	Analysis D	ate: 6/	1/2012	7251	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	70.7	123			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.8	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		95.0	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		86.8	71.7	132			
Surr: Toluene-d8	0.42		0.5000		84 7	70	130			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206018

04-Jun-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID 5mL rb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID: PBS	Batch	ID: R3	160	F	RunNo: 3	160				
Prep Date:	Analysis D	ate: 6/	1/2012	S	SeqNo: 8	7267	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.7	70	130			
Sample ID 2.5ug gro lcs	SampT	ype: LC	s	Tes	Code: El	PA Method	8015B Mod:	Gasoline	Range	

Client ID: LCSS	Batch	ID: R3	160	F	RunNo: 3	160					
Prep Date:	Analysis D	ate: 6/	1/2012	8	SeqNo: 8	7268	Units: mg/K	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	85	115				
Surr: BFB	490		500.0		97.4	70	130				

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name:	BLAGG	,		Wo	ork Ord	der I	Numb	oer: '	1206018		
Rec	eived by/date	· AG	,	06/01/12								
Log	ged By:	Michelle G	•	6/1/2012 10:0	5:00 AM				mi	hell Garcia		
	npleted By:	Michelle G		6/1/2012 10:1	4:00 AM				mi	hells Garria		
	iewed By:	06/01							-	quite quite		
	in of Cust		,,,,									
	Were seals i					Yes		No	:	Not Present ✔		
		Custody comp	olete?			Yes	V			Not Present		
		sample deliv				Cour						
		oumpie dem	V61001			Qual	101					
Log	<u>In</u>											
4.	Coolers are	present? (see	e 19. for cooler :	specific information	on)	Yes	V	No		NA	*	
5	Mas an atter	mnt made to	cool the sample	ne?		Yes	V	No		NA		
٥.	vvao un acco	mpt made to	ood the sumple	.5:		100						
6.	Were all sam	nples receive	d at a temperat	ure of >0° C to 6	.0°C	Yes	~	No		NA		
7.	Sample(s) in	proper conta	ainer(s)?			Yes	V	No				
8.	Sufficient sai	mple volume	for indicated te	st(s)?		Yes	V	No				
9.	Are samples	(except VOA	and ONG) pro	perly preserved?		Yes	V	No				
10.	Was preserv	ative added t	to bottles?			Yes		No	V	NA		
11.	VOA vials ha	ave zero head	dspace?			Yes		No		No VOA Vials ✔	,	
			ers received bro	oken?		Yes		No	v			
13.		vork match be pancies on ch	ottle labels? nain of custody)			Yes	V	No		# of present bottles che for pH:		
14.	Are matrices	correctly ide	ntified on Chain	of Custody?		Yes	V	No			(<2	or >12 unless noted)
15.	Is it clear who	at analyses v	vere requested?	•		Yes	v	No		Adju	sted?	
16.			le to be met? authorization.)			Yes	v	No		Chec	ked by:	
Spe	cial Handi	ing (if app	olicable)									
17.	Was client no	otified of all d	liscrepancies wi	th this order?		Yes		No	ī	NA V	,	
	Person	Notified:		A PARTICIPATION OF THE PARTICI	Date:	emants made (garly / Y)	at which the		- ded da Mes	No. No. of Contracts		
	By Who	om:				eMa	il :	P	one	Fax In P	erson	
	Regardi	ing:	SANTA SA A Sanjada Algores mura ma ma ma na na na na na na		And the second s		EF TOTAL		A.7A.C.7.1.40-84	The control of the co	TETAT 1/2/02/9 1/7048 41.1091	ATA-
	Client Ir	nstructions:		A STATE OF THE STA		Mariana com an				A PART OF THE PART		Mark Control of the C
18.	Additional rea	marks:										
40	Caslar Inf	man a di a c										
19.	Cooler Infor		Condition	Seal Intact Sea	al No I sa	eal Da	te	ı	Siana	ed By		
	1	1.0		'es					Jigirk	2		

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Gutierrez GC B #1 Project: Sample ID MB-3423 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: Batch ID: 3423 RunNo: 5004 PRS Prep Date: 8/21/2012 Analysis Date: 8/21/2012 SeqNo: 141603 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result POL HighLimit Qual Chloride ND Sample ID LCS-3423 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 3423 RunNo: 5004 Prep Date: 8/21/2012 Analysis Date: 8/21/2012 SeqNo: 141604 Units: mg/Kg SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Chloride 14 1.5 15.00 93.7 90 110 0 Sample ID 1208829-008AMS SampType: MS TestCode: EPA Method 300.0: Anions Client ID: **BatchQC** Batch ID: 3423 RunNo: 5004 Prep Date: 8/21/2012 Analysis Date: 8/21/2012 SeaNo: 141627 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit HighLimit Chloride 36 7.5 18.31 15 00 64 4 117 Sample ID 1208829-008AMSD SampType: MSD TestCode: EPA Method 300.0: Anions Client ID: **BatchQC** RunNo: 5004 Batch ID: 3423 Prep Date: 8/21/2012 Analysis Date: 8/21/2012 SeqNo: 141628 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 64.4 Chloride 31 7.5 15.00 18.31 87.4 117 13.0 20 Sample ID MB-3444 SampType: MBLK TestCode: EPA Method 300.0: Anions PBS Client ID: Batch ID: 3444 RunNo: 5039 Prep Date: 8/22/2012 Analysis Date: 8/22/2012 SegNo: 142802 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Chloride ND 1.5 Sample ID LCS-3444 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 3444 RunNo: 5039 Prep Date: 8/22/2012 Analysis Date: 8/22/2012 SeqNo: 142803 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC %RPD **RPDLimit** PQL LowLimit HighLimit Qual Chloride 14 1.5 94.4 110 15.00 Sample ID 1208919-001BMS SampType: MS TestCode: EPA Method 300.0: Anions Client ID: **BatchQC** Batch ID: 3444 RunNo: 5039 Prep Date: 8/22/2012 Analysis Date: 8/22/2012 SeqNo: 142810 Units: mg/Kg

Qualifiers:

Analyte

Chloride

B Analyte detected in the associated Method Blank

Result

ND

PQL

15

SPK value SPK Ref Val

3.992

15.00

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

E Value above quantitation range

%REC

69.5

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Lowl imit

64.4

HighLimit

117

%RPD

Page 3 of 10

Qual

RPDLimit

WO#

1208877

29-Aug-12

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877

29-Aug-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID 1208919-001BMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID:

BatchQC 8/22/2012 Batch ID: 3444

RunNo: 5039

Units: mg/Kg

Analyte

Prep Date:

Analysis Date: 8/22/2012

SeqNo: 142811

Result

PQL SPK value SPK Ref Val 15

%REC

LowLimit

HighLimit

%RPD **RPDLimit** 0

Qual

Chloride

ND

15.00

3.992

69.7

64.4

117

20

Qualifiers:

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Value above quantitation range

Analyte detected below quantitation limits J

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Page 4 of 10

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Gutierrez GC B #1 Project: SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Sample ID MB-3411 Batch ID: 3411 RunNo: 4989 Client ID: **PBS** SeqNo: 141274 Units: mg/Kg Prep Date: 8/20/2012 Analysis Date: 8/21/2012 SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) ND 10 Surr: DNOP 11 10.00 112 77.6 140 TestCode: EPA Method 8015B: Diesel Range Organics Sample ID LCS-3411 SampType: LCS Client ID: LCSS Batch ID: 3411 RunNo: 4989 Prep Date: 8/20/2012 Analysis Date: 8/21/2012 SeaNo: 141294 Units: mg/Kg **RPDLimit** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Analyte PQL Diesel Range Organics (DRO) 50.00 79.5 52.6 40 10 130 5.000 Surr: DNOP 4.1 82.9 77.6 140 Sample ID MB-3438 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: PBS Batch ID: 3438 RunNo: 5017 Analysis Date: 8/22/2012 SegNo: 142066 Prep Date: 8/22/2012 Units: mg/Kg SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Qual Analyte Result PQL %REC LowLimit Diesel Range Organics (DRO) ND 10 Surr: DNOP 11 10.00 112 77.6 140 Sample ID LCS-3438 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics LCSS Batch ID: 3438 RunNo: 5017 Client ID: Prep Date: 8/22/2012 Analysis Date: 8/22/2012 SeqNo: 142334 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 37 50.00 52.6 Diesel Range Organics (DRO) 10 73.1 130 Surr: DNOP 4.4 5.000 88.2 77.6 140 Sample ID 1208857-001AMS SampType: MS TestCode: EPA Method 8015B: Diesel Range Organics Client ID: **BatchQC** Batch ID: 3438 RunNo: 5044 Prep Date: 8/22/2012 Analysis Date: 8/23/2012 SeqNo: 143789 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 9.9 49.70 78.9 57.2 146 Surr: DNOP 4.6 4.970 93 0 776 140 Sample ID 1208857-001AMSD SampType: MSD TestCode: EPA Method 8015B: Diesel Range Organics Client ID: BatchQC Batch ID: 3438 RunNo: 5044 Prep Date: 8/22/2012 Analysis Date: 8/23/2012 SeqNo: 143790 Units: mg/Kg

Qualifiers:

Analyte

Surr: DNOP

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Result

39

4.1

PQL

10

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Diesel Range Organics (DRO)

E Value above quantitation range

%REC

78.6

81.7

0

SPK value SPK Ref Val

50.00

5.000

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

LowLimit

57.2

77.6

HighLimit

146

140

Page 5 of 10

RPDLimit

24.5

0

Qual

%RPD

0.154

0

WO#:

1208877

29-Aug-12

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877

29-Aug-12

Client:

Blagg Engineering

Projects

Gutierrez GC B #1

Project:	Gutierrez	GC B #1									
Sample ID	MB-3410	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 34	10	F	RunNo: 4	995				
Prep Date:	8/20/2012	Analysis Da	ate: 8/	21/2012		SeqNo: 1	42179	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (GRO)	ND	5.0					440			
Surr: BFB		960		1000		96.1	84	116			
Sample ID	LCS-3410	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	е	
Client ID:	LCSS	Batch	ID: 34	10	F	RunNo: 4	995				
Prep Date:	8/20/2012	Analysis Da	ate: 8/	21/2012		SeqNo: 1	42180	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (GRO)	21	5.0	25.00	0	85.4	74	117			
Surr: BFB		1000		1000		101	84	116			
Sample ID	1208821-001AMS	SampTy	ype: MS	8	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	е	
Client ID:	BatchQC	Batch	ID: 34	10	F	RunNo: 4	995				
Prep Date:	8/20/2012	Analysis Da	ate: 8/	22/2012	5	SeqNo: 1	42302	Units: mg/k	(g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	92 4300	19	24.08 3854	5.875	356 111	70 84	130 116			S
Sull. BFB		4300		3654		111	04	110			
	1208821-001AMSI							8015B: Gaso	line Rang	е	
	BatchQC		ID: 34			RunNo: 4					
Prep Date:	8/20/2012	Analysis Da	ate: 8/	22/2012	5	SeqNo: 1	42303	Units: mg/K	g		
Analyte	0 1 (000)	Result	PQL	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TO SERVE OF	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	110 4200	19	23.67 3788	5.875	427 112	70 84	130 116	15.5 0	22.1 0	S
Sample ID		SampTy						8015B: Gaso	line Rang	е	
	PBS		ID: 34			RunNo: 5					
Prep Date:	8/21/2012	Analysis Da	ate: 8/			SeqNo: 1	43036	Units: mg/K	_		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
O !! D	0										
Gasoline Range Surr: BFB	Organics (GRO)	ND 970	5.0	1000		97.4	84	116			
Surr: BFB		970			Too				line Pana	•	
Surr: BFB Sample ID	LCS-3428	970 SampTy	ype: LC	S		tCode: El	PA Method	116 8015B: Gaso	line Rang	e	
Surr: BFB Sample ID Client ID:	LCS-3428	970 SampTy Batch	ype: LC	S 28	F	tCode: El	PA Method 025	8015B: Gaso		e	
Surr: BFB Sample ID Client ID: Prep Date:	LCS-3428	970 SampTy Batch Analysis Da	ype: LC ID: 34: ate: 8/	S 28 22/2012	F	tCode: El RunNo: 5 SeqNo: 1	PA Method 025 43037	8015B: Gaso	(g		Ouel
Surr: BFB Sample ID Client ID: Prep Date: Analyte	LCS-3428 LCSS 8/21/2012	970 SampTy Batch	ype: LC	S 28 22/2012	F	tCode: El RunNo: 5 SeqNo: 1	PA Method 025	8015B: Gaso		e RPDLimit	Qual
Surr: BFB Sample ID Client ID: Prep Date: Analyte	LCS-3428	970 SampTy Batch Analysis Da	ype: LC ID: 34 ate: 8 /	\$ 28 22/2012 SPK value	F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1	PA Method 025 43037 LowLimit	8015B: Gaso Units: mg/K	(g		Qual

Qualifiers:

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208877

29-Aug-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID 1208857-001AMS

SampType: MS Batch ID: 3428 TestCode: EPA Method 8015B: Gasoline Range

70

84

84

Client ID: **BatchQC**

RunNo: 5025

Prep Date: 8/21/2012

Analysis Date: 8/22/2012

SeqNo: 143040

92.7

Units: mg/Kg

130

116

HighLimit

Analyte

Result PQL SPK value SPK Ref Val 23 4.9 24.49

979.4

%REC LowLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO) Surr: BFB

Sample ID 1208857-001AMSD

990

101

0

0

TestCode: EPA Method 8015B: Gasoline Range

Client ID: **BatchQC**

Surr: BFB

SampType: MSD Batch ID: 3428

RunNo: 5025

Prep Date:

8/21/2012 Analysis Date: 8/22/2012

Result

22

1000

SeqNo: 143041

Units: mg/Kg

116

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val **PQL** 4.9 24.39 975.6

%REC LowLimit 89.4 102

HighLimit %RPD 70 130 4.08

RPDLimit Qual 22.1 0 0

Qualifiers:

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Value above quantitation range

J Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

R RPD outside accepted recovery limits Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208877 29-Aug-12

Client: Blagg Engineering
Project: Gutierrez GC B #1

Sample ID LCS-3410	SampTy	me: LC:	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			
Xylenes, Total	ND	0.10								
Ethylbenzene	ND	0.050								
Toluene	ND	0.050								
Benzene	ND	0.050								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 8/20/2012	Analysis Da	ate: 8/2	21/2012	8	SeqNo: 1	42255	Units: mg/K	g		
Client ID: PBS	Batch	ID: 34 1	10	F	RunNo: 4	995				
Sample ID MB-3410	SampTy	/pe: MB	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		

Sample ID LCS-3410	Sampi	ype. LC	3	ies	icode. El	A Wethod	6021B. Voiai	lies		
Client ID: LCSS	Batch	1D: 34	10	R	RunNo: 4	995				
Prep Date: 8/20/2012	Analysis D	ate: 8/	21/2012	S	SeqNo: 1	42267	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.2	76.3	117			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	77	116			
Xylenes, Total	3.1	0.10	3.000	0	104	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID 1208787-001AMS	SampT	ype: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: 34	10	F	RunNo: 4	995				
Prep Date: 8/20/2012	Analysis D	ate: 8/	21/2012	8	SeqNo: 1	42299	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.047	0.9488	0	102	67.2	113			
Toluene	1.0	0.047	0.9488	0	106	62.1	116			
Ethylbenzene	1.0	0.047	0.9488	0	108	67.9	127			
ylenes, Total 3.1 0.095 2.8				0	110	60.6	134			
Surr: 4-Bromofluorobenzene	Surr: 4-Bromofluorobenzene 1.0 0.94					80	120			

Sample ID 1208787	001AMSD Samp	orype: MS	SD	les	tCode: El	A Method	8021B: Vola	tiles		
Client ID: BatchQC	Bat	ch ID: 34	10	F	RunNo: 4	995				
Prep Date: 8/20/20	12 Analysis	Date: 8/	21/2012	8	SeqNo: 1	42300	Units: mg/F	⟨g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.047	0.9346	0	102	67.2	113	1.51	14.3	
Toluene	1.0	0.047	0.9346	0	108	62.1	116	0.335	15.9	
Ethylbenzene	1.1	0.047	0.9346	0	113	67.9	127	3.07	14.4	
Xylenes, Total	3.2	0.093	2.804	0	113	60.6	134	1.67	12.6	
Surr: 4-Bromofluorobenz	ene 0.99		0.9346		105	80	120	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1208877**

29-Aug-12

Client: Project:

Blagg Engineering Gutierrez GC B #1

Sample ID MB-3428	Samp1	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: 34	28	F	RunNo: 5	025				
Prep Date: 8/21/2012	Analysis D	Date: 8/	22/2012	8	SeqNo: 1	43050	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID LCS-3428	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 34	28	F						
Prep Date: 8/21/2012	Analysis D	22/2012	8	SeqNo: 143051			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.2	76.3	117			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	77	116			
Xylenes, Total	3.0	0.10	3.000	0	101	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1208877**

29-Aug-12

Client: Project:

Blagg Engineering Gutierrez GC B #1

Sample ID mb-3410	SampType	MBLK	TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBS	Batch ID:	3410	RunNo: 5021						
Prep Date: 8/20/2012	Analysis Date:	Se	eqNo: 14	42159	Units: %RE	С			
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46	0.5000		92.3	70	130			
Surr: 4-Bromofluorobenzene	0.41	0.5000		81.7	70	130			
Surr: Dibromofluoromethane	0.40	0.5000		80.9	70	130			
Surr: Toluene-d8	0.40	0.5000		79.1	70	130			
Sample ID Ics-3410	SampType	SampType: LCS TestCode: EPA Method 8260B: VOLATILES							
Client ID: LCSS	Batch ID:	Batch ID: 3410			021				
Pren Date: 8/20/2012	Analysis Date:	Se	eaNo: 14	12161	Units: %RF	C			

Client ID: LCSS	Batch ID: 3410			RunNo: 5021							
Prep Date: 8/20/2012	Analysis Date: 8/21/2012			SeqNo: 142161			Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		90.9	70	130				
Surr: 4-Bromofluorobenzene	0.42		0.5000		84.0	70	130				
Surr: Dibromofluoromethane	0.44		0.5000		88.1	70	130				
Surr: Toluene-d8	0.39		0.5000		78.9	70	130				

Sample ID 1208821-002ams	SampTy	pe: MS	5	Test	tCode: El					
Client ID: BatchQC	Batch	ID: 34	10	R	RunNo: 5					
Prep Date: 8/20/2012	Analysis Da	ate: 8/	21/2012	S	SeqNo: 1	42162	Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.4859		89.7	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.4859		83.0	70	130			
Surr: Dibromofluoromethane	0.43		0.4859		87.9	70	130			
Surr: Toluene-d8	0.37		0.4859		76.1	70	130			

Sample ID 1208821-002amsd	SampTy	/pe: M \$	SD	TestCode: EPA Method 8260B: VOLATILES							
Client ID: BatchQC	Batch	ID: 34	10	R	RunNo: 5						
Prep Date: 8/20/2012	Analysis Da	ate: 8/	/21/2012	SeqNo: 142163 Units: %RI				EC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.42		0.4583		92.3	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.39		0.4583		84.8	70	130	0	0		
Surr: Dibromofluoromethane	0.41		0.4583		89.5	70	130	0	0		
Surr: Toluene-d8	0.35		0.4583		77.3	70	130	0	0		

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Work Order Number: 1208877 Received by/date Ashley Gallegos 8/21/2012 10:31:00 AM Logged By: Ashley Gallegos Completed By: 8/21/2012 10:43:35 AM Reviewed By: Chain of Custody Yes No 🗆 Not Present 1. Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In NA 🗌 Yes V No 4. Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗌 5. Was an attempt made to cool the samples? Yes V No NA 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 9. Are samples (except VOA and ONG) properly preserved? Yes No V NA 🗌 10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? Yes V No 15. Is it clear what analyses were requested? Yes V No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes No NA V 17. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.0 Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208C22

05-Sep-12

Client:

Blagg Engineering

Project:	GUTIERREZ GC	B #1								
Sample ID: MB-3	536 Sam	рТуре: МІ	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Ва	tch ID: 35	36	F	RunNo: 5	191				
Prep Date: 8/29	2012 Analysis	Date: 8	/30/2012	5	SeqNo: 1	47637	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) ND	10								
Surr: DNOP	11		10.00		111	77.6	140			
Sample ID: LCS-3	536 Sam	рТуре: LC	s	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Ва	tch ID: 35	36	F	RunNo: 5	191				
Prep Date: 8/29	2012 Analysis	Date: 8/	/30/2012	8	SeqNo: 14	47697	Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) 36	10	50.00	0	71.0	52.6	130			
Surr: DNOP	4.3		5.000		85.5	77.6	140			
Sample ID: 12080	19-001AMS Sam	рТуре: М	S	Tes	tCode: EF	PA Method	8015B: Diese	el Range C	Organics	
Client ID: Batch	QC Ba	tch ID: 35	36	F	RunNo: 5	191				
Prep Date: 8/29	2012 Analysis	Date: 8/	30/2012	S	SeqNo: 14	47930	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	(DRO) 36	9.8	49.02	0	73.5	57.2	146			
Surr: DNOP	4.4		4.902		90.6	77.6	140			
Sample ID: 12080	19-001AMSD Sam	туре: М	SD	Tes	tCode: EF	PA Method	8015B: Diese	el Range C	Organics	
Client ID: Batch	QC Ba	ch ID: 35	36	R	RunNo: 51	191				
Prep Date: 8/29/	2012 Analysis	Date: 8/	30/2012	S	SeqNo: 14	47968	Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics		9.7		0	75.9	57.2	146	2.21	24.5	
Surr: DNOP	4.3		4.854		88.6	77.6	140	0	0	

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208C22

05-Sep-12

Client:

Blagg Engineering

Project:

GUTIERREZ GC B #1

Sample ID:	MB-3529
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

84

Batch ID: 3529

RunNo: 5215

%RPD

Prep Date: 8/29/2012

Analysis Date: 8/30/2012

SeqNo: 148958

Units: mg/Kg

HighLimit

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result ND 980

1000

SPK value SPK Ref Val

97.8

%REC

116

RPDLimit

Sample ID: LCS-3529

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS

Batch ID: 3529

PQL

5.0

RunNo: 5215

HighLimit

Prep Date: 8/29/2012 Analysis Date: 8/30/2012

SeqNo: 148959

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val Result PQL 5.0 25.00 1000

%REC LowLimit 96.3 101

0

74 84 %RPD **RPDLimit**

Surr: BFB

24 1000

117 116 Qual

Qualifiers:

Analyte detected in the associated Method Blank В

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

R RPD outside accepted recovery limits

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208C22

05-Sep-12

Client:

Blagg Engineering

Project:

GUTIERREZ GC B #1

Sample ID: MB-3529	Samp	Type: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 35	29	F	RunNo: 5	215				
Prep Date: 8/29/2012	Analysis [Date: 8/	30/2012	8	SeqNo: 1	48983	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Sample ID: LCS-3529	SampType: LCS			Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 352	29	F	RunNo: 5	215				
Prep Date: 8/29/2012	Analysis [Date: 8/	30/2012	S	SeqNo: 1	48984	Units: mg/K	g		
Prep Date: 8/29/2012 Analyte	Analysis [PQL		SPK Ref Val	SeqNo: 14	48984 LowLimit	Units: mg/K HighLimit	%RPD	RPDLimit	Qual
									RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit		RPDLimit	Qual
Analyte Benzene	Result 0.96	PQL 0.050	SPK value 1.000	SPK Ref Val	%REC 95.9	LowLimit 76.3	HighLimit		RPDLimit	Qual
Analyte Benzene Toluene	Result 0.96 0.98	PQL 0.050 0.050	SPK value 1.000 1.000	SPK Ref Val 0 0	%REC 95.9 97.6	LowLimit 76.3 80	HighLimit 117 120		RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene	0.96 0.98 1.0	PQL 0.050 0.050 0.050	SPK value 1.000 1.000 1.000	SPK Ref Val 0 0 0	%REC 95.9 97.6 101	76.3 80 77	HighLimit 117 120 116		RPDLimit	Qual

Sample ID: 1208C19-001AMS	SampT	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BatchQC	Batch	Batch ID: 3529			RunNo: 5						
Prep Date: 8/29/2012	Analysis Date: 8/30/2012			SeqNo: 148988 Units:				ng/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.047	0.9363	0	106	67.2	113				
Toluene	1.0	0.047	0.9363	0	111	62.1	116				
Ethylbenzene	1.1	0.047	0.9363	0.003486	116	67.9	127				
Xylenes, Total	3.3	0.094	2.809	0	117	60.6	134				
Surr: 4-Bromofluorobenzene	0.98		0.9363		105	80	120				

Sample ID: 1208C19-001AMS	D SampType: MSD			Test	tCode: El	iles				
Client ID: BatchQC	Batch II	Batch ID: 3529			RunNo: 5					
Prep Date: 8/29/2012	Analysis Date	e: 8/3	30/2012	S	SeqNo: 1	48989	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9653	0	107	67.2	113	4.13	14.3	
Toluene	1.1	0.048	0.9653	0	111	62.1	116	2.16	15.9	
Ethylbenzene	1.1	0.048	0.9653	0.003486	113	67.9	127	0.732	14.4	
Xylenes, Total	3.3	0.097	2.896	0	115	60.6	134	1.15	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9653		105	80	120	0	0	

Qualifiers:

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 120

1208C22 05-Sep-12

Client:

Blagg Engineering

Project:

GUTIERREZ GC B #1

Sample ID: 1208c20-001ams	SampT	SampType: MS			tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: BatchQC	Batch ID: 3529			F	RunNo: 5	213				
Prep Date: 8/29/2012	Analysis D	ate: 8/	31/2012	S	SeqNo: 1	48801	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.4950		82.0	70	130			
Surr: 4-Bromofluorobenzene	0.40		0.4950		81.5	70	130			
Surr: Dibromofluoromethane	0.46		0.4950		93.0	70	130			
Surr: Toluene-d8	0.35		0.4950		71.4	70	130			

Sample ID: 1208c20-001amsd	SampTy	SampType: MSD			tCode: El					
Client ID: BatchQC	Batch	Batch ID: 3529			RunNo: 5					
Prep Date: 8/29/2012	Analysis Da	ate: 8/	31/2012	8	SeqNo: 1	48804	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.40		0.4912		82.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.39		0.4912		79.8	70	130	0	0	
Surr: Dibromofluoromethane	0.44		0.4912		88.9	70	130	0	0	
Surr: Toluene-d8	0.37		0.4912		76.0	70	130	0	0	

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

9.6

8.2

10.00

10.00

WO#: **1208C22**

05-Sep-12

Client:

Blagg Engineering

Project:

Surr: Dibromofluoromethane

Surr: Toluene-d8

GUTIERREZ GC B #1

Sample ID: 5ml-rb	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260: Volatil	es Short I	_ist	
Client ID: PBW	Batc	Batch ID: R5213			RunNo: 5					
Prep Date:	Analysis [Date: 8/	30/2012	5	SeqNo: 1	48266	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.2		10.00		81.6	70	130			
Surr: 4-Bromofluorobenzene	8.4		10.00		84.3	70	130			
Surr: Dibromofluoromethane	7.9		10.00		79.5	70	130			
Surr: Toluene-d8	8.5		10.00		84.7	70	130			
Sample ID: 100ng Ics	Samp	Type: LC	s	Tes	_ist					
Client ID: LCSW	Batc	h ID: R5	213	F	RunNo: 5	213				
Prep Date:	Analysis [Analysis Date: 8/30/2012			SeqNo: 148267			С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.6	70	130			
Surr: 4-Bromofluorobenzene	8.6		10.00		85.8	70	130			

96.3

82.5

70

70

130

130

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1208C22 05-Sep-12

Client:

Blagg Engineering

Project:

GUTIERREZ GC B #1

Sample ID: 1208a02-003a ms	SampT	SampType: MS			tCode: El	ATILES				
Client ID: BatchQC	Batch ID: R5213			R	RunNo: 5213					
Prep Date:	Analysis Date: 8/30/2012			S	SeqNo: 14	48677	Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.5		10.00		85.4	70	130			
Surr: 4-Bromofluorobenzene	8.2		10.00		82.1	70	130			
Surr: Dibromofluoromethane	8.1		10.00		81.3	70	130			
Surr: Toluene-d8	8.4		10.00		84.3	70	130			

Sample ID: 1208a02-003a msd	I SampT	SampType: MSD			tCode: El	PA Method	ATILES			
Client ID: BatchQC	Batch ID: R5213			R	RunNo: 5					
Prep Date:	Analysis D	ate: 8/	30/2012	S	SeqNo: 1	48678	Units: %REG	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.9		10.00		89.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	8.6		10.00		86.4	70	130	0	0	
Surr: Dibromofluoromethane	9.1		10.00		91.5	70	130	0	0	
Surr: Toluene-d8	8.4		10.00		84.1	70	130	0	0	

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name: BLAC	4	,		V	Vork Or	der N	ımbe	er: 12	208C22	
Rec	eived by/date:	HG	08/2	28/12							
Logg	ged By: Anne	e Thorne		8/28/201	2 10:00:00 AM	Λ		6	am.	The	
Con	npleted By: Anne	Thorne		8/28/201	2			4	anne,	Sham	
Rev	iewed By: IO	08/28	3/12								
<u>Cha</u>	in of Custody	,	,								
1.	Were seals intact?					Yes		No [Not Present 🗹	
2.	Is Chain of Custody	y comple	te?			Yes	V	No [Not Present	
3.	How was the samp	le deliver	red?			Cour	<u>ier</u>				
Log	<u>In</u>										
4.	Coolers are presen	nt? (see 1	9. for cooler	specific infor	mation)	Yes	V 1	No [NA 🗆	
5.	Was an attempt ma	ade to co	ol the sampl	les?		Yes	V 1	No [na 🗆	
6.	Were all samples re	eceived a	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No [NA 🗔	
7.	Sample(s) in prope	r contain	er(s)?			Yes	V 1	No [
8.	Sufficient sample v	olume fo	r indicated te	est(s)?		Yes	V	No [
9.	Are samples (excep	pt VOA a	nd ONG) pro	operly presen	ved?	Yes	V	No [
10.	Was preservative a	idded to I	oottles?			Yes	n	No 🛂	1	NA 🗆	
11.	VOA vials have zer	o headsp	ace?			Yes		No [N	No VOA Vials 🗹	
12.	Were any sample of	containers	s received b	roken?		Yes	1	Vo ▼			
	Does paperwork ma (Note discrepancies)		Yes	V	No [# of preserved bottles checked for pH:	
14.	Are matrices correc	ctly identi	fied on Chai	n of Custody?	?	Yes	✓ N	No [(<2 or >12 unless noted)	
15.	Is it clear what anal	lyses wer	e requested	?		Yes	V	No [Adjusted?	
1 50	Were all holding tim					Yes	V	lo			
	(If no, notify custom		•							Checked by:	
	cial Handling (i				_				-1	[7]	
17.	Was client notified	of all disc	repancies w	rith this order	?	Yes		lo L		NA 🗹	
2	Person Notifie	ed:			Date					,	
	By Whom:		and the large For Edition 1 and 10 and 1	and which is the control flow of the control of the	Via: [eMa	i []	Pho	ne 🗌	Fax In Person	
	Regarding:	.	overcontractor a						14.44		
	Client Instruct	,									
18.	Additional remarks:										
								e			
19.	Cooler Information										
			Condition	Seal Intact	Seal No S	Seal Da	te	Sig	gned	Ву	
	1 1.6	G	ood	Yes							

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870

24-Sep-12

Client: Project: Blagg Engineering

Gutierrez GC B #1

Sample ID	MB-3843
-----------	---------

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

LowLimit

LowLimit

77.6

Client ID: PBS

Batch ID: 3843

RunNo: 5660

Prep Date: 9/20/2012

11

SeqNo: 162084

Units: %REC

Analyte

Analysis Date: 9/21/2012

POI

106

Result

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

HighLimit

140

RPDLimit Qual

Surr: DNOP

Sample ID MB-3853

SampType: MBLK

RunNo: 5660

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

%RPD

Client ID:

Prep Date: 9/20/2012

Batch ID: 3853

Units: mg/Kg

Analyte Diesel Range Organics (DRO)

Analysis Date: 9/21/2012

SeqNo: 162085

HighLimit

Result PQL ND 10

10.00

107

140

RPDLimit Qual

Surr: DNOP

11

10.00

776

Sample ID LCS-3843

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID:

LCSS

Batch ID: 3843

RunNo: 5660

Prep Date:

9/20/2012

Analysis Date: 9/21/2012

SeqNo: 162086

Units: %REC

Qual

Analyte

Result

PQL

SPK value SPK Ref Val %REC 5.000

LowLimit

HighLimit %RPD

RPDLimit

Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Sample ID LCS-3853 Client ID: LCSS

Batch ID: 3853

RunNo: 5660

Prep Date: 9/20/2012

Analysis Date: 9/21/2012

Units: mg/Kg

Analyte

PQL SPK value SPK Ref Val 10

SegNo: 162087 %REC LowLimit

52 6

77.6

%RPD

Diesel Range Organics (DRO) Surr: DNOP

47 4.2 50.00 5.000 93.2 84.9 130 140

HighLimit %RPD **RPDLimit** Qual

Sample ID MB-3852

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Prep Date:

Client ID:

PBS 9/20/2012

Batch ID: 3852 Analysis Date: 9/21/2012

RunNo: 5660

Qual

RPDLimit

Analyte

Result

SeqNo: 163485 SPK value SPK Ref Val %REC LowLimit

0

Units: %REC HighLimit

Surr: DNOP

Sample ID LCS-3852

LCSS

9/20/2012

SampType: LCS

10.00

SPK value SPK Ref Val %REC

77.6 140

Client ID: Prep Date:

Analyte

Surr: DNOP

Batch ID: 3852 Analysis Date: 9/21/2012

44

12

5.000

RunNo: 5660 SeqNo: 163486

87.8

Units: %REC

HighLimit

140

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD **RPDLimit** Qual

- Qualifiers: Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits Sample pH greater than 2
- - Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded

LowLimit

77.6

ND Not Detected at the Reporting Limit RPD outside accepted recovery limits Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870

24-Sep-12

Client: Project: Blagg Engineering Gutierrez GC B #1

Sample ID MB-3891

Result

SampType: MBLK Batch ID: 3891

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: **PBS**

RunNo: 5709

Prep Date:

9/24/2012

Analysis Date: 9/24/2012

SeqNo: 164194

Units: %REC

HighLimit

RPDLimit Qual

Analyte Surr: DNOP

11

10.00

SPK value SPK Ref Val %REC

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

Sample ID LCS-3891

Client ID: LCSS SampType: LCS

Batch ID: 3891

RunNo: 5709

LowLimit

77.6

Units: %REC

Analyte

Prep Date:

9/24/2012

Analysis Date: 9/24/2012 **PQL**

SPK value SPK Ref Val %REC

SeqNo: 164208

77.6

LowLimit

HighLimit

Qual

Surr: DNOP

4.5

Result

5.000

90.7

140

%RPD **RPDLimit**

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Not Detected at the Reporting Limit ND

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209870

24-Sep-12

Client:	Blagg Engineering
Project:	Gutierrez GC B #1

Project: Gutierre:	z GC B #1			
Sample ID 5ML RB	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: PBS	Batch ID: R5667	RunNo: 5667		
Prep Date:	Analysis Date: 9/20/2012	SeqNo: 162320	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	nit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	1000 1000	101 84	116	
Sample ID 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: LCSS	Batch ID: R5667	RunNo: 5667		
Prep Date:	Analysis Date: 9/20/2012	SeqNo: 162321	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	nit Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 102 74	117	
Surr: BFB	1100 1000	105 84	116	
Sample ID MB-3832	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: PBS	Batch ID: 3832	RunNo: 5667		
Prep Date: 9/19/2012	Analysis Date: 9/20/2012	SeqNo: 162327	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLim	nit Qual
Surr: BFB	1000 1000	100 84	116	
Sample ID LCS-3832	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: LCSS	Batch ID: 3832	RunNo: 5667		

Sample ID LCS-3832	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: LCSS	Batch ID: 3832	RunNo: 5667		
Prep Date: 9/19/2012	Analysis Date: 9/20/2012	SeqNo: 162328	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RP	DLimit Qual
Surr: BFB	1100 1000	105 84	116	

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH greater than 2

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209870**

24-Sep-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID 5ML RB	Samp	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: R5	6667	F	RunNo: 5	667				
Prep Date:	Analysis [Date: 9/	20/2012	5	SeqNo: 1	62348	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			
Sample ID 100NG BTEX LC Client ID: LCSS		Type: LC h ID: R5			RunNo: 5		8021B: Volat	tiles		
Prep Date:	Analysis [Date: 9/	20/2012	8	SeqNo: 1	62349	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.9	76.3	117			
Toluene	0.97	0.050	1.000	0	97.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	77	116			
Xylenes, Total	3.0	0.10	3.000	0	98.6	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID MB-3832	SampTyp	e: MBLK		Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch II	D: 3832		F	RunNo: 8	5667				
Prep Date: 9/19/2012	Analysis Dat	e: 9/20/2 0	12	SeqNo: 162351 Units: %REC						
Analyte	Result	PQL SP	value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID LCS-3832	SampType: LCS	TestCode: EPA Method	8021B: Volatiles				
Client ID: LCSS	Batch ID: 3832	RunNo: 5667					
Prep Date: 9/19/2012	Analysis Date: 9/20/2012	SeqNo: 162352 Units: %REC					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			

Surr: 4-Bromofluorobenzene 1.1 1.000 107 80 120

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



11uu Environmeniai Anaiysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website; www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1209870 Client Name: BLAGG Received by/date: Logged By: Michelle Garcia 9/20/2012 10:00:00 AM 9/20/2012 10:07:34 AM Completed By: Michelle Garcia Reviewed By: Chain of Custody Not Present Yes No 1 Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes V No NA 🗌 4. Coolers are present? (see 19. for cooler specific information) Yes ✔ No □ NA 🗌 5. Was an attempt made to cool the samples? Yes V No NA 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7 Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9 Are samples (except VOA and ONG) properly preserved? Yes No V NA 🗌 10. Was preservative added to bottles? Yes No No VOA Vials 11 VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No (<2 or >12 unless noted) 14. Are matrices correctly identified on Chain of Custody? Yes V No Adjusted? 15. Is it clear what analyses were requested? Yes V No 16 Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No NA 🗸 Person Notified: Date: eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Signed By Good

Hall Environmental Analysis Laboratory, Inc.

4.7

WO#:

1209922

02-Oct-12

Client:

Blagg Engineering

Project:

Surr: DNOP

Gutierrez GC B #1

Troject. Guneric	52 GC B #1								
Sample ID MB-3882	SampType: MBLK	TestCode: EPA Method	8015B: Diesel Range O	rganics					
Client ID: PBS	Batch ID: 3882 RunNo: 5697								
Prep Date: 9/22/2012	Analysis Date: 9/23/2012 SeqNo: 163829 Units: mg/Kg								
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	11 10.00	109 77.6	140						
Sample ID LCS-3882	SampType: LCS	TestCode: EPA Method	8015B: Diesel Range O	rganics					
Client ID: LCSS	Batch ID: 3882	RunNo: 5697							
Prep Date: 9/22/2012	Analysis Date: 9/23/2012	SeqNo: 163830	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Diesel Range Organics (DRO)	35 10 50.00	0 69.6 52.6	130						

93.5

77.6

140

5.000

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

1000

1000

WO#: 1209922

02-Oct-12

Client:

Blagg Engineering

Project: Gutierre	ez GC B #1			
Sample ID MB-3879	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range	1
Client ID: PBS	Batch ID: 3879	RunNo: 5692		
Prep Date: 9/21/2012	Analysis Date: 9/22/2012	SeqNo: 163520	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	980 1000	98.2 84	116	
Sample ID LCS-3879	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: LCSS	Batch ID: 3879	RunNo: 5692		
Prep Date: 9/21/2012	Analysis Date: 9/22/2012	SeqNo: 163521	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	23 5.0 25.00	0 93.2 74	117	
Surr: BFB	1000 1000	101 84	116	
Sample ID MB-3881	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: PBS	Batch ID: 3881	RunNo: 5824		
Prep Date: 9/22/2012	Analysis Date: 9/27/2012	SeqNo: 167530	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	990 1000	99.3 84	116	
Sample ID LCS-3881	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	
Client ID: LCSS	Batch ID: 3881	RunNo: 5824		
Prep Date: 9/22/2012	Analysis Date: 9/27/2012	SeqNo: 167531	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH greater than 2

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits

104

116

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209922** *02-Oct-12*

Client: Project:		ngineering z GC B #1									
Sample ID	MB-3879	SampT	уре: М	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	ID: 38	79	F	RunNo: 5	692				
Prep Date:	9/21/2012	Analysis D	ate: 9/	22/2012	5	SeqNo: 1	63543	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
	ofluorobenzene	1.0		1.000		99.9	80	120			
Sample ID	LCS-3879	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batch	ID: 38	79	F	RunNo: 5	692				
Prep Date:	9/21/2012	Analysis D	ate: 9/	22/2012	8	SeqNo: 1	63544	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.050	1.000	0	96.0	76.3	117			
Toluene		0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene		0.99	0.050	1.000	0	98.6	77	116			
Xylenes, Total		3.0	0.10	3.000	0	99.3	76.7	117			
Surr: 4-Brom	ofluorobenzene	1.0		1.000		104	80	120			
Sample ID	MB-3881	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batch	ID: 38	81	F	RunNo: 5	783				
Prep Date:	9/22/2012	Analysis D	ate: 9/	26/2012	S	SeqNo: 1	66796	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.0		1.000		99.7	80	120			
Sample ID	LCS-3881	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	ID: 38	81	F	RunNo: 5	783				
Prep Date:	9/22/2012	Analysis D	ate: 9/	26/2012	8	SeqNo: 1	66797	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

1.0

1.000

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

Surr: 4-Bromofluorobenzene

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

104

80

120

R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.com

Sample Log-In Check List

Client N	Name:	BLAGG		1 3	Wor	rk Ord	der N	Numi	ber:	1209	922				
Receive	ed by/date	AC-		ontroliz											
Logged	By:	Lindsay M	angin	9/20/2012 10:0	00:00 AM				0	syAlsy swills	20				
Comple	eted By:	Lindsay M	angin	9/21/2012 9:00	0:29 AM				O .	by Hlag	ಖ				
Review	red By:	1x	TO	og/zil)	7										ĺ
Chain	of Cust	ody l													
1. We	ere seals in	ntact?				Yes		No		N	ot Present	✓			
2. Is	Chain of C	ustody comp	olete?			Yes	V	No		No	ot Present				
3. Ho	w was the	sample deli	vered?			Couri	er								
Log In	!														
4. Co	olers are p	resent? (see	e 19. for cooler spe	ecific informatio	n)	Yes	✓	No			NA				
5. Wa	as an atten	npt made to	cool the samples?	•		Yes	V	No			NA				
6. We	ere all sam	ples receive	d at a temperature	e of >0° C to 6.0	0°C	Yes	V	No			NA				
7. Sai	mple(s) in	proper conta	ainer(s)?			Yes	V	No							
8. Suf	fficient san	nple volume	for indicated test(s)?		Yes	V	No							
9. Are	e samples	(except VOA	and ONG) prope	rly preserved?		Yes	V	No							
10. Wa	as preserva	ative added f	to bottles?			Yes		No	V		NA				
11. VO	OA vials ha	ve zero head	dspace?			Yes		No		No \	/OA Vials	V			
12. We	ere any sar	nple contain	ers received broke	en?	,	Yes		No	V						
		ork match be ancies on ch	ottle labels? nain of custody)			Yes	V	No			# of pres bottles of for pH:				
14. Are	e matrices	correctly ide	ntified on Chain of	Custody?		Yes	✓	No			,	(<2	or >12	unless noted))
15. Is it	it clear wha	nt analyses v	vere requested?		,	Yes	V	No			Ad	justed?			
			le to be met? authorization.)		,	Yes	V	No			C.L	a also d bu			
		ng (if app									CII	ecked by			
			liscrepancies with	this order?	,	Yes		No			NA	V			
	Person I	Notified:			Date:			****(*)	1. 1. 1.		-				
	By Who	m:			,	eMail	· [Ph	one	F	ax 🗀 In	Person			
	Regardi			MAN T AN AREA PROMISE OF SAME AND MAN AND AREA OF SAME AN	N and 10 beauty in condition 17 to 18 to					11. July 17. 400	et a the landau a diame	Transfer and the second			
	Client In	structions:				***									
18. Add	ditional ren	narks:													
	oler Inforr	<u>nation</u> │ Temp ºC	Condition Se	eal Intact Seal	No Sea	ıl Dat	e		Signe	ed By					
1		1.0	Good Yes												

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

03-Oct-12

Client: Project:

Blagg Engineering

r roject.

Gutierrez GC B #1

Sample ID MB-3948	SampT	ype: ME	BLK	TestCode: EPA Method 8015B: Diesel Range Organics						
Client ID: PBS	Batch	Batch ID: 3948 RunNo: 5796								
Prep Date: 9/26/2012	Analysis D	ate: 9/	27/2012	SeqNo: 166783 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		108	77.6	140			

Sample ID LCS-3948	SampTy	ype: LC	S	Tes	TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID: LCSS	Batch	ID: 39	48	F	RunNo: 5	796				
Prep Date: 9/26/2012	Analysis Da	ate: 9/	27/2012	8	SeqNo: 1	66784	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.8	52.6	130			
Surr: DNOP	4.8		5.000		96.0	77.6	140			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

03-Oct-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID MB-3940	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range
Client ID: PBS	Batch ID: 3940	RunNo: 5841
Prep Date: 9/26/2012	Analysis Date: 9/29/2012	SeqNo: 168217 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	980 1000	98.4 84 116
Sample ID LCS-3940	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range
Client ID: LCSS	Batch ID: 3940	RunNo: 5841
Prep Date: 9/26/2012	Analysis Date: 9/29/2012	SeqNo: 168218 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.00	0 97.8 74 117
Surr: BFB	1000 1000	105 84 116
Sample ID MB-3969	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range
Client ID: PBS	Batch ID: 3969	RunNo: 5856
Prep Date: 9/27/2012	Analysis Date: 9/29/2012	SeqNo: 168356 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	980 1000	98.4 84 116
Sample ID I CS-3969	SampType: LCS	TestCode: FPA Method 8015B: Gasoline Range

Curr. DED		1000		1000		102	0.4	116				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date:	9/27/2012	Analysis Da	te: 9/	29/2012	S	SeqNo:	168357	Units: %RE	C			
Client ID:	LCSS	Batch I	D: 39	69	F	RunNo:	5856					
Sample ID	LCS-3969	SampTy	be: LC	S	Tes	tCode: E	EPA Method	8015B: Gase	oline Rang	е		

Surr: BFB 1000 1000 103

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH greater than 2

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209B22**

03-Oct-12

Client:	
D	

Blagg Engineering

Project: Gutier	rez GC B #1								
Sample ID MB-3940	SampType: M	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID: 39	940	F	RunNo: 5	841				
Prep Date: 9/26/2012	Analysis Date: 9	/29/2012	5	SeqNo: 1	68236	Units: mg/h	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.050								
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Xylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	0.98	1.000		98.1	80	120			
Sample ID LCS-3940	SampType: L0	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID: 39	940	F	RunNo: 5	841				
Prep Date: 9/26/2012	Analysis Date: 9	/29/2012	5	SeqNo: 1	68237	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90 0.050	1.000	0	89.6	76.3	117			
Toluene	0.89 0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.91 0.050	1.000	0	90.8	77	116			
Xylenes, Total	2.7 0.10	3.000	0	91.4	76.7	117			
Surr: 4-Bromofluorobenzene	1.0	1.000		104	80	120			
Sample ID MB-3969	SampType: M	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID: 39	69	F	RunNo: 5	856				
Prep Date: 9/27/2012	Analysis Date: 9	/29/2012	8	SeqNo: 1	68386	Units: %RE	С		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99	1.000		98.6	80	120			
Sample ID LCS-3969	SampType: LC	cs	Tes	Code: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID: 39	69	F	tunNo: 5	856				
Prep Date: 9/27/2012	Analysis Date: 9	/29/2012	S	eqNo: 1	68387	Units: %RE	С		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1	1.000		106	80	120			

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209B22

Qual

RPDLimit

03-Oct-12

Client: Project: Blagg Engineering Gutierrez GC B #1

SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Sample ID mb-3940 Client ID: **PBS** Batch ID: 3940 RunNo: 5874

Prep Date: 9/26/2012 Analysis Date: 9/30/2012 SeqNo: 169090 Units: %REC

%RPD Analyte Result SPK value SPK Ref Val %REC LowLimit **HighLimit** 0.43 Surr: 1.2-Dichloroethane-d4 0.5000 86.2 130 70 Surr: 4-Bromofluorobenzene 0.38 0.5000 75.8 130 Surr: Dibromofluoromethane 0.36 0.5000 71.4 70 130 Surr: Toluene-d8 0.36 0.5000 72.9 70 130

Sample ID Ics-3940 SampType: LCS TestCode: EPA Method 8260B: VOLATILES LCSS Client ID: Batch ID: 3940 RunNo: 5874

9/26/2012 Analysis Date: 9/30/2012 SeqNo: 169092

Prep Date: Units: %REC LowLimit SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result PQL Surr: 1,2-Dichloroethane-d4 0.43 0.5000 86.3 70 130 Surr: 4-Bromofluorobenzene 0.38 0.5000 76.1 70 130 Surr: Dibromofluoromethane 0.55 0.5000 110 70 130 Surr: Toluene-d8 0.37 0.5000 73.5 70 130

Sample ID mb-3969 SampType: MBLK TestCode: EPA Method 8260B: VOLATILES

Client ID: **PBS** Batch ID: 3969 RunNo: 5909

SeqNo: 170213 Prep Date: 9/27/2012 Analysis Date: 10/1/2012 Units: %REC

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 1,2-Dichloroethane-d4 0.42 0.5000 84.7 70 130 0.40 79.5 70 Surr: 4-Bromofluorobenzene 0.5000 130 Surr: Dibromofluoromethane 0.50 0.5000 100 70 130 Surr: Toluene-d8 0.35 0.5000 71.0 70 130

Sample ID Ics-3969 SampType: LCS TestCode: EPA Method 8260B: VOLATILES Client ID: LCSS Batch ID: 3969 RunNo: 5909

Prep Date: 9/27/2012	Analysis Da	ate: 10	0/1/2012	S	eqNo: 1	70214	Units: %RE	С			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130				
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.8	70	130				
Surr: Dibromofluoromethane	0.40		0.5000		79.2	70	130				
Surr: Toluene-d8	0.36		0.5000		72.3	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits I
- Sample pH greater than 2

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering
Project: Gutierrez GC B #1

Sample ID mb-3881	SampT	ype: ME	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch	ID: 38	81	F	RunNo: 5	909						
Prep Date: 9/22/2012	Analysis D	ate: 10)/1/2012	S	SeqNo: 1	70206	Units: %REC					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.3	70	130					
Surr: 4-Bromofluorobenzene	0.38		0.5000		76.7	70	130					
Surr: Dibromofluoromethane	0.41		0.5000		81.2	70	130					
Surr: Toluene-d8	0.36		0.5000		72.6	70	130					

Sample ID LCS-3881	SampTy	pe: LC	S	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch	ID: 38	81	R	RunNo: 5	909						
Prep Date: 9/22/2012	0/1/2012	S										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 1,2-Dichloroethane-d4	0.44	0.5000			87.6		130					
Surr: 4-Bromofluorobenzene	0.39		0.5000		78.4	70	70 130					
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130					
Surr: Toluene-d8	0.37		0.5000		73.2	70	130					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

WO#:

1209B22

03-Oct-12



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clier	nt Name:	BLAGG		,	,	Work Or	der l	Numl	ber:	1209B	22			
Rec	eived by/dat	te: Me	'	nale	-/10									
Logg	ged By:	Lindsay Ma		9/25/2012 1	0:00:00 A	M			Ofm	lyHlys WHS	,			
Com	npleted By:	Lindsay Ma	angin	9/25/2012 3	1	1			Jane	by Hlaggo	,			
Revi	iewed By	+7		09/21	0/12									
Cha	in of Cus	stody			1									
1.	Were seals	intact?				Yes	i i	No	i	Not	Present V			
2.	Is Chain of	Custody comp	olete?			Yes	~	No		Not	Present			
3.	How was th	e sample deli	vered?			Cour	rier							
Log	<u>In</u>													
4.	Coolers are	present? (see	e 19. for cooler s	specific informati	ion)	Yes	V	No	!		NA			
5.	Was an atte	empt made to	cool the sample	s?		Yes	V	No	١.		NA			
6.	Were all sa	mples receive	d at a temperati	ure of >0° C to	6.0°C	Yes	V	No	i l		NA			
7.	Sample(s) i	in proper conta	ainer(s)?			Yes	V	No	1					
8.	Sufficient sa	ample volume	for indicated tes	st(s)?		Yes	V	No	1 1					
9.	Are sample	s (except VOA	and ONG) proj	erly preserved	?	Yes	V	No	1					
10.	Was preser	rvative added	to bottles?			Yes		No	V		NA			
11	VOA vials h	nave zero head	denace?			Yes	1 1	No		No V	DA Vials 🗸			
			ers received bro	ken?		Yes			~	140 00	JA VIGIS			
	Does paper	rwork match be				Yes			7		# of preserve			
14.	Are matrice	es correctly ide	ntified on Chain	of Custody?		Yes	V	No	Į.	1	for pH:	(<2 o	r >12 unless r	oted)
15.	Is it clear w	hat analyses v	vere requested?			Yes	V	No	i'	1	Adjust	ed?		
16.		olding times ab	le to be met? authorization.)			Yes	V	No	: [!	Checke	ed by:		
Spe	cial Hand	lling (if app	olicable)									,		
17.	Was client	notified of all o	liscrepancies wit	th this order?		Yes	1	No	! !		NA 🗸			
	Person	n Notified:			Date:	Mary Services of Services	***	ATA MATAY	CL AND SPECIAL PROPERTY.	- 1	-			
	By Wh	nom:		TO SHE ALL AND AND ADDRESS OF THE PARTY OF T	Via:	eMa	il :	¦ Ph	one	Fa	x In Pers	son		
	Regar	ding:	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		WWW.cr. D. Year	TAXABLE PARTY OF THE PARTY OF T	maren.	anne avo	WAR PERSONNEL	Water transmission		ACAD TO SERVICE OF THE PARTY OF		
	Client	Instructions:		ACCORDING TO A CO. C. C.			MARKAN III.II	******	ALLES TO A 1	MATERIA MANAGEMENT		William a sea		
18.	Additional re	emarks:												
19	Cooler Info	ormation												
	Cooler N		Condition	Seal Intact Se	al No	Seal Da	te	5	Signe	d Bv	1			
	1	1.0		98										

Hall Environmental Analysis Laboratory, Inc.

WO#:

1210004

09-Oct-12

Client: Project:

Blagg Engineering Gutierrez GC B #1

SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Sample ID MB-4019 Client ID: **PBS** Batch ID: 4019 RunNo: 5904 Prep Date: 10/1/2012 Analysis Date: 10/2/2012 SeqNo: 170131 Units: mg/Kg HighLimit %RPD **RPDLimit** Result SPK value SPK Ref Val %REC LowLimit Qual Analyte Diesel Range Organics (DRO) ND 10 77.6 Surr: DNOP 11 10.00 106 140

Sample ID LCS-4019 TestCode: EPA Method 8015B: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 4019 RunNo: 5904 Analysis Date: 10/2/2012 SeqNo: 170132 Units: mg/Kg Prep Date: 10/1/2012 %RPD **RPDLimit** Qual SPK value SPK Ref Val %REC LowLimit HighLimit Result Analyte Diesel Range Organics (DRO) 42 10 50.00 84.2 52.6 130 88.0 77.6 140 Surr: DNOP 4.4 5.000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

25

1000

5.0

WO#:

1210004

09-Oct-12

Client:

Blagg Engineering

Project:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

Gutierrez GC B #1

Sample ID MB-4015	SampType: MBLK	TestCode: EPA Metho	d 8015B: Gasoline Range	
Client ID: PBS	Batch ID: 4015	RunNo: 6019		
Prep Date: 10/1/2012	Analysis Date: 10/5/2012	SeqNo: 173412	Units: mg/Kg	
Analyte	Result PQL SPK v	lue SPK Ref Val %REC LowLimit	t HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	1000	000 100 84	116	
Sample ID LCS-4015	SampType: LCS	TestCode: EPA Metho	d 8015B: Gasoline Range	K
Client ID: LCSS	Batch ID: 4015	RunNo: 6019		
Prep Date: 10/1/2012	Analysis Date: 10/5/2012	SeqNo: 173413	Units: mg/Kg	

0

%REC LowLimit

74

84

101

103

HighLimit

117

116

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

25.00

1000

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1210004**

09-Oct-12

Client:

Blagg Engineering

Project:

Gutierrez GC B #1

Sample ID MB-4015	SampT	ype: ME	BLK	Tes	tCode: El	tiles							
Client ID: PBS	Batch	ID: 40	15	F	RunNo: 5	980							
Prep Date: 10/1/2012	10/1/2012 Analysis Date: 10/4/2012				SeqNo: 172741 U				Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.050											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120						

Sample ID LCS-4015	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batch	ID: 40	15	R	RunNo: 5	980								
Prep Date: 10/1/2012	Analysis D	ate: 10	0/4/2012	S	SeqNo: 1	72742	Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.0	0.050	1.000	0	101	76.3	117							
Toluene	1.0	0.050	1.000	0	103	80	120							
Ethylbenzene	1.1	0.050	1.000	0	105	77	116							
Xylenes, Total	3.2	0.10	3.000	0	105	76.7	117							
Surr: 4-Bromofluorobenzene	1.1		1 000		111	80	120							

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.com

Sample Log-In Check List

Clier	nt Name:	BLAGG		1 /	Work O	der N	lumb	oer:	121000)4		
Rec	eived by/date	AF		09/29/12								
Logg	ged By:	Lindsay Ma	ngin 9	/29/2012 10:00:00 /	MA			0	ly Holgo			
Com	npleted By:	Lindsay Ma	ngin 1	0/1/2012 4:58:12 Al	M			1	ly Allego			
Revi	lewed By:		= 10	0/01/12								
Cha	in of Cust	ody	& The state of the	1								
1.	Were seals i	ntact?			Yes		No		Not	Present 🗹		
2.	Is Chain of C	custody compl	lete?		Yes	V	No		Not	Present		
3.	How was the	sample delive	ered?		Cour	ier						
Log	<u>In</u>											
4.	Coolers are	present? (see	19. for cooler spec	ific information)	Yes	V	No			NA 🗌		
5.	Was an atter	mpt made to c	cool the samples?		Yes	✓	No			NA 🗆		
6.	Were all sam	nples received	l at a temperature o	of >0° C to 6.0°C	Yes	V	No			NA 🗆		
7.	Sample(s) in	proper contai	ner(s)?		Yes	V	No					
8.	Sufficient sar	mple volume f	for indicated test(s)	?	Yes	V	No					
9.	Are samples	(except VOA	and ONG) properly	preserved?	Yes	V	No					
10.	Was preserv	ative added to	bottles?		Yes		No	V		NA \square		
11	VOA vials ha	ve zero heads	enace?		Yes		No l		No VO	A Vials 🗹		
			ers received broken	?	Yes	_	No !		T. C	A VIGIO C		
13.	Does paperw	ork match bot			Yes		No [# of preserve		
			tified on Chain of C	ustody?	Yes	V	No [for pH:	(<2 or >	12 unless noted)
15.	Is it clear who	at analyses we	ere requested?	•	Yes	V 1	No [f	Adjuste	2.20	
		ling times able			Yes	V	No [Checke	d by:	
		ing (if appl								Onconc		
			screpancies with thi	s order?	Yes		No [NA 🗹		
	Person	Notified:		Date:				_				
	By Who	om:		Via:	eMai		Pho	one [Fax	In Pers	on	
	Regardi	ing:		The second of th	Second in a 1 of feet and		**************************************	######################################			de E Fo , of a hand colonial colonial	
.	Client Ir	estructions:										
18.	Additional rer	marks:										
19.	Cooler Infor	Temp °C	Condition Seal Good Yes	Intact Seal No	Seal Dat	e	S	igne	d By			

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308729

27-Aug-13

Client:

Blagg Engineering

Project:

Gutierrez GC B#1

Sample ID MB

SampType: MBLK

TestCode: EPA Method 200.7: Dissolved Metals

Client ID:

PBW

Batch ID: R12837

PQL

RunNo: 12837

Prep Date:

Analysis Date: 8/22/2013

SegNo: 365905

Units: mg/L HighLimit

%RPD

RPDLimit

Qual

Analyte Iron

ND 0.020

Result

SampType: LCS

TestCode: EPA Method 200.7: Dissolved Metals

SPK value SPK Ref Val %REC LowLimit

SPK value SPK Ref Val

Client ID: LCSW

Sample ID LCS

Batch ID: R12837

RunNo: 12837

LowLimit

Prep Date:

Analysis Date: 8/22/2013

SeqNo: 365906

Units: mg/L

Analyte

%REC

HighLimit

%RPD **RPDLimit** Qual

Result PQL

85

115

0.50 0.020 0.5000 99.9 Iron

Qualifiers:

0

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

RSD is greater than RSDlimit

- J Analyte detected below quantitation limits
- RPD outside accepted recovery limits R Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 7 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308729

27-Aug-13

Client:	
Project	

Blagg Engineering

Project:	Gutierrez	GC B#1									
Sample ID	MB SampType: MBLK TestCode: EPA Method 300.0: Anions										
Client ID:	PBW	Batch ID: R12706			F	RunNo: 1	2706				
Prep Date:		Analysis D	ate: 8	/16/2013	3	SeqNo: 3	61749	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		ND	0.10								
Chloride		ND	0.50								
Nitrogen, Nitra	te (As N)	ND	0.10								
Sample ID	Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions										
Client ID:	LCSW	Batch	ID: R1	2706	F	RunNo: 1	2706				
Prep Date:		Analysis D	ate: 8/	16/2013	5	SeqNo: 3	61750	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		0.48	0.10	0.5000	0	96.0	90	110			
Chloride		4.6	0.50	5.000	0	92.7	90	110			
Nitrogen, Nitra	te (As N)	2.3	0.10	2.500	0	93.4	90	110			
Sample ID	Sample ID 1308730-001AMS SampType: MS TestCode: EPA Method 300.0: Anions										
Client ID:	BatchQC	Batch	ID: R1	2706	F	RunNo: 1	2706				
Prep Date:		Analysis Date: 8/16/2013			8	SeqNo: 3	61766	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		1.3	0.10	0.5000	0.7902	93.0	76.9	114			
Chloride		9.2	0.50	5.000	4.141	101	89.9	119			
Sample ID	1308730-001AMS	SampT	уре: М	SD	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID:	BatchQC	Batch	ID: R1	2706	F	RunNo: 1:	2706				
Prep Date:		Analysis Date: 8/16/2013			S	SeqNo: 3	61767	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride		1.3	0.10	0.5000	0.7902	95.2	76.9	114	0.865	20	
Chloride		9.2	0.50	5.000	4.141	102	89.9	119	0.342	20	
Sample ID	МВ	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID:	PBW	Batch	ID: R1	2777	F	2777					
Prep Date:		Analysis Date: 8/20/2013			SeqNo: 364260			Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Marine Control of the		The second section is									

Qualifiers:

Sulfate

Value exceeds Maximum Contaminant Level.

ND

0.50

- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 8 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308729

27-Aug-13

Client: Project: Blagg Engineering Gutierrez GC B#1

Sample ID LCS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R12777

RunNo: 12777

Prep Date:

Analysis Date: 8/20/2013

SeqNo: 364261

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

Units: mg/L HighLimit

RPDLimit

Qual

10.00

93.4

%RPD

Sulfate

9.3

0.50

0

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308729

27-Aug-13

Client: Project: Blagg Engineering

Sample ID 5ML RB

Gutierrez GC B#1

SampType: MBLK Batch ID: R12735 TestCode: EPA Method 8021B: Volatiles

Client ID: **PBW**

Surr: 4-Bromofluorobenzene

Analysis Date: 8/19/2013

PQL

RunNo: 12735

SPK value SPK Ref Val %REC LowLimit

SeqNo: 362592

Units: µg/L HighLimit

RPDLimit

%RPD

%RPD

RPDLimit Qual

Qual

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Prep Date:

ND 1.0 ND 1.0 1.0 ND ND 2.0

Result

21

20.00

105

129

Sample ID 100NG BTEX LCS Client ID:

SampType: LCS LCSW

Batch ID: R12735

RunNo: 12735

69.4

TestCode: EPA Method 8021B: Volatiles

Prep Date:

Analysis Date: 8/19/2013

SegNo: 362593

Units: µg/L

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Benzene	20	1.0	20.00	0	98.9	80	120
Toluene	20	1.0	20.00	0	99.8	80	120
Ethylbenzene	20	1.0	20.00	0	99.3	80	120
Xylenes, Total	60	2.0	60.00	0	99.9	80	120
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 10 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308729

27-Aug-13

Client:

Blagg Engineering

Project:

Gutierrez GC B#1

Sample ID MB-8911

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW**

Prep Date:

Analyte

8/19/2013

Batch ID: 8911 Analysis Date: 8/21/2013 RunNo: 12778 SeqNo: 364355

Units: mg/L

%RPD **RPDLimit**

Qual

Total Dissolved Solids

ND 20.0

SampType: LCS

PQL

TestCode: SM2540C MOD: Total Dissolved Solids

Sample ID LCS-8911 Client ID: LCSW

Batch ID: 8911

Result

4920

Result

RunNo: 12778

Prep Date: 8/19/2013 Analysis Date: 8/21/2013

SeqNo: 364356

Units: mg/L

HighLimit

%RPD

Analyte

Result

LowLimit

HighLimit

Qual

Total Dissolved Solids

PQL 1020 20.0

SPK value SPK Ref Val %REC 1000

2840

SPK value SPK Ref Val %REC LowLimit

102

120

RPDLimit

Sample ID 1308716-009AMS

SampType: MS

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: Prep Date:

BatchQC 8/19/2013

Batch ID: 8911

2000

RunNo: 12778

Units: mg/L

HighLimit

120

Analyte

Analysis Date: 8/21/2013 PQL

40.0

SeqNo: 364363 SPK value SPK Ref Val %REC

LowLimit

80

80

%RPD

RPDLimit Qual

Total Dissolved Solids

Client ID:

Prep Date:

SampType: MSD

TestCode: SM2540C MOD: Total Dissolved Solids

104

80

Analyte

BatchQC 8/19/2013

Sample ID 1308716-009AMSD

Batch ID: 8911 Analysis Date: 8/21/2013 RunNo: 12778 SeqNo: 364364

Units: mg/L

RPDLimit

Qual

Total Dissolved Solids

Result PQL 4940 40.0 SPK value SPK Ref Val 2000

2840

%REC 105

LowLimit

HighLimit

120

%RPD 0.324

5

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Е Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 11 of 11



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG		Work Order Numb	per: 1308	729		Rcpth	No: 1
Received by/date:	Ashley Galle	08 egos 8/	16/2013 10:07:00	AM		A		
Completed By:	Ashley Galle	egos 8/	16/2013 2:20:58 1	PM		AZ		
Reviewed By:	IO	08	3/19/13			V		
Chain of Custo	od <u>y</u>							
1. Custody seals	s intact on sar	mple bottles?		Yes		No !	Not Present	/
2. Is Chain of Cu	ustody comple	ete?		Yes	V	No	Not Present	
3. How was the	sample delive	red?		Cour	ier			
Log In								
	npt made to c	ool the samples?		Yes	V	No	NA	1
5. Were all sam	ples received	at a temperature of	>0° C to 6.0°C	Yes	v	No	NA :	I
6. Sample(s) in	proper contai	ner(s)?		Yes	~	No		
7. Sufficient sam	nple volume fo	or indicated test(s)?		Yes	~	No		
8. Are samples ((except VOA	and ONG) properly p	preserved?	Yes	V	No i		
9. Was preserva	ative added to	bottles?		Yes	:	No V	NA	
10.VOA vials hav	ve zero heads	pace?		Yes	V	No :	No VOA Vials	
		ers received broken?		Yes	. ;	No 🗸		
. ,							# of preserved bottles checked	10
12. Does paperwo				Yes	~	No	The state of the s	<2/or >12 unless noted)
(Note discrepa			Cubata	Yes		No	Adjusted	A .
13. Are matrices of		tified on Chain of Cu	istody?	Yes		No :		No
15. Were all holdi				Yes		No :	Checked b	oy: M
(If no, notify c				103				
Special Handle	ing (if ann	licable)						
		screpancies with this	order?	Yes	1	No	NA .	v :
	Notified:		Date	TAXABLE DISTRIBUTION OF THE PARTY OF THE PAR			w	
By Who	-	interferencia de la cita de la constante de la	Via:		ail !	Phone Fa	x In Person	
Regardi	Care Care Care Care Care Care Care Care		monoment and a second	; CIVI	an ;	, Thomas is a	X IIII CIGOT	<u> </u>
	nstructions:			13km24138444141444		CANADA III III ABB MARIANI II II III ABA	MARKA MINISTRALIA A PARTICIPATION OF A PARTICIPATIO	-
17. Additional rer	,ı							
18. Cooler Infor	mation							
Cooler No	1	Condition Seal Good Yes	Intact Seal No	Seal D	ate	Signed By		

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601774

02-Feb-16

Client:

Blagg Engineering

Project:

Jaquez GC B #3E

Sample ID MB-A

SampType: MBLK

TestCode: EPA Method 200.7: Dissolved Metals

Client ID: **PBW**

Batch ID: A31652

PQL

RunNo: 31652

Prep Date:

Analyte

Analysis Date: 1/25/2016

Result

Result

ND

SeqNo: 968461

Units: mg/L HighLimit

%RPD

RPDLimit Qual

Iron

ND 0.020

Sample ID LCS-A

SampType: LCS

TestCode: EPA Method 200.7: Dissolved Metals

SPK value SPK Ref Val %REC LowLimit

Client ID: LCSW Batch ID: A31652

RunNo: 31652

Prep Date: Analyte

Analysis Date: 1/25/2016

SeqNo: 968462

Units: mg/L

%RPD

Iron

Result PQL 0.50 0.020

SPK value SPK Ref Val %REC 0.5000

LowLimit 99.2

HighLimit

RPDLimit

Qual

Sample ID LLLCS-A

Prep Date:

SampType: LCSLL

TestCode: EPA Method 200.7: Dissolved Metals

Client ID: **BatchQC**

Batch ID: A31652 Analysis Date: 1/25/2016

RunNo: 31652 SeqNo: 968463

Units: mg/L

115

Qual

Analyte

PQL

SPK value SPK Ref Val

%REC 82.8

LowLimit

HighLimit

%RPD **RPDLimit**

Iron

0.020

0.02000

0

150

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 4

P Sample pH Not In Range

B

RL Reporting Detection Limit Sample container temperature is out of limit as specified

Not Detected at the Reporting Limit

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601774

02-Feb-16

Client:

Blagg Engineering

Project:

Jaquez GC B #3E

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBW**

Sample ID LCS

Prep Date:

Batch ID: R31665 Analysis Date: 1/25/2016

PQL

RunNo: 31665

SeqNo: 969035

Units: mg/L HighLimit

RPDLimit %RPD

Qual

Analyte Sulfate

ND 0.50

Result

SampType: LCS

TestCode: EPA Method 300.0: Anions

Batch ID: R31665

RunNo: 31665

Prep Date:

LCSW

Analysis Date: 1/25/2016

SeqNo: 969036

Units: mg/L

HighLimit %RPD **RPDLimit** Qual

SPK value SPK Ref Val

%REC 95.1

Analyte

Result **PQL** 9.5

10.00

SPK value SPK Ref Val %REC LowLimit

Client ID:

0.50

LowLimit

Sulfate

110

Qualifiers:

R

Value exceeds Maximum Contaminant Level.

RPD outside accepted recovery limits

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits

Page 3 of 4

- P Sample pH Not In Range RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1601774

02-Feb-16

Client:

Blagg Engineering

Project:

Jaquez GC B #3E

Sample ID MB-23389

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW**

Batch ID: 23389

RunNo: 31711

Prep Date: 1/25/2016 Analysis Date: 1/27/2016

SeqNo: 970440

Units: mg/L HighLimit

RPDLimit

%RPD

%RPD

Qual

Analyte Total Dissolved Solids Result PQL ND 20.0

Sample ID LCS-23389

LCSW

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Batch ID: 23389

RunNo: 31711

Prep Date: 1/25/2016

Analysis Date: 1/27/2016

SeqNo: 970441

Units: mg/L

Analyte

Client ID:

Result

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

PQL

102

80

Qual

Total Dissolved Solids

1020

20.0

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix B Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Page 4 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com BLAGG Work Order Number, 1601774 RoptNo: 1 Client Name: Received by/date: Logged By: Michelle Garcia 1/21/2016 8:15:00 AM 1/21/2016 9:24:00 AM Completed By: Michelle(Garcia Reviewed By: Chain of Custody No Not Present V 1. Custody seals intact on sample bottles? Yes No 🗌 Not Present Yes V 2 Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No. NA Yes V 4. Was an attempt made to cool the samples? NA L 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No Yes V Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No V NA 🗌 Yes 9. Was preservative added to bottles? No VOA Vials No 🗌 10, VOA vials have zero headspace? Yes Yes No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: Yes V No . 12. Does paperwork match bottle labels? 12 unless noted) (Note discrepancies on chain of custody) No No. Adjusted? 13. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No [NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date Via: eMail Phone Fax In Person By Whom Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date Good