OIL CONS. DIV DIST. 3

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

JAN 08 2016

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

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

		-				OPERA				al Report Final R		
	ompany: B			3.4.07.40.1		Contact: Jeff Peace Telephone No.: 505-326-9479						
		Court, Farm		M 87401								
racility Na	ine: Olabar	ri Gas Com	002			Facility Type: Natural gas well						
Surface Ov	vner: Fee			Mineral	Owner: 1	wner: Fee API No. 3004511632						
				LOC	ATION	OF RE	LEASE			PP880		
Unit Letter	Section 35	Township 30N	Range 9W	Feet from the 810	North/ South	South Line	Feet from the 1,850	East/\ East	West Line	County: San Juan		
		Lati	itude3	6.76291		Longitude	e107.74703					
				NA'	TURE	OF REL						
	ease: Oil/con						Release: unknow		The state of the s	Recovered: none		
	elease: Line	•				unknown	Hour of Occurrence	ce:	Date and 23, 2011	Hour of Discovery: Septemb		
Was Immedi	iate Notice G		Yes 🛛	No Not F	Required	If YES, To	Whom?					
By Whom?						Date and I						
Was a Water	rcourse Reac		Yes 🛭	No		If YES, Vo	olume Impacting	the Wate	ercourse.			
Describe Carthan 5 feet s	use of Proble	h potential of	dial Action	n Taken.* Soil inter impacts. An	extensive	e excavation		remove	d approxim	Depth to groundwater of less nately 6,000 cubic yards that		
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(24)

BP AMERICA PRODUCTION CO.

REMEDIATION REPORT

ULIBARRI GC 002 API #: 300-45-08894 (O) SECTION 35, T30N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO

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

JANUARY 2016

PREPARED BY: BLAGG ENGINEERING, INC.

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

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REMEDIATION OF SUBSURFACE PIPING RELEASE ULIBARRI GC # 2

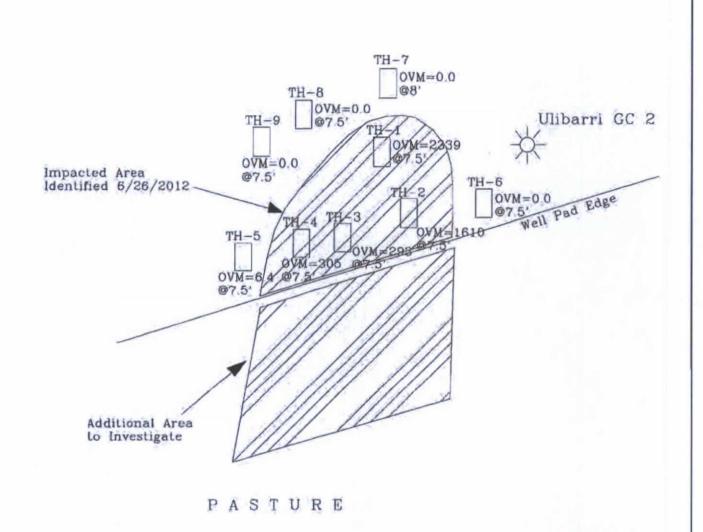
API #: 300-45-08894

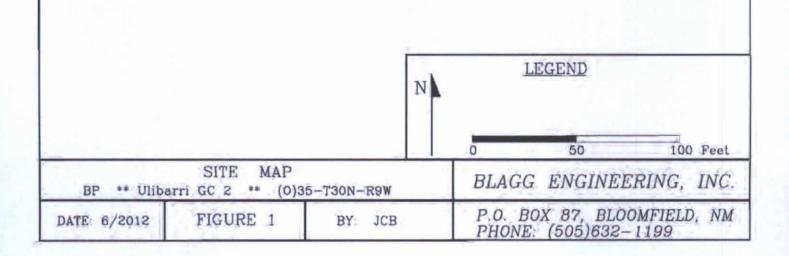
Legal Description: (Unit Letter 0, Sec. 35, T30N, R9W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

- September 23, 2011 (Friday): During removal of a drip pot due west of the well head, impacted soils
 were discovered near its piping riser. Only a visual evaluation was conducted on this date. Depth to
 groundwater was estimated between four (4) to seven (7) feet (ft.) below grade (b.g.).
- 2. June 26, 2012 (Tuesday): Initial investigation was conducted on-site only with the advancement of test holes using a backhoe (see Figure 1). A total of nine (9) test holes were advanced to a maximum depth of seven and a half (7½) ft. b.g. Samples from the total depth of each test holes were field screened, and submitted to an accredited laboratory to be analyzed for Total Petroleum Hydrocarbons (TPH) per US EPA Method 8015B, chlorides per US EPA Method 300.0, benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8021B.
- 3. June 27, 2012 (Wednesday): Subsequent investigation to further delineate lateral impacts off-site was conducted using a backhoe (see Figure 2). A total of six (6) test holes were advanced to a maximum depth of eight (8) ft. b.g. Samples from the total depth of each test holes were field screened, and submitted to an accredited laboratory to be analyzed for TPH, chlorides, and BTEX.
- 4. January 22, 2013 (Tuesday): A single grab sample [sample (160', S43W) @ 11'; noted as sample point 30 on Figure 3] was collected at the southern extent of the investigation noted above and submitted to a laboratory for TPH, BTEX, and chloride analyzes. The lab results recorded TPH = 990 milligram per kilogram (mg/Kg) or parts per million (ppm). Benzene was shown to be not detected (ND) at the reporting limits and total BTEX = 1.7 ppm.
- 5. February 5th,6th, & 8th, 2013 (Tuesday, Wednesday & Friday): Subsequent investigation to continue to delineate lateral and vertical of impacts was conducted using a geoprobe. A total of thirteen (13) borings were advanced to a maximum depth of thirteen (13) ft. b.g. Samples collected from each boring were field screened only (<u>Field and Lab Data Summary Sheets attached</u>, see also corresponding Figure 3 and Figure 4 for sample locations).
- 6. February 2013: BP commenced excavation of impacted soils.
- February 15th through March 11th, 2013: Excavation perimeter grab and composite samples were collected on nine (9) separate sampling events (<u>Field and Lab Data Summary Sheet attached</u>, see also <u>corresponding Figure 5 for sample locations</u>). Approximately 6,000 cubic yards of soil was excavated and transported to BP's Crouch Mesa Facility.

- March 22nd & 25th, 2013 (Friday & Monday): Blagg Engineering, Inc. (BEI) was contacted to provide technical support for the installation of a groundwater monitor wells for both sites on the well pad (Ulibarri GC #1A & #2). Boring logs and well completion data are attached (see also corresponding Figure 6 for well locations).
- 9. March 27, 2013 (Wednesday): BEI conducted survey of the monitor well casing tops.
- 10. April 11, 2013 (Thursday): BEI conducted development/purging of two (2) of four (4) monitor wells addressing the remedial effort at the site. The goal was to eliminate sediment accumulation during the installation process and to observe recovery patterns during high and low purging levels. All purged groundwater was disposed into the on-site low profile above-grade tank.
- 11. April 24, 2013 (Thursday): BEI conducted development/purging of two (2) of four (4) monitor wells addressing the remedial effort at the site. All purged groundwater was disposed into the on-site low profile above-grade tank.
- 12. April 29, 2013 (Monday): BEI conducted environmental sampling of the four (4) on-site monitor wells (Field Sampling Data Sheet attached).
- 13. May 16, 2013 (Thursday): BEI & BP received final lab reports for samples collected on 04/29/2013. The lab results recorded all BTEX constituents to be ND at the reporting limits or well below the New Mexico Water Quality Control Commission's groundwater closure standards (<u>Field and Lab Data Summary Sheet attached</u>).





MAP DESIGNATION	SAMPLE ID	DEPTH	DATE	TIME	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)	Chloride (ppm)
33	BH-2 (228', S36.5W)	10'	02/05/13	1239	0.6	NA	NA	NA	NA
34	BH-2 (228', S36.5W)	11'-13'	02/05/13	1242	1.0	NA	NA	NA	NA
35	BH-3 (209', S53W)	10'	02/05/13	1404	0.0	NA	NA	NA	NA
36	BH-3 (209', S53W)	13'-14'	02/05/13	1410	1.0	NA	NA	NA	NA
37	BH-4 (152', S21W	10'	02/05/13	1518	0.0	NA	NA	NA	NA
38	BH-4 (152', S21W	12'-13'	02/05/13	1524	0.0	NA	NA	NA	NA
39	BH-5 (198.5', S66.5W)	10'	02/06/13	0950	0.0	NA	NA	NA	NA
40	BH-5 (198.5', S66.5W)	12'-13'	02/06/13	0952	0.3	NA	NA	NA	NA
41	BH-6 (45', S47W)	10'	02/06/13	1023	0.6	NA	NA	NA	NA
42	BH-6 (45', S47W)	12'-13'	02/06/13	1024	2.0	NA	NA	NA	NA
43	BH-7 (208', S28W)	10'	02/06/13	1105	0.5	NA	NA	NA	NA
44	BH-7 (208', S28W)	12'-13'	02/06/13	1107	0.5	NA	NA	NA	NA
45	BH-8 (181', S28W)	10'	02/06/13	1136	2.7	NA	NA	NA	NA
46	BH-8 (181', S28W)	12'-13'	02/06/13	1138	24.1	NA	NA	NA	NA
47	BH-19 (166', S84W)	10'	02/08/13	1010	0.0	NA	NA	NA	NA
48	BH-19 (166', S84W)	12'-13'	02/08/13	1012	0.3	NA	NA	NA	NA
49	BH-20 (92', N73W)	10'	02/08/13	1053	0.0	NA	NA	NA	NA
50	BH-20 (92', N73W)	12'-13'	02/08/13	1056	0.3	NA	NA	NA	NA
51	BH-21 (103', S29W)	10'	02/08/13	1123	0.0	NA	NA	NA	NA
52	BH-21 (103', S29W)	13'-14'	02/08/13	1126	0.0	NA	NA	NA	NA
53	BH-22 (45', S47W)	10'	02/08/13	1212	264	NA	NA	NA	NA
54	BH-22 (45', S47W)	12'-13'	02/08/13	1214	188	NA	NA	NA	NA
55	BH-23 (47', N77W)	10'	02/08/13	1237	0.5	NA	NA	NA	NA
56	BH-23 (47', N77W)	12'-13'	02/08/13	1239	0.5	NA	NA	NA	NA
	NMOCD R	ELEASE CLO	SURE STANDAR	DS (soils) -	100	100	10	50	NA

Notes:

DEPTH - Footage beneath the present ground surface grade.

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.

NA - Not applicable or available

NMOCD - New Mexico Oil Conservation Division.

ULIBARRI GC #2

Unit Letter O, Section 35, T30N, R9W - API Number: 30-045-08894

Historical Release Cleanup Data (Figure 5)

MAP DESIGNATION	SAMPLE ID	DEPTH	DATE	TIME	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)	Chloride (ppm)
1	38', S62W	10'-12'	02/15/13	1238	9.7	ND	ND	ND	ND
2	38', S46W	10'-12'	02/15/13	1241	330	NA	NA	NA	NA
3	38', S46W	13'	02/15/13	1248	47	ND	ND	ND	ND
4	67', S33W	11'-13'	02/19/13	1525	101	ND	ND	ND	ND
5	103'+115', S32W (2 pt. composite)	11'-12'	02/21/13	1555	111	11	ND	ND	ND
6	159', S33W	11'-12'	02/21/13	1617	358	950	ND	1.4	ND
7	143', S25W	10'	02/23/13	0940	0.0	NA	NA	NA	NA
8	143', S25W	14'	02/23/13	0943	0.0	NA	NA	NA	NA
9	168', S38W	10'-12'	02/25/13	1138	0.0	ND	AID	ND	NID
10	179', S43W South sidewall	10'-12'	02/25/13	1140	0.0	ND	ND	ND	ND
11	190', S53W	11'-13'	02/27/13	1025	0.0	190			
12	186.5', S57W West Extent 3	11'-13'	02/27/13	1028	0.0	ND	ND	ND	ND
13	184', S61W	11'-13'	02/27/13	1030	0.0				
14	63', N74W	11'-13'	03/04/13	0901	0.0	ND	ND	ND	ND
15	94', N78W	10'-12'	03/07/13	1029	1.7	ND	ND	ND	ND
16	111', N80W	11'-13'	03/07/13	1034	42.5	ND	ND	ND	ND
17	146', S83.5W	10'-12'	03/08/13	1140	NA	ND	ND	ND	ND
18	180', S73W	11'-13'	03/11/13	1320	0.0	ND	ND	ND	ND
19	171', S88W	11'-13'	03/11/13	1335	0.0	ND	ND	ND	ND
	NMOCD REI	LEASE CLOS	SURE STANDAR	DS (soils) -	100	100	10	50	NA

Notes:

DEPTH - Footage beneath the present ground surface grade.

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.

NA - Not applicable or available

NMOCD - New Mexico Oil Conservation Division.

South sidewall 2-pt. comp - 2 point composite sample from Map Designations 9 & 10 grab samples.

West Extent 3-pt. comp - 3 point composite sample from Map Designations 11, 12, & 13 grab samples.

Ulibarri GC # 2

Unit Letter O, Section 35, T30N, R9W - API Number: 30-045-08894

Field & Laboratory Data from Groundwater Monitor Wells

	FIELD PARAMETERS										
SAMPLE ID	SAMPLE DATE	SAMPLE TIME	DEPTH TO WATER (feet)	TOTAL MW LENGTH (feet)	pH	Conductivity (µmhos/cm)	Temperature (°Celcius)	Volume Purged (gallons)			
MW # 1	04/29/13	1100	9.93	20.57	6.81	900	14.1	5.25			
MW # 4	04/29/13	1410	11.23	18.60	6.05	1,200	14.2	3.75			
MW # 5	04/29/13	1235	11.31	19.37	6.13	1,000	13.7	4.00			
MW # 6	04/29/13	1155	11.64	21.37	6.43	1,100	14.1	4.75			

NMWQCC STANDARDS -

6-9

				LA	BORATORY	PARAMETE	RS			
SAMPLE ID	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate- Nitrite as N (mg/L)	Iron (mg/L)	TDS (mg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl - benzene (μg/L)	Total Xylene (μg/L)
MW # 1	0.56	4.6	78	ND	1.8	570	ND	ND	ND	ND
MW # 4	0.56	6.6	180	ND	45	870	2.3	ND	5.2	24
MW # 5	0.57	4.9	160	ND	0.22	690	ND	ND	ND	ND
MW # 6	0.70	8.8	170	ND	16	840	ND	ND	ND	ND
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

ug/L - Microgram per liter

ND - Not detected at Reporting Limit

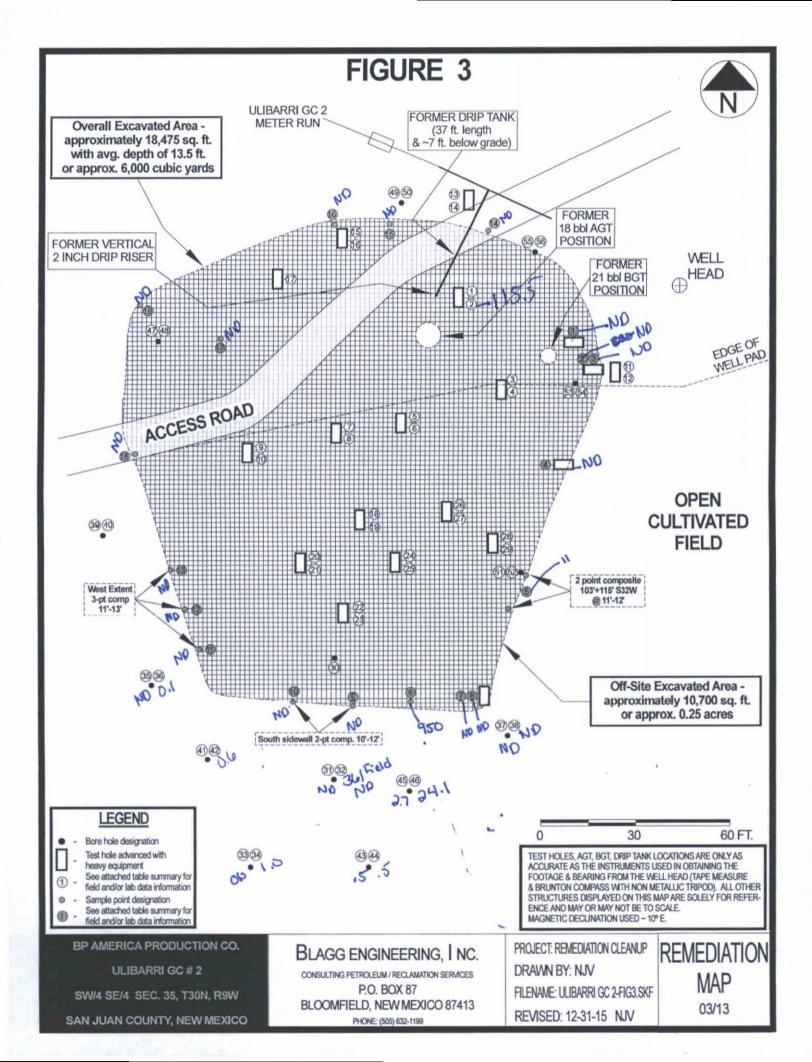
NMWQCC - New Mexico Water Quality Control Commission

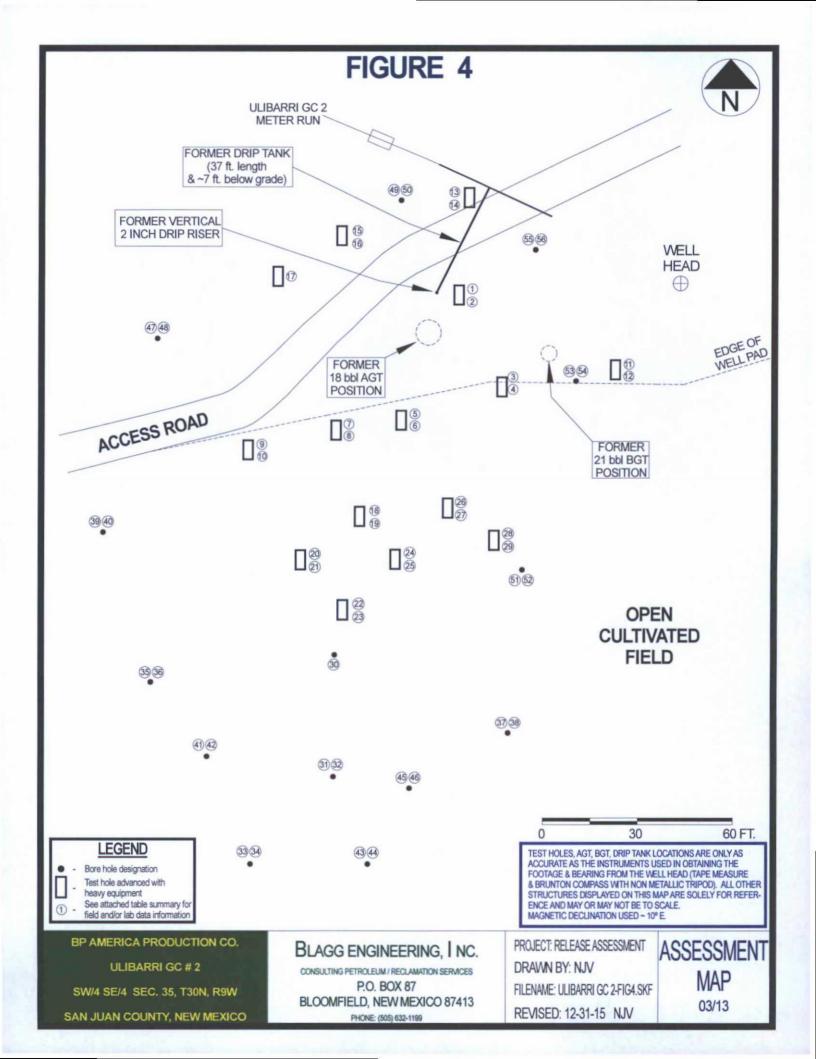
ULIBARRI GC #2

Unit Letter O, Section 35, T30N, R9W - API Number: 30-045-08894

Historical Release Assessment Data (Figures 3 & 4)

MAP DESIGNATION	SAMPLE ID	DEPTH	DATE	TIME	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)	Chloride (ppm)
1	TH #1 (70', S87W)	5'	06/26/12	1214	666	NA	NA	NA	NA
2	TH #1 (70', S87W)	7.5'	06/26/12	1217	2,339	2,690	ND	115.5	ND
3	TH #2 (65', S60W)	5'	06/26/12	1230	8.5	NA	NA	NA	NA
4	TH #2 (65', S60W)	7.5'	06/26/12	1234	1,610	243	ND	2.3	ND
5	TH #3 (98', S64W)	5'	06/26/12	1245	7.5	NA	NA	NA	NA
6	TH #3 (98', S64W)	7.5'	06/26/12	1247	293	5.5	ND	ND	ND
7	TH #4 (118', S67W)	5'	06/26/12	1301	0.0	NA	NA	NA	NA
8	TH #4 (118', S67W)	7.5'	06/26/12	1304	305	118	ND	ND	23
9	TH #5 (146', S69W)	6'	06/26/12	1313	0.0	NA	NA	NA	NA
10	TH #5 (146', S69W)	7.5'	06/26/12	1318	6.4	ND	ND	ND	ND
11	TH #6 (34', S37W)	6'	06/26/12	1324	0.0	NA	NA	NA	NA
12	TH #6 (34', S37W)	7.5'	06/26/12	1327	0.0	ND	ND	ND	ND
13	TH #7 (72', N68W)	6'	06/26/12	1348	0.0	NA	NA	NA	NA
14	TH #7 (72', N68W)	8'	06/26/12	1423	0.0	ND	ND	ND	ND
15	TH #8 (108', N82W)	5'	06/26/12	1441	0.0	NA	NA	NA	NA
16	TH #8 (108', N82W)	7.5'	06/26/12	1445	0.0	ND	ND	ND	ND
17	TH #9 (127', N89W)	7.5'	06/26/12	1455	0.0	ND	ND	ND	ND
18	TH #10 (125', S54W)	6'	06/27/12	0919	0.0	NA	NA	NA	NA
19	TH #10 (125', S54W)	8'	06/27/12	0924	1,174	580	ND	ND	ND
20	TH #11 (148', S54W)	6'	06/27/12	0936	0.0	NA	NA	NA	NA
21	TH #11 (148', S54W)	7.5'	06/27/12	0939	0.0	ND	ND	ND	ND
22	TH #12 (148', S46W)	6'	06/27/12	0948	0.0	NA	NA	NA	NA
23	TH #12 (148', S46W)	7.5'	06/27/12	0952	0.0	ND	ND	ND	ND
24	TH #13 (125', S46W)	6'	06/27/12	0957	0.0	NA	NA	NA	NA
25	TH #13 (125', S46W)	7.5'	06/27/12	0959	0.0	ND	ND	ND	ND
26	TH #14 (102', S46W)	6'	06/27/12	1020	0.0	NA	NA	NA	NA
27	TH #14 (102', S46W)	8'	06/27/12	1023	89	34	ND	ND	ND
28	TH #15 (100', S36W)	6'	06/27/12	1037	0.0	NA	NA	NA	NA
29	TH #15 (100', S36W)	8'	06/27/12	1040	0.0	ND	ND	ND	ND
30	Sample (160', S43W)	11'	01/22/13	1158	307	990	ND	1.7	ND
31	BH-1 (190.5', S35W)	10'	02/05/13	1134	1.5	NA	NA	NA	NA
32	BH-1 (190.5', S35W)	11'-13'	02/05/13	1140	361	NA	NA	NA	NA





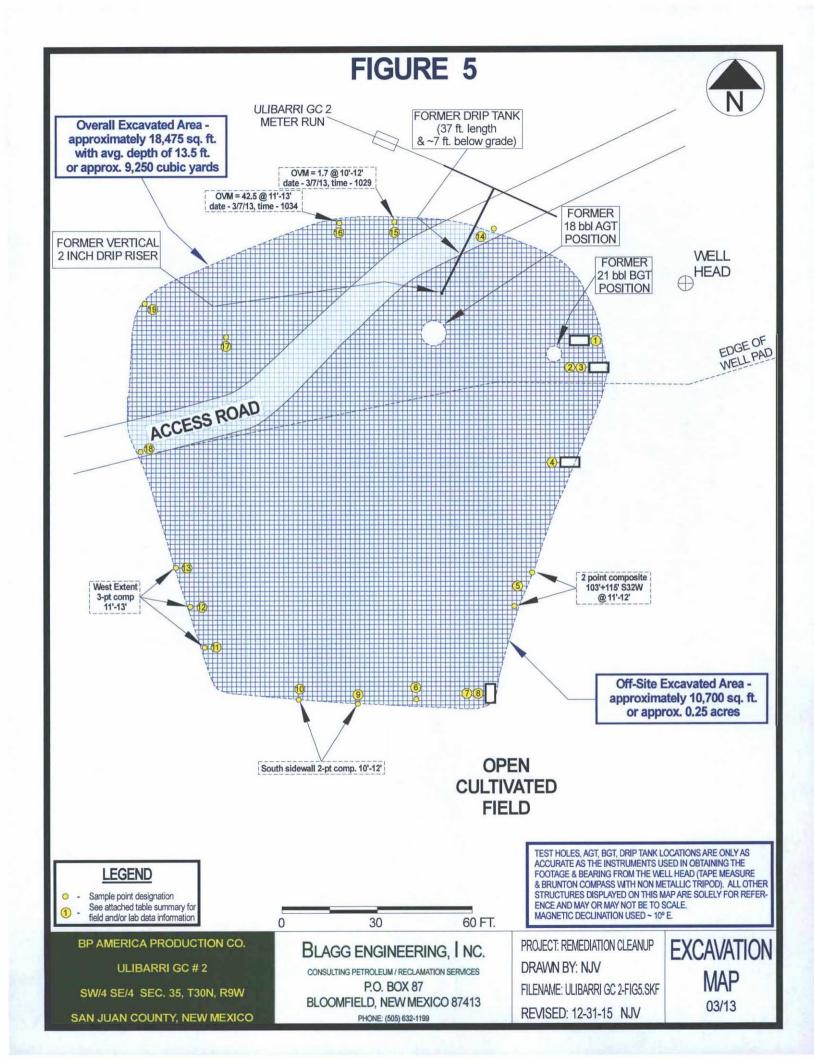
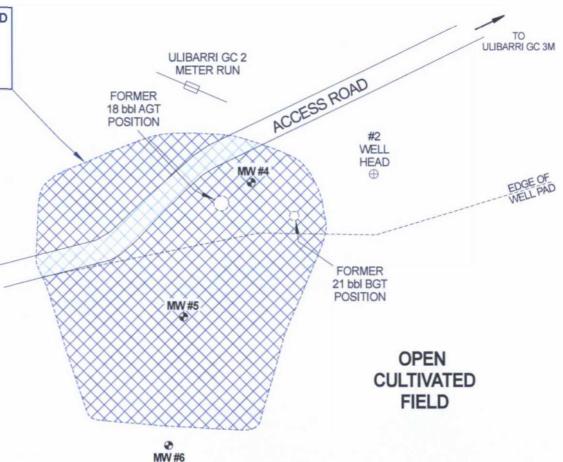




FIGURE 6

₽ MW #1

REMEDIATION CLEAN UP ESTIMATED
AREA OF IMPACTED SOILS
Approximately 18,475 sq. ft. with
avg. depth of 13.5 ft. below grade
or 6,000 cubic yards



0 50 100 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS WITH NON METALLIC TRIPOD). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY OR MAY NOT BE TO SCALE.

MAGNETIC DECLINATION USED ~ 10° E.

BP AMERICA PRODUCTION CO.

ULIBARRI GC # 2

SW/4 SE/4 SEC. 35, T30N, R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, I NC.

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

SAN JUAN RIVER (~ 760 ft. from edge of well pad)

PROJECT: MONITOR WELL INSTALLATIONS

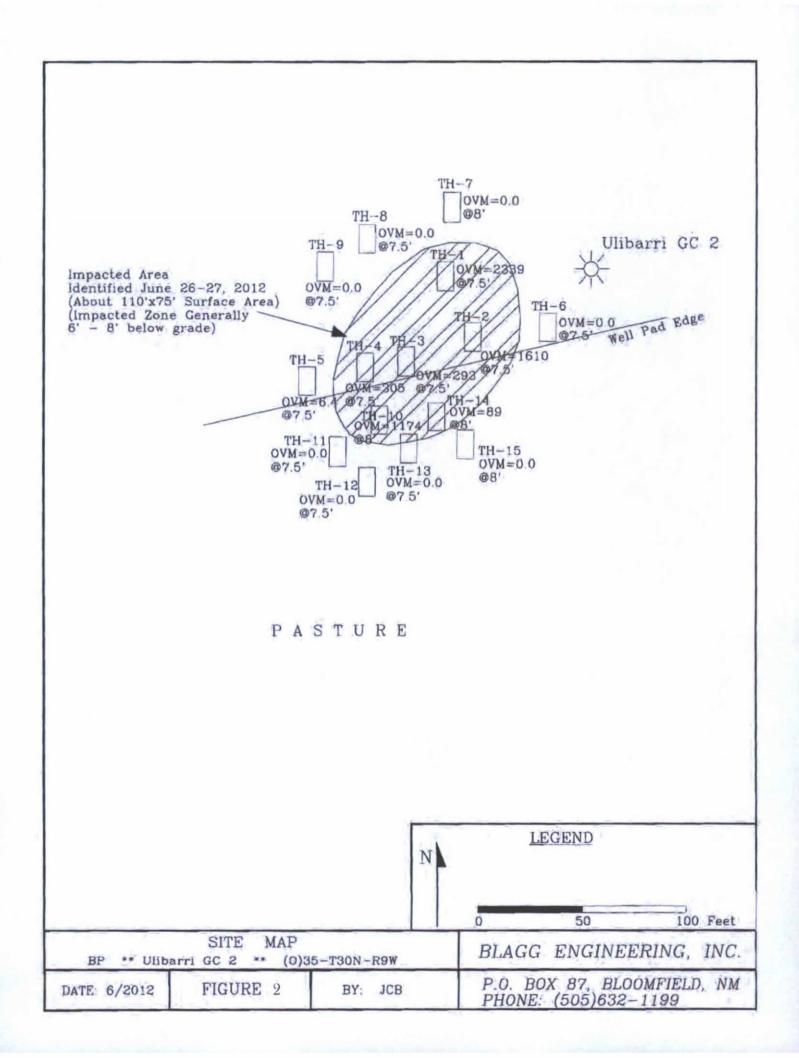
DRAWN BY: NJV

FILENAME: Ulibarri GC 2-FIG6.SKF

REVISED: 12-31-15 NJV

MONITOR WELL LOCATIONS

04/13



Lab Order 1301716

Date Reported: 1/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 160'S43W @-11'

Project: Ulibarri GC 2 Collection Date: 1/22/2013 11:58:00 AM

Lab ID: 1301716-001 Matrix: MEOH (SOIL) Received Date: 1/23/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	400	9.8		mg/Kg	1	1/23/2013 11:26:21 AM
Surr: DNOP	97.4	72.4-120		%REC	1	1/23/2013 11:26:21 AM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	590	25		mg/Kg	5	1/23/2013 1:15:05 PM
Surr: BFB	795	84-116	S	%REC	5	1/23/2013 1:15:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	1/23/2013 1:15:05 PM
Toluene	ND	0.25		mg/Kg	5	1/23/2013 1:15:05 PM
Ethylbenzene	ND	0.25		mg/Kg	5	1/23/2013 1:15:05 PM
Xylenes, Total	1.7	0.50		mg/Kg	5	1/23/2013 1:15:05 PM
Surr: 4-Bromofluorobenzene	150	80-120	S	%REC	5	1/23/2013 1:15:05 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	20	1/23/2013 11:00:33 AM

- 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 6

Lab Order 1301836

Date Reported: 1/28/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Ulibarri GC 2

Project:

Lab ID:

Client Sample ID: M. Ulibarri Well

Collection Date: 1/24/2013 1:01:00 PM

1301836-001 Matrix: AQUEOUS Received Date: 1/25/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	1/25/2013 6:42:33 PM
Toluene	ND	1.0	µg/L	1	1/25/2013 6:42:33 PM
Ethylbenzene	ND	1.0	µg/L	1	1/25/2013 6:42:33 PM
Xylenes, Total	ND	2.0	µg/L	1	1/25/2013 6:42:33 PM
m,p-Xylene	ND	1.0	µg/L	1	1/25/2013 6:42:33 PM
o-Xylene	ND	1.0	μg/L	1	1/25/2013 6:42:33 PM
Surr: 4-Bromofluorobenzene	90.9	69.7-152	%REC	1	1/25/2013 6:42:33 PM

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 2

Lab Order 1302592

Date Reported: 2/21/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 38'S 62W @ 10'-12'

Project: Ulibarri GC 2 Collection Date: 2/15/2013 12:38:00 PM

Lab ID: 1302592-001 Matrix: MEOH (SOIL) Received Date: 2/19/2013 9:50:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/20/2013 11:45:35 AM
Surr: DNOP	107	72.4-120	%REC	1	2/20/2013 11:45:35 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/19/2013 11:10:31 AM
Surr: BFB	109	84-116	%REC	1	2/19/2013 11:10:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	2/19/2013 11:10:31 AM
Toluene	ND	0.050	mg/Kg	1	2/19/2013 11:10:31 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/19/2013 11:10:31 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/19/2013 11:10:31 AM
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	2/19/2013 11:10:31 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	7.5	mg/Kg	5	2/19/2013 10:57:14 AM

- 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 1 of 7

Lab Order 1302592

Date Reported: 2/21/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 38'S 46W @ 13'

Project: Ulibarri GC 2 Collection Date: 2/15/2013 12:48:00 PM

Lab ID: 1302592-002

Matrix: MEOH (SOIL) Received Date: 2/19/2013 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/20/2013 12:07:07 PM
Surr: DNOP	110	72.4-120	%REC	1	2/20/2013 12:07:07 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/19/2013 11:39:17 AM
Surr: BFB	109	84-116	%REC	1	2/19/2013 11:39:17 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	2/19/2013 11:39:17 AM
Toluene	ND	0.050	mg/Kg	1	2/19/2013 11:39:17 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/19/2013 11:39:17 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/19/2013 11:39:17 AM
Surr: 4-Bromofluorobenzene	110	80-120	%REC	1	2/19/2013 11:39:17 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	7.5	mg/Kg	5	2/19/2013 11:22:04 AM

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits Page 2 of 7

Lab Order 1302718

Date Reported: 2/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID:

Ulibarri GC 2

1302718-001

Client Sample ID: 67' S33W@11'-13'

Collection Date: 2/19/2013 3:25:00 PM

Received Date: 2/21/2013 10:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/25/2013 12:56:12 PM
Surr: DNOP	89.4	72.4-120	%REC	1	2/25/2013 12:56:12 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/22/2013 1:23:32 PM
Surr: BFB	111	84-116	%REC	1	2/22/2013 1:23:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	2/22/2013 1:23:32 PM
Toluene	ND	0.048	mg/Kg	1	2/22/2013 1:23:32 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/22/2013 1:23:32 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/22/2013 1:23:32 PM
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	2/22/2013 1:23:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	1.5	mg/Kg	1	2/21/2013 1:36:23 PM

Matrix: SOIL

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 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 1 of 5

Lab Order 1302919

Date Reported: 3/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Ulibarri GC 2

1302919-001

Project:

Lab ID:

Client Sample ID: 103'+115' S32W @ 11'-12'

Collection Date: 2/21/2013 3:55:00 PM

Received Date: 2/28/2013 9:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	11	10		mg/Kg	1	3/1/2013 11:15:28 AM
Surr: DNOP	111	72.4-120		%REC	1	3/1/2013 11:15:28 AM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/1/2013 1:10:43 PM
Surr: BFB	119	84-116	S	%REC	1	3/1/2013 1:10:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	3/1/2013 1:10:43 PM
Toluene	ND	0.047		mg/Kg	1	3/1/2013 1:10:43 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/1/2013 1:10:43 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/1/2013 1:10:43 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	3/1/2013 1:10:43 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	7.5		mg/Kg	5	3/1/2013 10:49:40 AM

Matrix: SOIL

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

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

Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH10 @ 8'

 Project:
 Ulibarri GC 2
 Collection Date: 6/27/2012 9:24:00 AM

 Lab ID:
 1206B93-010
 Matrix: SOIL
 Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN		Analyst: JMP			
Diesel Range Organics (DRO)	380	9.8	mg/Kg	1	6/30/2012 5:38:23 PM
Surr: DNOP	109	77.6-140	%REC	1	6/30/2012 5:38:23 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/3/2012 9:35:11 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.96	mg/Kg	20	7/3/2012 4:31:49 PM
Toluene	ND	0.96	mg/Kg	20	7/3/2012 4:31:49 PM
Ethylbenzene	ND	0.96	mg/Kg	20	7/3/2012 4:31:49 PM
Xylenes, Total	ND	1.9	mg/Kg	20	7/3/2012 4:31:49 PM
Surr: 1,2-Dichloroethane-d4	77.4	70-130	%REC	20	7/3/2012 4:31:49 PM
Surr: 4-Bromofluorobenzene	105	70-130	%REC	20	7/3/2012 4:31:49 PM
Surr: Dibromofluoromethane	74.9	71.7-132	%REC	20	7/3/2012 4:31:49 PM
Surr: Toluene-d8	88.3	70-130	%REC	20	7/3/2012 4:31:49 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	200	96	mg/Kg	20	7/3/2012 4:31:49 PM
Surr: BFB	105	70-130	%REC	20	7/3/2012 4:31:49 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
- U Samples with CalcVal < MDL

Page 10 of 20

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

MW # 1

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

28

29

CONTRACTOR:

EQUIPMENT USED:

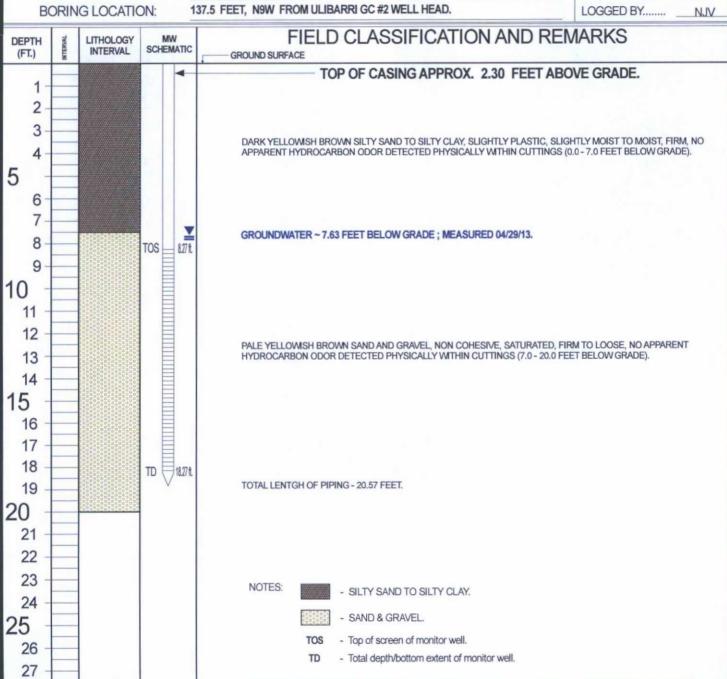
BP AMERICA PRODUCTION CO.

UNIT O, SEC. 35, T30N, R9W ULIBARRI GC # 1A API # 3004522198

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

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

BORING #..... BH - 1 MW#..... PAGE #..... DATE STARTED __03/22/13 DATE FINISHED 03/22/13 OPERATOR..... KP



Monitor well consist of 2 inch PVC piping - casing from 2.30 feet above grade to 8.27 feet below grade, 0.020 slotted screen between 8.27 to 18.27 feet below grade, sand packed annular to 6.0 feet below grade, bentonite grout between 4.0 to 6.0 feet below grade, 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 # 4

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME: CONTRACTOR: EQUIPMENT USED:

24

26

27 28

29

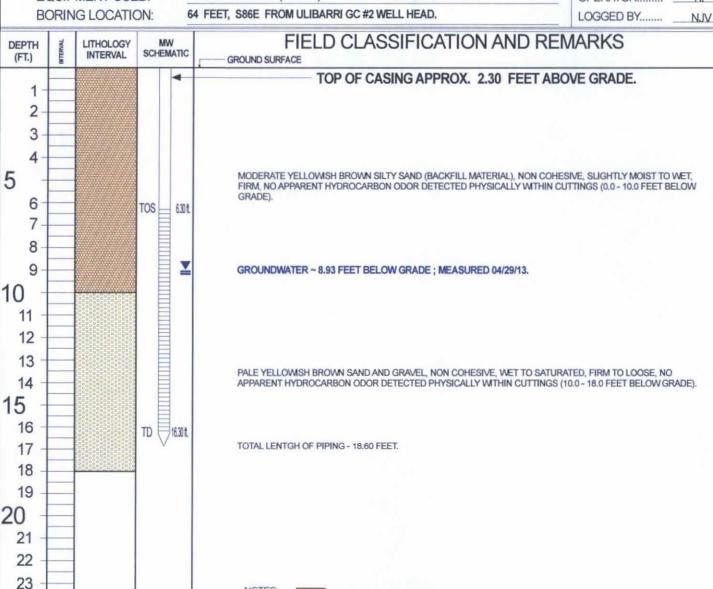
25

BP AMERICA PRODUCTION CO.

ULIBARRI GC # 2 API # 3004508894 UNIT O, SEC. 35, T30N, R9W

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

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER



NOTES:

- SILTY SAND (BACKFILL).

- SAND & GRAVEL.

TOS - Top of screen of monitor well.

TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.30 feet above grade to 6.30 feet below grade, 0.020 slotted screen between 6.30 to 16.30 feet below grade, sand packed annular to 5.0 feet below grade, bentonite grout between 3.0 to 5.0 feet below grade, cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padiock.

DRAWING: ULIBARRI GC 1A & 2 MW-4 2013-03-22 SKF DATE: 12/28/15 DWN BY: NJV

P.O. BOX 87 BLOOMFIELD, NM 87413

(505) 632-1199

MW # 5

BORE / TEST HOLE REPORT

CLIENT:

29

LOCATION NAME: CONTRACTOR:

EQUIPMENT USED: BORING LOCATION:

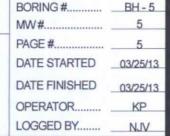
BP AMERICA PRODUCTION CO.

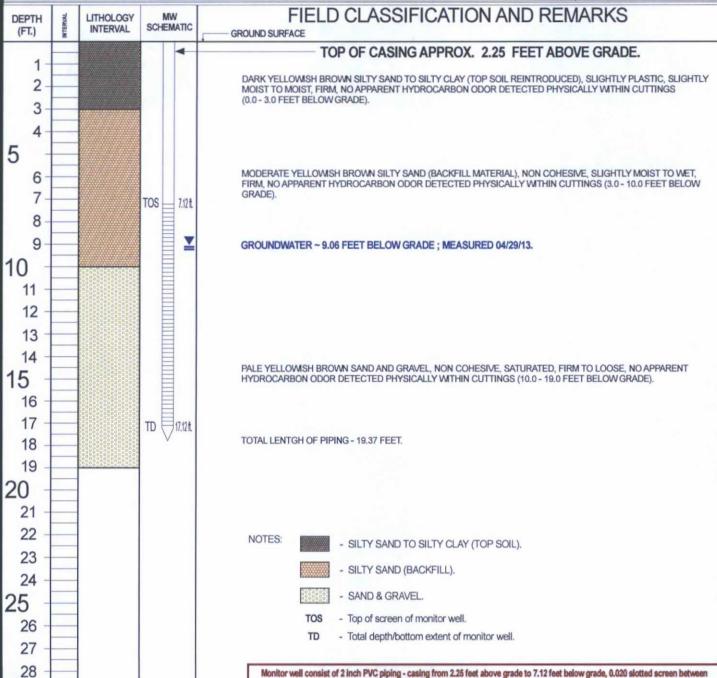
ULIBARRI GC #2 API # 3004508894 UNIT O, SEC. 35, T30N, R9W

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

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

124 FEET, S53W FROM ULIBARRI GC #2 WELL HEAD.





Monitor well consist of 2 inch PVC piping - casing from 2.25 feet above grade to 7.12 feet below grade, 0.020 slotted screen between 7.12 to 17.12 feet below grade, sand packed annular to 5.0 feet below grade, bentonite grout between 3.0 to 5.0 feet below grade, cuttings fill the remaining annular to grade. Secured casing top with steel well protector and padlock.

DRAWING: ULIBARRI GC 1A & 2 MW-5 2013-03-25.SKF DATE: 12/28/15

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

MW # 6

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME: CONTRACTOR:

EQUIPMENT USED: BORING LOCATION:

29

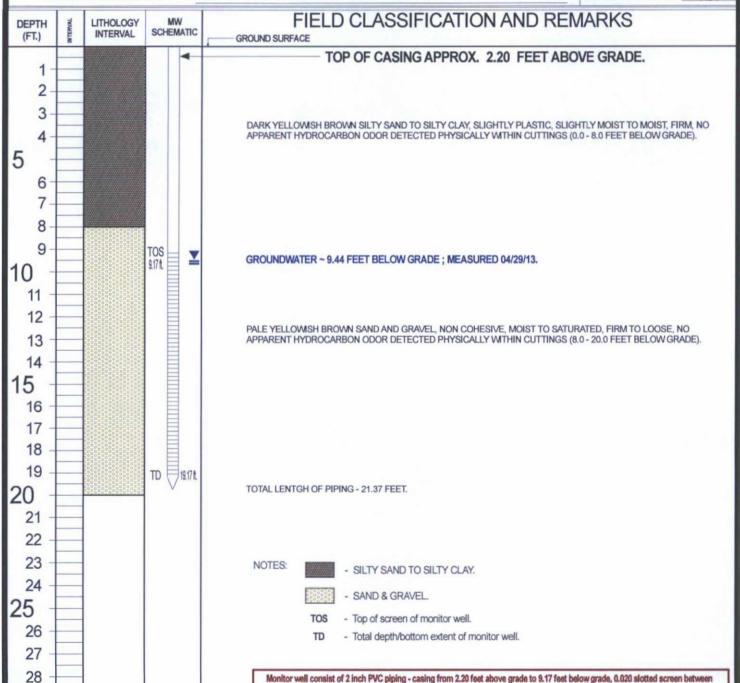
BP AMERICA PRODUCTION CO.

ULIBARRI GC # 2 API # 3004508894 UNIT O, SEC. 35, T30N, R9W

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

MOBILE DRILL RIG (CME 75) - HOLLOW STEM AUGER

175.25 FEET, S36W FROM ULIBARRI GC #2 WELL HEAD.



Monitor well consist of 2 inch PVC piping - casing from 2.20 feet above grade to 9.17 feet below grade, 0.020 slotted screen between 9.17 to 19.17 feet below grade, sand packed annular to 7.0 feet below grade, bentonite grout between 5.0 to 7.0 feet below grade,

DRAWING: ULIBARRI GC 1A & 2 MW-6 2013-03-25.SKF DATE: 12/28/15

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

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #:

N/A

Ulibarri GC #1A & #2

LABORATORY (S) USED:

HALL ENVIRONMENTAL

UNIT O, SEC. 35, T30N, R9W

Date: April 29, 2013

DEVELOPER / SAMPLER:

NJV

the state of the s

JCB

Filename:	Ulibarri	GC 1	IA&2 mw	log	04-29-13.xls	

PROJECT MANAGER:

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	102.32	92.39	9.93	20.57	1100	6.81	900	14.1	5.25
2	102.04	90.98	11.88	21.70	1510	7.22	888	10.7	4.75
-3	102.52	30.04	11.00	21.78	1920	0.00	1,000	14.0	5.00
4	102.48	91.25	11.23	18.60	1410	6.05	1,200	14.2	3.75
5	101.90	90.59	11.31	19.37	1235	6.13	1,000	13.7	4.00
6	101.97	90.33	11.64	21.37	1155	6.43	1,100	14.1	4.75

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00 2,800 04/29/13 0700

DATE & TIME =

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

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gal. / ft. of water.

Comments or note well diameter if not standard 2".

Excellent recovery in all monitor wells (MWs). All MWs except MW #2 & #3 were brownish tint in appearance. MW #2 & #3 contained light gray tint appearance without an indication of hydrocarbon sheen within purged water. Collected samples for BTEX per US EPA Method 8021B and general chemistry analyses from all MWs. 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.

Top of casing MW #1 ~ 2.30 ft., MW #2 ~ 2.40 ft., MW #3 ~ 2.40 ft., MW #4 ~ 2.30 ft., MW #5 ~ 2.25 ft., MW #6 ~ 2.20 ft. above grade.

on-site	10:20 AM	temp	64 F
off-site	3:20 PM	temp	82 F
sky cond.		Sunny	
wind speed	0 - 15	direct.	SE - WNW

Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH1 @ 7.5'

Project: Ulibarri GC 2

Collection Date: 6/26/2012 12:17:00 PM

Lab ID: 1206B93-001

Matrix: SOIL

Received Date: 6/28/2012 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)	890	9.9	mg/Kg	1	6/30/2012 1:51:12 PM
Surr: DNOP	107	77.6-140	%REC	1	6/30/2012 1:51:12 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/2/2012 3:04:48 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	2.5	mg/Kg	50	6/30/2012 12:52:48 AM
Toluene	ND	2.5	mg/Kg	50	6/30/2012 12:52:48 AM
Ethylbenzene	5.5	2.5	mg/Kg	50	6/30/2012 12:52:48 AM
Xylenes, Total	110	4.9	mg/Kg	50	6/30/2012 12:52:48 AM
Surr: 1,2-Dichloroethane-d4	84.7	70-130	%REC	50	6/30/2012 12:52:48 AM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	50	6/30/2012 12:52:48 AM
Surr: Dibromofluoromethane	81.4	71.7-132	%REC	50	6/30/2012 12:52:48 AM
Surr: Toluene-d8	85.7	70-130	%REC	50	6/30/2012 12:52:48 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	1800	250	mg/Kg	50	6/30/2012 12:52:48 AM
Surr: BFB	102	70-130	%REC	50	6/30/2012 12:52:48 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH2 @ 7.5'

 Project:
 Ulibarri GC 2
 Collection Date: 6/26/2012 12:34:00 PM

 Lab ID:
 1206B93-002
 Matrix: SOIL
 Received Date: 6/28/2012 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)	63	10		mg/Kg	1	6/30/2012 2:13:38 PM
Surr: DNOP	102	77.6-140		%REC	1	6/30/2012 2:13:38 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	15		mg/Kg	10	7/2/2012 1:50:20 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST					Analyst: RAA
Benzene	ND	0.93		mg/Kg	20	6/30/2012 1:20:25 AM
Toluene	ND	0.93		mg/Kg	20	6/30/2012 1:20:25 AM
Ethylbenzene	ND	0.93		mg/Kg	20	6/30/2012 1:20:25 AM
Xylenes, Total	2.3	1.9		mg/Kg	20	6/30/2012 1:20:25 AM
Surr: 1,2-Dichloroethane-d4	82.1	70-130		%REC	20	6/30/2012 1:20:25 AM
Surr: 4-Bromofluorobenzene	99.2	70-130		%REC	20	6/30/2012 1:20:25 AM
Surr: Dibromofluoromethane	78.5	71.7-132		%REC	20	6/30/2012 1:20:25 AM
Surr: Toluene-d8	88.3	70-130		%REC	20	6/30/2012 1:20:25 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	180	93		mg/Kg	20	6/30/2012 1:20:25 AM
Surr: BFB	99.2	70-130		%REC	20	6/30/2012 1:20:25 AM

- */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
 U Samples with CalcVal < MDL
- Page 2 of 20

Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH3 @ 7.5'

Project: Ulibarri GC 2 Collection Date: 6/26/2012 12:47:00 PM

Lab ID: 1206B93-003 Matrix: SOIL Received Date: 6/28/2012 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)	ND	9.7	mg/Kg	1	6/30/2012 2:36:16 PM
Surr: DNOP	102	77.6-140	%REC	1	6/30/2012 2:36:16 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/2/2012 4:31:41 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	6/30/2012 1:48:03 AM
Toluene	ND	0.049	mg/Kg	1	6/30/2012 1:48:03 AM
Ethylbenzene	ND	0.049	mg/Kg	1	6/30/2012 1:48:03 AM
Xylenes, Total	ND	0.098	mg/Kg	1	6/30/2012 1:48:03 AM
Surr: 1,2-Dichloroethane-d4	84.6	70-130	%REC	1	6/30/2012 1:48:03 AM
Surr: 4-Bromofluorobenzene	97.4	70-130	%REC	1	6/30/2012 1:48:03 AM
Surr: Dibromofluoromethane	84.1	71.7-132	%REC	1	6/30/2012 1:48:03 AM
Surr: Toluene-d8	87.8	70-130	%REC	1	6/30/2012 1:48:03 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	5.5	4.9	mg/Kg	1	6/30/2012 1:48:03 AM
Surr: BFB	97.4	70-130	%REC	1	6/30/2012 1:48:03 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Ulibarri GC 2

Lab ID: 1206B93-004

Client Sample ID: TH4 @ 7.5'

Collection Date: 6/26/2012 1:04:00 PM

Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	59	10	mg/Kg	1	6/30/2012 2:58:52 PM
Surr: DNOP	99.3	77.6-140	%REC	1	6/30/2012 2:58:52 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	23	15	mg/Kg	10	7/2/2012 3:17:12 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.094	mg/Kg	2	7/3/2012 12:03:31 AM
Toluene	ND	0.094	mg/Kg	2	7/3/2012 12:03:31 AM
Ethylbenzene	ND	0.094	mg/Kg	2	7/3/2012 12:03:31 AM
Xylenes, Total	ND	0.19	mg/Kg	2	7/3/2012 12:03:31 AM
Surr: 1,2-Dichloroethane-d4	85.2	70-130	%REC	2	7/3/2012 12:03:31 AM
Surr: 4-Bromofluorobenzene	128	70-130	%REC	2	7/3/2012 12:03:31 AM
Surr: Dibromofluoromethane	81.3	71.7-132	%REC	2	7/3/2012 12:03:31 AM
Surr: Toluene-d8	84.9	70-130	%REC	2	7/3/2012 12:03:31 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	59	9.4	mg/Kg	2	7/3/2012 12:03:31 AM
Surr: BFB	128	70-130	%REC	2	7/3/2012 12:03:31 AM

Matrix: SOIL

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

Samples with CalcVal < MDL

RL Reporting Detection Limit

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Ulibarri GC 2

Lab ID: 1206B93-005

Client Sample ID: TH5 @ 7.5'

Collection Date: 6/26/2012 1:18:00 PM Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/30/2012 3:44:23 PM
Surr: DNOP	90.7	77.6-140	%REC	1	6/30/2012 3:44:23 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	21	15	mg/Kg	10	7/2/2012 5:21:20 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	7/3/2012 12:58:51 AM
Toluene	ND	0.049	mg/Kg	1	7/3/2012 12:58:51 AM
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2012 12:58:51 AM
Xylenes, Total	ND	0.098	mg/Kg	1	7/3/2012 12:58:51 AM
Surr: 1,2-Dichloroethane-d4	83.1	70-130	%REC	1	7/3/2012 12:58:51 AM
Surr: 4-Bromofluorobenzene	92.9	70-130	%REC	1	7/3/2012 12:58:51 AM
Surr: Dibromofluoromethane	81.2	71.7-132	%REC	1	7/3/2012 12:58:51 AM
Surr: Toluene-d8	91.5	70-130	%REC	1	7/3/2012 12:58:51 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2012 12:58:51 AM
Surr: BFB	92.9	70-130	%REC	1	7/3/2012 12:58:51 AM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TH6 @ 7.5'

CLIENT: Blagg Engineering Project: Ulibarri GC 2

Collection Date: 6/26/2012 1:27:00 PM

Lab ID: 1206B93-006

Matrix: SOIL

Received Date: 6/28/2012 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)	ND	9.6	mg/Kg	1	6/30/2012 4:07:15 PM
Surr: DNOP	98.5	77.6-140	%REC	1	6/30/2012 4:07:15 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/2/2012 4:19:16 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	6/30/2012 3:11:44 AM
Toluene	ND	0.048	mg/Kg	1	6/30/2012 3:11:44 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/30/2012 3:11:44 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/30/2012 3:11:44 AM
Surr: 1,2-Dichloroethane-d4	82.5	70-130	%REC	1	6/30/2012 3:11:44 AM
Surr: 4-Bromofluorobenzene	93.2	70-130	%REC	1	6/30/2012 3:11:44 AM
Surr: Dibromofluoromethane	84.0	71.7-132	%REC	1	6/30/2012 3:11:44 AM
Surr: Toluene-d8	91.6	70-130	%REC	1	6/30/2012 3:11:44 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/30/2012 3:11:44 AM
Surr: BFB	93.2	70-130	%REC	1	6/30/2012 3:11:44 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH7 @ 8'

Project: Ulibarri GC 2

Collection Date: 6/26/2012 2:23:00 PM

Lab ID: 1206B93-007

Matrix: SOIL

Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/30/2012 4:30:03 PM
Surr: DNOP	99.6	77.6-140	%REC	1	6/30/2012 4:30:03 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	7/2/2012 4:56:30 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	6/30/2012 3:39:38 AM
Toluene	ND	0.048	mg/Kg	1	6/30/2012 3:39:38 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/30/2012 3:39:38 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/30/2012 3:39:38 AM
Surr: 1,2-Dichloroethane-d4	83.0	70-130	%REC	1	6/30/2012 3:39:38 AM
Surr: 4-Bromofluorobenzene	93.6	70-130	%REC	1	6/30/2012 3:39:38 AM
Surr: Dibromofluoromethane	82.5	71.7-132	%REC	1	6/30/2012 3:39:38 AM
Surr: Toluene-d8	88.9	70-130	%REC	1	6/30/2012 3:39:38 AM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/30/2012 3:39:38 AM
Surr: BFB	93.6	70-130	%REC	1	6/30/2012 3:39:38 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Ulibarri GC 2

Lab ID: 1206B93-008

Matrix: SOIL

Client Sample ID: TH8 @ 7.5'

Collection Date: 6/26/2012 2:45:00 PM Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/30/2012 4:52:54 PM
Surr: DNOP	97.6	77.6-140	%REC	1	6/30/2012 4:52:54 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	7/3/2012 2:08:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	6/30/2012 4:07:28 AM
Toluene	ND	0.048	mg/Kg	1	6/30/2012 4:07:28 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/30/2012 4:07:28 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/30/2012 4:07:28 AM
Surr: 1,2-Dichloroethane-d4	81.1	70-130	%REC	1	6/30/2012 4:07:28 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%REC	1	6/30/2012 4:07:28 AM
Surr: Dibromofluoromethane	79.9	71.7-132	%REC	1	6/30/2012 4:07:28 AM
Surr: Toluene-d8	88.2	70-130	%REC	1	6/30/2012 4:07:28 AM
EPA METHOD 8015B MOD: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/30/2012 4:07:28 AM
Surr: BFB	93.7	70-130	%REC	1	6/30/2012 4:07:28 AM

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

7/3/2012 4:03:59 PM

Hall Environmental Analysis Laboratory, Inc. Date Reported: 7/11/2012

CLIENT: Blagg Engineering Client Sample ID: TH9 @ 7.5'

88.6

Project: Ulibarri GC 2 Collection Date: 6/26/2012 2:55:00 PM Lab ID: 1206B93-009 Matrix: SOIL Received Date: 6/28/2012 10:00:00 AM

Analyses Result RL Qual Units DF Date Analyzed **EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP Diesel Range Organics (DRO) ND 10 mg/Kg 1 6/30/2012 5:15:37 PM Surr: DNOP 102 %REC 6/30/2012 5:15:37 PM 77.6-140 1 **EPA METHOD 300.0: ANIONS** Analyst: BRM Chloride ND 5 7/3/2012 2:58:03 PM 7.5 mg/Kg **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: RAA 7/3/2012 4:03:59 PM Benzene 0.048 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 7/3/2012 4:03:59 PM Ethylbenzene ND 0.048 mg/Kg 1 7/3/2012 4:03:59 PM Xylenes, Total ND 0.096 mg/Kg 1 7/3/2012 4:03:59 PM Surr: 1,2-Dichloroethane-d4 78.8 70-130 %REC 7/3/2012 4:03:59 PM Surr: 4-Bromofluorobenzene 88.6 70-130 %REC 1 7/3/2012 4:03:59 PM Surr: Dibromofluoromethane 78.0 71.7-132 %REC 1 7/3/2012 4:03:59 PM Surr: Toluene-d8 70-130 %REC 89.5 1 7/3/2012 4:03:59 PM **EPA METHOD 8015B MOD: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.8 mg/Kg 7/3/2012 4:03:59 PM Surr: BFB

70-130

%REC

Qualifiers:

- 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
- 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
- Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH11 @ 7.5'

Project: Ulibarri GC 2

Collection Date: 6/27/2012 9:39:00 AM

Lab ID: 1206B93-011

Matrix: SOIL

Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/30/2012 6:00:59 PM
Surr: DNOP	108	77.6-140	%REC	1	6/30/2012 6:00:59 PM
EPA METHOD 300.0; ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/2/2012 4:44:06 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	7/3/2012 5:55:24 PM
Toluene	ND	0.048	mg/Kg	1	7/3/2012 5:55:24 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2012 5:55:24 PM
Xylenes, Total	ND	0.095	mg/Kg	1	7/3/2012 5:55:24 PM
Surr: 1,2-Dichloroethane-d4	80.3	70-130	%REC	1	7/3/2012 5:55:24 PM
Surr: 4-Bromofluorobenzene	88.4	70-130	%REC	1	7/3/2012 5:55:24 PM
Surr: Dibromofluoromethane	79.3	71.7-132	%REC	1	7/3/2012 5:55:24 PM
Surr: Toluene-d8	93.7	70-130	%REC	1	7/3/2012 5:55:24 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2012 5:55:24 PM
Surr: BFB	88.4	70-130	%REC	1	7/3/2012 5:55:24 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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH12 @ 7.5'

 Project:
 Ulibarri GC 2
 Collection Date: 6/27/2012 9:52:00 AM

 Lab ID:
 1206B93-012
 Matrix: SOIL
 Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/30/2012 6:23:42 PM
Surr: DNOP	101	77.6-140	%REC	1	6/30/2012 6:23:42 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	1.5	mg/Kg	1	7/2/2012 3:54:26 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.048	mg/Kg	1	7/3/2012 6:23:07 PM
Toluene	ND	0.048	mg/Kg	1	7/3/2012 6:23:07 PM
Ethylbenzene	ND	0.048	mg/Kg	1	7/3/2012 6:23:07 PM
Xylenes, Total	ND	0.096	mg/Kg	1	7/3/2012 6:23:07 PM
Surr: 1,2-Dichloroethane-d4	80.9	70-130	%REC	1	7/3/2012 6:23:07 PM
Surr: 4-Bromofluorobenzene	89.2	70-130	%REC	1	7/3/2012 6:23:07 PM
Surr: Dibromofluoromethane	80.7	71.7-132	%REC	1	7/3/2012 6:23:07 PM
Surr: Toluene-d8	89.8	70-130	%REC	1	7/3/2012 6:23:07 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/3/2012 6:23:07 PM
Surr: BFB	89.2	70-130	%REC	1	7/3/2012 6:23:07 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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TH13 @ 7.5'

CLIENT: Blagg Engineering Project: Ulibarri GC 2

Collection Date: 6/27/2012 9:59:00 AM

Lab ID: 1206B93-013

Matrix: SOIL

Received Date: 6/28/2012 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)	ND	9.9	mg/Kg	1	6/30/2012 6:46:16 PM
Surr: DNOP	107	77.6-140	%REC	1	6/30/2012 6:46:16 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	15	mg/Kg	10	7/2/2012 8:15:08 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.047	mg/Kg	1	7/3/2012 6:50:51 PM
Toluene	ND	0.047	mg/Kg	1	7/3/2012 6:50:51 PM
Ethylbenzene	ND	0.047	mg/Kg	1	7/3/2012 6:50:51 PM
Xylenes, Total	ND	0.093	mg/Kg	1	7/3/2012 6:50:51 PM
Surr: 1,2-Dichloroethane-d4	79.7	70-130	%REC	1	7/3/2012 6:50:51 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%REC	1	7/3/2012 6:50:51 PM
Surr: Dibromofluoromethane	77.1	71.7-132	%REC	1	7/3/2012 6:50:51 PM
Surr: Toluene-d8	89.2	70-130	%REC	1	7/3/2012 6:50:51 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/3/2012 6:50:51 PM
Surr: BFB	90.5	70-130	%REC	1	7/3/2012 6:50:51 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
U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Ulibarri GC 2

Lab ID: 1206B93-014

Client Sample ID: TH14 @ 8'

Collection Date: 6/27/2012 10:23:00 AM

Received Date: 6/28/2012 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	15	10	mg/Kg	1	6/30/2012 7:08:57 PM
Surr: DNOP	106	77.6-140	%REC	1	6/30/2012 7:08:57 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	7/2/2012 6:23:24 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	7/3/2012 7:18:32 PM
Toluene	ND	0.049	mg/Kg	1	7/3/2012 7:18:32 PM
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2012 7:18:32 PM
Xylenes, Total	ND	0.097	mg/Kg	1	7/3/2012 7:18:32 PM
Surr: 1,2-Dichloroethane-d4	86.2	70-130	%REC	1	7/3/2012 7:18:32 PM
Surr: 4-Bromofluorobenzene	110	70-130	%REC	1	7/3/2012 7:18:32 PM
Surr: Dibromofluoromethane	82.2	71.7-132	%REC	1	7/3/2012 7:18:32 PM
Surr: Toluene-d8	83.9	70-130	%REC	1	7/3/2012 7:18:32 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	19	4.9	mg/Kg	1	7/3/2012 7:18:32 PM
Surr: BFB	110	70-130	%REC	1	7/3/2012 7:18:32 PM

Matrix: SOIL

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
- U Samples with CalcVal < MDL

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Lab Order 1206B93

Date Reported: 7/11/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH15 @ 8'

Project: Ulibarri GC 2

Lab ID:

Collection Date: 6/27/2012 10:40:00 AM

1206B93-015 Matrix: SOIL Received Date: 6/28/2012 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)	ND	9.9		mg/Kg	1	6/30/2012 7:54:05 PM
Surr: DNOP	107	77.6-140		%REC	1	6/30/2012 7:54:05 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	15		mg/Kg	10	7/2/2012 5:33:44 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST					Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	7/3/2012 8:13:50 PM
Toluene	ND	0.048		mg/Kg	1	7/3/2012 8:13:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2012 8:13:50 PM
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2012 8:13:50 PM
Surr: 1,2-Dichloroethane-d4	81.6	70-130		%REC	1	7/3/2012 8:13:50 PM
Surr: 4-Bromofluorobenzene	91.9	70-130		%REC	1	7/3/2012 8:13:50 PM
Surr: Dibromofluoromethane	81.2	71.7-132		%REC	1	7/3/2012 8:13:50 PM
Surr: Toluene-d8	91.7	70-130		%REC	1	7/3/2012 8:13:50 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2012 8:13:50 PM
Surr: BFB	91.9	70-130		%REC	1	7/3/2012 8:13:50 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
- U Samples with CalcVal < MDL

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Lab Order 1305026

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW # 1

Project: ULIBARRI GC # 1A/#2

Collection Date: 4/29/2013 11:00:00 AM

Lab ID: 1305026-001

Matrix: AQUEOUS

Received Date: 5/1/2013 9:50:00 AM

Analyses	Result	RL Q	ual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	1.0		μg/L	1	5/3/2013 12:28:43 AM	R10280
Toluene	ND	1.0		µg/L	1	5/3/2013 12:28:43 AM	R10280
Ethylbenzene	ND	1.0		µg/L	1	5/3/2013 12:28:43 AM	R10280
Xylenes, Total	ND	2.0		µg/L	1	5/3/2013 12:28:43 AM	R10280
Surr: 4-Bromofluorobenzene	99.0	69.4-129		%REC	1	5/3/2013 12:28:43 AM	R10280
EPA METHOD 300.0: ANIONS						Analyst	JRR
Fluoride	0.56	0.10		mg/L	1	5/1/2013 9:36:57 PM	R10269
Chloride	4.6	0.50		mg/L	1	5/1/2013 9:36:57 PM	R10269
Sulfate	78	10		mg/L	20	5/2/2013 6:43:21 PM	R10292
Nitrate+Nitrite as N	ND	1.0		mg/L	5	5/2/2013 11:53:36 PM	R10292
EPA METHOD 200.7: DISSOLVED METAL	S					Analyst	JLF
Iron	1.8	0.10	*	mg/L	5	5/9/2013 1:11:30 PM	R10516
SM2540C MOD: TOTAL DISSOLVED SOL	IDS					Analyst	KS
Total Dissolved Solids	570	200	*	mg/L	1	5/5/2013 5:03:00 PM	7282

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

Qualifiers:

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

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

Lab Order 1305026

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 4

 Project:
 ULIBARRI GC # 1A/#2
 Collection Date: 4/29/2013 2:10:00 PM

 Lab ID:
 1305026-004
 Matrix: AQUEOUS
 Received Date: 5/1/2013 9:50:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.3	1.0		μg/L	1	5/3/2013 1:59:25 AM	R10280
Toluene	ND	1.0		μg/L	1	5/3/2013 1:59:25 AM	R10280
Ethylbenzene	5.2	1.0		μg/L	1	5/3/2013 1:59:25 AM	R10280
Xylenes, Total	24	2.0		µg/L	1	5/3/2013 1:59:25 AM	R10280
Surr: 4-Bromofluorobenzene	154	69.4-129	S	%REC	1	5/3/2013 1:59:25 AM	R10280
EPA METHOD 300.0: ANIONS						Analyst	JRR
Fluoride	0.56	0.10		mg/L	1	5/1/2013 11:16:15 PM	R10269
Chloride	6.6	0.50		mg/L	1	5/1/2013 11:16:15 PM	R10269
Sulfate	180	10		mg/L	20	5/2/2013 7:20:35 PM	R10292
Nitrate+Nitrite as N	ND	1.0		mg/L	5	5/3/2013 12:30:50 AM	R10292
EPA METHOD 200.7: DISSOLVED MET	ALS					Analyst	JLF
Iron	45	2.0	*	mg/L	100	5/9/2013 1:18:19 PM	R10516
SM2540C MOD: TOTAL DISSOLVED SO	DLIDS					Analyst	KS
Total Dissolved Solids	870	200	*	mg/L	1	5/5/2013 5:03:00 PM	7282

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
- P Sample pH greater than 2 for VOA and TOC only.
- 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
- Page 4 of 10
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Lab Order 1305026

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 5

Project: ULIBARRI GC # 1A/#2 Collection Date: 4/29/2013 12:35:00 PM

Lab ID: 1305026-005 Matrix: AQUEOUS Received Date: 5/1/2013 9:50:00 AM

Analyses Result RL Qual Units Batch **DF** Date Analyzed **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/3/2013 2:29:44 AM R10280 1.0 µg/L 1 5/3/2013 2:29:44 AM Toluene ND R10280 1.0 µg/L Ethylbenzene ND 1.0 µg/L 5/3/2013 2:29:44 AM R10280 Xylenes, Total ND 2.0 5/3/2013 2:29:44 AM R10280 µg/L %REC Surr: 4-Bromofluorobenzene 104 69.4-129 5/3/2013 2:29:44 AM R10280 **EPA METHOD 300.0: ANIONS** Analyst: JRR 5/1/2013 11:41:03 PM Fluoride 0.57 0.10 mg/L R10269 Chloride 4.9 0.50 mg/L 5/1/2013 11:41:03 PM R10269 Sulfate 160 10 mg/L 20 5/2/2013 7:33:00 PM R10292 Nitrate+Nitrite as N ND 5/3/2013 12:43:15 AM R10292 1.0 mg/L **EPA METHOD 200.7: DISSOLVED METALS** Analyst: JLF 5/9/2013 1:20:32 PM 0.22 0.020 R10516 mg/L SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS Total Dissolved Solids 690 100 mg/L 5/5/2013 5:03:00 PM 7282

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
- P Sample pH greater than 2 for VOA and TOC only.
- 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
- Page 5 of 10
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Lab Order 1305026

Date Reported: 5/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW # 6

Project: ULIBARRI GC # 1A/#2

Collection Date: 4/29/2013 11:55:00 AM

Lab ID: 1305026-006

Matrix: AQUEOUS

Received Date: 5/1/2013 9:50:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	1.0		µg/L	1	5/3/2013 2:59:49 AM	R10280
Toluene	ND	1.0		µg/L	1	5/3/2013 2:59:49 AM	R10280
Ethylbenzene	ND	1.0		μg/L	1	5/3/2013 2:59:49 AM	R10280
Xylenes, Total	ND	2.0		µg/L	1	5/3/2013 2:59:49 AM	R10280
Surr: 4-Bromofluorobenzene	99.7	69.4-129		%REC	1	5/3/2013 2:59:49 AM	R10280
EPA METHOD 300.0: ANIONS						Analyst	JRR
Fluoride	0.70	0.10		mg/L	1	5/2/2013 12:05:53 AM	R10269
Chloride	8.8	0.50		mg/L	1	5/2/2013 12:05:53 AM	R10269
Sulfate	170	10		mg/L	20	5/2/2013 7:45:24 PM	R10292
Nitrate+Nitrite as N	ND	1.0		mg/L	5	5/3/2013 12:55:40 AM	R10292
EPA METHOD 200.7: DISSOLVED N	METALS					Analyst	JLF
Iron	16	0.40	*	mg/L	20	5/9/2013 1:22:55 PM	R10516
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analyst	: KS
Total Dissolved Solids	840	200	*	mg/L	1	5/5/2013 5:03:00 PM	7282

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

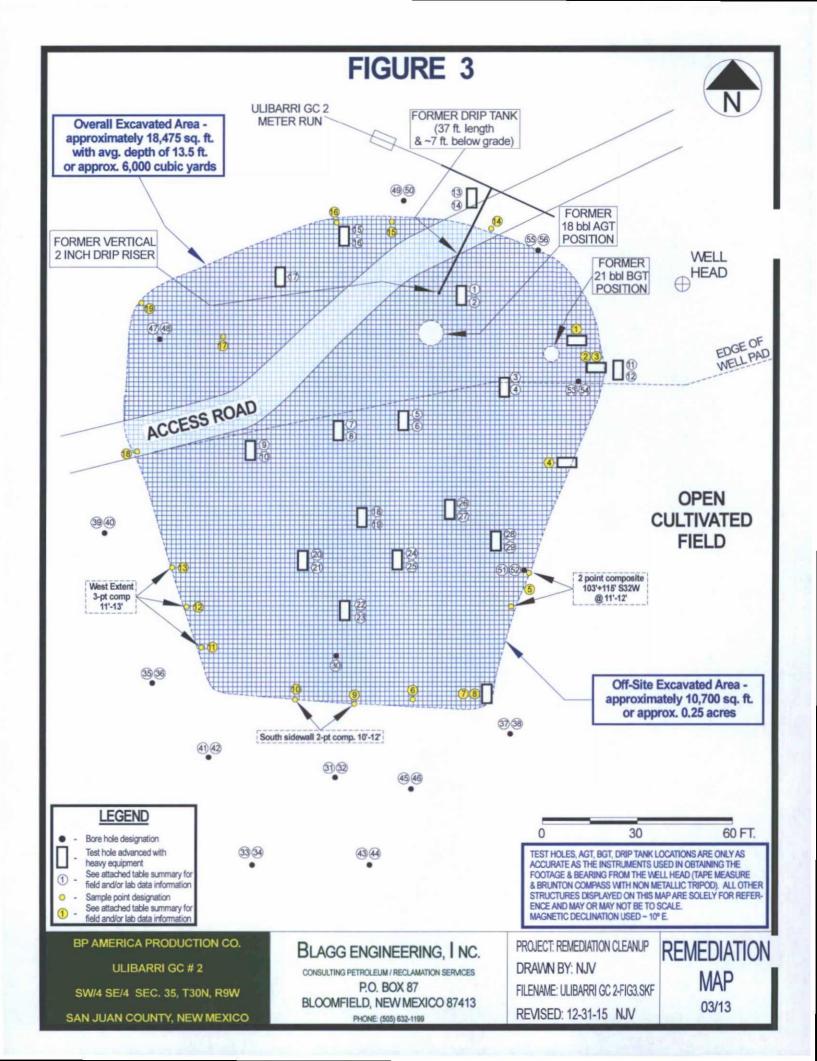
Qualifiers:

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

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



Lab Order 1302919

Date Reported: 3/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Ulibarri GC 2

Lab ID: 1302919-002 Client Sample ID: 159' S33E @ 11'-12'

Collection Date: 2/21/2013 4:17:00 PM

Received Date: 2/28/2013 9:59:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: MMD
Diesel Range Organics (DRO)	320	10		mg/Kg	1	3/1/2013 12:20:48 PM
Surr: DNOP	103	72.4-120		%REC	1	3/1/2013 12:20:48 PM
EPA METHOD 8015B: GASOLINE R.	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	630	46		mg/Kg	10	3/2/2013 12:40:29 AM
Surr: BFB	366	84-116	S	%REC	10	3/2/2013 12:40:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.46		mg/Kg	10	3/2/2013 12:40:29 AM
Toluene	ND	0.46		mg/Kg	10	3/2/2013 12:40:29 AM
Ethylbenzene	ND	0.46		mg/Kg	10	3/2/2013 12:40:29 AM
Xylenes, Total	1.4	0.93		mg/Kg	10	3/2/2013 12:40:29 AM
Surr: 4-Bromofluorobenzene	122	80-120	S	%REC	10	3/2/2013 12:40:29 AM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	7.5		mg/Kg	5	3/1/2013 11:14:28 AM

Matrix: SOIL

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

- 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
- Spike Recovery outside accepted recovery limits Page 2 of 8

Lab Order 1302919

Date Reported: 3/4/2013

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: South Sidewall 2-pt comp. 10'-12 **CLIENT:** Blagg Engineering

Project: Ulibarri GC 2 Collection Date: 2/25/2013 11:40:00 AM Lab ID: 1302919-003 Matrix: SOIL Received Date: 2/28/2013 9:59:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	E ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/1/2013 12:42:29 PM
Surr: DNOP	101	72.4-120	%REC	1	3/1/2013 12:42:29 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/1/2013 2:08:22 PM
Surr: BFB	113	84-116	%REC	1	3/1/2013 2:08:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.046	mg/Kg	1	3/1/2013 2:08:22 PM
Toluene	ND	0.046	mg/Kg	1	3/1/2013 2:08:22 PM
Ethylbenzene	ND	0.046	mg/Kg	1	3/1/2013 2:08:22 PM
Xylenes, Total	ND	0.093	mg/Kg	1	3/1/2013 2:08:22 PM
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	3/1/2013 2:08:22 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	7.5	mg/Kg	5	3/1/2013 11:39:18 AM

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

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

Lab Order 1302919

Date Reported: 3/4/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: West Extent 3-pt comp 11'-13'

Project: Ulibarri GC 2 Collection Date: 2/27/2013 10:30:00 AM Lab ID: 1302919-004 Matrix: SOIL Received Date: 2/28/2013 9:59:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/1/2013 11:40:02 AM
Surr: DNOP	113	72.4-120	%REC	1	3/1/2013 11:40:02 AM
EPA METHOD 8015B: GASOLINE R.	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2013 2:37:08 PM
Surr: BFB	112	84-116	%REC	1	3/1/2013 2:37:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	3/1/2013 2:37:08 PM
Toluene	ND	0.049	mg/Kg	1	3/1/2013 2:37:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2013 2:37:08 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/1/2013 2:37:08 PM
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	3/1/2013 2:37:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	7.5	mg/Kg	5	3/1/2013 12:04:06 PM

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits Page 4 of 8

Lab Order 1303189

Date Reported: 3/8/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 63' N74W @ 11'-13'

Project: Ulibarri GC 2 Collection Date: 3/4/2013 9:01:00 AM

Lab ID: 1303189-001 Matrix: SOIL Received Date: 3/6/2013 9:53:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/7/2013 11:45:28 AM
Surr: DNOP	90.7	72.4-120	%REC	1	3/7/2013 11:45:28 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/7/2013 11:14:18 AM
Surr: BFB	110	84-116	%REC	1	3/7/2013 11:14:18 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	3/7/2013 11:14:18 AM
Toluene	ND	0.049	mg/Kg	1	3/7/2013 11:14:18 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/7/2013 11:14:18 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/7/2013 11:14:18 AM
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	3/7/2013 11:14:18 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	7.5	mg/Kg	5	3/7/2013 12:03:45 PM

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

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

Lab Order 1303382

Date Reported: 3/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 94' N78W @ 11'-12'

Project: Ulibarri GC 2

Collection Date: 3/7/2013 10:29:00 AM

Lab ID: 1303382-001

Matrix: SOIL

Received Date: 3/8/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/11/2013 12:20:26 PM
Surr: DNOP	106	72.4-120	%REC	1	3/11/2013 12:20:26 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	3/11/2013 11:48:52 AM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	3/8/2013 8:36:20 PM
Toluene	ND	0.050	mg/Kg	1	3/8/2013 8:36:20 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/8/2013 8:36:20 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/8/2013 8:36:20 PM
Surr: 1,2-Dichloroethane-d4	89.7	70-130	%REC	1	3/8/2013 8:36:20 PM
Surr: 4-Bromofluorobenzene	96.4	70-130	%REC	1	3/8/2013 8:36:20 PM
Surr: Dibromofluoromethane	95.1	70-130	%REC	1	3/8/2013 8:36:20 PM
Surr: Toluene-d8	103	70-130	%REC	1	3/8/2013 8:36:20 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/8/2013 8:36:20 PM
Surr: BFB	96.4	70-130	%REC	1	3/8/2013 8:36:20 PM

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

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

Lab Order 1303382

Date Reported: 3/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 111' N80W @ 11'-13'

Project: Ulibarri GC 2

Collection Date: 3/7/2013 10:34:00 AM

Lab ID: 1303382-002

Matrix: SOIL

Received Date: 3/8/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/11/2013 12:42:20 PM
Surr: DNOP	106	72.4-120	%REC	1	3/11/2013 12:42:20 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	3/11/2013 12:26:05 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	3/8/2013 9:05:12 PM
Toluene	ND	0.050	mg/Kg	1	3/8/2013 9:05:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/8/2013 9:05:12 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/8/2013 9:05:12 PM
Surr: 1,2-Dichloroethane-d4	89.4	70-130	%REC	1	3/8/2013 9:05:12 PM
Surr: 4-Bromofluorobenzene	89.4	70-130	%REC	1	3/8/2013 9:05:12 PM
Surr: Dibromofluoromethane	93.9	70-130	%REC	1	3/8/2013 9:05:12 PM
Surr: Toluene-d8	97.7	70-130	%REC	1	3/8/2013 9:05:12 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/8/2013 9:05:12 PM
Surr: BFB	89.4	70-130	%REC	1	3/8/2013 9:05:12 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH greater than 2
- 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 2 of 8

Lab Order 1303448

Date Reported: 3/18/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 146' S83.5W @ 10'-12'

Project: Ulibarri GC 2 Collection Date: 3/8/2013 11:40:00 AM

Lab ID: 1303448-001 Matrix: MEOH (SOIL) Received Date: 3/12/2013 9:53:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	3/15/2013 11:19:01 AM
Surr: DNOP	112	72.4-120	%REC	1	3/15/2013 11:19:01 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	1.5	mg/Kg	1	3/12/2013 7:54:41 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	3/13/2013 1:09:00 PM
Toluene	ND	0.050	mg/Kg	1	3/13/2013 1:09:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/13/2013 1:09:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/13/2013 1:09:00 PM
Surr: 1,2-Dichloroethane-d4	87.7	70-130	%REC	1	3/13/2013 1:09:00 PM
Surr: 4-Bromofluorobenzene	85.6	70-130	%REC	1	3/13/2013 1:09:00 PM
Surr: Dibromofluoromethane	92.6	70-130	%REC	1	3/13/2013 1:09:00 PM
Surr: Toluene-d8	101	70-130	%REC	1	3/13/2013 1:09:00 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/13/2013 1:09:00 PM
Surr: BFB	85.6	70-130	%REC	1	3/13/2013 1:09:00 PM

- Value exceeds Maximum Contaminant Level.
- 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 В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 5

Lab Order 1303582

Date Reported: 3/19/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 180', S73W@11'-13'

Collection Date: 3/11/2013 1:20:00 PM

Project: Ulibarri GC #2 Lab ID: 1303582-001

Matrix: SOIL

Received Date: 3/14/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2013 11:31:14 AM
Surr: DNOP	109	72.4-120	%REC	1	3/17/2013 11:31:14 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2013 2:38:32 AM
Surr: BFB	90.6	84-116	%REC	1	3/17/2013 2:38:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	3/17/2013 2:38:32 AM
Toluene	ND	0.047	mg/Kg	1	3/17/2013 2:38:32 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2013 2:38:32 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/17/2013 2:38:32 AM
Surr: 4-Bromofluorobenzene	95.1	80-120	%REC	1	3/17/2013 2:38:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	1.5	mg/Kg	1	3/18/2013 11:57:45 AM

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits $^{\mathrm{Page}}$ 1 of 6

Lab Order 1303582

Date Reported: 3/19/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 171', S88W@11'-13'

Project: Ulibarri GC #2 Collection Date: 3/11/2013 1:35:00 PM

Lab ID: 1303582-002

Matrix: SOIL Received Date: 3/14/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS				Analyst: MMD
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/17/2013 11:58:29 AM
Surr: DNOP	110	72.4-120	%REC	1	3/17/2013 11:58:29 AM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2013 4:08:15 AM
Surr: BFB	92.0	84-116	%REC	1	3/17/2013 4:08:15 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	3/17/2013 4:08:15 AM
Toluene	ND	0.048	mg/Kg	1	3/17/2013 4:08:15 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2013 4:08:15 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2013 4:08:15 AM
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	1	3/17/2013 4:08:15 AM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	1.5	mg/Kg	1	3/18/2013 12:22:33 PM

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

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits Page 2 of 6

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MIB	BTEX + MTBE	TPH 8015B (GRO / DRO /	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLOCIDE		Air Dubblos (V. 2014)	All bubbles
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11	necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other a	ccredited laboratori	es. This serves as notice of the	nis poss	ibility.	Any st	ub-con	tracted	data	will be	dear	ty nota	sted or	I the a	nalytica	report.		

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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	127	ALNO N.S.Jo	BTEX + 耳	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,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (SemI-VOA)				Air Bubbles (Y or N)
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Date	Time:	Relinquish	ad by:	Received by:		Date	Time	Por	norte													
Date: 24/2013 Date:	Time:		H Blog	10	Wales	1/24/2013 Date	1457		nark		LA	66										
24/13	17×1	(Applied	t. 1 . b . 1	LA D	-1105	5/10	NN	R	P	-			-	FF	_ :	2.	CE	-				
	necessary,	semples sub	mitted to Hall Environmental may be subc	contracted to other ac	coedited laboratorio	es. This serve	s as notice of th	is possi	bility.	Any su	b-cont	racted	data	will be	clear				nalytica	l report		

C	hain-	of-Cu	stody Record	Turn-Around	Time:	By WED							-	NIX/	TE	20	BII	A E	NT	
Client:	BLAG	s End	NUEERING EVC.	□ Standard	Rush	By WED 2/20/2013 AFTERMUN													TO	
7	3PA	MERIC	A	Project Name	e:					17476.115	www									
Mailing	Address	P.O.	A Box 87	VLI	BARRI C	× 2		49	01 H		ns Ni							109		
			D NM 87413	Project #:							5-39						410			
Phone a			-632-1199									A	naly	sis l	Req	uest	t			
email o			•	Project Mana	ger:			(ylu	30					04)						
QA/QC I	Package: _. dard		☐ Level 4 (Full Validation)	J.	BLAG		s (8021)	TPH (Gas only)	30 / MF			SIMS)		PO4,SC	PCB's				6	
Accredi		□ Othe	er	Sampler:	J-BU	ALL	EMB's	TPH	0 / DF	8.1)		8270 8		3,NO2	/ 8082		2			2
□ EDD	(Type)_			Sample Tem	perature: //	5	1	3E +	(GR	d 41	d 50	o o	als	8	des	~	00	W		o
Date	Time	Matrix	Sample Request ID	icrozlally Container Type and # Most Kit	Preservative Type	7034	BTEX + ME	BTEX + MTBE +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHRONIDE		Air Bubbles (Y or N)
15/13	1238	SOIL	38'862We10'-12'		cash	-001	X		X									X		
11	1248	24	38'546W@ 13'	10.00	u	-002	X		×		-	-						X	+	+
				192								-							+	
-												1							+	
																			+	
Date:	Time:	Relinguish	ed bv:	Received by:		Date Time	Ren	nark					NO -			0.	7//-		1	
2/18/13 Date:	1555 Time:	Refinquish	for C. Blyg	Martine Received by:	Waller	2/19/13 1555 Date Time	E	Siu	B	CAG	201						115			
118/13	necessary,	emples sub	mitted to Hall Environmental may be subc	ontracted to other a	ocredited laboratorie	<u>02/19/13 0950</u> es. This serves as notice of this	9 possi	bility.	Arry su	b-cont	racted	data v	vill be	clearly	y nota	ited or	the a	nalytica	report.	

C	hain-	of-Cu	stody Record	Turn-Around	Time:	Br Moro	AF								/TF		212	451	ITA	
Client: 1	BLAG	- EN	GINEEDING INC.	☐ Standard	Rush	By Mono. 2/25/20	213												ATI/	
14	2A	AME	246 0	Project Name):							ww.ha								
Mailing	Address	P.O.	Box 87	ULIE	BARRI G	c Z			490	1 Ha	wkins							109		
B	LOOME	FLELD	NM 87413	Project #:							-345-						4107			
Phone #	: 5	05-	NM 87413 632-1199						100			/	Analy	ysis	Req	uest				
email or	Fax#:			Project Mana	ger:			_	only)	<u>ô</u>				04)						
QA/QC F	Package: dard		□ Level 4 (Full Validation)	J. Sampler: J	BURGO			s (8021)	+ TPH (Gas or	30 / MF		SIMS)		PO4,SC	PCB's					
Accredi	tation		5	Sampler: J	- BLAG	6		IMB's	H		= =	70 8		NO	8082					ĺ
□ NEL	AP	□ Othe	er	On Ice	14 Yes and a	END (1+1	+	2	118	82	(0	03,6	8/8		(A)	140		2
□ EDD	(Type)_			Sample Rem	perature: 🛝			MTBE	MTBE	9	po de	00	etals	Z	cide	F	i-VC	704		\
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	"HEAL NO.		BTEX + M	BTEX + MI	TPH 8015B (GRO / DRO / MRO	TPH (Method 418.1)	PAH's (8310 or 8270 S	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHLOCHDE		Air Buhhles
19/2012	1573	5011_	67'S 33We 11'-13'	40221	COUL	-00		X		×		1	-	1	w	ω.	- W	X		
700.5		100			400					1									1	+
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														-						
Date:	Time:	Relinquish	ned by:	Received by:	,) .	Date Time		Ren	narks	(FRE	×	D	20	0/	U	80	15		
Date:	1545 Time:	Religyuish	y Dyg	Received by:	Wall	72/2013 15 Date Time	345		BIL	_	B	AG	-							
2/20/13	1754	Mr.	ati blelen	14	26 0	22112 1	0.4	50	P	6	14.14	107	,	TE		R	-	=		
H	necessary.	samples sub	omitted to Hall Environmental may be subs	ontracted to other a	ccredited laboratoric	es. This serves as notice	e of this	possi	bility. A	ny sub	-contra	ted dat	a will b	e clea	rly note	ated or	n the a	nalytical	report.	

			stody Record	Turn-Around	Time:	BY MONDAY 3/4/2013				H	IA		FI	NV	TE	20	NI	4FI	NTA	NI.
Client:	BLAGE	ENGIN	EERING INC.	☐ Standard	X Rush	1		MAD											TO	
		MERIC		Project Name	9:											tal.co				
Mailing	Address	P.O.	Box 27	ULIBA	ner GC.	2		490	01 H								M 87	109		
			NM 87413	Project #:						5-34							4107			
			32-1199						00		0.00				_	uest	-			
email o				Project Mana	ger:		_	only)	(les					04)						TT
QA/QC	Package:		☐ Level 4 (Full Validation)		BLAGE		's (8021)	TPH (Gas or	(Gas/Diesel)					,PO4,S	PCB's			*		
Accred				Sampler:		- J-	188	Hd.	B (G	=	=	F		NO2	8082					1 5
□ NEL		□ Othe	r	On ice	XOYes	₫ No	1 1	+	8015B	418	504	PAH	S	103,	98/		OA)	M		2
	(Type)			Sample sem	oleterrite/		METER	MTBE	po	hod	hod	A or	/leta	,C,	ticid	OA)	ni-V	2		200
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		10 A	BTEX + N	TPH Method	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLONIPE		Air Ruhhlac (V or N)
2/2/13	1555	SOIL	103'+ 115' \$32W	402×1	COUL	-001	X	ш	X		ш	ω	ш.	d	Φ.	۵	ω	X		
11	1617	11	159' 833E	11	11	-002	X		×									X		\top
1/25/13	1140	10	SOUTH SIDEWALL Z-pt comp. 10-12' WEST EXTENT 3-pt comp 11-13'	10	ι(-003	X		X									X	1	+
1/27/13	1030	14	WEST EXTENT	11	11	-004	X		X					-				X	+	++
			3-he comb 11 -13			209												7	_	\parallel
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																				\parallel

Date:	Time: 1436	Relinquish	1849	Received by:	Jack	Date Time		narks					PRO	(ラ ル	80	015	B		
2/27/13	1720	Ch	Mistry Walley mitted to Hall Environmental may be subr	contracted to other a	Coredited laborator	ps/13 09'.59 les. This serves as notice of th		P bility. A	Ce Anv su	b-cont	S.C.	data	Will be	clear	F-F ly nota	Te ated or	the a	nalytical	report	

Client:			stody Record	Turn-Around	8	3-11-	2013	1												NT		
	1-LAC	of ENG	SINEERING INC.	Standard Project Name				-											RA	TO	RY	
Moiling	15P	AME	RICA		irri GC	2						www	v.hal	lenv	iron	ment	tal.co	om				
	Common Co.		Box 87	Project #:	ruei GC	- ~		-	490	01 H	lawki	ins N	IE -	Alb	uque	erqu	e, N	M 87	109			
	-		NM 87413	Project #.					Te	el. 50)5-34	5-39					_	410	7			
Phone ?		05-63	21199										А	naly		Req	uest					
email or				Project Mana	-			5	only	ese					304)	_co						
QA/QC I	Package: dard		□ Level 4 (Full Validation)	J-B	1466			's (8021)	+ TPH (Gas only)	3as/Di					,PO4,	2 PCB's						
Accredi		□ Otho			I. BLAGG			TWIB's	TPH	5B ((.1	1.1	E		,NO	8082					1 1	î
	(Type)	LI Othe	Pr		Yest (1) perature = 1			t		801	1418	1 504	r PA	als	NO	les /		10A	DE			7 0
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		EALING	BTEX + MITBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	CHUNEIDE			Air Bubbles (Y or N)
3/4/13	0901	SOIL	63'N74W@11-13'	402×1	cox		001	X	-	X									X			-
																						_
								4												_	1	-
			12:					-												_	11	_
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Date:	Time:	Relinquish	ed by:	Received by:	Wallen	Date 3	4 1405	-	marks					DR	0	0,10	8	015	3			_
3/5/13	1740 f necessary,	Ahru samples sub	to Walles 2	contracted to other a	DS C	olo 12 es. This se	0953	is possi	bility.		nta.	-	-	-		D		n the a	nalytica	report.		

C	hain-	of-Cu	istody Record	Turn-Around	Time:	By W	larder				-	IA		F	uv	TE	20	NI	ИF	NT	'AI	
Client:	BLAG	Engil	neerly Inc.	□ Standard	Rush_	3/4] -												ATC		
-	ZP L	Mont	rad	Project Name	:								v.hal									
Mailing	Address	PO.	Box 87	ULIBARR	i GC Z	-			49	01 H	awki								109			
			NM 87413	Project #:							5-34						345-					
			532-1197										Α	naly	sis	Req	uest					
email o				Project Mana	ger:			_	(Klu	Q					(7)						\top	
	Package:		□ Level 4 (Full Validation)	J. 75				MIBE + TMB's (8021)	TPH (Gas only)	DRO (MRG)			SIMS)		,PO4,SC	PCB's						
Accredi				Sampler: J	BLAGG			MB	PH	10/	7	7	8270 8		102	3082						9
□ NEL	AP	□ Othe	er	On Ice:	WYes	E No. ∷	- Mg	+	+	RO	418.1)	904		m	03,	8/8		(A)	W			or
□ EDD	(Type)		75	Sample Tem	derature;	1.0		H	BE	3 (G	od 4	po	0 or	etal	Z	side	(A	i-VC	CID			5
Date	Time	Matrix	Sample Request ID		Preservative Type	The second second second	IL No	BTEX + NAT	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHORNE			Air Bubbles (Y or N)
4/13	1029	SOIL	94 N78W@11-12'	402×1	COUL	Characteristic Annual Section 1	-001	X		X									X			
If	1034	t(111 N80WC11-13-	U	1f		002	X		X									X		+	\dashv
			(34																			
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-				100																	\top	
Date: 4/13	Time: 1504	Relinquish	H Blogg	Received by:	Waller	Date 3/1/3	Time 1504	-	mark	-	466											
Date:	Time:	Relinéquist	Walle 9	Received by:	(Gai	03/08/	Time 13/0:00	-			466 lad				_	Pea	ce	_		cal repo	4	

Ch	nain-	of-Cu	stody Record	Turn-Around	Time:	BYT	husday					IAI		E	MV	TE	20	BI B	ΛFI	NT	A.I.
Client:	E-A	C EN	ich Erc	□ Standard	Rush	3/14	1/2013				_									то	
7.0		Auto	ic a	Project Name	9:							www									
Mailing A	ddress	Pn	Zax 87	ULIBA	RRI GC	2			490)1 H		ns N							109		
	1		NM 97413	Project #:				1				5-39				-		4107			
Phone #:			632-1199										10.00	_		Req	_		J		
email or F	-			Project Mana	ger:				(ýl	9					(†)						
QA/QC Pa			□ Level 4 (Full Validation)	J. E	2466			\$ (8021)	(Gas only)	RO MIRO			SIMS)		,PO4,S	2 PCB's			1		
Accredita		- O#-	_		I. BLAG		999	1 SEE	TPH	/ DRO	=	E	8270		NO	8082			101		2
□ NELAF		□ Otne	r		V/AY/es	CR. ACRONISMS - TOOLS - CO.			+	(GRO	418	504	or 8,	8	9	_		OA	10%		lo y
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative	126	AL No.	BTEX + MITBE	BTEX + MTBE	TPH 8015B (0	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLORUDE		Air Bubbles (Y or N)
3/8/12	1140	Soll	146' S832W	402 ×1	car		001	×		X						-			X		
7.7			@ 10 -12											0.							
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	1																	-			
3/8/13 L Date: Ti	ime: 305 ime:	Relinquish Relinquish	H Sligg	Received by:	Walter	73/8/13 Date	1305		marks B(L)		BL	A60	6								
	730 ecessary.	samples sub	is to Walls mitted to Hall Environmental may be sub	contracted to other a	accredited laborator	12 12 ies. This ser	ves as notice of th				_		- 50		CC clear	ly note	eq.c	e the a	nalytica	report.	Sez

CI	hain-	of-Cus	stody Record	Turn-Around	Γime:	COMPLETE BY			11		4.6		F	N	/TE	20	NI	MF	N	ГА		
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush	03/20/2013			F										AT			
				Project Name						Ī					nme							
Mailing Ad	ddress:	P.O. BO	X 87	1	JLIBARRI GO	C#2		49	01 H	law								3710	9			
		BLOOM	FIELD, NM 87413	Project #:	11.44 - 11.44							975			505							
Phone #:		(505) 63	2-1199									-	Anal	ysis	Red	ques	st					
email or F	ax#:			Project Manag	ger:				771	-								1)		\Box		Γ
QA/QC Pad	ckage:				JEFF BL	AGG	3	~	1					SO	PCB's			- 300.1)				
✓ Standa	ard		Level 4 (Full Validation)				(8021B)	luo	HAMING			18)		PO4				ter-			e)	
Accreditat	tion:			Sampler:	NELSON	VELEZ 975	F	(Gas	RO,	1	1	SIN		102,	/ 8082			/ wa			sample	
□ NELAP		□ Other		On Ice:	Yes	THE RESIDENCE OF THE PARTY OF T	1	TPH	0/0	118	504	3270		03,1	s/s		A	0.00				11.4
□ EDD (1	Гуре)			Sample Temp	erature:	OKARA	l	+	GRC	po	po	or 8	tals	Ž	cide	A	- N	11-3(e	osit	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1403582	BTEX +-MITB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soll - 300.0 / water		Grab sample	5 pt. composite	AT- M. A. L. L.
3/11/13	1320	SOIL	180', S73W @11'-13'	4 oz 1	Cool	-001	٧		٧									٧		٧		
3/11/13	1335	SOIL	171', S88W @11'-13'	4 oz 1	Cool	-002	٧		٧					-				٧		٧		
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							3															L
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Rer	nark	s:	BP	Cor	itac	t: .	Jeff	Pea	ce						
3/13/13	843	1/1/	in 11	Maita	Walter	3/13/13 843	S	end	invoi	ce to												
Date:	Time:	Rélinquish	ed by:	Received by:	<u> </u>	Date Time	1					lagg O. B			ing, I	nc.						
3/13/13	1748	Chri	tu Waller	Muse	e/ to 03	3/14/13 10:00		11,000							1 874	113	(6)					

C	hain-c	of-Cus	tody Record	Turr-Around I	IIIIC.		١,	1	1 1	ŀ	A	11	F	NV	/TE	20	NI	MEN	TA	ı	
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	☐ Rush _			- 2	F	77.0								RAT			
				Project Name:				101	55								.com				
Mailing A	ddress:	P.O. BO	X 87	ULIB	ARRI GC#	1A/#2		49	01 H									37109			
-		BLOOM	FIELD, NM 87413	Project #:)5-34					Ť		-410				
Phone #:		(505) 63	2-1199	1						1 1		F	Anal	ysis	Red	ques	st				
email or F	ax#:			Project Manag	er:		<u>~</u>							(4)							
QA/QC Pad Standa			Level 4 (Full Validation)		JEFF BL	AGG	(8021B)	+ TPH (Gas only)	(Auto)			15)		PO4,504)						a	
Accreditat	ion:			Sampler:	NELSON	VELEZ TV	4	(Gas	DRO /	1)	1)	8270SIMS)	AV	102	Solids	(filtered)	z			sample	
□ NELAP	-	□ Other		On Ice:	Yes	□ No.	Ħ	TPH	-	418.1)	504.1)	827	50	9	d So	filte	Nitrite				
□ EDD (1	ype)	1		Sample Tempe	rature, Z	6	#	3E +	(GR(por	pot		Metals	(F,CI,NO	olve		Nit		e e	osit	:
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 13/15/12/20	BTEX +**	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method	PAH (8310 or	RCRA 8 M	Anions (F,	Total Dissolved	Iron, Ferrous	Nitrate N		Grab sample	5 pt. composite	
4/29/13	1100	WATER	MW # 1	40 ml VOA - 2	HCI & Cool	-00	٧												٧		
4/29/13	1100	WATER	MW # 1	500 ml - 1	Cool									٧	٧				٧		-
4/29/13	1100	WATER	MW # 1	250 ml - 1	HNO ₃ & Cool										-	٧			٧		_
4/29/13	1100	WATER	MW # 1	250 ml - 1	H ₂ SO ₄												٧		٧		
-1/29/13	4540	WATER		10 ml VOA 2	HGI & Gool	-002	4												4	-	
4/29/13	1510	WATER	MW#2	500 ml 1	Gool									*	4				4	-	_
4/20/13	4540	WATER	MW # 3	250 ml 1	HNO, 8. Cool											4			4	-	
4/20/13	1510	WATER	BANA # 2	250 ml 1	n'co*												V		4	-	
4/30/13	1320	WATER	BA/W # 2	40 mLVOA 2	HCL & Cool	003	V												1	-	_
4/20/12	1320	WATER	VW/W # 5	500 ml 1	Cool									¥	V				1	_	-
4/20/12	1220	WATER	PAIN # 3	350 ml 1	HNO & Cool											¥			¥	-	_
4/29/13	1320	WATER	MW#2	250 ml 1	H ₂ SO ₄												V		V	-	_
Date: 4/30/13 Date: 1/30/13	Time: \$10 Time:	Relinquish	dury of	Received by:	Waster	Date Time		nark end i		BP ce to	Bl:	agg E	ingin	eeri	100	nc.					1
130/13		ary samples s	ubmitted to Hall Environmental may be s	ubcontracted/to other	accredited laboratorie	or. This serves as notice of	f this n	ossibil	lity. A	nv sub		_					ed on	the analyt	ical ren	ort	_

C	nain-c	ot-Cus	tody Record	Tuni 7 Tourid			l i	1	1 1	ŀ	A	LL	E	NV	TE	20	NI	MEN	TA	L	
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush				F									RAT			,
				Project Name:													.com		•		
Mailing A	ddress:	P.O. BOX	X 87	ULIB	ARRI GC # 1	LA / # 2		49	01 H									7109			
			FIELD, NM 87413	Project #:)5-34							-410				
Dhana #		(505) 63						10	1. 30	,5-5	+3-3		Anal				-				
Phone #: email or F	ax#:	(303) 03	2 4400	Project Manag	er:	_															Г
QA/QC Pa					JEFF BL	AGG	218)	-	1					504)							
☑ Stand			Level 4 (Full Validation)				(8021B)	only)	#			(S)	1.1	-\$						۵	
Accreditat	tion:			Sampler:	NELSON	VELEZ 91V	1	(Gas	DRO /	1)	1)	8270SIMS)	41V	10 _Z	Solids	(filtered)	z			sample	
□ NELAF)	□ Other		On Ice:	Yes	□ No	Ħ	TPH	-	418.1)	504.1)	8270	10	150		filte	/ Nitrite N				
□ EDD (1	ype)	,		Sample Tempe	rature: 2	2.6	#	+	(GRO	po	por	or 8	Metals	(F,CI,NO	lve		Z.		e	osit	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +**	BTEX + MTBE	TPH 8015B	TPH (Meth	EDB (Method	PAH (8310 or	RCRA 8 Me	Anions (F,	Total Dissolved	Iron, Ferrous	Nitrate N /		Grab sample	5 pt. composite	1
4/29/13	1410	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-004	٧												٧		
4/29/13	1410	WATER	MW # 4	500 mi - 1	Cool									٧	٧				٧		Γ
4/29/13	1410	WATER	MW # 4	250 ml - 1	HNO ₃ & Cool											٧			٧		T
4/29/13	1410	WATER	MW # 4	250 ml - 1	H ₂ SO ₄												٧		٧		T
4/29/13	1235	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-005	٧												٧		Γ
4/29/13	1235	WATER	MW # 5	500 ml - 1	Cool									٧	٧				٧		T
4/29/13	1235	WATER	MW # 5	250 ml - 1	HNO ₃ & Cool											٧			٧		
4/29/13	1235	WATER	MW # 5	250 ml - 1	H ₂ SO ₄												٧		٧		
4/29/13	1155	WATER	MW # 6	40 ml VOA - 2	HCl & Cool	-000	٧												٧		Γ
4/29/13	1155	WATER	MW # 6	500 ml - 1	Cool									٧	٧				٧		
4/29/13	1155	WATER	MW # 6	250 ml - 1	HNO ₃ & Cool								75		-	٧			٧		
4/29/13	1155	WATER	MW # 6	250 ml - 1	H ₂ SO ₄												٧		٧		
Date:	Time:	Relinquishe	ed by:	Received by:		Date Time	Rer	nark	s:	BP	Con	tact	t: J	leff	Pea	ce					
4/30/13 Date:	S16	Relinquishe	and by	Mustur Received by:	Water	4/30/15 816 Date Time	S	end i	nvoi	ce to		agg I	Engin	neeri	ng, l	nc.					
1/36/13	סארו	(W	ubmilited to Hall Environmental may be s	V (T	A O	6/01/B 0960)				ВІ	oom	ox 87 field	, NIV							

Hall Environmental Analysis Laboratory, Inc.

11-Jul-12

1206B93

WO#:

Client: Project: Blagg Engineering

Ulibarri GC 2

Sample ID MB-2673

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date: 7/2/2012

PBS

Batch ID: 2673 Analysis Date: 7/2/2012 RunNo: 3837

SeqNo: 108769

Units: mg/Kg

Qual

Analyte Chloride

Result

ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-2673

Client ID: LCSS

Batch ID: 2673

1.5

RunNo: 3837

SeqNo: 108770

Units: mg/Kg

110

Analyte

Prep Date: 7/2/2012

Analysis Date: 7/2/2012 Result PQL

SPK value SPK Ref Val

15.00

%REC 96.0

RunNo: 3861

LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

Client ID:

Sample ID MB-2690

Prep Date: 7/3/2012

Sample ID LCS-2690

PBS

14

SampType: MBLK Batch ID: 2690

1.5

0

TestCode: EPA Method 300.0: Anions

90

Units: mg/Kg

Analyte

Analysis Date: 7/3/2012 SPK value SPK Ref Val PQL

SeqNo: 109558

%REC LowLimit HighLimit

RPDLimit

Qual

Chloride

Client ID:

Prep Date:

ND

Result

Result

14

1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 3861

SeqNo: 109561

HighLimit

110

Units: mg/Kg

%RPD

Qual

Analyte Chloride

7/3/2012

LCSS

Batch ID: 2690 Analysis Date: 7/3/2012

PQL

1.5

SPK value SPK Ref Val

15.00

%REC

0

92.6

LowLimit 90

%RPD

RPDLimit

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

B Analyte detected in the associated Method Blank

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

Page 16 of 20

R RPD outside accepted recovery limits Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B93

11-Jul-12

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-2635	SampTy	pe: MB	LK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Batch	ID: 263	5	F	RunNo: 3	783				
Prep Date: 6/29/2012	Analysis Da	ite: 6/3	30/2012	5	SeqNo: 1	07009	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	10		10.00		103	77.6	140			
Sample ID LCS-2635	SampTy	pe: LCS	S	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID: LCSS	Batch	ID: 263	5	F	RunNo: 3	783				
Prep Date: 6/29/2012	Analysis Da	ite: 6/3	0/2012	S	SeqNo: 1	07011	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	80.4	52.6	130			
Surr: DNOP	4.0		5,000		80.9	77.6	140			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range E

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 17 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B93

11-Jul-12

Client: Blagg Engineering Ulibarri GC 2 Project:

Sample ID mb-2616	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batc	h ID: 26	16	F	RunNo: 3	777				
Prep Date: 6/28/2012	Analysis [Date: 6/	29/2012	8	SeqNo: 1	08137	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	0.40		0.5000		80.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		91.0	70	130			
Surr: Dibromofluoromethane	0.39		0.5000		77.4	71.7	132			
Surr: Toluene-d8	0.43		0.5000		85.1	70	130			

Sample ID Ics-2616	Samp	ype: LC	S	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batc	h ID: 26	16	F	RunNo: 3	777				
Prep Date: 6/28/2012	Analysis [Date: 6/	29/2012	5	SeqNo: 1	08138	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	102	70.7	123			
Toluene	0.96	0.050	1.000	0	96.2	80	120			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		81.0	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.3	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		84.7	71.7	132			
Surr: Toluene-d8	0.44		0.5000		87.2	70	130			

Sample ID mb-2629	Samp ¹	Type: ME	BLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Shor	t List	
Client ID: PBS	Batc	h ID: 26	29	F	RunNo: 3	860				
Prep Date: 6/28/2012	Analysis [)ate: 7/	3/2012	5	SeqNo: 1	09692	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	0.41		0.5000		82.1	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.2	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		84.1	71.7	132			
Surr: Toluene-d8	0.43		0.5000		86.3	70	130			

SampTy	ype: LC	S	Tes	tCode: E	PA Method	8260B: Volat	tiles Short	List	
Batch	ID: 26	29	R	RunNo: 3	860				
Analysis Da	ate: 7/	3/2012	S	SeqNo: 1	09717	Units: mg/K	(g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0.98	0.050	1.000	0	97.8	70.7	123			
0.03	0.050	1 000	0	033	80	120			
	Batch Analysis Da Result 0.98	Batch ID: 26: Analysis Date: 7/ Result PQL 0.98 0.050	0.98 0.050 1.000	Batch ID: 2629 F Analysis Date: 7/3/2012 S Result PQL SPK value SPK Ref Val 0.98 0.050 1.000 0	Batch ID: 2629 RunNo: 3 Analysis Date: 7/3/2012 SeqNo: 1 Result PQL SPK value SPK Ref Val %REC 0.98 0.050 1.000 0 97.8	Batch ID: 2629 RunNo: 3860 Analysis Date: 7/3/2012 SeqNo: 109717 Result PQL SPK value SPK Ref Val %REC LowLimit	Batch ID: 2629 RunNo: 3860 Analysis Date: 7/3/2012 SeqNo: 109717 Units: mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.98 0.050 1.000 0 97.8 70.7 123	Batch ID: 2629 RunNo: 3860 Analysis Date: 7/3/2012 SeqNo: 109717 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 0.98 0.050 1.000 0 97.8 70.7 123	Batch ID: 2629 RunNo: 3860 Analysis Date: 7/3/2012 SeqNo: 109717 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit 0.98 0.050 1.000 0 97.8 70.7 123

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

Page 18 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206B93 11-Jul-12

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID Ics-2629	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batch	n ID: 26	29	F	RunNo: 3	860				
Prep Date: 6/28/2012	Analysis D	ate: 7/	/3/2012	8	SeqNo: 1	09717	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.2	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.2	70	130			
Surr: Dibromofluoromethane	0.40		0.5000		80.1	71.7	132			
Surr: Toluene-d8	0.43		0.5000		85.4	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 19 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206B93

11-Jul-12

Client:

Blagg Engineering

Sample ID mb-2616	SampType: MBLK	TestCode: EPA Method 8015B Mod: Gasoline Range
Client ID: PBS	Batch ID: 2616	RunNo: 3777
Prep Date: 6/28/2012	Analysis Date: 6/29/2012	SeqNo: 107743 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 450 500.0	91.0 70 130
Sample ID LCS-2616	SampType: LCS	TestCode: EPA Method 8015B Mod: Gasoline Range
Client ID: LCSS	Batch ID: 2616	RunNo: 3777
Prep Date: 6/28/2012	Analysis Date: 6/29/2012	SeqNo: 107744 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Gasoline Range Organics (GRO) Surr: BFB	31 5.0 25.00 450 500.0	0 123 85 115 S 89.2 70 130
Sample ID mb-2629	SampType: MBLK	TestCode: EPA Method 8015B Mod: Gasoline Range
Client ID: PBS	Batch ID: 2629	RunNo: 3860
Prep Date: 6/28/2012	Analysis Date: 7/3/2012	SeqNo: 109463 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qu
Gasoline Range Organics (GRO)	ND 5.0 450 500.0	90.2 70 130
Surr: BFB	450 500.0	
Sample ID LCS-2629	SampType: LCS	TestCode: EPA Method 8015B Mod: Gasoline Range
35-51-61-(-01/1-0-2)	1,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sample ID LCS-2629	SampType: LCS	TestCode: EPA Method 8015B Mod: Gasoline Range
Sample ID LCS-2629 Client ID: LCSS	SampType: LCS Batch ID: 2629 Analysis Date: 7/3/2012	TestCode: EPA Method 8015B Mod: Gasoline Range RunNo: 3860

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

J Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank B

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit Reporting Detection Limit

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uuu Environmenuu Anaiysis Laboraior) 4901 Hawkins NE Albuquerque, NM 87105

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

Sample Log-In Check List

Client Nan	ne: BLAGG				Work Or	der N	lumh	per 1	1206B93
Received	6	6.061	28/12		TION O	301 11			
								1	N
Logged By	Anne Tho	rne	6/28/201	2 10:00:00	AM			Cleru	. I.
Complete	By: Anne Tho	rne	6/28/2012					am	· Show
Reviewed	By: MG		Cle	18/12					
Chain of	Custody	N							
1. Were	seals intact?				Yes		No		Not Present
2. Is Ch	ain of Custody con	nplete?			Yes	V	No		Not Present
3. How	was the sample de	livered?			Cou	rier			
Log In									
		40 6			V	V	Nic		NA 🗆
4. Coole	ers are present? (se	98 19. for coole	r specific infor	mation)	Yes	•	NO		NA L
5. Was a	an attempt made to	cool the same	oles?		Yes	V	No		NA 🗆
0.									
6. Were	all samples receiv	ed at a temper	ature of >0° C	to 6.0°C	Yes	~	No		NA 🗆
							-		
	le(s) in proper con				Yes	V			
200	Sufficient sample volume for indicated test(s)?								
	Are samples (except VOA and ONG) properly preserved?								NA 🗆
10. Was p	preservative added	to bottles?			Yes		No	A	NA 🗆
11. VOA	vials have zero hea	adspace?			Yes		No		No VOA Vials
2.01	any sample contai		oroken?		Yes		No	V	
13. Does	paperwork match I	bottle labels?			Yes	V	No		# of preserved bottles checked
	discrepancies on o				22				for pH:
7.5	atrices correctly id		57.5	?	Yes	V			(<2 or >12 unless noted) Adjusted?
	ear what analyses all holding times a		a?		Yes	V			
	notify customer fo)		163	•	110		Checked by:
Special I	landling (if ap	plicable)							
17. Was (client notified of all	discrepancies	with this order	?	Yes		No		NA 🗹
	Person Notified:			Date	_	-	-		
	By Whom:			Via:	eMa	ii [7 Ph	опе	Fax In Person
	Regarding:			¥10.	CIVIC			-	
	Client Instructions:						11.00 21	_	The state of the s
18 Additi	onal remarks:								
IO. Additi	onarionalita.								
	r Information	1 -	I a constitution	La con I					- I
Co	oler No Temp °C		Seal Intact	Seal No	Seal Da	te	- 5	Signe	ed By
[1	1.0	Good	Yes						

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301716

25-Jan-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-5796

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 5796

RunNo: 8232

Prep Date: 1/23/2013

Analysis Date: 1/23/2013

SeqNo: 237878 SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

Analyte

Result PQL

RPDLimit

Qual

Chloride

ND

Sample ID LCS-5796

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 8232

Prep Date: 1/23/2013

Batch ID: 5796

SeqNo: 237880

Units: mg/Kg

Analyte

Client ID:

Analysis Date: 1/23/2013

SPK value SPK Ref Val

%REC Lowl imit HighLimit

RPDLimit

Qual

Chloride

Result

PQL 1.5 15.00

96.4

110

%RPD

Sample ID 1301617-001AMS

LCSS

SampType: MS

Batch ID: 5796

14

TestCode: EPA Method 300.0: Anions RunNo: 8232

SeqNo: 237906

Units: mg/Kg

%RPD

Analyte

Prep Date: 1/23/2013

BatchQC

Analysis Date: 1/23/2013

LowLimit

HighLimit

Chloride

Client ID:

Prep Date:

Client ID:

35

PQL 7.5 15.00

SPK value SPK Ref Val %REC 19.72 99.9

64.4

117

%RPD **RPDLimit**

Qual

Sample ID 1301617-001AMSD

SampType: MSD

Batch ID: 5796

TestCode: EPA Method 300.0: Anions RunNo: 8232

Units: mg/Kg

Qual

Analyte Chloride

1/23/2013

BatchQC

Analysis Date: 1/23/2013

34

Result

PQL

7.5

15.00

SPK value SPK Ref Val 19.72

%REC 92.2

SeqNo: 237907

LowLimit 64.4 HighLimit 117 %RPD 3.42 **RPDLimit**

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

H

Page 2 of 6

Sample pH greater than 2

Not Detected at the Reporting Limit RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301716

25-Jan-13

Client: Blagg Engineering
Project: Ulibarri GC 2

rroject:	Olloam	30.2								
Sample ID	MB-5800	SampType	MBLK	Tes	tCode: E	PA Method	8015B: Diese	el Range	Organics	
Client ID:	PBS	Batch ID:	5800	F	RunNo: 8	204				
Prep Date:	1/23/2013	Analysis Date:	1/23/2013	5	SeqNo: 2	37348	Units: mg/K	(g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	ND 10	10.00		103	72.4	120			ni i
Sample ID	LCS-5800	SampType	LCS	Tes	tCode: E	PA Method	8015B: Diese	el Range (Organics	
Client ID:	LCSS	Batch ID:	5800	F	RunNo: 8	204				
Prep Date:	1/23/2013	Analysis Date:	1/23/2013		SeqNo: 2	37349	Units: mg/K	g		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	49	10 50.00	0	97.7	47.4	122			
Surr: DNOP		5.5	5.000		109	72.4	120			
Sample ID	MB-5753	SampType	MBLK	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID:	PBS	Batch ID:	5753	F	RunNo: 8	204				
Prep Date:	1/21/2013	Analysis Date:	1/23/2013	8	SeqNo: 2	37449	Units: %RE	С		
Analyte		Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.8	10.00		98.4	72.4	120			
Sample ID	LCS-5753	SampType:	LCS	Tes	tCode: El	PA Method	8015B: Diese	el Range (Organics	
Client ID:	LCSS	Batch ID:	5753	F	RunNo: 8	204				
Prep Date:	1/21/2013	Analysis Date:	1/23/2013	8	SeqNo: 2	37450	Units: %RE	С		
Analyte		Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.3	5.000		106	72.4	120			
Sample ID	1301604-001AMS	SampType:	MS	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch ID:	5753	F	RunNo: 8	204				
Prep Date:	1/21/2013	Analysis Date:	1/23/2013	S	SeqNo: 2	37666	Units: %RE	С		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.3	4.995		107	72.4	120			
Sample ID	1301604-001AMS	SampType:	MSD	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch ID:	5753	R	RunNo: 8	204				
Prep Date:	1/21/2013	Analysis Date:	1/23/2013	S	SeqNo: 2	37668	Units: %RE	С		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.6	5.107		109	72.4	120	0	0	

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 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1301716 25-Jan-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-5814

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID:

PBS Batch ID: 5814

RunNo: 8204

Units: %REC

Prep Date: 1/24/2013

Analysis Date: 1/24/2013

Analyte

SegNo: 238133

Result

SPK value SPK Ref Val %REC

Surr: DNOP

9.8

10.00

LowLimit

HighLimit

120

RPDLimit

Qual

Sample ID LCS-5814

SampType: LCS

PQL

RunNo: 8204

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

Client ID: LCSS

Batch ID: 5814

Analysis Date: 1/24/2013

SeqNo: 238134

Units: %REC

Analyte

Prep Date: 1/24/2013

Result PQL

SPK value SPK Ref Val %REC

LowLimit

HighLimit

Qual

Sur: DNOP

5.4

5.000

109

72.4

120

%RPD **RPDLimit**

Oualifiers:

Value exceeds Maximum Contaminant Level.

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

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301716

25-Jan-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-5773

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

Batch ID: 5773

RunNo: 8209

Prep Date: 1/22/2013

SeqNo: 237670

Units: %REC

Analyte

Analysis Date: 1/23/2013

104

1000

SPK value SPK Ref Val %REC 1000

LowLimit

HighLimit

116

%RPD **RPDLimit** Qual

Surr: BFB

Sample ID LCS-5773

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS

Batch ID: 5773

RunNo: 8209

Prep Date: 1/22/2013

Analysis Date: 1/23/2013

PQL

SeqNo: 237671

Units: %REC

Qual

Analyte Surr: BFB Result 1300

1000

LowLimit

RPDLimit

S

SPK value SPK Ref Val %REC

127

84

HighLimit 116 %RPD

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 В

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1301716

25-Jan-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-5773

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

80

Client ID:

PBS

Batch ID: 5773

RunNo: 8209

Prep Date: 1/22/2013

Analysis Date: 1/23/2013

SeqNo: 237699

Units: %REC

Analyte

116

Result

SPK value SPK Ref Val

HighLimit

Surr: 4-Bromofluorobenzene

1.2

1.000

SPK value SPK Ref Val %REC

%REC LowLimit

120

Qual

Sample ID LCS-5773

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

%RPD

Client ID: LCSS

Batch ID: 5773

RunNo: 8209

Prep Date: 1/22/2013

Analysis Date: 1/23/2013

PQL

SeqNo: 237700

Units: %REC

RPDLimit

RPDLimit

Qual

Result

118

LowLimit

HighLimit

%RPD

Surr: 4-Bromofluorobenzene

1.2

80

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

RPD outside accepted recovery limits

Not Detected at the Reporting Limit

Page 6 of 6



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 Name: BLAGG	Work Order Number: 1301716									
Received by/date: 4 01/23/13										
Logged By: Michelle Garcia 1/23/2013 10:05:00	AM Mitall Garia									
Completed By: Michelle Garcia 1/23/2013 10:10:11	AM Mirall Cours									
Reviewed By: 61 23 13										
Chain of Custody										
1. Were seals intact?	Yes ☐ No ☐ Not Present 🗹									
2. Is Chain of Custody complete?	Yes ✓ No ☐ Not Present ☐									
3. How was the sample delivered?	Courier									
Log In										
4. Coolers are present? (see 19. for cooler specific information)	Yes ✓ No □ NA □									
5. Was an attempt made to cool the samples?	Yes ☑ No ☐ NA ☐									
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✓ No □ NA □									
7. Sample(s) in proper container(s)?	Yes ✓ No □									
8. Sufficient sample volume for indicated test(s)?										
9. Are samples (except VOA and ONG) properly preserved?	Yes ☑ No □									
10. Was preservative added to bottles?	Yes □ No 🗹 NA □									
11. VOA vials have zero headspace?	Yes ☐ No ☐ No VOA Vials ☑									
12. Were any sample containers received broken?	Yes No 🗹									
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes No # of preserved bottles checked for pH:									
14. Are matrices correctly identified on Chain of Custody?	Yes ✓ No ☐ (<2 or >12 unless noted)									
15. Is it clear what analyses were requested?	Yes ✓ No ☐ Adjusted?									
16. Were all holding times able to be met?	Yes ✓ No □									
(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	, , , , , , , , , , , , , , , , , , , ,									
By Whom: Via:	eMall Phone Fax In Person									
Regarding: Client Instructions:										
18. Additional remarks:										
TV.										
19. Cooler Information										
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date Signed By									
1 1.0 Good Yes										

Hall Environmental Analysis Laboratory, Inc.

WO#:

1301836

28-Jan-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 5ML RB	SampType: MBLK Batch ID: R8291 Analysis Date: 1/25/2013			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW				RunNo: 8291							
Prep Date:				SeqNo: 239490			Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
(ylenes, Total	ND	2.0									
Surr: 4-Bromofluorobenzene	19		20.00		93.9	69.7	152				

Sample ID 100NG BTEX LC	Samp	SampType: LCS			TestCode: EPA Method 8021B: Volatiles							
lient ID: LCSW Batch ID: R8291			F									
Prep Date:	Analysis I	Date: 1/	25/2013	8	SeqNo: 2	39491	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	20	1.0	20.00	0	97.5	80	120					
Toluene	20	1.0	20.00	0	97.6	80	120					
Ethylbenzene	20	1.0	20.00	0	99.7	80	120					
Xylenes, Total	62	2.0	60.00	0	103	80	120					
Surr: 4-Bromofluorobenzene	20		20.00		102	69.7	152					

Qualifiers:

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

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

RPD outside accepted recovery limits

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NL Albuquerque, NM 87105

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

Sample Log-In Check List

Client Nan	ne: BLAGG		- 10-1-	Nork O	der N	umbe	r: 1301836				
Received	by/date:		01/25/13								
Logged By	: Michelle	Garcia	1/25/2013 10:00:00 A	M		4	Microll Garcia				
Completed	d By: Michelle	Gargia	1/25/2013 10:03:\$6 A	M		4	Michael Gancia				
Reviewed	Ву:		01/25/13				•				
Chain of	Custody	170				- 8 -					
1. Were	seals intact?	V		Yes		No [Not Pres	ent 🗹			
2. Is Ch	ain of Custody co	mplete?		Yes	V	No [Not Pres	ent 🗌			
3. How v	was the sample d	elivered?		Cour	rier						
Log In											
4. Coole	ers are present? (see 19. for cooler sp	ecific information)	Yes	✓ 1	No [NA 🗌			
5. Was	an attempt made	to cool the samples	?	Yes	V	No [NA 🗌			
6. Were	all samples recei	ived at a temperatur	e of >0° C to 6.0°C	Yes	V 1	No [NA 🗆			
7. Samp	ole(s) in proper co	ntainer(s)?		Yes	V 1	No [
8. Suffic											
9. Are sa	9. Are samples (except VOA and ONG) properly preserved? Yes ✓ No □										
10. Was i	preservative adde	ed to bottles?		Yes		No V	<u> </u>	IA 🗌			
11. VOA	vials have zero he	eadspace?		Yes		No [No VOA Vi	als 🗹			
12. Were	any sample conta	ainers received brok	en?	Yes		No V	=14				
	paperwork match discrepancies on	bottle labels? chain of custody)		Yes	V 1	No [preserved es checked H:			
14. Are m	natrices correctly i	dentified on Chain of	of Custody?	Yes	V	No [(<2	2 or >12 unless noted)		
15. Is it cl	lear what analyse	s were requested?		Yes	V 1	No _		Adjusted?			
	all holding times notify customer f			Yes	V	lo _		Checked by			
	Handling (if a							Checked by	·		
		Il discrepancies with	this order?	Yes		lo []	NA 🗹			
F	Person Notified:		Date:								
E	By Whom:		Via:	eMa	ii 🔲	Phor	ne 🗌 Fax 📗	In Person	_		
	Regarding:		Annual Control	7		Marie Sale			NAME OF THE PARTY		
(Client Instructions	:	· · · · · · · · · · · · · · · · · · ·				- 46	2.3			
18. Additi	onal remarks:										
10 Cools	er Information										
	oler No Temp	C Condition S	eal Intact Seal No	Seal Da	te	Sic	gned By				
1	1.0	Good Ye									

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302592

21-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6148

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 6148

RunNo: 8724

Prep Date: 2/18/2013

Analysis Date: 2/19/2013

0

Units: mg/Kg

SeqNo: 250053

Analyte Chloride

Result PQL ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-6148

Prep Date: 2/18/2013

LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 8724 SeqNo: 250054

Units: mg/Kg

Analyte

Client ID:

Result

Analysis Date: 2/19/2013

SPK value SPK Ref Val

%REC

LowLimit HighLimit

14

PQL 1.5

Batch ID: 6148

15.00

15.00

15.00

94.5

90

%RPD 110

RPDLimit

Qual

Chloride

Sample ID 1302550-001AMS

BatchQC

SampType: MS

Batch ID: 6148

TestCode: EPA Method 300.0: Anions

RunNo: 8724

SeqNo: 250056

Units: mg/Kg

Qual

Analyte

Client ID:

Prep Date: 2/18/2013 Analysis Date: 2/19/2013 Result

PQL

SPK value SPK Ref Val

30.28

%REC LowLimit HighLimit 117

%RPD **RPDLimit** Qual

Chloride

Client ID:

SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 8724

SeqNo: 250057

85.7

65.1

64.4

Units: mg/Kg

7.41

Analyte Chloride

BatchQC Prep Date: 2/18/2013

Sample ID 1302550-001AMSD

Batch ID: 6148

Result

43

Analysis Date: 2/19/2013

PQL

7.5

7.5

30.28

SPK value SPK Ref Val %REC

LowLimit 64.4 HighLimit

117

%RPD

RPDLimit

20

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

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit RPD outside accepted recovery limits

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302592

21-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 1302534-001AMS

SampType: MS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: BatchQC

Batch ID: 6146

POL

RunNo: 8719

Prep Date: 2/18/2013

Analysis Date: 2/19/2013

SeqNo: 250035

Units: %REC

LowLimit

72.4

72.4

120

Analyte Surr: DNOP

Client ID:

Result 7.2

4.826

SPK value SPK Ref Val %REC LowLimit HighLimit

RPDLimit

Qual S

Sample ID 1302534-001AMSD

SampType: MSD

TestCode: EPA Method 8015B: Diesel Range Organics RunNo: 8719

Prep Date: 2/18/2013

BatchQC Batch ID: 6146

141

Units: %REC

120

Analyte

Analysis Date: 2/19/2013 Result

7.0

Result

ND

10

52

5.3

4.960

SeqNo: 250036

HighLimit

RPDLimit Qual 0 S

Sample ID MB-6161

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

0

%RPD

Client ID: PBS

Batch ID: 6161

PQL

RunNo: 8719

Prep Date: 2/19/2013

Surr: DNOP

Analysis Date: 2/19/2013

PQL

SeqNo: 250074

Units: mg/Kg

120

HighLimit

Analyte Diesel Range Organics (DRO)

10 10.00

102

SPK value SPK Ref Val %REC LowLimit

72.4

%RPD **RPDLimit**

Qual

Surr: DNOP Sample ID LCS-6161

SampType: LCS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS

Batch ID: 6161

RunNo: 8719

104

106

Prep Date: 2/19/2013

Analysis Date: 2/19/2013

50.00

5.000

SeqNo: 250075

Units: mg/Kg

%RPD

Analyte Diesel Range Organics (DRO)

Surr: DNOP

Result PQL

10

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

%REC

LowLimit

47.4

72.4

HighLimit

122

120

RPDLimit

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- 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
- ND Not Detected at the Reporting Limit RPD outside accepted recovery limits

Page 4 of 7

Client:

Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering

WO#: 1302592

21-Feb-13

Sample ID MB-6147	SampType:	MBLK	Tes	TestCode: EPA Method 8015B: Gasoline Range									
Client ID: PBS	Batch ID:	R8742	RunNo: 8742										
Prep Date: 2/18/2013	Analysis Date:	2/19/2013	5	SeqNo: 25	0395	Units: mg/k	(g						
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO) Surr: BFB	ND 5	5.0 1000		105	84	116							
Sample ID LCS-6147	SampType:	LCS	Tes	tCode: EP	A Method	8015B: Gaso	oline Rang	e					
Client ID: LCSS	Batch ID:	R8742	F	RunNo: 87	42								
Prep Date: 2/18/2013	Analysis Date:	2/19/2013	5	SeqNo: 25	0396	Units: mg/k	(g						
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	28	5.0 25.00	0	110	62.6	136							
Surr: BFB	1100	1000		113	84	116							
Sample ID MB-6147	SampType:	MBLK	Tes	tCode: EP	A Method	8015B: Gaso	line Rang	е					
Client ID: PBS	Batch ID:	6147	F	RunNo: 874	42								
Prep Date: 2/18/2013	Analysis Date:	2/19/2013	8	SeqNo: 25	0399	Units: %RE	С						
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: BFB	1100	1000		105	84	116							
Sample ID LCS-6147	SampType:	LCS	Tes	tCode: EP	A Method	8015B: Gaso	line Rang	е					
Client ID: LCSS	Batch ID:	6147	F	RunNo: 874	42								
	Analysis Date:	2/19/2013	8	SeqNo: 25	0400	Units: %RE	С						
Prep Date: 2/18/2013	A CONTRACTOR OF THE PROPERTY O					HighLimit	%RPD	RPDLimit	Qual				
W. Was Brown Street, S	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	THEFT	101 ti D						
Prep Date: 2/18/2013 Analyte Surr: BFB		SPK value	SPK Ref Val	%REC 113	LowLimit 84	116	70141 15	70 3X - TENHESON (0.3)					
Analyte	Result PC	1000		113	84								
Analyte Surr: BFB	Result PC	1000 MS	Tes	113	84 A Method	116							

SPK value SPK Ref Val

950.6

947.0

Qualifiers:

Analyte

Surr: BFB

Client ID:

Prep Date:

Analyte

Surr: BFB

Value exceeds Maximum Contaminant Level.

Result

1100

Result

1100

SampType: MSD

Batch ID: 6147

Analysis Date: 2/19/2013

E Value above quantitation range

Sample ID 1302530-001AMSD

BatchQC

2/18/2013

- 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

%REC

RunNo: 8742

SPK value SPK Ref Val %REC LowLimit

SeqNo: 250404

113

LowLimit

TestCode: EPA Method 8015B: Gasoline Range

HighLimit

116

Units: %REC

116

HighLimit

%RPD

%RPD

0

RPDLimit

RPDLimit

Qual

Qual

RPD outside accepted recovery limits

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302592

21-Feb-13

Blagg Engineering Client: Ulibarri GC 2 Project:

TestCode: EPA Method 8021B: Volatiles Sample ID MB-6147 SampType: MBLK RunNo: 8742 Client ID: PBS Batch ID: R8742 Prep Date: 2/18/2013 Analysis Date: 2/19/2013 SeqNo: 250467 Units: mg/Kg **RPDLimit** SPK value SPK Ref Val %REC LowLimit %RPD Analyte Result PQL HighLimit Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 1.000 107 80 120 Surr: 4-Bromofluorobenzene 1.1

Sample ID LCS-6147	SampType: LCS Batch ID: R8742 Analysis Date: 2/19/2013			Tes						
Client ID: LCSS				F	RunNo: 8742					
Prep Date: 2/18/2013				5	SeqNo: 2	50468	Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID MB-6147 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS RunNo: 8742 Client ID: Batch ID: 6147 Prep Date: 2/18/2013 Analysis Date: 2/19/2013 SeqNo: 250472 Units: %REC Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 1.1 1.000 107 120

Sample ID LCS-6147	SampType: LCS			Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	1D: 61	47	F	RunNo: 8	3742				
Prep Date: 2/18/2013	Analysis D	ate: 2	/19/2013	5	SeqNo: 2	250473	Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID 13	802529-001AMS	SampTyp	e: M	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: Ba	atchQC	Batch I	D: 61	147	F	RunNo: 8	8742				
Prep Date: 2	2/18/2013	Analysis Dat	e: 2	/19/2013	8	SeqNo: 2	250475	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromoflu	jorobenzene	1.0		0.9524		109	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- 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
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1302592 21-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 1302529-001AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 6147

RunNo: 8742

Prep Date: 2/18/2013

Analysis Date: 2/19/2013

SeqNo: 250476

Units: %REC

RPDLimit

Surr: 4-Bromofluorobenzene

Result 1.1

0.9960

SPK value SPK Ref Val %REC

111

HighLimit 120 %RPD

0

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

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

Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 7 of 7



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

Sample Log-In Check List

Client Name: BLAGG	Work Order Number: 1302592									
Received by/date: LM @//9//3										
Logged By: Michelle Garcia 2/19/2013 9:50:00	DAM Mikell Comin									
Completed By: Michelle Garcia 2/19/2013 10:08:4	42 AM Mirelle Consis									
Reviewed By: M 01913										
Chain of Custody										
1. Were seals intact?	Yes ☐ No ☐ Not Present ☑									
2. Is Chain of Custody complete?	Yes ✓ No ☐ Not Present ☐									
3. How was the sample delivered?	Courier									
Log In										
4. Coolers are present? (see 19. for cooler specific information) Yes ✓ No □ NA □										
5. Was an attempt made to cool the samples? Yes ☑ No □ NA □										
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes V No NA NA									
7. Sample(s) in proper container(s)?	Yes ☑ No □									
8. Sufficient sample volume for indicated test(s)?										
9. Are samples (except VOA and ONG) properly preserved?	Yes ☑ No □									
10. Was preservative added to bottles?	Yes No V NA									
44 VOA viala have zero headanase?	Yes ☐ No ☐ No VOA Vials ☑									
11. VOA vials have zero headspace?12. Were any sample containers received broken?	Yes No V									
13. Does paperwork match bottle labels?	Yes ✓ No ☐ # of preserved bottles checked									
(Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	for pH: Yes No (<2 or >12 unless noted)									
15. Is it clear what analyses were requested?	Yes V No Adjusted?									
16. Were all holding times able to be met?	Yes V No									
(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: Da	ate:									
By Whom: Vis	a:									
Regarding:										
Client Instructions:										
18. Additional remarks:										
19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date Signed By									
1 1.3 Good Yes	o Seal Date Signed By									

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302718

25-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6203

SampType: MBLK

PQL

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Sample ID 1302717-001AMS

Batch ID: 6203

RunNo: 8786

Prep Date: 2/21/2013

Analysis Date: 2/21/2013

Units: mg/Kg

SeqNo: 251595

HighLimit

Analyte

Client ID:

Result

SPK value SPK Ref Val %REC LowLimit

RPDLimit

Qual

Chloride

ND

SampType: MS

TestCode: EPA Method 300.0: Anions

BatchQC

Batch ID: 6203

RunNo: 8786

Prep Date: 2/21/2013

Analysis Date: 2/21/2013

240

SeqNo: 251598 %REC

Units: mg/Kg

%RPD

Analyte Chloride

Result

PQL SPK value SPK Ref Val

233.0

54.6 64.4

LowLimit

HighLimit 117 %RPD **RPDLimit** Qual S

Sample ID 1302717-001AMSD

SampType: MSD

30

30

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC

Prep Date: 2/21/2013

Batch ID: 6203 Analysis Date: 2/21/2013 RunNo: 8786

Units: mg/Kg

HighLimit

SeqNo: 251599

117

RPDLimit

Qual

Analyte Chloride

270

SPK value SPK Ref Val %REC 15.00

15.00

233.0

221

LowLimit 64.4 %RPD 9.86

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

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 Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302718

25-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6218 Client ID: PBS		ype: ME			tCode: El RunNo: 8		8015B: Dies	el Range (Organics	
Prep Date: 2/22/2013	Analysis D	ate: 2/	25/2013	5	SeqNo: 2	52344	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	8.7		10.00		87.4	72.4	120			
Sample ID LCS-6218	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 62	18	F	RunNo: 8	825				
Prep Date: 2/22/2013	Analysis D	ate: 2/	25/2013	5	SeqNo: 2	52345	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	47.4	122			
							120			

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.

WO#:

1302718 25-Feb-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID	MB-6202
-----------	---------

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

84

62.6

84

Client ID: PBS

Batch ID: 6202

PQL

5.0

RunNo: 8789

Prep Date: 2/21/2013

Analysis Date: 2/22/2013

SeqNo: 252146

SPK value SPK Ref Val %REC

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO)

Result ND 1000

1000

103

116

Surr: BFB

Sample ID LCS-6202

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS

Batch ID: 6202

RunNo: 8789

Prep Date: 2/21/2013

Analysis Date: 2/22/2013

SeqNo: 252147

0

0

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

29

1100

Surr: BFB

PQL

SPK value SPK Ref Val 25.00

%REC LowLimit 115 113

HighLimit 136

116

RPDLimit

Qual

S

Qual

S

Sample ID 1302718-001AMS

SampType: MS

SPK value SPK Ref Val

1000

24.06

962.5

933.7

TestCode: EPA Method 8015B: Gasoline Range

Client ID: 67' S33W@11'-13'

Batch ID: 6202

PQL

4.8

5.0

RunNo: 8789

Units: mg/Kg

%RPD

Analyte

Prep Date: 2/21/2013

Analysis Date: 2/22/2013 Result

28

SeqNo: 252149 %REC

HighLimit

130

116

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

1200

115

122

TestCode: EPA Method 8015B: Gasoline Range

Client ID: 67' \$33W@11'-13'

SampType: MSD

RunNo: 8789

116

Analyte

Prep Date: 2/21/2013

Sample ID 1302718-001AMSD

Batch ID: 6202 Analysis Date: 2/22/2013

SeqNo: 252150

Units: mg/Kg

RPDLimit

Gasoline Range Organics (GRO)

Result POL 29 4.7

1100

23.34

SPK value SPK Ref Val

0

%REC 124

119

LowLimit

70

84

LowLimit

70

84

HighLimit 130 %RPD 3.97

22.1 0

Surr: BFB

- Qualifiers:
- Value above quantitation range E
- Analyte detected below quantitation limits Sample pH greater than 2
- Value exceeds Maximum Contaminant Level.
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

Н

- Page 4 of 5
- RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302718

25-Feb-13

Client: Project: Blagg Engineering

Ulibarri GC 2

Sample ID MB-6202	SampType: MBLK			Tes	tCode: E	tiles				
Client ID: PBS	Batc	Batch ID: 6202			RunNo: 8	789				
Prep Date: 2/21/2013	Analysis [Date: 2/	22/2013	S	SeqNo: 2	52157	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		105	80	120			
Sample ID LCS-6202	Samp	Type: LC	s	Test	Code: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 62	02	R	tunNo: 8	789				
Prep Date: 2/21/2013	Analysis [Date: 2/	22/2013	S	egNo: 2	52158	Units: mg/K	'n		

Prep Date: 2/21/2013	Analysis Date: 2/22/2013			S	SeqNo: 2	52158	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.050	1.000	0	96.3	80	120				
Toluene	0.95	0.050	1.000	0	95.3	80	120				
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120				
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120				
0							2224B 14 1				=

Sample ID 1302719-001AMS	1302719-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: BatchQC	Batch	Batch ID: 6202			RunNo: 8	789				
Prep Date: 2/21/2013	Analysis D	ate: 2/	22/2013	\$	SeqNo: 2	52162	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9843	0	105	67.2	113			
Toluene	1.0	0.049	0.9843	0	105	62.1	116			
Ethylbenzene	1.0	0.049	0.9843	0	106	67.9	127			
Xylenes, Total	3.1	0.098	2.953	0	107	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9843		109	80	120			

Sample ID 1302719-001AM	SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: 62	02	F	RunNo: 8	789				
Prep Date: 2/21/2013	Analysis D	ate: 2/	22/2013	8	SeqNo: 2	52163	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.048	0.9662	0	92.3	67.2	113	14.5	14.3	R
Toluene	0.88	0.048	0.9662	0	90.6	62.1	116	16.7	15.9	R
Ethylbenzene	0.91	0.048	0.9662	0	94.1	67.9	127	14.2	14.4	
Xylenes, Total	2.8	0.097	2.899	0	95.4	60.6	134	13.0	12.6	R
Surr: 4-Bromofluorobenzene	1.0		0.9662		106	80	120	0	0	

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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

Page 5 of 5



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

Work Order Number: 1302718 BI AGG Client Name: Received by/date: Logged By: Michelle Garcia 2/21/2013 10:15:00 AM Completed By: Michelle Garcia 2/21/2013_10;31:11 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 Yes V No NA 🗍 4. Coolers are present? (see 19. for cooler specific information) Yes V No NA 🗌 5 Was an attempt made to cool the samples? NA 🗌 Yes V No 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) Yes No NA V 17. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.0 Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302919

04-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6291

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 6291

RunNo: 8926

Prep Date: 3/1/2013

Analysis Date: 3/1/2013

SampType: LCS

Analysis Date: 3/1/2013

1.5

SeqNo: 254932

Units: mg/Kg

Qual

Analyte Chloride

Result

PQL SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

HighLimit

%RPD **RPDLimit**

Client ID: LCSS Batch ID: 6291

15

ND

RunNo: 8926

Prep Date: 3/1/2013

Sample ID LCS-6291

SeqNo: 254933

99.1

Units: mg/Kg

Analyte Chloride

PQL

1.5

SPK value SPK Ref Val %REC 0

LowLimit an

HighLimit %RPD

110

RPDLimit

Qual

Sample ID 1302929-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC

Batch ID: 6291

RunNo: 8926

Units: mg/Kg

Prep Date:

3/1/2013 Analysis Date: 3/1/2013

SeqNo: 254949

Analyte Chloride

Result

PQL SPK value SPK Ref Val 15.00 6.050

15.00

%REC LowLimit HighLimit

RPDLimit

Qual

Qual

Sample ID 1302929-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 8926

LowLimit

Client ID: Prep Date:

BatchQC 3/1/2013

Batch ID: 6291 Analysis Date: 3/1/2013

SeqNo: 254950

Units: mg/Kg HighLimit

%RPD

%RPD

RPDLimit

Analyte Chloride

PQL

1.5

Result

20

15.00

SPK value SPK Ref Val %REC

6.050

90.7

64.4

0.349 117

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range F

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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1302919

04-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6278	SampT	vpe: MI	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	1100 00 000	ID: 62			RunNo: 8		0010212100	or runge .	o i gamoo	
Prep Date: 2/28/2013	Analysis D	ate: 2/	28/2013		SeqNo: 2		Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 11	10	10.00		106	72.4	120			
Sample ID LCS-6278	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 62	78	F	RunNo: 8	891				
Prep Date: 2/28/2013	Analysis D	ate: 2/	28/2013	S	SeqNo: 2	54153	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	47.4	122			
Surr: DNOP	5.6		5.000		112	72.4	120			
Sample ID 1302919-001AN	IS SampT	ype: MS	3	Tes	tCode: El	A Method	8015B: Dies	el Range C	Organics	
Client ID: 103'+115' S32W	1 @ 1 Batch	ID: 62	78	F	RunNo: 8	907				
Prep Date: 2/28/2013	Analysis D	ate: 3/	1/2013	8	SeqNo: 2	54671	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	10.89	92.0	12.6	148			
Surr: DNOP	6.3		5.000		127	72.4	120			S

Sample ID 1302919-001AM	SD Samp1	ype: MS	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: 103'+115' S32W	@ 1 Batcl	n ID: 62	78	F	RunNo: 8	907				
Prep Date: 2/28/2013	Analysis D)ate: 3/	1/2013	5	SeqNo: 2	54689	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	10.89	89.9	12.6	148	1.89	22.5	- 7
Surr: DNOP	6.2		5.000		125	72.4	120	0	0	S

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 6 of 8

Hall Environmental Analysis Laboratory, Inc.

Result

31

1100

PQL

4.6

SPK value SPK Ref Val

22.98

919.1

WO#:

1302919

04-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6284	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID: PBS	Batch	ID: 62	84	F	RunNo: 8	927				
Prep Date: 2/28/2013	Analysis D	ate: 3	/1/2013	5	SeqNo: 2	54976	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	1100		1000		108	84	116			
Sample ID LCS-6284	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	е	
Client ID: LCSS	Batch	ID: 62	84	F	RunNo: 8	927				
Prep Date: 2/28/2013	Analysis Da	ate: 3/	/1/2013	5	SeqNo: 2	54977	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	62.6	136			
Surr: BFB	1100		1000		113	84	116		المراجات	
Sample ID 1302917-002AMS	SampTy	ype: MS	S	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	е	
Client ID: BatchQC	Batch	ID: 62	84	F	RunNo: 8	927				
Prep Date: 2/28/2013	Analysis Da	ate: 3/	1/2013	5	SeqNo: 2	54980	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.6	23.15	0	129	70	130			
Surr: BFB	1100		925.9		119	84	116			S
Sample ID 1302917-002AMS	D SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
		ID: 00		-	Numbles 0	007				
Client ID: BatchQC	Batch	ID: 62	84	r	RunNo: 8	921				

Qualifiers:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

* 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

HighLimit

130

116

%RPD

4.21

0

RPDLimit

22.1

0

Qual

S

S

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

%REC

135

117

LowLimit

70

84

R RPD outside accepted recovery limits

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

Result

0.94

0.93

0.93

2.8

1.1

PQL

0.050

0.050

0.050

0.10

WO#:

1302919

04-Mar-13

Client:

Blagg Engineering

Project:

Analyte

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Ulibarri GC 2

Sample ID MB-6284 Client ID: PBS		Type: ME h ID: 62			tCode: El tunNo: 8		8021B: Vola	tiles		
Prep Date: 2/28/2013	Analysis [Date: 3/	1/2013	8	SeqNo: 2	55094	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	1.1		1.000		108	80	120			
Sample ID LCS-6284	Samp	Type: LC	s	Tes	Code: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 62	84	F	tunNo: 8	927				
Prep Date: 2/28/2013	Analysis [Date: 3/	1/2013	8	eqNo: 2	55100	Units: mg/K	g		

HighLimit

120

120

120

120

LowLimit

80

80

80

80

%RPD

RPDLimit

Qual

SPK value SPK Ref Val %REC

0

0

93.0

92.8

93.9

112

1.000

1.000

1.000

3.000

1.000

Q	ua	li	fi	eı	rs	;

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 8 of 8



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

Clie	ent Name:	BLAGG		, ,	W	ork Or	der N	Numl	ber:	1302919		
Red	ceived by/date:_	AH	0	2/28/1-	>							
Log	ged By:	Michelle Garc	ia	2/28/2013 9:5	9:00 AM				m	itulle Garcin		
Cor	mpleted By:	Michelle Garc	la	2/28/2013 10:	25:39 AM				m	itall Garcia		
Rev	viewed By:	70		02/85/20	13							
Che	ain of Custo	dy		, ,								
1.	Were seals int	act?				Yes		No		Not Present		
2.	Is Chain of Cu	stody complete	e?			Yes	V	No		Not Present		
3.	How was the s	ample delivere	ed?			Cour	ier					
Log	<u>ı In</u>											
4.	Coolers are pri	esent? (see 19). for cooler sp	ecific informatio	n)	Yes	V	No		NA 🗆		
5.	Was an attemp	ot made to coo	the samples	?		Yes	V	No		NA 🗆		
6.	Were all samp	les received at	t a temperature	e of >0° C to 6.0	0°C	Yes	V	No		NA 🗆		
7.	Sample(s) in p	roper containe	r(s)?			Yes	V	No				
8.	Sufficient samp	ole volume for	indicated test(s)?		Yes	V	No				
9.						Yes	V	No				
10.	Was preservat			•		Yes		No	V	NA 🗆		
11.	VOA vials have	zero headspa	ace?			Yes		No		No VOA Vials		
12.	Were any sam	ple containers	received broke	en?		Yes		No	V			
13.	Does paperwork (Note discrepa					Yes	V	No		# of preserv bottles chec for pH:		
14.	Are matrices of	orrectly identific	ed on Chain of	f Custody?		Yes	V	No			(<2 or >	12 unless noted)
15.	Is it clear what	analyses were	requested?				V			Adjus	ted?	
16.	Were all holdin (If no, notify cu					Yes	V	No		Check	ed by:	
Spe	cial Handlin									- Onook		
	Was client noti			this order?		Yes		No		NA 🗹		
	Person No By Whom Regarding Client Inst				Date:	eMai] Ph	one	☐ Fax ☐ In Per	rson	
	Additional rema											
10.	Cooler No	Temp ºC C	Condition Se	eal Intact Seal	No Se	al Dat	e		Signe	ed By		

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303189

08-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6369

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 6369

RunNo: 9043

Prep Date: 3/7/2013

Analysis Date: 3/7/2013 PQL

1.5

SeqNo: 257814

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

SampType: LCS

Result

ND

SPK value SPK Ref Val %REC LowLimit

0

TestCode: EPA Method 300.0: Anions

Sample ID LCS-6369

Client ID: LCSS

Batch ID: 6369

RunNo: 9043

Units: mg/Kg

%RPD

%RPD

Analyte Chloride

Prep Date: 3/7/2013

Analysis Date: 3/7/2013 PQL

15.00

SeqNo: 257815 SPK value SPK Ref Val %REC 97.5

LowLimit

90

HighLimit

RPDLimit

Qual

15 SampType: MS

16

Result

16

RunNo: 9043

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

110

Analyte

Client ID:

Prep Date:

BatchQC

Sample ID 1303187-001BMS

3/7/2013 Analysis Date: 3/7/2013

PQL

7.5

7.5

Batch ID: 6369

1.5

SPK value SPK Ref Val %REC 15.00 3.438

SPK value SPK Ref Val

15.00

SeqNo: 257817 LowLimit 86.3 64.4

HighLimit 117 %RPD **RPDLimit** Qual

Chloride

Client ID:

Sample ID 1303187-001BMSD

SampType: MSD Batch ID: 6369

TestCode: EPA Method 300.0: Anions

RunNo: 9043

87.0

Units: mg/Kg

Qual

RPDLimit

Analyte Chloride

Prep Date: 3/7/2013

BatchQC

Analysis Date: 3/7/2013

SeqNo: 257818

3.438

%REC

HighLimit 64.4

%RPD 117 0.675

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH greater than 2

Reporting Detection Limit RL

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303189 08-Mar-13

Client:

Blagg Engineering

Project:	Ulibarri (GC 2									
Sample ID	MB-6353	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 63	53	F	RunNo: 9	026				
Prep Date:	3/6/2013	Analysis D	ate: 3/	7/2013		SeqNo: 2	57536	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		10		10.00		103	72.4	120			
Sample ID	LCS-6353	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 63	53	F	RunNo: 9	026				
Prep Date:	3/6/2013	Analysis D	ate: 3/	7/2013	5	SeqNo: 2	57611	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	46	10	50.00	0	92.7	47.4	122			
Surr: DNOP		5.3		5.000		106	72.4	120			
Sample ID	1303187-001AMS	SampT	ype: MS	3	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	7 - 1
Client ID:	BatchQC	Batch	ID: 63	53	F	RunNo: 9	026				
Prep Date:	3/6/2013	Analysis D	ate: 3/	7/2013	5	SeqNo: 2	57721	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	47	9.7	48.45	0	97.0	12.6	148			
Surr: DNOP		5.1		4.845		106	72.4	120			
Sample ID	1303187-001AMSE	SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 63	53	F	RunNo: 9	026				
Prep Date:	3/6/2013	Analysis Da	ate: 3/	7/2013	5	SeqNo: 2	57723	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	50	10	50.97	0	97.8	12.6	148	5.91	22.5	
Surr: DNOP		5.5		5.097		107	72.4	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- 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
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1303189

08-Mar-13

Client:

Blagg Engineering

Project:	Ulibarri G	GC 2									
Sample ID		SampT						8015B: Gaso	oline Rang	je	
Client ID:	PBS	Batch	ID: 63	55	F	RunNo: 9	042				
Prep Date:	3/6/2013	Analysis D	ate: 3	7/2013	8	SeqNo: 2	58090	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 1100	5.0	1000		108	84	116			
Sample ID	LCS-6355	s	TestCode: EPA Method 8015B: Gasoline Range								
Client ID:	LCSS	Batch	ID: 63	55	F	RunNo: 9	042				
Prep Date:	3/6/2013	Analysis D	ate: 3	7/2013	5	SeqNo: 2	58091	Units: mg/h	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	28	5.0	25.00	0	110	62.6	136			
Surr: BFB		1200		1000		115	84	116			
Sample ID	1303189-001AMS	SampT	ype: Ms	3	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	je	
Client ID:	63' N74W @ 11'-13	Batch	ID: 63	55	F	RunNo: 9	042				
Prep Date:	3/6/2013	Analysis D	ate: 3	7/2013	8	SeqNo: 2	58112	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	29	4.8	23.85	0	119	70	130			
Surr: BFB		1100		954.2		115	84	116			
Sample ID	1303189-001AMSD	SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	le	
Client ID:	63' N74W @ 11'-13	Batch	ID: 63	55	F	RunNo: 9	042				
Prep Date:	3/6/2013	Analysis D	ate: 3/	7/2013	5	SeqNo: 2	58113	Units: mg/k	(g		
Analyte	1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	28	4.8	23.85	0	116	70	130	3.06	22.1	
Surr: BFB		1100		954.2		115	84	116	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2 P
- 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
- Spike Recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

Result

ND

WO#: 1303189 08-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6355

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 6355

PQL

0.050

RunNo: 9042

Prep Date: 3/6/2013 Analysis Date: 3/7/2013 SeqNo: 258139

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

80

TestCode: EPA Method 8021B: Volatiles

HighLimit

%RPD **RPDLimit**

RPDLimit

Qual

Qual

Benzene Toluene Ethylbenzene Xylenes, Total

Client ID:

Analyte

ND 0.050 0.050 ND ND 0.10 Surr: 4-Bromofluorobenzene

1.1

106

120

Sample ID LCS-6355

SampType: LCS Batch ID: 6355

RunNo: 9042

Prep Date:

3/6/2013

LCSS

Analysis Date: 3/7/2013

SeqNo: 258140

Units: mg/Kg

%RPD

SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit Benzene 0.94 0.050 1.000 80 120 0.93 0.050 1.000 0 93.1 80 120 Toluene 0 91.6 80 120 Ethylbenzene 0.92 0.050 1.000 3.000 0 92.5 80 120 Xylenes, Total 2.8 0.10 120 Surr: 4-Bromofluorobenzene 1.1 1.000 109 80

1.000

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2 P

Reporting Detection Limit

Analyte detected in the associated Method Blank B

H Holding times for preparation or analysis exceeded

Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Page 5 of 5



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

Work Order Number: 1303189 Client Name: BLAGG 03/04/13 Received by/date: Logged By: 3/6/2013 9:53:00 AM Michelle Garcia 3/6/2013 10:17:10 AM Completed By: Michelle Garcia 03/06/2013 Reviewed By: Chain of Custody Yes No Not Present V 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 V No NA 🗌 5 Was an attempt made to cool the samples? NA 🗌 Yes V No 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? NA 🗌 Yes No V 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? 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 Seal Intact | Seal No Cooler No Temp °C Condition Seal Date 1.0 Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303382

14-Mar-13

Client: Project: Blagg Engineering

Ulibarri GC 2

Sample ID MB-6415

SampType: MBLK

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID: PRS

Batch ID: 6415

RunNo: 9111

Prep Date: 3/11/2013

Analysis Date: 3/11/2013

ND

SeqNo: 259480

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte Chloride

Result PQL 1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

Sample ID LCS-6415

SampType: LCS

RunNo: 9111

LCSS Client ID: Prep Date:

3/11/2013

Batch ID: 6415 Analysis Date: 3/11/2013

SeqNo: 259481

Units: mg/Kg

Analyte

PQL

15

%REC LowLimit HighLimit

RPDLimit

Chloride

15

SPK value SPK Ref Val 15.00

97.2

110

%RPD

Qual

Sample ID 1303374-001BMS BatchQC

SampType: MS

Batch ID: 6415

30

TestCode: EPA Method 300.0: Anions

RunNo: 9111

Units: mg/Kg

%RPD

Analyte Chloride

Client ID:

Prep Date:

3/11/2013 Analysis Date: 3/11/2013

Result

ND

ND

Result

16

PQL

15.00

15.00

SegNo: 259483 SPK value SPK Ref Val %REC

6.318

LowLimit

HighLimit

117

RPDLimit

Qual

Sample ID 1303374-001BMSD

Client ID: BatchQC SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 9111

76.4

Prep Date: Analyte

3/11/2013

Batch ID: 6415 Analysis Date: 3/11/2013

SeqNo: 259484

64.4

64.4

Units: mg/Kg

HighLimit

RPDLimit Qual

Chloride

6.318

SPK value SPK Ref Val

808

%REC

117

%RPD 0

20

Sample ID 1303395-001AMS Client ID:

Prep Date:

BatchQC

3/11/2013

SampType: MS

Analysis Date: 3/11/2013

PQL

Batch ID: 6415

30

TestCode: EPA Method 300.0: Anions

RunNo: 9111 SeqNo: 259494

HighLimit

Analyte

16 7.5

%REC SPK value SPK Ref Val 3.320

SPK value SPK Ref Val %REC

R

3.320

LowLimit

Units: mg/Kg

RPDLimit

Qual

Qual

Chloride

3/11/2013

86.7

SeqNo: 259495

82.0

64.4 TestCode: EPA Method 300.0: Anions

117

Prep Date:

Sample ID 1303395-001AMSD Client ID: BatchQC

SampType: MSD Batch ID: 6415

Analysis Date: 3/11/2013

PQL

7.5

15.00

15.00

RunNo: 9111

64.4

LowLimit

Units: mg/Kg

HighLimit

%RPD

4.39

%RPD

20

RPDLimit

Analyte Chloride

P

Qualifiers: Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Page 3 of 8

Sample pH greater than 2 Reporting Detection Limit RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303382 14-Mar-13

Page 4 of 8

Client:

Blagg Engineering

Project:	Ulibarri (GC 2										
Sample ID	MB-6403	SampTy	pe: M	BLK	TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID:	PBS	Batch	D: 64	103	1	RunNo: 9086						
Prep Date:	3/8/2013	Analysis Da	te: 3	/11/2013	:	SeqNo: 2	58731	Units: mg/l	Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	ND	10	10.00		105	70.4	120				
Sull, DNOP		11		10.00		105	72.4	120				
Sample ID	LCS-6403	SampTy	pe: LC	CS	Tes	tCode: E	PA Method	8015B: Dies	el Range	Organics		
Client ID:	LCSS	Batch	D: 64	103	F	RunNo: 9	086					
Prep Date:	3/8/2013	Analysis Da	te: 3	/11/2013		SeqNo: 2	59007	Units: mg/l	Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
the same of the last	Organics (DRO)	50	10	50.00	0	100	47.4	122				
Surr: DNOP		5.6		5.000		112	72.4	120				
Sample ID	1303336-001AMS	SampTy	pe: M	s	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics		
Client ID:	BatchQC	Batch	D: 64	103	F	RunNo: 9	099					
Prep Date:	3/8/2013	Analysis Da	te: 3	/12/2013	\$	SeqNo: 2	59283	Units: mg/l	: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	52	9.7	48.73	0	107	12.6	148				
Surr: DNOP		5.0		4.873		102	72.4	120				
Sample ID	1303336-001AMSI	SampTy	pe: M	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics		
Client ID:	BatchQC	Batch I	D: 64	03	RunNo: 9099							
Prep Date:	3/8/2013	Analysis Da	te: 3	/12/2013	5	SeqNo: 2	59284	Units: mg/l	K g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
	Organics (DRO)	58	10		0	113	12.6	148	11.5	22.5		
Surr: DNOP		5.5		5.176		106	72.4	120	0	0		
Sample ID	MB-6400	SampTy	pe: MI	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics		
Client ID:	PBS	Batch I	D: 64	00	RunNo: 9099							
Prep Date:	3/8/2013	Analysis Da	te: 3	/12/2013	5	SeqNo: 2	59673	Units: %RE	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		10		10.00		102	72.4	120	73.0 All 5 miles and 7	E. C.		
Sample ID	LCS-6400	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics		
Client ID:	LCSS	Batch I	D: 64	00	F	RunNo: 9	099					
Prep Date:	3/8/2013	Analysis Da	te: 3	/12/2013	5	SeqNo: 2	59675	Units: %RE	C			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		5.1		5.000		101	72.4	120				

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303382

14-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 1303331-001AMS

SampType: MS

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: BatchQC

Batch ID: 6400

RunNo: 9099

Prep Date: 3/8/2013

Analysis Date: 3/12/2013

SeqNo: 259695

Units: %REC

PQL

Analyte

Result

108

120

5.6

SPK value SPK Ref Val %REC 5.198

HighLimit

Qual

Surr: DNOP

Sample ID 1303331-001AMSD

SampType: MSD

TestCode: EPA Method 8015B: Diesel Range Organics

%RPD

Client ID:

BatchQC

Batch ID: 6400

RunNo: 9099

Prep Date: 3/8/2013 Analysis Date: 3/12/2013

PQL

SeqNo: 259748

Units: %REC

HighLimit %RPD

RPDLimit Qual

Analyte

4.780

105

72.4

120

RPDLimit

0

Surr: DNOP

5.0

SPK value SPK Ref Val %REC

LowLimit

LowLimit

72.4

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

R

RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303382 14-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 5ml rb	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Bato	h ID: R9	062	RunNo: 9062							
Prep Date:	Analysis (Analysis Date: 3/8/2013			SeqNo: 258899			Units: mg/Kg			
Analyte	Result	PQL SPK value		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD RPDLimit		
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.1	70	130				
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		92.3	70	130				
Surr: Toluene-d8	0.47		0.5000		93.2	70	130				
Sample ID 100ng Ics	Samp	Type: LC	s	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batc	h ID: R9	062	F	RunNo: 9	062					
Prep Date:	Analysis [Date: 3/	8/2013	5	SeqNo: 2	58900	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	108	70	130				
Toluene	1.0	0.050	1.000	0	104	80	120				
Surr: 1.2-Dichloroethane-d4	0.45		0.5000		89.5	70	130				
Suit. 1,2-Dichloroculatio-04	Vapor Hartage N		0.5000		97.3	70	130				
Surr: 4-Bromofluorobenzene	0.49						100000000000000000000000000000000000000				
- Anna in the second contract of the second c	0.49 0.48		0.5000		95.9	70	130				

Sample ID 1303370-001a ms	SampTy	pe: MS	3	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: R9062 Analysis Date: 3/9/2013			F	RunNo: 9062							
Prep Date:				SeqNo: 258910			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.69	0.050	0.6741	0.003526	101	67.5	124					
Toluene	0.71	0.050	0.6741	0	106	55.8	142					
Surr: 1,2-Dichloroethane-d4	0.30		0.3370		89.0	70	130					
Surr: 4-Bromofluorobenzene	0.32		0.3370		93.7	70	130					
Surr: Dibromofluoromethane	0.31		0.3370		93.2	70	130					
Surr: Toluene-d8	0.33		0.3370		96.9	70	130					

Sample ID 1303370-001a m	sd Samp	Гуре: М	SD	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batc	h ID: R9	062	R	RunNo: 9	062					
Prep Date:	Analysis [Date: 3/	9/2013	S	SeqNo: 2	58911	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.72	0.050	0.6741	0.003526	107	67.5	124	5.09	20		
Toluene	0.71	0.050	0.6741	0	105	55.8	142	0.0834	20		
Surr: 1,2-Dichloroethane-d4	0.31		0.3370		92.7	70	130	0	0		

Qualifiers:

* 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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1303382

14-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID 1303370-001a msd SampType: MSD				TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch	Batch ID: R9062			RunNo: 9	062						
Prep Date:	Analysis D	ate: 3	/9/2013	S	SeqNo: 2	58911	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	0.31		0.3370		91.9	70	130	0	0			
Surr: Dibromofluoromethane	0.33		0.3370		98.4	70	130	0	0			
Surr: Toluene-d8	0.34		0.3370		99.5	70	130	0	0			

Qualifiers:

- * 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 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303382

14-Mar-13

Client: Project: Blagg Engineering

Prep Date:

Ulibarri GC 2

Sample ID	5ml rb
Client ID:	PBS

SampType: MBLK

TestCode: EPA Method 8015B Mod: Gasoline Range

%RPD

%RPD

%RPD

Batch ID: R9062

RunNo: 9062

102

%REC

Units: mg/Kg

Analyte

Analysis Date: 3/8/2013 Result PQL SPK value SPK Ref Val

5.0

SeqNo: 258886

HighLimit

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 510

500.0

130

Sample ID 2.5ug gro lcs

SampType: LCS Client ID: LCSS Batch ID: R9062 TestCode: EPA Method 8015B Mod: Gasoline Range RunNo: 9062

Prep Date:

Units: mg/Kg

Analysis Date: 3/8/2013

SeqNo: 258889

SPK value SPK Ref Val %REC Analyte Result PQL 25 5.0 Gasoline Range Organics (GRO) 25.00 0 460 500.0

LowLimit HighLimit 74.6 102 137 91.8 70 130

LowLimit

RPDLimit Qual

Surr: BFB

Sample ID 1303374-001a ms g

BatchQC

SampType: MS

TestCode: EPA Method 8015B Mod: Gasoline Range

Client ID: BatchQC

Batch ID: R9062

340

340

RunNo: 9062

130

Prep Date:

Analysis Date: 3/9/2013

SeqNo: 258897

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val Result PQL 5.0 18.76 18

%REC LowLimit 96.9

89.9

HighLimit 50.3 148 **RPDLimit** Qual

Surr: BFB

Sample ID 1303374-001a msd g SampType: MSD

TestCode: EPA Method 8015B Mod: Gasoline Range

RunNo: 9062

70

Client ID: Prep Date:

Analyte

Batch ID: R9062 Analysis Date: 3/9/2013

SeqNo: 258898

Units: mg/Kg

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO) Surr: BFB

Result PQL 18 5.0

18.76 375.2

375.2

SPK value SPK Ref Val %REC 95.8

0

LowLimit

90.8

50.3 70 HighLimit 148 130

1.12

0

20 0

Qualifiers:

RL

- Value above quantitation range E

Reporting Detection Limit

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

Analyte detected in the associated Method Blank

Page 8 of 8



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 Name: BLAGG Work Order Number: 1303382 Received by/date Logged By: 3/8/2013 10:00:00 AM Anne Thorne Completed By: Anne Thorne 3/8/2013 Reviewed By: Chain of Custody 1. Were seals intact? Yes No Not Present ✓ 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) NA 🗌 Yes V No 5. Was an attempt made to cool the samples? NA 🗌 Yes V No 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 13. Does paperwork match bottle labels? Yes V No 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? 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: 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 Signed By Good

Hall Environmental Analysis Laboratory, Inc.

Result

ND

14

WO#:

1303448

18-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6444

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 6444

RunNo: 9153

SPK value SPK Ref Val %REC LowLimit

Prep Date: 3/12/2013

Sample ID LCS-6444

Analysis Date: 3/12/2013

1.5

PQL

SeqNo: 260379

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 9153

Units: mg/Kg

Analyte

Client ID:

Prep Date: 3/12/2013

LCSS

Batch ID: 6444 Analysis Date: 3/12/2013

SeqNo: 260380

HighLimit

%RPD

15.00

94.2

Qual

Chloride

1.5

110

RPDLimit

PQL

SPK value SPK Ref Val %REC

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

R

RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 13

1303448

18-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

,										
Sample ID MB-6447	SampType: MBL	_K	Tes	8015B: Dies	el Range (Organics				
Client ID: PBS	Batch ID: 6447	7	F	RunNo: 91	140					
Prep Date: 3/12/2013	Analysis Date: 3/1:	3/2013	SeqNo: 260075			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		106	72.4	120				
Sample ID LCS-6447	SampType: LCS		8015B: Dies	el Range (Organics					
Client ID: LCSS	Batch ID: 6447	7	R	tunNo: 91	140					
Prep Date: 3/12/2013	Analysis Date: 3/1:	3/2013	S	eqNo: 26	50076	Units: mg/K	(g			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	47 10	50.00	0	93.5	47.4	122				
Surr: DNOP	5.3	5.000		106	72.4	120				

Qualifiers:

- * 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 3 of 5

Hall Environmental Analysis Laboratory, Inc.

PQL

0.050

0.050

Result

0.99

1.1

0.45

0.44

0.45

0.51

WO#:

1303448

18-Mar-13

Client:

Blagg Engineering

Project:

Analyte

Benzene

Toluene

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

Ulibarri GC 2

Sample ID mb-6404	Section and a section of the section is a section of the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the sect				TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R9157 Analysis Date: 3/13/2013			F	RunNo: 9	157							
Prep Date: 3/8/2013				5	SeqNo: 2	61103	Units: mg/F	(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	0.43		0.5000		86.1	70	130						
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.4	70	130						
Surr: Dibromofluoromethane	0.45		0.5000		90.4	70	130						
Surr: Toluene-d8	0.51		0.5000		101	70	130						
Sample ID Ics-6404	Samp	Type: LC	s	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	79			
Client ID: LCSS	Batc	h ID: R9	157	F	RunNo: 9	157							
Prep Date: 3/8/2013	Analysis D	Date: 3/	13/2013	S	SegNo: 2	61104	Units: mg/K	ξg					

0

%REC

98.6

106

90.2

87.6

91.0

102

LowLimit

70

80

70

70

70

70

HighLimit

130

120

130

130

130

130

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

1.000

1.000

0.5000

0.5000

0.5000

0.5000

Quali	fiers:
*	Value exceeds Maximum Contaminant Level

E Value above quantitation range

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 4 of 5

J Analyte detected below quantitation limits

P Sample pH greater than 2

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303448

18-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC 2

Sample ID MB-6404

SampType: MBLK

TestCode: EPA Method 8015B Mod: Gasoline Range

Client ID:

PBS

Batch ID: R9157

RunNo: 9157

Prep Date: 3/8/2013

Analyte

Analysis Date: 3/13/2013

ND

450

Result

SeqNo: 261076

Units: mg/Kg

RPDLimit

Qual

Gasoline Range Organics (GRO)

PQL 5.0

%REC SPK value SPK Ref Val

LowLimit HighLimit

70

%RPD

Sample ID Ics-6404 g

Surr: BFB

SampType: LCS

89.4

TestCode: EPA Method 8015B Mod: Gasoline Range

130

Client ID: LCSS

Batch ID: R9157

5.0

RunNo: 9157

Prep Date:

Analysis Date: 3/13/2013

SeqNo: 261077 %REC

0

Units: mg/Kg

%RPD

Qual

Analyte Gasoline Range Organics (GRO) Result PQL 26

450

SPK value SPK Ref Val 25.00

500.0

104

74.6 70

LowLimit

HighLimit 137

Surr: BFB

500.0

89.5

130

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH greater than 2 P

Reporting Detection Limit RL

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

Sample Log-In Check List

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

Received by/date: ### ### ############################	Yes Yes Yes Yes	ier	No No		Not Present Not Present NA NA
Completed By: Michelle Garcia 3/12/2013 10:14:07 AM Reviewed By: Chain of Custody 1. Were seals intact? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes Cour Yes Yes	ier	No No		Not Present ☑ Not Present □
Chain of Custody 1. Were seals intact? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes Cour Yes Yes	ier	No No		Not Present ☑ Not Present □
1. Were seals intact? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes Cour Yes Yes	ier	No No		Not Present NA
1. Were seals intact? 2. Is Chain of Custody complete? 3. How was the sample delivered? Log In 4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes Cour Yes Yes	ier	No No		Not Present NA
 Is Chain of Custody complete? How was the sample delivered? Log In Coolers are present? (see 19. for cooler specific information) Was an attempt made to cool the samples? Were all samples received at a temperature of >0° C to 6.0°C Sample(s) in proper container(s)? Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 	Yes Cour Yes Yes	ier	No No		Not Present NA
2. How was the sample delivered? Log In 4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes	ier	No		NA 🗆
4. Coolers are present? (see 19. for cooler specific information) 5. Was an attempt made to cool the samples? 6. Were all samples received at a temperature of >0° C to 6.0°C 7. Sample(s) in proper container(s)? 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes	✓			
 Coolers are present? (see 19. for cooler specific information) Was an attempt made to cool the samples? Were all samples received at a temperature of >0° C to 6.0°C Sample(s) in proper container(s)? Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 	Yes	✓			
 Was an attempt made to cool the samples? Were all samples received at a temperature of >0° C to 6.0°C Sample(s) in proper container(s)? Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 	Yes	✓			
 Were all samples received at a temperature of >0° C to 6.0°C Sample(s) in proper container(s)? Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 			No		NA 🗆
 Sample(s) in proper container(s)? Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 	Yes	V			
 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 			No		NA 🗆
 Sufficient sample volume for indicated test(s)? Are samples (except VOA and ONG) properly preserved? Was preservative added to bottles? VOA vials have zero headspace? Were any sample containers received broken? Does paperwork match bottle labels? (Note discrepancies on chain of custody) Are matrices correctly identified on Chain of Custody? 	Yes	V	No		
 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 	Yes	V	No		
 10. Was preservative added to bottles? 11. VOA vials have zero headspace? 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 	Yes	~	No		
 12. Were any sample containers received broken? 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody? 	Yes		No	V	NA 🗆
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)14. Are matrices correctly identified on Chain of Custody?	Yes		No		No VOA Vials ✓
(Note discrepancies on chain of custody) 14. Are matrices correctly identified on Chain of Custody?	Yes		No	V	
	Yes	V	No		# of preserved bottles checked for pH:
15. Is it clear what analyses were requested?	Yes	V	No		(<2 or >12 unless noted)
	Yes	V	No		Adjusted?
16. Were all holding times able to be met?	Yes	V	No		
(If no, notify customer for authorization.)					Checked by:
Special Handling (if applicable)				_	
17. Was client notified of all discrepancies with this order?	Yes	П	No		NA ☑
Person Notified: By Whom: Regarding: Client Instructions:] eMa		P	none	Fax In Person
18. Additional remarks:					
19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal No Seal Intact Seal No Seal No Seal Intact Seal No Seal N	eal Da	te		Signe	ed By
1 1.0 Good Yes					

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303582

19-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC #2

Sample ID: MB-6533

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 6533

PQL

1.5

RunNo: 9265

Prep Date: 3/18/2013

Analysis Date: 3/18/2013 Result

SeqNo: 264222

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

ND

1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Sample ID: LCS-6533

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 6533

RunNo: 9265

Units: mg/Kg

Prep Date: 3/18/2013

Analysis Date: 3/18/2013

SeqNo: 264223 %REC

HighLimit

%RPD

RPDLimit Qual

Analyte

PQL

15.00

SPK value SPK Ref Val

95.5

90

Chloride

14

110

Qualifiers:

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

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

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303582

19-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC #2

Sample ID: MB-6483

SampType: MBLK

TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS

Batch ID: 6483

RunNo: 9209

Prep Date: 3/14/2013

Analysis Date: 3/16/2013

Result

12

Units: %REC

SeqNo: 262137

Qual

Analyte Surr: DNOP

SPK value SPK Ref Val %REC PQL 10.00

117

SeqNo: 262138

106

HighLimit 120 **RPDLimit**

Sample ID: LCS-6483 Client ID: LCSS

Prep Date: 3/14/2013

SampType: LCS

Batch ID: 6483

Analysis Date: 3/16/2013

PQL

RunNo: 9209

72.4

LowLimit

LowLimit

Units: %REC

TestCode: EPA Method 8015B: Diesel Range Organics

SPK value SPK Ref Val %REC

72.4

120

5.000

HighLimit

%RPD

%RPD

Qual

Analyte Surr: DNOP

5.3

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit RL

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303582

19-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC #2

Sample ID: MB-6486

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

LowLimit

84

84

Client ID:

PBS

Batch ID: 6486

RunNo: 9235

Prep Date: 3/14/2013

Analysis Date: 3/16/2013

Result

900

SegNo: 262753

Units: %REC

Analyte

%REC

90.0

HighLimit

RPDLimit

Qual

Surr: BFB

Sample ID: LCS-6486

SampType: LCS

TestCode: EPA Method 8015B: Gasoline Range

%RPD

Client ID: LCSS

Batch ID: 6486

RunNo: 9235

116

Prep Date:

3/14/2013

Analysis Date: 3/16/2013

SeqNo: 262755

Units: %REC

Analyte

PQL SPK value SPK Ref Val

%REC

HighLimit

%RPD **RPDLimit**

1000

93.5

116

Qual

Surr: BFB

Sample ID: MB-6496

SampType: MBLK

TestCode: EPA Method 8015B: Gasoline Range

Client ID:

PBS

Batch ID: 6496

ND

940

5.0

RunNo: 9235

Units: mg/Kg

Analyte

Prep Date: 3/15/2013 Analysis Date: 3/17/2013 Result PQL

SPK value SPK Ref Val

SPK value SPK Ref Val

1000

1000

SPK value SPK Ref Val

SegNo: 262840 %REC LowLimit

91.7

HighLimit

%RPD **RPDLimit**

Qual

Gasoline Range Organics (GRO)

Surr: BFB

920

0

84

Sample ID: LCS-6496

Client ID: LCSS

SampType: LCS Batch ID: 6496

PQL

TestCode: EPA Method 8015B: Gasoline Range RunNo: 9235

116

Analyte

Prep Date: 3/15/2013

Analysis Date: 3/17/2013

SeqNo: 262848

62.6

84

Units: mg/Kg

116

Qual

Gasoline Range Organics (GRO) Surr: BFB

Result 28 950

5.0 25.00 1000

%REC

95.2

LowLimit 112

HighLimit

%RPD 136

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2 Reporting Detection Limit RL

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303582 19-Mar-13

Client:

Blagg Engineering

Project:

Ulibarri GC #2

Sample ID: N	IB-6486
--------------	---------

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

LowLimit

80

Client ID: PBS

Batch ID: 6486

RunNo: 9235

Prep Date: 3/14/2013 Analysis Date: 3/16/2013

SeqNo: 262878

98.1

Units: %REC

Analyte

Result 0.98 SPK value SPK Ref Val %REC

HighLimit

RPDLimit Qual

Surr: 4-Bromofluorobenzene

Sample ID: LCS-6486

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

120

%RPD

%RPD

%RPD

Client ID: LCSS

Batch ID: 6486

RunNo: 9235

Units: %REC

Prep Date: 3/14/2013 Analysis Date: 3/16/2013

PQL

SeqNo: 262879 %REC

Qual

Surr: 4-Bromofluorobenzene

Result 1.0

1.000

SPK value SPK Ref Val

1.000

102

HighLimit 120 %RPD **RPDLimit**

Sample ID: MB-6496

SampType: MBLK

RunNo: 9235

TestCode: EPA Method 8021B: Volatiles

Client ID: Prep Date:

PBS

3/15/2013

Batch ID: 6496

Analysis Date: 3/17/2013

SeqNo: 262892

Units: mg/Kg

Analyte

Result PQL ND 0.050

SPK value SPK Ref Val %REC

1.000

LowLimit

HighLimit

RPDLimit

Qual

Benzene Toluene

Ethylbenzene Xylenes, Total

Surr: 4-Bromofluorobenzene

LCSS

0.050 0.050 0.10

98.8

80

120

Sample ID: LCS-6496

Client ID:

SampType: LCS Batch ID: 6496

0.91

ND

ND

ND

0.99

0

TestCode: EPA Method 8021B: Volatiles

LowLimit

120

120

RunNo: 9235

Prep Date: Analysis Date: 3/17/2013 3/15/2013 Result PQL SPK value SPK Ref Val

SegNo: 262893

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Benzene Toluene Ethylbenzene Xylenes, Total

Surr: 4-Bromofluorobenzene

0.95 0.050 1.000 0.96 0.050 1.000 3.0 0.10 3.000 1.0

0.050

1.000

R

1.000

0 91.4 0 94.7 0 95.7

%REC

103

80 80 100 80

80

120 120 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- 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
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits

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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 /	Wo	rk Ord	der N	Numi	oer: '	1303582	
Received by/date: Mg AZIVIN		*					
Logged By: Lindsay Mangin 3/14/2013 10:00:	MA 00:				O.	hyt blugger hyt blugger	
Completed By: Lindsay Mangin 3/14/2013 4:04:1	17 PM				Sheet	4HH	
Reviewed By 63 14 13							
Chain of Custody							
1. Were seals intact?		Yes	V	No		Not Present	
2. Is Chain of Custody complete?		Yes	v	No		Not Present	
3. How was the sample delivered?		Cour	ier				
<u>Log In</u>							
4. Coolers are present? (see 19. for cooler specific information)		Yes	~	No	1	NA I	
5. Was an attempt made to cool the samples?		Yes	V	No	1 1	NA :	
6. Were all samples received at a temperature of >0° C to 6.0°C	С	Yes	~	No	1	NA :	
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			
10. Was preservative added to bottles?		Yes		No	~	NA	
11. VOA vials have zero headspace?		Yes	4	No	ž. R	No VOA Vials ✔	
12. Were any sample containers received broken?		Yes		No	~	ĭ	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No	1 .	# of preserved bottles checked for pH:	
14. Are matrices correctly identified on Chain of Custody?		Yes	V	No	1 1		>12 unless noted)
15. Is it clear what analyses were requested?		Yes	V	No	1	Adjusted?	
16. Were all holding times able to be met?		Yes	V	No	1 1		
(If no, notify customer for authorization.) Special Handling (if applicable)						Checked by:	
17. Was client notified of all discrepancies with this order?		Yes	1	No	: 1	NA 🗸	
Person Notified:	Date:	The state of the s			PLANAGAR	Michaelinia antiki (pi jing	į
	/ia:	eMa	il ,	P	none	Fax In Person	4
Regarding:		Maria de Maria		A STATE OF THE PARTY OF	HIMAHIA G		6
Client Instructions:			****	io delle co	number 1		
18. Additional remarks:							
19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal N	ual c	al D-	ło.	1 -	Cier	ad Bu	
done No Temp o Condition Seal Intact Seal N	10 26	eal Da	te.	-	oigne	ed By	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305026

16-May-13

Client:

Blagg Engineering

ULIBARRI GC # 1A/#2 Project:

Sample ID MB

SampType: MBLK

TestCode: EPA Method 200.7: Dissolved Metals

Client ID: PBW

Batch ID: R10516

PQL

RunNo: 10516

Prep Date:

Analysis Date: 5/9/2013

Result

SeqNo: 297227

Units: mg/L HighLimit

%RPD **RPDLimit**

Qual

Analyte Iron

0.020 ND

SampType: LCS

TestCode: EPA Method 200.7: Dissolved Metals

Sample ID LCS

SPK value SPK Ref Val %REC

RunNo: 10516

LowLimit

Client ID: LCSW Prep Date:

Batch ID: R10516

Analysis Date: 5/9/2013

PQL

SeqNo: 297228

Units: mg/L

HighLimit

RPDLimit

Analyte

%RPD

Qual

Iron

0.51 0.020 0.5000 102 115

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

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

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

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1305026

16-May-13

Client:		Blagg Eng		A /#2								
Project:		ULIBARI	CI GC # 1.	A/#2								
Sample ID	MB		SampT	ype: MI	BLK	Tes	tCode: E	PA Method	300.0: Anions	3		
Client ID:	PBW		Batch	ID: R1	0269	F	RunNo: 1	0269				
Prep Date:			Analysis D	ate: 5	/1/2013	5	SeqNo: 2	92821	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride Chloride			ND ND	0.10 0.50								
Sample ID	LCS-b		SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anions	3		
Client ID:	LCSW		Batch	ID: R1	0269	F	RunNo: 1	0269				
Prep Date:			Analysis D	ate: 5	/1/2013	5	SeqNo: 2	92823	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride			0.47	0.10	0.5000	0	94.7	90	110			
Chloride			4.6	0.50	5.000	0	92.5	90	110			
Sample ID	МВ		SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID:	PBW		Batch	ID: R1	0292	F	RunNo: 1	0292				
Prep Date:			Analysis D	ate: 5	/2/2013	5	SeqNo: 2	93414	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate			ND	0.50								
Nitrate+Nitrite	as N		ND	0.20								
Sample ID	LCS		SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anions			
Client ID:	LCSW		Batch	ID: R1	0292	F	RunNo: 1	0292				
Prep Date:			Analysis D	ate: 5	2/2013	5	SeqNo: 2	93415	Units: mg/L			
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate			9.5	0.50	10.00	0	95.1	90	110			
Nitrate+Nitrite	as N		3.4	0.20	3.500	0	96.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2 for VOA and TOC only.
- 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 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305026 16-May-13

Client:

Blagg Engineering

Project:

ULIBARRI GC # 1A/#2

Sample ID 5ML RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBW	Batcl	n ID: R1	0280	RunNo: 10280						
Prep Date:	Analysis Date: 5/2/2013			SeqNo: 293191			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	69.4	129			

Sample ID 100NG BTEX LC	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Volat	tiles			
Client ID: LCSW	Batc	h ID: R1	0280	F	RunNo: 1	0280					
Prep Date:	Analysis [Analysis Date: 5/2/2013			SeqNo: 293192			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	100	80	120				
Toluene	20	1.0	20.00	0	100	80	120				
Ethylbenzene	20	1.0	20.00	0	100	80	120				
Xylenes, Total	61	2.0	60.00	0	101	80	120				
Surr: 4-Bromofluorobenzene	21		20.00		105	69.4	129				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н 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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1305026

16-May-13

Client:

Blagg Engineering

Project:

ULIBARRI GC # 1A/#2

Sample ID MB-7282

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

PBW

Batch ID: 7282

RunNo: 10312

Prep Date: 5/3/2013

Analysis Date: 5/5/2013

SeqNo: 293852

Units: mg/L

RPDLimit

Qual

Analyte **Total Dissolved Solids** Result ND

Result

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Prep Date: 5/3/2013

Sample ID LCS-7282

SampType: LCS

20.0

RunNo: 10312

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

LCSW

Batch ID: 7282

Analysis Date: 5/5/2013

SPK value SPK Ref Val %REC

SeqNo: 293853

Units: mg/L

Qual

Analyte

1000

102

HighLimit

RPDLimit

PQL

%RPD

Total Dissolved Solids

LowLimit

1020 20.0 120

Qualifiers:

P

Value exceeds Maximum Contaminant Level.

Sample pH greater than 2 for VOA and TOC only.

- E Value above quantitation range
- Analyte detected below quantitation limits
- Reporting Detection Limit RL

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

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

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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 Name: BLAGG	Work Order Nymber:	1305026		RcptNo:	1
	05/01/12				*
Received by/date:	03/01/15		- 1 ill a		
Logged By: Lindsay/Mangin	5/1/2013 9:50:00 AM		James Halas		
Completed By: Lindsay Mangin	5/1/2013 1:12:37 PM		Junely Harry D		
Reviewed By:	5 0 2013				
Chain of Custody	1 1				
1. Custody seals intact on sample bottles?		Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗸	No 🗆	Not Present	
3. How was the sample delivered?		Courier		4	
Log In				9	
4. Was an attempt made to cool the samples?	×	Yes 🗸	No 🗆	NA 🗆	
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly	ly preserved?	Yes 🗸	No 🗆		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes 🗸	. No 🗆	No VOA Vials	
11. Were any sample containers received broke	en?	Yes	No 🗹	# of preserved	
				bottles checked	11
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No L	for pH:	or >12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes 🗸	No 🗆	Adjusted	10.
14. Is it clear what analyses were requested?		Yes 🗹	No 🗆		X
15. Were all holding times able to be met?		Yes 🗸	No 🗆	Checked by:	32
(If no, notify customer for authorization.)					9
Special Handling (if applicable)					
Special Handling (if applicable)		v	w 🖂	NA	
16. Was client notified of all discrepancies with t	his order?	Yes 🗆	No 🗔	NA 🗹	
, Person Notified:	Date:	and the second s		2226	
By Whom:	Via:	eMail [Phone Fax	☐ In Person	
Regarding:	and the second s	W0-11-11-11-11-11-11-11-11-11-11-11-11-11	MANAGE AND AND AND SERVICES	- The state of the	
Client Instructions:	and a superior of the contract of the superior	e a frage to at also to account a co	the second of the second secon	han in the state on the state of the	
17. Additional remarks:					
18. Cooler Information			wagana ayay iyo ay aa gaagay aa aa aa aa aa ah aa a		
Cooler No Temp °C Condition Se		Seal Date	Signed By		
[1 2.0 G000 Tes	'	******			