OIL CONS. DIV DIST. 3

AUG 11 2015

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Hutchin LS 1	Facility Type: Natural gas well

Surface Owner: Private	Mineral Owner: Private	API No. 3004510915

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
G	7	31N	10W	1,700	North	1,650	East	

Latitude 36.91541 **Longitude** -107.92021

NATURE OF RELEASE

Type of Release: oil/condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: June 25, 2012; 12:48 PM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Visual observations indicated soil immediately beneath the BGT was impacted. Soil sample taken at 13 feet below the BGT resulted in TPH of 14,000 ppm by Method 418.1 and 7,600 ppm by Method 8015B. Benzene was 0.38 ppm and total BTEX was 413.38 ppm by Method 8260B. A subsequent soil sample taken at 14 feet below the BGT resulted in TPH, BTEX and chloride below standards. Analysis results are attached.

Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. Sample results and visual observation indicated a release occurred. The area of impacts was excavated to a total depth of 24' below ground surface where confirmation samples were collected for laboratory analysis. Laboratory results determined the final extents of the excavation to below soil remediation standards. A total of approximately 500 cubic yards were excavated and transported IEI Landfarm for offsite disposal. The excavated area was backfilled and compacted and is still within the active well area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 8/12/15	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: August 6, 2015 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

#NSK 1516255751

BP AMERICA PRODUCTION COMPANY

HUTCHIN LS 001 – 95 BBL BGT (TANK ID: A) RELEASE CLEANUP

API #: 30-045-10915

Legal Description: (Unit Letter G, Sec. 7 -T31N -R10W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. **June 25, 2012**: BP begins closure of 95 barrel below-grade tank (**BGT**) at the site. Obvious and apparent soil impacts based on physical odor and distinct visible discoloration were observed directly adjacent to the BGT sidewalls. A grab sample was collected from a test hole advanced by an extendahoe at approximately thirteen (13) feet (**ft.**) below grade (**B.G.**) [**TH1 @ 13' (95 BGT)**]. A second test hole [**TH2 @ 14' (95 BGT)**] was advanced north of the first to investigate lateral extent of the impacts. Origin of release source was undetermined, but may have been a result of an overflow event(s) from the BGT or possible loss integrity of the BGT bottom.

2. **June 27, 2012**: Preliminary lab results indicated the following results for **TH1 @ 13' (95 BGT)**;

   Total Petroleum Hydrocarbons (**TPH**) using US EPA Method 418.1 = 14,000 mg/Kg
   TPH using US EPA Method 8015B = 7,600 mg/Kg
   Benzene using US EPA Method 8021B = 0.38 mg/Kg
   Total benzene, toluene, ethylbenzene, total xylenes (**BTEX**) using US EPA Method 8021B = 313.38 mg/Kg
   Chloride using US EPA Method 300.0 = Not detected (**ND**) at reporting limits of 30 mg/Kg

   Preliminary lab results indicated the following results for **TH2 @ 14' (95 BGT)**;

   TPH (8015B) = ND at reporting limits of less than 10 mg/Kg
   Benzene (8021B) = ND at reporting limits of 0.050 mg/Kg
   BTEX (8021B) = ND at reporting limits of less than 0.010 mg/Kg
   Chloride (300.0) = ND at reporting limits of 30 mg/Kg

3. **July 3, 2012**: An investigation at the southern perimeter of the previous BGT position was conducted. A total of three (3) test holes were advanced using a trackhoe to depths ranging from eighteen (18) to twenty four (24) ft. B.G. The first test hole advanced was south of the relative BGT position and labeled **GS @ 24' (95 BGT)**; the second - southwest: **TH(south) @ 18' (95 BGT)**, the third – southeast: **TH(north) @ 22' (95 BGT)**.

4. **July 6, 2012**: Preliminary lab results indicated ND for all TPH (8015B), benzene (8021B), total BTEX (8021B), and chloride (300.0) except for **GS @ 24' (95 BGT)** TPH (10 mg/Kg). Afterward, BP elected to initiate remediation via excavation starting at the BGT area.

5. **July 12, 2012**: Approximately 180 cubic yards of impacted soils were excavated (mainly beneath the BGT) and transported to BP's Crouch Mesa Facility. Excavation dimensions were approximately 33 ft. X 17 ft. X 24 ft. depth. Subsequent grab and composite samples were collected to confirm the excavation met the New Mexico Oil Conservation Division's (**NMOCD**) Spill & Release Guideline closure standards for the site. An NMOCD representative from the district III Aztec office was present during the sampling event.

6. **July 17, 2012**: Preliminary lab results were received. The following summary table contains results of all sampling conducted (June , July , & July).

BP AMERICA PRODUCTION COMPANY

HUTCHIN LS 001 – 95 BBL BGT (TANK ID: A) RELEASE CLEANUP

API #: 30-045-10915

Legal Description: (Unit Letter G, Sec. 7 -T31N -R10W, NMPM)

Lab Analysis Parameter	Sample ID's and Collection Dates									
	TH1 @ 13' (95 BGT) (grab) 6/25/2012	TH2 @ 14' (95 BGT) (grab) 6/25/2012	GS @ 24' (95 BGT) (grab) 7/3/2012	TH (south) @ 18' (95 BGT) (grab) 7/3/2012	TH (north) @ 22' (95 BGT) (grab) 7/3/2012	#5 (west) @ 22' (95 BGT) (grab) 7/12/2012	#1 (north) @ 17' (95 BGT) (grab) 7/12/2012	4PC-SW @ 17' (95 BGT) (4 pt. composite) 7/12/2012	#5 (west) @ 24' (95 BGT) (grab) 7/12/2012	5PC-EB @ 22' (95 BGT) (5 pt. composite) 7/12/2012
TPH (418.1)	14,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH (8015B)	7,600	ND (<10)	10	ND (<9.9)	ND (<9.9)	3,900	ND (<10)	ND (<9.9)	ND (<10)	1,320
Benzene (8021B)	0.38	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	0.55	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.50)
Total BTEX (8021B)	313.38	ND (<0.10)	ND (<0.10)	ND (<0.10)	ND (<0.10)	197.55	ND (<0.10)	ND (<0.10)	ND (<0.10)	15.1
Chloride (300.0)	ND (30)	ND (30)	ND (30)	ND (30)	ND (30)	NA	NA	NA	NA	NA
Comments	Excavated					Excavated				Excavated

Note: TPH - Total Petroleum Hydrocarbons
BTEX - Benzne, toluene, ethylbenzene, total xylenes
US EPA Method in bracket adjacent to Lab Analysis Parameter
NA - Not Analyzed (not requested by client and/or consultant).
ND - Not detected at Reporting Limit (# in bracket)
All lab analyses units in mg/Kg (milligram per kilogram)
NMOCD Spill & Release Guideline Closure Standards for the site: **TPH = 100 mg/Kg; benzene = 10 mg/Kg; total BTEX = 50 mg/Kg**

CLIENT: BP

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

API #: 3004510915
TANK ID (if applicble): A

FIELD REPORT:

(circle one): BGT CONFIRMATION / [RELEASE INVESTIGATION] / OTHER:

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: HUTCHIN LS #1

QUAD/UNIT: G SEC: 7 TWP: 31N RNG: 10W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1700'N / 1650'E SW/NE LEASE TYPE: FEDERAL / STATE / [FEE] / INDIAN

LEASE #: - PROD. FORMATION: MV CONTRACTOR: ELKHORN MBF - C. ZELLITTI

DATE STARTED: 07/03/12

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.91565 X 107.92039 GL ELEV.: 5828'

		GPS COORD.:	DISTANCE/BEARING FROM W.H.:
1)	95 BBL BGT (DW/DB)	36.91541 X 107.92021	106', S28E
2)	GS	36.915410 X 107.920215	112', S23.5E
3)	TH (SOUTH) @ 18' (95 BGT)	36.915433 X 107.920268	98', S17E
4)	TH (NORTH) @ 22' (95 BGT)	36.915411 X 107.920153	119.5', S31.5E

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	OVM READING (ppm)
1)	GS @ 24' (95 BGT)	07/03/12	1457	8015, 8021, 300.00 (Chlor.)	90
2)	TH (SOUTH) @ 18' (95 BGT)	07/03/12	1509	8015, 8021, 300.00 (Chlor.)	23.3
3)	TH (NORTH) @ 22' (95 BGT)	07/03/12	1517	8015, 8021, 300.00 (Chlor.)	0.0
4)					

SOIL DESCRIPTION:

SOIL TYPE: SAND / [SILTY SAND] / SILT / [SILTY CLAY] / CLAY / GRAVEL / OTHER

SOIL COLOR: PALE YELLOWISH ORANGE / MED. GRAY TO BLACK

COHESION (ALL OTHERS): [NON COHESIVE] / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): NON PLASTIC / [SLIGHTLY PLASTIC] / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): LOOSE / [FIRM] / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / [FIRM] / STIFF / VERY STIFF / HARD

MOISTURE: DRY / [SLIGHTLY MOIST] / MOIST / WET / SATURATED / SUPER SATURATED

HC ODOR DETECTED: YES / NO EXPLANATION - DISCOLORED SOILS ONLY.

SAMPLE TYPE: [GRAB] / COMPOSITE - # OF PTS. NA

DISCOLORATION/STAINING OBSERVED: [YES] / NO EXPLANATION - MEDIUM GRAY TO BLACK FROM 10' TO 24' WITHIN (GS) TEST HOLE (MED. DK. GRAY).

ANY AREAS DISPLAYING WETNESS: YES / [NO] EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : [YES] / NO EXPLANATION : OVERFLOW & POSSIBLY LOST INTEGRITY BENEATH BGT.

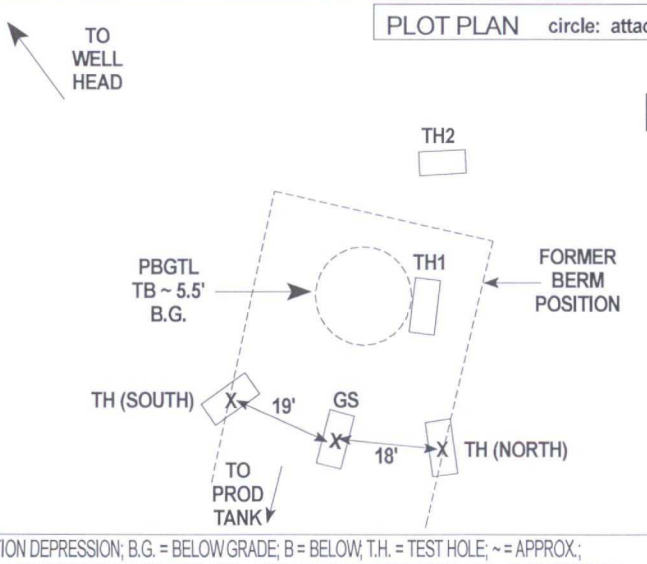
ADDITIONAL COMMENTS: UTILIZED GOOGLE EARTH FOR GPS COORDINATES ALONG WITH DISTANCE & BEARING MESUREMENTS.

EXCAVATION DIMENSIONS (if applicable): 34 ft. X 30 ft. X 24 ft. cubic yards excavated (if applicable): 1,000

DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 PPM

SITE SKETCH

PLOT PLAN circle: attached



X - S.P.D.

OVM CALIB. READ. = 51.9 ppm RF = 0.52

OVM CALIB. GAS = 100 ppm

TIME: 11:14 (am)/pm DATE: 07/03/12

MISCELL. NOTES

WO: N1570814

PO #: 80250

PK: ZSCHWLLBGT

PJ #: Z2-00690-C

OCD Appr. date(s): 05/16/12

Tank ID		
	Permit date(s):	06/14/10
A	BGT Sidewalls Visible:	Y / (N)
	BGT Sidewalls Visible:	Y / N
	BGT Sidewalls Visible:	Y / N

Magnetic declination: 10° E

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

TRAVEL NOTES: CALLOUT: ONSITE: 06/25/12, 07/03/12

Analytical Report
Lab Order **1207164**
Date Reported: **7/11/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207164-001

Client Sample ID: GS @ 24' (95 BGT)
Collection Date: 7/3/2012 2:57:00 PM
Matrix: MEOH (SOIL) **Received Date:** 7/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2012 7:53:12 AM
Surr: DNOP	113	77.6-140		%REC	1	7/9/2012 7:53:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	30		mg/Kg	20	7/7/2012 12:58:13 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	7/6/2012 12:12:57 PM
Toluene	ND	0.050		mg/Kg	1	7/6/2012 12:12:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2012 12:12:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2012 12:12:57 PM
Surr: 1,2-Dichloroethane-d4	85.2	70-130		%REC	1	7/6/2012 12:12:57 PM
Surr: 4-Bromofluorobenzene	90.5	70-130		%REC	1	7/6/2012 12:12:57 PM
Surr: Dibromofluoromethane	83.4	71.7-132		%REC	1	7/6/2012 12:12:57 PM
Surr: Toluene-d8	87.8	70-130		%REC	1	7/6/2012 12:12:57 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	10	5.0		mg/Kg	1	7/6/2012 12:12:57 PM
Surr: BFB	90.5	70-130		%REC	1	7/6/2012 12:12:57 PM

Note: Entire remediation excavation extended to this 24' depth.

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207164-002 **Matrix:** MEOH (SOIL)

Client Sample ID: TH (South) @ 18' (95 BGT)
Collection Date: 7/3/2012 3:09:00 PM
Received Date: 7/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2012 8:14:53 AM
Surr: DNOP	112	77.6-140		%REC	1	7/9/2012 8:14:53 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	30		mg/Kg	20	7/7/2012 1:35:26 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	7/6/2012 12:40:39 PM
Toluene	ND	0.050		mg/Kg	1	7/6/2012 12:40:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2012 12:40:39 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2012 12:40:39 PM
Surr: 1,2-Dichloroethane-d4	81.7	70-130		%REC	1	7/6/2012 12:40:39 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%REC	1	7/6/2012 12:40:39 PM
Surr: Dibromofluoromethane	79.9	71.7-132		%REC	1	7/6/2012 12:40:39 PM
Surr: Toluene-d8	89.3	70-130		%REC	1	7/6/2012 12:40:39 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2012 12:40:39 PM
Surr: BFB	91.4	70-130		%REC	1	7/6/2012 12:40:39 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207164-003 **Matrix:** MEOH (SOIL)

Client Sample ID: TH (North) @ 22' (95 BGT)
Collection Date: 7/3/2012 3:17:00 PM
Received Date: 7/6/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/9/2012 8:36:38 AM
Surr: DNOP	110	77.6-140		%REC	1	7/9/2012 8:36:38 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	30		mg/Kg	20	7/7/2012 1:47:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**
Benzene	ND	0.050		mg/Kg	1	7/6/2012 1:08:18 PM
Toluene	ND	0.050		mg/Kg	1	7/6/2012 1:08:18 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2012 1:08:18 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2012 1:08:18 PM
Surr: 1,2-Dichloroethane-d4	79.2	70-130		%REC	1	7/6/2012 1:08:18 PM
Surr: 4-Bromofluorobenzene	89.1	70-130		%REC	1	7/6/2012 1:08:18 PM
Surr: Dibromofluoromethane	78.5	71.7-132		%REC	1	7/6/2012 1:08:18 PM
Surr: Toluene-d8	90.1	70-130		%REC	1	7/6/2012 1:08:18 PM
EPA METHOD 8015B MOD: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2012 1:08:18 PM
Surr: BFB	89.1	70-130		%REC	1	7/6/2012 1:08:18 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207164**

11-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID	**mb-2720**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**2720**	RunNo:	**3909**					
Prep Date:	**7/6/2012**	Analysis Date:	**7/6/2012**	SeqNo:	**111156**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**lcs-2720**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**2720**	RunNo:	**3909**					
Prep Date:	**7/6/2012**	Analysis Date:	**7/6/2012**	SeqNo:	**111157**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID	**1207112-001ams**	SampType:	**MS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID:	**2720**	RunNo:	**3931**					
Prep Date:	**7/6/2012**	Analysis Date:	**7/7/2012**	SeqNo:	**112075**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	15	15.00	5.966	79.9	64.4	117			

Sample ID	**1207112-001amsd**	SampType:	**MSD**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID:	**2720**	RunNo:	**3931**					
Prep Date:	**7/6/2012**	Analysis Date:	**7/7/2012**	SeqNo:	**112076**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	15	15.00	5.966	80.7	64.4	117	0.671	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207164**

11-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **MB-2731**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2731**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/9/2012**	SeqNo: **111052** 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		107	77.6	140			

Sample ID **LCS-2731**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2731**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/9/2012**	SeqNo: **111053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	72.1	52.6	130			
Surr: DNOP	4.6		5.000		92.3	77.6	140			

Sample ID **MB-2732**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2732**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/9/2012**	SeqNo: **111542** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	77.6	140			

Sample ID **LCS-2732**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2732**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/9/2012**	SeqNo: **111543** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	77.6	140			

Sample ID **1207211-009BMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **2732**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/9/2012**	SeqNo: **111546** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.941		78.0	77.6	140			

Sample ID **1207211-009BMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **2732**	RunNo: **3905**
Prep Date: **7/8/2012**	Analysis Date: **7/10/2012**	SeqNo: **111548** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.965		79.1	77.6	140	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207164**

11-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID	**MB-2755**	SampType:	**MBLK**	TestCode:	**EPA Method 8015B: Diesel Range Organics**					
Client ID:	**PBS**	Batch ID:	**2755**	RunNo:	**3905**					
Prep Date:	**7/10/2012**	Analysis Date:	**7/10/2012**	SeqNo:	**112276**	Units:	**%REC**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	77.6	140			

Sample ID	**LCS-2755**	SampType:	**LCS**	TestCode:	**EPA Method 8015B: Diesel Range Organics**					
Client ID:	**LCSS**	Batch ID:	**2755**	RunNo:	**3905**					
Prep Date:	**7/10/2012**	Analysis Date:	**7/10/2012**	SeqNo:	**112346**	Units:	**%REC**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.6	77.6	140			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207164**

11-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **mb-2709** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111085** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.4	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.2	70	130			
Surr: Dibromofluoromethane	0.39		0.5000		78.9	71.7	132			
Surr: Toluene-d8	0.43		0.5000		85.4	70	130			

Sample ID **lcs-2709** SampType: **LCS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **LCSS** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111086** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		81.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		91.0	70	130			
Surr: Dibromofluoromethane	0.39		0.5000		78.0	71.7	132			
Surr: Toluene-d8	0.42		0.5000		84.1	70	130			

Sample ID **1206c65-001ams** SampType: **MS** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111087** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	4.5		5.631		79.9	70	130			
Surr: 4-Bromofluorobenzene	5.6		5.631		99.3	70	130			
Surr: Dibromofluoromethane	4.5		5.631		79.7	71.7	132			
Surr: Toluene-d8	4.9		5.631		86.4	70	130			

Sample ID **1206c65-001amsd** SampType: **MSD** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111088** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	4.4		5.583		79.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	5.3		5.583		95.4	70	130	0	0	
Surr: Dibromofluoromethane	4.3		5.583		76.2	71.7	132	0	0	
Surr: Toluene-d8	4.9		5.583		87.1	70	130	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207164**

11-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **mb-2709** SampType: **MBLK** TestCode: **EPA Method 8015B Mod: Gasoline Range**
Client ID: **PBS** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111055** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	440		500.0		88.2	70	130			

Sample ID **LCS-2709** SampType: **LCS** TestCode: **EPA Method 8015B Mod: Gasoline Range**
Client ID: **LCSS** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111057** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	85	115			S
Surr: BFB	440		500.0		87.0	70	130			

Sample ID **1206C65-002AMS** SampType: **MS** TestCode: **EPA Method 8015B Mod: Gasoline Range**
Client ID: **BatchQC** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111058** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	89	5.7	28.32	65.56	82.6	70	130			
Surr: BFB	510		566.4		89.7	70	130			

Sample ID **1206C65-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015B Mod: Gasoline Range**
Client ID: **BatchQC** Batch ID: **2709** RunNo: **3881**
Prep Date: **7/5/2012** Analysis Date: **7/6/2012** SeqNo: **111059** Units: **mg/Kg-dry**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	130	5.6	27.99	65.56	217	70	130	34.7	20	SR
Surr: BFB	680		559.9		121	70	130	0	0	

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1207164

Received by/date: MG 07/06/12

Logged By: **Lindsay Mangin** 7/6/2012 9:45:00 AM

Completed By: **Lindsay Mangin** 7/6/2012 9:59:18 AM

Reviewed By: MG 07/06/12

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)? 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 ☐ 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 ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

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: ☐ 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
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush COMPLETE BY 07/06/2012

Project Name: HUTCHIN LS # 1

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1207164	BTEX + ~~MTBE + TMB's~~ (8021B)	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 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	
7/3/12	1457	SOIL	GS @ 24' (95 BGT)	4 oz. - 1	Cool	-001	✓		✓									✓		✓		
7/3/12	1509	SOIL	TH (south) @ 18' (95 BGT)	4 oz. - 1	Cool	-002	✓		✓									✓		✓		
7/3/12	1517	SOIL	TH (north) @ 22' (95 BGT)	4 oz. - 1	Cool	-003	✓		✓									✓		✓		

Date	Time	Relinquished by:	Received by:	Date	Time
7/5/12	1430	[signature]	[signature]	7/5/12	1430
7/5/12	1727	[signature]	[signature]	07/06/12	0945

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N1570814 Paykey: ZSCHWLLBGT

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility.

CLIENT: BP

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

API #: 3004510915
TANK ID (if applicble): A

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: CLEAN UP VIA EXCAVATION

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: HUTCHIN LS #1

QUAD/UNIT: G SEC: 7 TWP: 31N RNG: 10W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1700'N / 1650'E SW/NE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: - PROD. FORMATION: MV CONTRACTOR: ELKHORN MBF - C. ZELLITTI

DATE STARTED: 07/12/12

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.91565 X 107.92039 GL ELEV.: 5,828'

1) 95 BBL BGT (DW/DB)	GPS COORD.: 36.91541 X 107.92021	DISTANCE/BEARING FROM W.H.: 106', S28E
2)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	5 (WEST) @ 22' (95 BGT)	07/12/12	1109	8015B / 8021B	5,210
2)	5 (WEST) @ 24' (95 BGT)	07/12/12	1245	8015B / 8021B	0.0
3)	1 (NORTH) @ 17' (95 BGT)	07/12/12	1124	8015B / 8021B	0.0
4)	4PC-SW @ 17' (95 BGT)	07/12/12	1235	8015B / 8021B	NA

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: PALE YELLOWISH ORANGE / MED. GRAY TO BLACK

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

HC ODOR DETECTED: YES / NO EXPLANATION - WITHIN VARYING SHADES OF GRAY (olive to dark medium)

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. NA

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - OLIVE TO DARK MEDIUM GRAY TO 24 FT., BLACK @ 24' - no hydrocarbon odor.

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : YES / NO EXPLANATION : OVERFLOW & POSSIBLY LOST INTEGRITY BENEATH BGT.

ADDITIONAL COMMENTS: ADDITIONAL LAB SAMPLE COLLECTED AS COMPOSITE FROM EXCAVATION BOTTOM @ 22 FT. [SAMPLE ID: 5PC-EB @ 22' (95 BGT]. ADVISED CREW TO EXCAVATE BOTTOM TO BLACK SOIL @ 24 FT. BELOW GRADE WITHIN EXCAVATION PERIMETER.

EXCAVATION DIMENSIONS (if applicable): 33 ft. X 17 ft. X 24 ft. cubic yards excavated (if applicable): 500

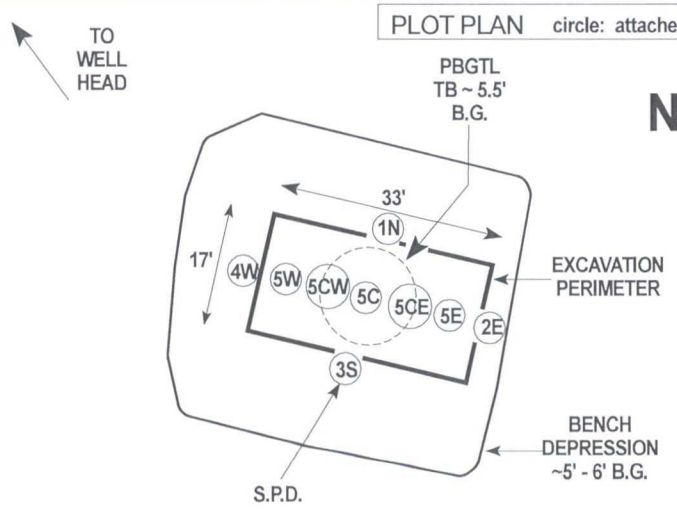
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 PPM

SITE SKETCH

SAMP. ID	OVM (ppm)	TIME
5W @ 22'	5,210	1109
5CW @ 22'	2,106	1110
5C @ 22'	2,317	1113
5CE @ 22'	2,459	1115
5E @ 22'	2,051	1117
1N @ 17'	73.4	1124
2E @ 17'	0.0	1127
3S @ 17'	0.0	1138
4W @ 17'	0.0	1130
5W @ 24'	0.0	1245

RECALIBRATED OVM @ TIME 1149
READING = 52.8 ppm (parts per million).
OVM = Organic Vapor Meter.

PLOT PLAN circle: attached



OVM CALIB. READ. = 53.1 ppm RF = 0.52
OVM CALIB. GAS = 100 ppm
TIME: 11:36 (am)/pm DATE: 07/12/12

MISCELL. NOTES

WO: N1570814
PO #: 80250
PK: ZSCHWLLBGT
PJ #: Z2-00690-C
OCD Appr. date(s): 05/16/12

Tank ID		
	Permit date(s):	06/14/10
A	BGT Sidewalls Visible: Y / (N)	
	BGT Sidewalls Visible: Y / N	
	BGT Sidewalls Visible: Y / N	

Magnetic declination: 10° E

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

TRAVEL NOTES: CALLOUT: ONSITE: 06/25/12, 07/03/12, 07/12/12

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207544-002

Client Sample ID: #1 (North) @17' (95BGT)
Collection Date: 7/12/2012 11:24:00 AM
Matrix: MEOH (SOIL) **Received Date:** 7/13/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/15/2012 4:30:31 PM
Surr: DNOP	107	77.6-140		%REC	1	7/15/2012 4:30:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2012 5:27:01 PM
Surr: BFB	101	69.7-121		%REC	1	7/13/2012 5:27:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	7/13/2012 5:27:01 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2012 5:27:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2012 5:27:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2012 5:27:01 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	7/13/2012 5:27:01 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207544-003

Client Sample ID: 4PC-SW@17' (95 BGT)
Collection Date: 7/12/2012 12:35:00 PM
Matrix: MEOH (SOIL) **Received Date:** 7/13/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/15/2012 4:52:49 PM
Surr: DNOP	107	77.6-140		%REC	1	7/15/2012 4:52:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2012 10:43:34 PM
Surr: BFB	97.6	69.7-121		%REC	1	7/13/2012 10:43:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	7/13/2012 10:43:34 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2012 10:43:34 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2012 10:43:34 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2012 10:43:34 PM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	7/13/2012 10:43:34 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: HUTCHIN LS #1
Lab ID: 1207544-004

Client Sample ID: #5 (West) @ 24' (95 BGT)
Collection Date: 7/12/2012 12:45:00 PM
Matrix: MEOH (SOIL) **Received Date:** 7/13/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/15/2012 5:15:00 PM
Surr: DNOP	109	77.6-140		%REC	1	7/15/2012 5:15:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/13/2012 11:12:22 PM
Surr: BFB	99.3	69.7-121		%REC	1	7/13/2012 11:12:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	7/13/2012 11:12:22 PM
Toluene	ND	0.050		mg/Kg	1	7/13/2012 11:12:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/13/2012 11:12:22 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/13/2012 11:12:22 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	7/13/2012 11:12:22 PM

Note: Entire remediation excavation extended to this 24' depth.

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207544**

17-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **MB-2809** SampType: **MBLK** TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS** Batch ID: **2809** RunNo: **4013**
Prep Date: **7/12/2012** Analysis Date: **7/13/2012** SeqNo: **114850** 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		113	77.6	140			

Sample ID **LCS-2809** SampType: **LCS** TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **2809** RunNo: **4013**
Prep Date: **7/12/2012** Analysis Date: **7/13/2012** SeqNo: **114851** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	76.7	52.6	130			
Surr: DNOP	4.9		5.000		98.1	77.6	140			

Sample ID **1207457-001AMS** SampType: **MS** TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC** Batch ID: **2809** RunNo: **4013**
Prep Date: **7/12/2012** Analysis Date: **7/13/2012** SeqNo: **114853** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	10	50.51	0	60.6	57.2	146			
Surr: DNOP	4.3		5.051		85.1	77.6	140			

Sample ID **1207457-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC** Batch ID: **2809** RunNo: **4013**
Prep Date: **7/12/2012** Analysis Date: **7/13/2012** SeqNo: **114854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	10	50.61	0	61.6	57.2	146	1.77	24.5	
Surr: DNOP	4.3		5.061		85.4	77.6	140	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207544**

17-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **5ML RB** SampType: **MBLK** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115422** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.3	69.7	121			

Sample ID **2.5UG GRO LCS** SampType: **LCS** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115423** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.4	98.5	133			S
Surr: BFB	1100		1000		105	69.7	121			

Sample ID **1207544-002AMS** SampType: **MS** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **#1 (North) @17' (95** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115442** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.45	0	93.0	85.4	147			
Surr: BFB	1000		977.9		104	69.7	121			

Sample ID **1207544-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **#1 (North) @17' (95** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115443** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.45	0	92.2	85.4	147	0.950	19.2	
Surr: BFB	1000		977.9		104	69.7	121	0	0	

Sample ID **lcs-2752 7** SampType: **LCS** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **116144** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.1	98.5	133			S
Surr: BFB	1000		1000		103	69.7	121			

Sample ID **MB-2798** SampType: **MBLK** TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS** Batch ID: **2798** RunNo: **4070**
Prep Date: **7/12/2012** Analysis Date: **7/16/2012** SeqNo: **116535** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		99.0	69.7	121			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207544**

17-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID	**LCS-2798**	SampType: **LCS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**LCSS**	Batch ID: **2798**			RunNo: **4070**					
Prep Date:	**7/12/2012**	Analysis Date: **7/16/2012**			SeqNo: **116536**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	69.7	121			

Sample ID	**1207451-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**BatchQC**	Batch ID: **2798**			RunNo: **4070**					
Prep Date:	**7/12/2012**	Analysis Date: **7/16/2012**			SeqNo: **116538**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		939.0		105	69.7	121			

Sample ID	**1207451-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015B: Gasoline Range**					
Client ID:	**BatchQC**	Batch ID: **2798**			RunNo: **4070**					
Prep Date:	**7/12/2012**	Analysis Date: **7/16/2012**			SeqNo: **116539**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		961.5		104	69.7	121	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207544**

17-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID **5ML RB** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115460** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID **100NG BTEX LCS** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115461** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.3	117			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	77	116			
Xylenes, Total	3.1	0.10	3.000	0	104	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID **1207543-001AMS** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115463** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.050	0.7299	0	103	67.2	113			
Toluene	0.76	0.050	0.7299	0	104	62.1	116			
Ethylbenzene	0.77	0.050	0.7299	0	106	67.9	127			
Xylenes, Total	2.3	0.10	2.190	0	106	60.6	134			
Surr: 4-Bromofluorobenzene	0.82		0.7299		112	80	120			

Sample ID **1207543-001AMSD** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC** Batch ID: **R4018** RunNo: **4018**
Prep Date: Analysis Date: **7/13/2012** SeqNo: **115464** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.050	0.7299	0	98.0	67.2	113	5.40	14.3	
Toluene	0.73	0.050	0.7299	0	99.5	62.1	116	4.48	15.9	
Ethylbenzene	0.74	0.050	0.7299	0	101	67.9	127	4.04	14.4	
Xylenes, Total	2.3	0.10	2.190	0	104	60.6	134	1.98	12.6	
Surr: 4-Bromofluorobenzene	0.83		0.7299		114	80	120	0	0	

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207544**

17-Jul-12

Client: Blagg Engineering
Project: HUTCHIN LS #1

Sample ID	**MB-2798**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID: **2798**		RunNo: **4070**					
Prep Date:	**7/12/2012**	Analysis Date: **7/16/2012**		SeqNo: **116577**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	**LCS-2798**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID: **2798**		RunNo: **4070**					
Prep Date:	**7/12/2012**	Analysis Date: **7/16/2012**		SeqNo: **116578**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	**1207519-001AMS**	SampType: **MS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**BatchQC**	Batch ID: **2798**		RunNo: **4070**					
Prep Date:	**7/13/2012**	Analysis Date: **7/16/2012**		SeqNo: **116580**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		0.9560		115	80	120			

Sample ID	**1207519-001AMSD**	SampType: **MSD**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**BatchQC**	Batch ID: **2798**		RunNo: **4070**					
Prep Date:	**7/13/2012**	Analysis Date: **7/16/2012**		SeqNo: **116581**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		0.9814		113	80	120	0	0	

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1207544

Received by/date: 07/13/12

Logged By: **Lindsay Mangin** 7/13/2012 10:05:00 AM

Completed By: **Lindsay Mangin** 7/13/2012 10:20:57 AM

Reviewed By: 07/13/12

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)? 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 ☐ 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 ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

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: ☐ 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
1	4.1	Good	Yes			

Chain-of-Custody Record

Client:	BLAGG ENGR. / BP AMERICA
Mailing Address:	P.O. BOX 87
	BLOOMFIELD, NM 87413
Phone #:	(505) 632-1199
email or Fax#:	
QA/QC Package:	☑ Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other ☐ EDD (Type)

Turn-Around Time: ☐ Standard ☑ Rush COMPLETE BY 7/16/12

Project Name: HUTCHIN LS #1

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 4.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1207814	BTEX + MTBE + TMB's (8021B)	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 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
7/12/12	1109	SOIL	#5(WEST)@22'(95 BGT)	4oz.-1	COOL	-001	✓		✓											✓		
7/12/12	1124	SOIL	#1(NORTH)@17'(95BGT)	4oz.-1	COOL	-002	✓		✓											✓		
7/12/12	1235	SOIL	4PC-SW@17'(95 BGT)	4oz-1	COOL	-003	✓		✓										SUB (4PT.)		✓	
7/12/12	1245	SOIL	#5(WEST)@24'(95 BGT)	4oz.-1	COOL	-004	✓		✓											✓		
7/12/12	1257	SOIL	5PC-EB@22'(95 BGT)	4oz.1	COOL	-005	✓		✓												✓	

Date	Time	Relinquished by:	Received by:	Date	Time
7/12/12	1430		Christine Walker	7/12/12	1430
7/12/12	1702	Christine Walker		7/12/12	1705

Remarks: **TPH (8015B) - GRO & DRO ONLY.**

BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N1570814 Paykey: ZSCHWLLBGT

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

1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C
Revised March 12,

*Surface Waste Management Facility Oper
and Generator shall maintain and make
documentation available for Division inspec

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:

BP AMERICA 200 ENERGY COURT FARMINGTON NEW MEXICO 87401

2. Originating Site: Work Order # NI570814

Hutchin LS 001 Po# 80254 Pay Key 745510

3. Location of Material (Street Address, City, State or ULSTR):

UL G SECTION 07 TOWNSHIP 31N RANGE 10W

4. Source and Description of Waste:

Impacted soil 7-18-12 30cy

Estimated Volume 160 yd yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 150 yd³ / bb

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I Chad Zellitt, representative or authorized agent for BP AMERICA do hereby

Generator Signature and Phone# Chad Zellitt (970) 759-6569

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 19 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and ar mingled with non exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards f hazardous characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is no ous. (Che the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide descript x 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARM

I _____, representative for JEI, do hereby certif
Representative/Agent Signature

representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and th mpl have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC sult of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 19.15.36 NMAC.

5. Transporter: Paul & Sons

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm c/o Industrial Ecosystems, Inc. / NM 01-0010B

Address of Facility: ~~#81~~ CR 3150 Aztec NM 87410

CC-412
Ph-7

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED ☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: L. Machado TITLE: Administrative Officer DATE: 7-17-12

SIGNATURE: _____ TELEPHONE NO.: 505-632-1782

Surface Waste Management Facility Authorized Agent

FAX NO.: 505-334-1003