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

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## State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

# OIL CONS. DIV DIST. 3

AUG 1 1 2015

Form C-141 Revised August 8, 2011

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

District IV 1220 S. St. Fran	ncis Dr., Sant	ta Fe, NM 8750	5	1220 S	) Sout anta F	h St. Franc Fe. NM 875	cis Dr. 505		a		101 17.1	5.27 NWAC
			Rel	ease Notifi	catio	n and Co	orrective A	ction				
						OPERA	TOR		Initi	al Report		Final Reno
Name of Co	ompany: E	3P				Contact: Ste	eve Moskal			ui report		i mai repe
Address: 20	00 Energy	Court, Farm	ington, N	M 87401		Telephone	No.: 505-326-94	97				
Facility Na	me: Hutch	in LS 1				Facility Typ	be: Natural gas v	well				
Surface Ow	vner: Priva	te		Mineral (	Owner:	Private			API No	. 30045109	915	
				LOC	ΑΤΙΟ	N OF RE	LEASE					
Unit Letter G	Section 7	Township 31N	Range 10W	Feet from the 1,700	North North	n/South Line n	est Line	County: S	an Juan	l		
		Lati	itude <u>3</u>	5.91541		Longitud	e <u>-107.92021</u>					
				NAT	FURF	OFREL	EASE					
Type of Rele	ease: oil/cor	idensate		1111	Und	Volume of	Release: unknow	'n	Volume F	Recovered: n	none	
Source of Re	elease: belov	w grade tank -	- 95 bbl			Date and H	lour of Occurrenc	e:	Date and	Hour of Dis	covery:	June 25,
XX7 X		<u>.</u>				unknown			2012; 12:	48 PM		
Was Immedi	ate Notice (	Given?	Yes 🗵	No 🗌 Not R	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Rea	ched?	_	-		If YES, Ve	olume Impacting t	he Water	rcourse.			
			Yes 🗵	No								
Describe Are observation i were collecte approximated	oil sample t ea Affected indicated a r ed for labora ly 500 cubio	and Cleanup A release occurre atory analysis. c yards were e	Action Tal ed. The ar Laborato xcavated a	e BGT resulted in ten.* BGT was re ea of impacts wa ry results determ ind transported IH	emoved s excavatined the EI Land	BTEX and ch and the area u ated to a total e final extents farm for offsit	Inderneath the BG depth of 24' below of the excavation e disposal. The ex	T was sa w ground to below xcavated	nalysis res impled. Sa l surface w soil reme area was l	ample result where confirm diation stand backfilled ar	s and vinations dards.	isual samples A total of pacted and i
I hereby certi regulations a public health should their o or the environ federal, state,	ify that the ll operators or the envi operations h nment. In a , or local la	information gi are required t ronment. The nave failed to addition, NMC ws and/or reg	iven above o report an acceptanc adequately OCD accep ulations.	e is true and comp nd/or file certain the of a C-141 rep investigate and n tance of a C-141	olete to release r ort by th remedia report o	the best of my notifications a ne NMOCD m te contaminati does not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of r	nderstand tive actio eport" do eat to gro responsib	d that purs ons for rele bes not reli ound water bility for co	suant to NM eases which ieve the oper c, surface wa ompliance w	OCD ru may en rator of ater, hun with any	iles and idanger liability man health other
Signature:	Had	Ma					<u>OIL CON</u>	SERV	AHON	DIVISIC		4
Printed Name	e: Steve Mo	oskal				Approved by	Environmental Sp	pecialist:	C	X	1	Y
Title: Field E	Environmen	tal Coordinate	or			Approval Da	te: 8/12/1	5 E	xpiration	Date:		
E-mail Addre	ess: steven.	moskal@bp.co	om			Conditions o	f Approval:			Attached		
Date: Augus Attach Addi	t 6, 2015 tional She	ets If Necess	Phone: : ary	505-326-9497 F	ŦN	SK.	15162	15	576	51		

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# **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

- 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)

						Sample ID's a	and Collection	Dates			
	Lab Analysis Parameter	TH1 @ 13' (95 BGT)	TH2 @ 14' (95 BGT)	GS @ 24' (95 BGT)	TH (south) @ 18' (95 BGT)	TH (north) @ 22' (95 BGT)	#5 (west) @ 22' (95 BGT)	#1 (north) @ 17' (95 BGT)	4PC-SW @ 17' (95 BGT)	#5 (west) @ 24' (95 BGT)	5PC-EB @ 22' (95 BGT)
		(grab)	(grab)	(grab)	(grab)	(grab)	(grab)	(grab)	(4 pt. composite)	(grab)	(5 pt. composite)
l		6/25/2012	6/25/2012	7/3/2012	7/3/2012	7/3/2012	7/12/2012	7/12/2012	7/12/2012	7/12/2012	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

			1
BP	BLAGG ENG	INEERING, INC.	API# 3004510915
CLIENT:	P.O. BOX 87, BLO (505) (	OMFIELD, NM 87413 632-1199	TANK ID (if applicble):
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	EASE INVESTIGATION / OTHER:	PAGE #:1 of1
SITE INFORMATION	SITE NAME: HUTCHIN	LS #1	DATE STARTED: 07/03/12
QUAD/UNIT: G SEC: 7 TWP:	31N RNG: 10W PM: NM	CNTY: SJ ST: NM	DATE FINISHED:
<u>1/4 -1/4/FOOTAGE: 1700'N / 1650'</u>	E SW/NE LEASE TYPE:		ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POINT		36 91565 ¥ 107 920	39 CLELEV: 5828'
1) 95 BBL BGT (DW/DB)	GPS COORD.: 36.91	541 X 107.92021 DISTANCE/BI	EARING FROM W.H.: 106', S28E
2) <b>GS</b>	GPS COORD.: 36.915	410 X 107.920215 DISTANCE/BI	EARING FROM W.H.: 112', S23.5E
3) TH (SOUTH) @ 18' (95 BG	[] GPS COORD.: 36.9154	433 X 107.920268 DISTANCE/BE	EARING FROM W.H.: 98', S17E
4) TH (NORTH) @ 22' (95 BG	[] GPS COORD.: 36.9154	411 X 107.920153 DISTANCE/BR	EARING FROM W.H.: 119.5', S31.5E
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB	USED: HALL	OVM READING
1) SAMPLE ID: GS @ 24' (95 BC	T) SAMPLE DATE: 07/03/12	SAMPLE TIME: 1457 LAB ANALYSIS: 8015	, 8021, 300.00 (Chlor.) 90
2) SAMPLE ID: TH (SOUTH) @ 18' (9	5 BGT) SAMPLE DATE: 07/03/12	SAMPLE TIME: 1509 LAB ANALYSIS: 8015	, 8021, 300.00 (Chlor.) 23.3
3) SAMPLE ID: TH (NORTH) @ 22' (9	<b>5 BGT)</b> SAMPLE DATE: 07/03/12	SAMPLE TIME: 1517 LAB ANALYSIS: 8015	, 8021, 300.00 (Chlor.) 0.0
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS:	
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAN	D SILT (SILTY CLAY) CLAY / GRAVEL / OT	THER
SOIL COLOR: PALE YELLOWISH C	RANGE / MED. GRAY TO BLACK		
CONSISTENCY (NON COHESIVE SOILS): LO	OSE FIRM DENSE / VERY DENSE	DENSITY (COHESIVE CLAYS & SILTS): SOF	FIRM STIFF / VERY STIFF / HARD
MOISTURE: DRY SLIGHTLY MOIST MOIST / W	ET / SATURATED / SUPER SATURATED	HC ODOR DETECTED: YES / NO EXPL	ANATION - DISCOLORED SOILS
DISCOLORATION/STAINING OBSERVED	YES NO EXPLANATION - MEDIUM G	ONLY. RAY TO BLACK FROM 10' TO 24' WITHIN	(GS) TEST HOLE (MED. DK. GRAY)
ANY AREAS DISPLAYING WETNESS: YES NO			
ADDITIONAL COMMENTS: UTILIZED	BSERVED AND/OR OCCURRED : YES 300GLE EARTH FOR GPS COORDINA	TES ALONG WITH DISTANCE & BEARING	BLY LOST INTEGRITY BENEATH BGT.
EXCAVATION DIMENSIONS (if applicable	): <u>34</u> ft. X <u>30</u> ft	. X <b>24</b> ft. cubic yards e	xcavated (if applicable): 1,000
DEPTH TO GROUNDWATER: <a></a>	EAREST WATER SOURCE: >1,000" NE	AREST SURFACE WATER: <1,000 NMO	CD TPH CLOSURE STD: 100 PPM
SITE SKETCH	ТО	PLOT PLAN circle: attached 0M	CALIB. READ. = <b>51.9</b> ppm RF = 0.52
	HEAD		I CALIB. GAS = 100 ppm
	,	TH2 N	E <u>11:14</u> (am)pm DATE: <u>07/03/12</u>
			MISCELL. NOTES
		V	VO: N1570814
	PBGTL	TH1 FORMER	
	TB~5.5'	POSITION	1# 72-00690-C
			DCD Appr. date(s): 05/16/12
	TH (SOUTH) X 19' GS		nk
	××		Permit date(s): 06/14/10
V ODD	PROD /		BGT Sidewalls Visible: Y / N
X - S.P.D.			BGT Sidewalls Visible: Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BE	IOW DEPRESSION; B.G. = BELOW, GRADE; B = BELOW, ILOW-GRADE TANK LOCATION; SPD = SAMPLE POINT I	DESIGNATION; R.W. = RETAINING WALL;	Magnetic declination: 10° E
NA-NOT APPLICABLE OR NOT AVAILABLE; S	W - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE B	OTTOM; DB - DOUBLE BOTTOM.	
CALLOUT:		UNSITE: UUIZUIZ, UTUUIZ	

**Analytical Report** 

## Lab Order 1207164

Date Reported: 7/11/2012

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: GS @ 24' (95 BGT)

 Project: HUTCHIN LS #1
 Collection Date: 7/3/2012 2:57:00 PM

 Lab ID: 1207164-001
 Matrix: MEOH (SOIL)
 Received Date: 7/6/2012 9:45:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

Analyses	Result	KL Qu	al 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 SH	ORT 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: GASOLIN	E 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.

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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#### Analytical Report Lab Order 1207164

## Date Reported: 7/11/2012

## Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Blagg Engineering
 Client Sample ID: TH (South) @ 18' (95 BGT)

 Project:
 HUTCHIN LS #1

 Lab ID:
 1207164-002

 Matrix:
 MEOH (SOIL)

 Received Date:
 7/6/2012 9:45:00 AM

Result	KL QU	ai Units	DF	Date Analyzed
ORGANICS				Analyst: SCC
ND	9.9	mg/Kg	1	7/9/2012 8:14:53 AM
112	77.6-140	%REC	1	7/9/2012 8:14:53 AM
				Analyst: BRM
ND	30	mg/Kg	20	7/7/2012 1:35:26 AM
ORT LIST				Analyst: RAA
ND	0.050	mg/Kg	1	7/6/2012 12:40:39 PM
ND	0.050	mg/Kg	1	7/6/2012 12:40:39 PM
ND	0.050	mg/Kg	1	7/6/2012 12:40:39 PM
ND	0.10	mg/Kg	1	7/6/2012 12:40:39 PM
81.7	70-130	%REC	1	7/6/2012 12:40:39 PM
91.4	70-130	%REC	1	7/6/2012 12:40:39 PM
79.9	71.7-132	%REC	1	7/6/2012 12:40:39 PM
89.3	70-130	%REC	1	7/6/2012 12:40:39 PM
E RANGE				Analyst: RAA
ND	5.0	mg/Kg	1	7/6/2012 12:40:39 PM
91.4	70-130	%REC	1	7/6/2012 12:40:39 PM
	Result E ORGANICS ND 112 ND ORT LIST ND ND ND ND 81.7 91.4 79.9 89.3 E RANGE ND 91.4	Kesult         KL Question           E ORGANICS         ND         9.9           112         77.6-140           ND         30           ORT LIST         ND         0.050           ND         0.050           ND         0.050           ND         0.050           ND         0.050           ND         0.10           81.7         70-130           91.4         70-130           79.9         71.7-132           89.3         70-130           E RANGE         ND         5.0           91.4         70-130	Kesult         KL Quar Units           E ORGANICS         ND         9.9         mg/Kg           112         77.6-140         %REC           ND         30         mg/Kg           ORT LIST         ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.050         mg/Kg           ND         0.10         mg/Kg           81.7         70-130         %REC           91.4         70-130         %REC           89.3         70-130         %REC           89.3         70-130         %REC           B1.4         70-130         %REC	Kesult         KL Quar Units         DF           E ORGANICS         ND         9.9         mg/Kg         1           112         77.6-140         %REC         1           ND         30         mg/Kg         20           ORT LIST         ND         0.050         mg/Kg         1           ND         0.050         mg/Kg         1         1           ND         0.050         mg/Kg         1         1           ND         0.050         mg/Kg         1         1           ND         0.10         mg/Kg         1         1           ND         0.10         mg/Kg         1         1           91.4         70-130         %REC         1         1           93.3         70-130         %REC         1         1           E RANGE         1         1         1         1

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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# **Analytical Report**

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 1207164 Date Reported: 7/11/2012

**CLIENT:** Blagg Engineering HUTCHIN LS #1 **Project:** 

Lab ID: 1207164-003 Client Sample ID: TH (North) @ 22' (95 BGT)

Collection Date: 7/3/2012 3:17:00 PM Matrix: MEOH (SOIL) Received Date: 7/6/2012 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE 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: GASOL	INE 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.

Е Value above quantitation range

Analyte detected below quantitation limits J

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

B Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Samples with CalcVal < MDL U

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WO#: 1207164

11-Jul-12

Client:	Blagg En	gineering								
Project:	HUTCHI	N LS #1								
Sample ID	mb_2720	SampType	MBLK	Tes	tCode: EE	PA Mothod	300 0: Anion	6		
Sample ID	1110-2720	Sampiype		165	COUC. EF	-A Methou	500.0. AIII0II	5		
Client ID:	PBS	Batch ID	: 2720	F	RunNo: 39	909				
Prep Date:	7/6/2012	Analysis Date	7/6/2012	5	SeqNo: 11	11156	Units: mg/K	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID	lcs-2720	SampType	E LCS	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	2720	F	RunNo: 39	909				
Prep Date:	7/6/2012	Analysis Date:	7/6/2012	5	SeqNo: 11	11157	Units: mg/K	g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	92.3	90	110			
			1000		02.0					
Sample ID	1207112-001ams	SampType	: MS	Tes	tCode: EF	PA Method	300.0: Anion	s		
Sample ID Client ID:	1207112-001ams BatchQC	SampType Batch ID:	: MS : 2720	Tes	tCode: EF	PA Method	300.0: Anion	s		
Sample ID Client ID: Prep Date:	1207112-001ams BatchQC 7/6/2012	SampType Batch ID: Analysis Date:	:: MS : 2720 : 7/7/2012	Tes F	tCode: EF RunNo: 39 SeqNo: 11	PA Method 931 12075	<b>300.0: Anion</b> Units: <b>mg/K</b>	s		
Sample ID Client ID: Prep Date: Analyte	1207112-001ams BatchQC 7/6/2012	SampType Batch ID: Analysis Date: Result P	:: MS : 2720 : 7/7/2012 QL SPK value	Tes F SPK Ref Val	tCode: EF RunNo: 39 SeqNo: 11 %REC	PA Method 931 12075 LowLimit	300.0: Anion Units: mg/K HighLimit	s g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride	1207112-001ams BatchQC 7/6/2012	SampType Batch ID: Analysis Date Result P 18	E: MS 2720 277/2012 QL SPK value 15 15.00	Tes F SPK Ref Val 5.966	tCode: EF RunNo: 39 SeqNo: 11 %REC 79.9	PA Method 931 12075 LowLimit 64.4	300.0: Anion Units: mg/K HighLimit 117	s g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride	1207112-001ams BatchQC 7/6/2012 1207112-001amsd	SampType Batch ID Analysis Date Result P 18 SampType	:: MS : 2720 : 7/7/2012 QL SPK value 15 15.00 :: MSD	Tes SPK Ref Val 5.966 Tes	tCode: EF RunNo: 39 SeqNo: 11 %REC 79.9 tCode: EF	PA Method 931 12075 LowLimit 64.4 PA Method	300.0: Anion Units: mg/K HighLimit 117 300.0: Anion	s %RPD s	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	1207112-001ams BatchQC 7/6/2012 1207112-001amsd BatchQC	SampType Batch ID: Analysis Date Result P 18 SampType Batch ID:	<ul> <li>MS</li> <li>2720</li> <li>7/7/2012</li> <li>QL SPK value</li> <li>15 15.00</li> <li>MSD</li> <li>2720</li> </ul>	Tes F SPK Ref Val 5.966 Tes F	tCode: EF RunNo: 39 SeqNo: 11 %REC 79.9 tCode: EF RunNo: 39	PA Method 931 12075 LowLimit 64.4 PA Method 931	300.0: Anion Units: mg/K HighLimit 117 300.0: Anion	s g %RPD s	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	1207112-001ams BatchQC 7/6/2012 1207112-001amsd BatchQC 7/6/2012	SampType Batch ID Analysis Date Result P 18 SampType Batch ID Analysis Date	:: MS : 2720 : 7/7/2012 QL SPK value 15 15.00 :: MSD : 2720 : 7/7/2012	Tes SPK Ref Val 5.966 Tes F	tCode: EF RunNo: 39 SeqNo: 11 %REC 79.9 tCode: EF RunNo: 39 SeqNo: 11	PA Method 931 12075 LowLimit 64.4 PA Method 931 12076	300.0: Anion Units: mg/K HighLimit 117 300.0: Anion Units: mg/K	s %RPD s	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	1207112-001ams BatchQC 7/6/2012 1207112-001amsd BatchQC 7/6/2012	SampType Batch ID: Analysis Date Result P 18 SampType Batch ID: Analysis Date Result P	<ul> <li>MS</li> <li>2720</li> <li>7/7/2012</li> <li>QL SPK value</li> <li>15 15.00</li> <li>MSD</li> <li>2720</li> <li>7/7/2012</li> <li>QL SPK value</li> </ul>	Tes F SPK Ref Val 5.966 Tes F SPK Ref Val	tCode: EF RunNo: 38 SeqNo: 11 %REC 79.9 tCode: EF RunNo: 38 SeqNo: 11 %REC	PA Method 931 12075 LowLimit 64.4 PA Method 931 12076 LowLimit	300.0: Anion Units: mg/K HighLimit 117 300.0: Anion Units: mg/K HighLimit	s %RPD s g %RPD	RPDLimit	Qual

#### Qualifiers:

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- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

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WO#: 1207164

11-Jul-12

Client:	Blagg En	gineering									
<b>Project:</b>	HUTCHI	N LS #1									
Sample ID	MB-2731	SampType	: MBL	-K	Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	PBS	Batch ID	2731	1	F	RunNo: 3	905				
Prep Date:	7/8/2012	Analysis Date	: 7/9/	2012	5	SeqNo: 1	11052	Units: mg/ł	<g< td=""><td></td><td></td></g<>		
Analyte		Result P	QL :	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		Tes	tCode: El	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	LCSS	Batch ID	2731	I	F	RunNo: 3	905				
Prep Date:	7/8/2012	Analysis Date	7/9/	2012	S	SeqNo: 1	11053	Units: mg/k	٢g		
Analyte		Result P	QL S	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	MBL	.K	Tes	tCode: EF	PA Method	8015B: Dies	el Range (	Organics	
Client ID:	PBS	Batch ID	2732	2	F	unNo: 3	905				
Prep Date:	7/8/2012	Analysis Date	7/9/	2012	S	SeqNo: 1	11542	Units: %RE	С		
Analyte		Result P	QL S	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		Tes	Code: EF	PA Method	8015B: Dies	el Range (	Drganics	
Client ID:	LCSS	Batch ID	2732	2	F	unNo: 3	905				
Prep Date:	7/8/2012	Analysis Date:	7/9/	2012	S	eqNo: 1	11543	Units: %RE	С		
Analyte		Result P	QL S	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		Tes	Code: EF	PA Method	8015B: Dies	el Range (	Drganics	
Client ID:	BatchQC	Batch ID:	2732	2	R	unNo: 39	905		U	0	
Prep Date:	7/8/2012	Analysis Date:	7/9/	2012	S	eqNo: 1	11546	Units: %RE	С		
Analyte		Result P	01 5	SPK value	SPK Ref Val	%REC	Lowl imit	Highl imit	%RPD	RPDI imit	Qual
Surr: DNOP		3.9		4.941	e. it iter var	78.0	77.6	140			300
Cample ID	4207244 0000000	CompTure	Men	\ \	Taai	Code: E	A Method	2015B: Dice	Dance (	raanice	
Client ID:	T20/211-009BMSL		. WISD	,	res			OUISE: DIES	er Kange C	rganics	
Dren Deter	Batchuc	Batch ID:	2132	2012	R		14549	Inite: 0/DE	C		
Prep Date:	110/2012	Analysis Date:	7/10	JI 2012	5	equito. T	11340	onits. %RE	0		
Analyte		Result P	QL S	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.9		4.965		79.1	11.6	140	U	0	

#### Qualifiers:

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# QC SUMMARY REPORT

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Analyte

Surr: DNOP

Client:	Blagg En	gineering							
Project:	HUTCH	IN LS #1							
Sample ID	MB-2755	SampType:	MBLK	TestCode: E	PA Method	8015B: Diese	Range C	Drganics	
Client ID:	PBS	Batch ID:	2755	RunNo: 3	3905				
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo: 1	12276	Units: %REC	;		
Analyte		Result PQI	L 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: I	LCS	TestCode: E	PA Method	8015B: Diese	Range C	Organics	
Client ID:	LCSS	Batch ID:	2755	RunNo: 3	3905				
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo: 1	12346	Units: %REC	;		

LowLimit

99.6

77.6

HighLimit

140

%RPD

RPDLimit

Qual

SPK value SPK Ref Val %REC

5.000

Hall Environmental Analysis Laboratory, Inc.

Result

5.0

PQL

WO#: **1207164** 

11-Jul-12

#### Qualifiers:

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Client:	Blagg En	gineering									
Project:	HUTCHI	N LS #1									
3											
Sample ID m	nb-2709	Samp	Туре:	MBLK	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: PI	PBS	Batc	h ID:	2709	F	RunNo: 3	881				
Prep Date: 7	7/5/2012	Analysis [	Date:	7/6/2012	5	SeqNo: 1	11085	Units: %RE	C		
Analyte		Result	PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichlo	proethane-d4	0.40		0.5000		80.4	70	130			
Surr: 4-Bromoflu	luorobenzene	0.44		0.5000		88.2	70	130			
Surr: Dibromoflu	luoromethane	0.39		0.5000		78.9	71.7	132			
Surr: Toluene-d	8	0.43		0.5000		85.4	70	130			
Sample ID Ic:	cs-2709	Samp	Гуре:	LCS	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: LO	CSS	Batc	h ID:	2709	F	RunNo: 3	881				
Prep Date: 7	7/5/2012	Analysis [	Date:	7/6/2012	S	SeqNo: 1	11086	Units: %RE	C		
Analyte		Result	PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichlor	proethane-d4	0.41		0.5000		81.9	70	130			
Surr: 4-Bromoflu	luorobenzene	0.45		0.5000		91.0	70	130			
Surr: Dibromoflu	uoromethane	0.39		0.5000		78.0	71.7	132			
Surr: Toluene-d	81	0.42		0.5000		84.1	70	130			
Sample ID 12	206c65-001ams	Samp	Гуре:	MS	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: Ba	atchQC	Batc	h ID:	2709	R	anNo: 3	881				
Prep Date: 7	7/5/2012	Analysis [	Date:	7/6/2012	S	SeqNo: 1	11087	Units: %RE	C		
Analyte		Result	PQ	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichlor	proethane-d4	4.5		5.631		79.9	70	130			
Surr: 4-Bromoflu	uorobenzene	5.6		5.631		99.3	70	130			
Surr: Dibromoflu	uoromethane	4.5		5.631		79.7	71.7	132			
Surr: Toluene-da	18	4.9		5.631		86.4	70	130			
Sample ID 12	206c65-001amsd	Samp	Гуре:	MSD	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: Ba	atchQC	Batc	h ID:	2709	R	unNo: 3	881				
Prep Date: 7	7/5/2012	Analysis [	Date:	7/6/2012	S	eqNo: 1	11088	Units: %RE	C		
Analyte		Result	PQ	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Surr: 1,2-Dichlor	proethane-d4	Result 4.4	PQ	SPK value 5.583	SPK Ref Val	%REC 79.6	LowLimit 70	HighLimit 130	%RPD 0	RPDLimit 0	Qual
Analyte Surr: 1,2-Dichlor Surr: 4-Bromoflu	proethane-d4 uorobenzene	Result 4.4 5.3	PQ	SPK value 5.583 5.583	SPK Ref Val	%REC 79.6 95.4	LowLimit 70 70	HighLimit 130 130	%RPD 0 0	RPDLimit 0 0	Qual
Analyte Surr: 1,2-Dichlor Surr: 4-Bromoflu Surr: Dibromoflu	proethane-d4 luorobenzene uoromethane	Result 4.4 5.3 4.3	PQ	SPK value 5.583 5.583 5.583	SPK Ref Val	%REC 79.6 95.4 76.2	LowLimit 70 70 71.7	HighLimit 130 130 132	%RPD 0 0 0	RPDLimit 0 0 0	Qual

Qualifiers:

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WO#: 1207164

11-Jul-12

Client: Project:	Blagg En HUTCHI	gineering NLS #1									
	morem										
Sample ID	mb-2709	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	PBS	Batch	n ID: 27	09	F	RunNo: 3	881				
Prep Date:	7/5/2012	Analysis D	Date: 7	/6/2012	5	SeqNo: 1	11055	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		440		500.0		88.2	70	130			
Sample ID	LCS-2709	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	n ID: 27	09	F	RunNo: 3	881				
Prep Date:	7/5/2012	Analysis D	ate: 7	/6/2012	S	SeqNo: 1	11057	Units: mg/l	Кg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge 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	SampT	уре: М	S	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	BatchQC	Batch	n ID: 27	09	F	RunNo: 3	881				
Prep Date:	7/5/2012	Analysis D	ate: 7	/6/2012	5	SeqNo: 1	11058	Units: mg/l	Kg-dry		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	89	5.7	28.32	65.56	82.6	70	130			
Surr: BFB		510		566.4		89.7	70	130			
Sample ID	1206C65-002AMS	D SampT	уре: М	SD	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	BatchQC	Batch	n ID: 27	09	F	RunNo: 3	881				
Prep Date:	7/5/2012	Analysis D	ate: 7	/6/2012	S	SeqNo: 1	11059	Units: mg/l	Kg-dry		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	130	5.6	27.99	65.56	217	70	130	34.7	20	SR
Surr BEB		680		559 9		121	70	130	0	0	

#### Qualifiers:

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con
Client Name: BLAGG	Work Order Number: 1207164
Received by/date: 07	106/12
Logged By: Lindsay Mangin 7/6/	(2012 9:45:00 AM
Completed By: Lindsay Mangin 7/6/	2012 9:59:18 AM
Reviewed By: Ma 67/6	1.117
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 pr	reserved? 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 🗹
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>	Yes  ✔ No
14. Are matrices correctly identified on Chain of Cus	itody? Yes ✔ No
15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes V No Checked by:
Special Handling (if applicable)	
17. Was client notified of all discrepancies with this	order? Yes No No NA 🗹
Person Notified:	Date:
By Whom:	Via: eMail Phone Fax In Person
Regarding:	
Client Instructions:	
18. Additional remarks:	

### 19. Cooler Information

3	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	1.0	Good	Yes			

Page 1 of 1

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CI	nain-o	of-Cus	tody Record	I urn-Around I	ime:	COMPLETE BY				Ŀ	44	E E	E	NI	/TE	20	NI	ME	NT	AI	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush _	07/06/2012				4		AL	Y	SI	SL	A	30	R/	TO	R	Y
				Project Name:				21	Ser	_	ww	w.ha	allen	viro	nme	ental	.con	n —			
Mailing Ad	ddress:	P.O. BO	X 87	1	HUTCHIN LS	5#1		49	01	lawk	ins l	NE -	Alt	ouqu	iera	ue. N	IM 8	3710	9		
B4		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50	)5-34	45-3	975		Fax	505	-345	-410	)7			
Phone #·		(505) 63	2-1199	1			Analysis Request														
email or F	ax#:			Project Manag	jer:									(4)						T	T
QA/QC Pad	ckage: ard		Level 4 (Full Validation)		NELSON VE	ELEZ	021B)	anly)	/Diesel)					PO4, SC	CB's					a	U
Accreditat	ion:		×	Sampler:	NELSON VE	ELEZ nu		(Gas	(Gas		_			N02,	82 P					lame	di lib
	)	D Other		On Ice:	EX Yes	⊡ No		TPH	158	18.1	04.1	(HA		03, 1	/ 80		1			D C	
	ype)			Sample Temp	erature:	1.0		3E +	d 80	d 4	od 5(	or P	cals	I'N	ides	2	101-	0.00	4	osit institu	100
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MTH	BTEX + MTE	TPH Metho	TPH (Metho	EDB (Metho	8310 (PNA	RCRA 8 Met	Anions (F, C	8081 Pestic	8260B (VOA	8270 (Semi-	Chloride (30	Crob camp	5 nt comp	2 pr
7/3/12	1457	SOIL	GS @ 24' (95 BGT)	4 oz 1	Cool	-001	V		۷									V	1	1	T
																					T
7/3/12	1509	SOIL	TH (south) @ 18' (95 BGT)	4 oz 1	Cool	-002	V		٧									V	1	1	T
																					+
7/3/12	1517	SOIL	TH (north) @ 22' (95 BGT)	4 oz 1	Cool	-003	٧		٧									٧	V	1	T
							-											$\vdash$		+	+
	4																				+
										_	_							$\vdash$		-	+
				1									<b></b>				-				+
Data	Time	Dellasuish		Received by:		Data Tima	Dor			TOL	1/0	015		CDC							
7/5/12	1430	Multim	m VF	Man tra	bloods.	7/5/12 1430	BI		RECT	LYT	O BP	): 0131	D) -	GRU	Ja	DRU		ALY.			
Date:	Time:	Relinquish	ed by:	Received by:	A	Date Time	Je	rt Pea	ace, i	200 E	nerg	gy Co	ourt,	Farm	ningt	on, N	IM 8	7401			
7/5/12	1/5/12 1727 Christine Waller		AMUILLE AN OT/OD/20945 Work Order: N1570814 Paykey: ZSCHWLLBGT																		
	If necess	ary, samples s	submitted to Hall Environmental may be s	uhonstracted to other	anoraditad laboratada	This samion on notice -	E Alaía -	1L 1	HA. A			× •	A. 4		1			11			

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BP	BLAGG ENG	INEERING, INC.	API #: 3004510	915							
	(505) 6	632-1199	TANK ID (if applicble):								
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	ASE INVESTIGATION OTHER:	PAGE #: 1 of	1							
SITE INFORMATION	V: SITE NAME: HUTCHIN I	LS #1	DATE STARTED 07/1	2/12							
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 #: -		ELKHORN ITRACTOR: MBF - C. ZELLITTI	SPECIALIST(S):	JV							
REFERENCE POIN	T: WELL HEAD (W.H.) GPS COO	RD.: 36.91565 X 107.9	2039 GL ELEV.:	5,828'							
1) 95 BBL BGT (DW/DB)	GPS COORD.: 36.91	541 X 107.92021 DISTANC	E/BEARING FROM W.H.: 106',	S28E							
2)	GPS COORD.:	DISTANC	E/BEARING FROM W.H.:								
3) GPS COORD.: DISTANCE/BEARING FROM WH.:											
4) GPS COORD.: DISTANCE/BEARING FROM W.H.:											
SAMPLING DATA	CHAIN OF CUSTODY RECORD(S) # OR LAB	USED: HALL		OVM READING							
1) SAMPLE ID: 5 (WEST) @ 22' (9	5 BGT) SANDLE DATE: 07/12/12		8015B / 8021B	(ppm) 5 210							
2) SAMPLE ID: 5 (WEST) @ 24' (9	5 BGT) SAMPLE DATE: 07/12/12		8015B / 8021B	0.0							
2) SAMPLE ID: 1 (NORTH) @ 17' (S	05 BGT) SAMPLE DATE: 07/12/12		8015B / 8021B	0.0							
	BCT) CANPLE DATE 07/12/12		8015B / 8021B	0.0							
4) SAMPLE ID: 4PC-SW (0 17 (5:	SAMPLE DATE: OTTZITZ		00150700210	INA							
SOIL COLOR: PALE YELLOWISH COHESION (ALL OTHERS): NON COHESIVE SUIGHT CONSISTENCY (NON COHESIVE SOILS): I MOISTURE: DRY SLIGHTLY MOIST / SAMPLE TYPE: GRAB COMPOSITE -	SOIL DESCRIPTION:       SOIL TYPE: SAND SILTY SAND       SILTY SAND       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       PLASTICITY (CLAYS): NON PLASTIC       SLIGHTLY PLASTIC       COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         MOISTURE:       DRY SLIGHTLY MOIST / WOIST / WET / SATURATED / SUPER SATURATED       PLASTICITY (CLAYS): NON PLASTIC       SLIGHTLY PLASTIC       COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC         MOISTURE:       DRY SLIGHTLY MOIST / WOIST / WET / SATURATED / SUPER SATURATED       HC ODOR DETECTED: YES / NO EXPLANATION - WITHIN VARYING         SHADES OF GRAY (olive to dark medium)       SHADES OF GRAY (olive to dark medium)       MITHIN VARYING										
DISCOLORATION/STAINING OBSERVE	D: YES NO EXPLANATION - OLIVE TO	DARK MEDIUM GRAY TO 24 FT., BLA	CK @ 24' - no hydrocarbon odd	or.							
APPARENT EVIDENCE OF A RELEASE	OBSERVED AND/OR OCCURRED : YES	NO EXPLANATION : OVERFLOW & POS	SIBLY LOST INTEGRITY BENE	ATH BGT.							
ADDITIONAL COMMENTS: ADDITIO	NAL LAB SAMPLE COLLECTED AS CON	POSITE FROM EXCAVATION BOTTOM	1 @ 22 FT. [ SAMPLE ID: 5PC-E	B @ 22'							
(95 BGT]. ADVISED CREW TO EXC.	AVATE BOTTOM TO BLACK SOIL @ 24 F	T. BELOW GRADE WITHIN EXCAVATIO	ON PERIMETER.	500							
DEPTH TO GROUNDWATER: <100'	e): tt. X tt NEAREST WATER SOURCE: >1.000' NE	AREST SURFACE WATER: <1.000' N	Is excavated (if applicable):	PPM							
SITE SKETCH	то	PLOT PLAN circle: attached	OVM CALIB READ = 53.1 nnn								
SAMP OVM TIME	WELL	PBGTL	OVM CALIB. GAS = 100 ppr	RF = 0.52							
ID (ppm)	HEAD	TB ~ 5.5' B.G.	TIME: 11:36 (am)om DATE: 07	/12/12							
5W@22' 5,210 1109			MISCELL NOT	FS							
5CW @ 22 2,106 1110 5C @ 22' 2,317 1113		33'		20							
5CE @ 22' 2,459 1115			WO. N15/0614								
5E@22' 2,051 1117	17' (AW) (5W)	EXCAVATION	PK: 790411 BGT								
1N @ 17' 73.4 1124	5CW 5CW 5	C SCE SE PERIMETER	PI# 72-00690-C								
2E@17' 0.0 1127		CE 2E	OCD Appr. date(s): 05/1	16/12							
3S@17' 0.0 1138				or the							
4W @ 17' 0.0 1130		BENCH	Tank ID Permit date(s): 06/*	14/10							
DEPRESSION ~5' - 6' B.G.											
READING = 52.8 ppm (parts per million).	S.P.D.		BGT Sidewalls Visible: Y / N	N							
NOTES: BGT = BELOW-GRADE TANK; E.D. = EX	CAVATION DEPRESSION; B.G. = BELOW GRADE; B =	BELOW; T.H. = TEST HOLE; ~ = APPROX.;	BGT Sidewalls Visible: Y / N	N							
T.B. = TANK BOTTOM; PBGTL = PREVIO NA - NOT APPLICABLE OR NOT AVAILAB	US BELOW-GRADE TANK LOCATION; SPD = SAMPLE BLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SI	. POINT DESIGNATION; R.W. = RETAINING WALL; INGLE BOTTOM; DB - DOUBLE BOTTOM.	Magnetic declination: 10	)° E							
TRAVEL NOTES: CALLOUT:		ONSITE: 06/25/12, 07/03/12	2, 07/12/12								

## Analytical Report Lab Order 1207544 Date Reported: 7/17/2012

## Hall Environmental Analysis Laboratory, Inc.

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<b>CLIENT:</b>	Blagg Engineering			C	lient Sam	ole ID: #1 (Nor	rth) @17' (95BGT)	
Project:	HUTCHIN LS #1				Collection	Date: 7/12/20	12 11:24:00 AM	
Lab ID:	1207544-002	Matrix:	MEOH (S	OIL)	Received	Date: 7/13/20	12 10:05:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	
EPA MET		i.			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.
- 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 10

## **Analytical Report** Lab Order 1207544 Date Reported: 7/17/2012

## Hall Environmental Analysis Laboratory, Inc.

.

CLIENT:	Blagg Engineering		C	lient Sample ID:	4PC-SW	/@17' (95 BGT)
Project:	HUTCHIN LS #1			<b>Collection Date:</b>	7/12/201	2 12:35:00 PM
Lab ID:	1207544-003	Matrix:	MEOH (SOIL)	Received Date:	7/13/201	2 10:05:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed

					U
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 RANG	GE				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.

Е Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL Samples with CalcVal < MDL

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Page 3 of 10

### Analytical Report Lab Order 1207544 Date Reported: 7/17/2012

## Hall Environmental Analysis Laboratory, Inc.

Analyses		Dosult	DI	Qual	Unite	DE	Data Analyzad	
Lab ID:	1207544-004	Matrix:	MEOH (SO	OIL)	Received Date	: 7/13/20	012 10:05:00 AM	
<b>Project:</b>	HUTCHIN LS #1				Collection Date	: 7/12/20	012 12:45:00 PM	
CLIENT:	Blagg Engineering			C	lient Sample ID	:#5 (We	est) @ 24' (95 BGT)	

Analyses	Kesuit		ai Units	DF	Date Analyzeu
EPA METHOD 8015B: DIESEL RANG	E 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 RA	NGE				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.

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 4 of 10

SampType: LCS

Batch ID: 2809

Analysis Date: 7/13/2012

PQL

Result

Sample ID LCS-2809

Prep Date: 7/12/2012

LCSS

Client ID:

Analyte

man Environmen	Ital Mary	515 L	aborat	ory, me.						1/-JUI-12
Client: Blagg Project: HUTC	Engineering CHIN LS #1									
Sample ID MB-2809	SampTy	be: ME	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (	Organics	
Client ID: PBS	ID: PBS Batch ID: 2809 RunNo: 4013									
Prep Date: 7/12/2012	Analysis Dat	te: 7/	13/2012	5	SeqNo: 1	14850	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		113	77.6	140			

RunNo: 4013

%REC

SeqNo: 114851

LowLimit

TestCode: EPA Method 8015B: Diesel Range Organics

Units: mg/Kg

%RPD

**RPDLimit** 

Qual

HighLimit

Diesel Range O Surr: DNOP	Irganics (DRO)	38 4.9	10	50.00 5.000	0	76.7 98.1	52.6 77.6	130 140			
Sample ID	1207457-001AMS	SampTyp	e: MS		Tes	tCode: El	PA Method	8015B: Diese	el Range C	Drganics	
Client ID:	BatchQC	Batch IE	): <b>280</b>	09	F	RunNo: 4	013				
Prep Date:	7/12/2012	Analysis Date	e: 7/	13/2012	5	SeqNo: 1	14853	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (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	SampTyp	e: MS	D	Tes	tCode: EF	PA Method	8015B: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch ID	280	)9	F	RunNo: 40	013				

SPK value SPK Ref Val

Prep Date: 7/12/2012	Analysis D	ate: 7/	13/2012	S	SeqNo: 1	14854	Units: mg/K	g			
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.

Value above quantitation range Е

- Analyte detected below quantitation limits J
- RPD outside accepted recovery limits R

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

Blagg Engineering

WO#: 1207544

17-Jul-12

Project:	HUTCH	IN LS #1									
Sample ID	5ML RB	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8015B: Gase	oline Rang	е	
Client ID:	PBS	Batch	n ID: R4	018	R	unNo: 4	018				
Prep Date:		Analysis D	ate: 7/	13/2012	S	eqNo: 1	15422	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	ND	5.0								
Surr: BFB		970		1000		97.3	69.7	121			
Sample ID	2.5UG GRO LCS	SampT	ype: LC	S	Test	Code: El	PA Method	8015B: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	n ID: R4	018	R	unNo: 4	018				
Prep Date:		Analysis D	ate: 7/	13/2012	S	eqNo: 1	15423	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge 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	SampT	ype: MS	6	Test	Code: El	PA Method	8015B: Gaso	oline Rang	е	
Client ID:	#1 (North) @17' (	95 Batch	n ID: R4	018	R	unNo: 4	018				
Prep Date:		Analysis D	ate: 7/	13/2012	S	eqNo: 1	15442	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	5.0	24.45	0	93.0	85.4	147			
Surr: BFB		1000		977.9		104	69.7	121			
Sample ID	1207544-002AMS	D SampT	ype: MS	D	Test	Code: El	PA Method	8015B: Gaso	oline Rang	е	
Client ID:	#1 (North) @17' (	95 Batch	n ID: R4	018	R	unNo: 4	018				
Prep Date:		Analysis D	ate: 7/	13/2012	S	eqNo: 1	15443	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge 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	SampT	ype: LC	S	Test	Code: El	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	n ID: R4	018	R	unNo: 4	018				
Prep Date:		Analysis D	ate: 7/	13/2012	S	eqNo: 1	16144	Units: mg/k	(g		
		,									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Gasoline Rang	ge Organics (GRO)	Result 24	PQL 5.0	SPK value 25.00	SPK Ref Val 0	%REC 94.1	LowLimit 98.5	HighLimit 133	%RPD	RPDLimit	Qual S
Analyte Gasoline Rang Surr: BFB	ge Organics (GRO)	Result 24 1000	PQL 5.0	SPK value 25.00 1000	SPK Ref Val 0	%REC 94.1 103	LowLimit 98.5 69.7	HighLimit 133 121	%RPD	RPDLimit	Qual S
Analyte Gasoline Rang Surr: BFB	ge Organics (GRO) MB-2798	Result 24 1000 SampT	PQL 5.0 Type: ME	SPK value 25.00 1000 BLK	SPK Ref Val 0 Test	%REC 94.1 103 Code: EF	LowLimit 98.5 69.7 PA Method	HighLimit 133 121 8015B: Gase	%RPD	RPDLimit e	Qual S
Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	ge Organics (GRO) MB-2798 PBS	Result 24 1000 SampT Batch	PQL 5.0 Type: ME	SPK value 25.00 1000 BLK 98	SPK Ref Val 0 Test	%REC 94.1 103 Code: EF	LowLimit 98.5 69.7 PA Method	HighLimit 133 121 8015B: Gase	%RPD	RPDLimit e	Qual S
Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date:	ge Organics (GRO) MB-2798 PBS 7/12/2012	Result 24 1000 SampT Batch Analysis D	PQL 5.0 Type: ME 1D: 27 Pate: 7/	SPK value 25.00 1000 BLK 98 16/2012	SPK Ref Val 0 Test R S	%REC 94.1 103 COde: EF CunNo: 40 GeqNo: 1	LowLimit 98.5 69.7 PA Method 070 16535	HighLimit 133 121 8015B: Gaso Units: %RE	%RPD	RPDLimit	Qual S
Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	ge Organics (GRO) MB-2798 PBS 7/12/2012	Result 24 1000 SampT Batch Analysis D Result	PQL 5.0 Type: ME n ID: 27 Pate: 7/ PQL	SPK value 25.00 1000 3LK 98 16/2012 SPK value	SPK Ref Val 0 Tesi R SPK Ref Val	%REC 94.1 103 Code: EF CunNo: 44 SeqNo: 1 %REC	LowLimit 98.5 69.7 PA Method 070 16535 LowLimit	HighLimit 133 121 8015B: Gaso Units: %RE HighLimit	%RPD Dine Rang CC %RPD	RPDLimit e RPDLimit	Qual S Qual

#### Qualifiers:

**Client:** 

\*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

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

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WO#: 1207544

17-Jul-12

Client:	Blagg En	gineering								
Project:	нотсні	IN LS #1								
Sample ID	LCS-2798	SampType	LCS	Test	Code: EPAI	Method 8	8015B: Gasol	ine Rang	e	
Client ID:	LCSS	Batch ID:	2798	Ru	unNo: 4070					
Prep Date:	7/12/2012	Analysis Date:	7/16/2012	Se	eqNo: 1165	36	Units: %REC	:		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000	1000		103	69.7	121			
Sample ID	1207451-001AMS	SampType	MS	Test	Code: EPAI	Method 8	8015B: Gasol	ine Rang	e	
Client ID:	BatchQC	Batch ID:	2798	Ru	unNo: <b>4070</b>					
Prep Date:	7/12/2012	Analysis Date:	7/16/2012	Se	eqNo: 1165	38	Units: %REC			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Lo	owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		980	939.0		105	69.7	121			
Sample ID	1207451-001AMSI	SampType:	MSD	Test	Code: EPAI	Method 8	8015B: Gasol	ine Rang	9	
Client ID:	BatchQC	Batch ID:	2798	Ru	InNo: <b>4070</b>					
Prep Date:	7/12/2012	Analysis Date:	7/16/2012	Se	eqNo: 1165	39	Units: %REC			
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Lo	wLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000	961.5		104	69.7	121	0	0	

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

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

Client: Blagg Engineering

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**Project:** HUTCHIN LS #1

Sample ID 5ML RB	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batc	h ID: R4	018	ł	RunNo: 4	018					
Prep Date:	Analysis [	Date: 7/	/13/2012	:	SeqNo: 1	15460	Units: <b>mg</b> /l	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 I	_CS Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Batc	h ID: <b>R4</b>	018	F	RunNo: 4	018					
Prep Date:	Analysis [	Date: 7/	13/2012	ç	SeqNo: 1	15461	Units: mg/l	٨g			
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 1207543-001AI	MS Samp1	Type: MS	6	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: BatchQC	Batc	h ID: R4	018	F	RunNo: 4	018					
Prep Date:	Analysis E	Date: 7/	13/2012	5	SeqNo: 1	15463	Units: mg/k	(g			
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 1207543-001AI	VISD Samp1	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID: BatchQC	Batch	n ID: <b>R4</b>	018	F	RunNo: 4	018					
Prep Date:	Analysis D	ate: 7/	13/2012	5	SeqNo: 1	15464	Units: mg/h	(g			
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

WO#:

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WO#:	1207544
	17 <b>-Jul-</b> 12

Client:	Blagg En	gineering									
Project:	HUTCHI	N LS #1									
Sample ID	MB-2798	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	n ID: 27	798	F	RunNo: 4	070				
Prep Date:	7/12/2012	Analysis D	ate: 7	/16/2012	9	SeqNo: 1	16577	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		109	80	120			
Sample ID	LCS-2798	SampT	ype: L	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	1 ID: 27	798	F	RunNo: 4	070				
Prep Date:	7/12/2012	Analysis D	ate: 7	/16/2012	S	SeqNo: 1	16578	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.1		1.000		110	80	120			
Sample ID	1207519-001AMS	SampT	уре: М	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batch	n ID: 27	798	R	unNo: 4	070				
Prep Date:	7/13/2012	Analysis D	ate: 7	/16/2012	S	SeqNo: 1	16580	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	1.1		0.9560		115	80	120			
Sample ID	1207519-001AMS	) SampT	уре: М	SD	Test	Code: E	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batch	n ID: 27	98	R	unNo: 4	070				
Prep Date:	7/13/2012	Analysis D	ate: 7	/16/2012	S	eqNo: 1	16581	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	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 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

# Sample Log-In Check List

Clie	ent Name:	BLAGE	W	lork Or	der	Num	ber:	1207544
Rec	ceived by/date	: / <del>\</del>						
Log	ged By:	Lindsay Mangin	07/13/12 7/13/2012 10:05:00 AM				Ó	4444
Cor	mpleted By:	Lindsay Mangin	7/13/2012 10:20:57 AM				()	aly Mago
Rev	viewed By:	AP	07/13/12					
<u>Cha</u>	ain of Cust	tody	1 1 0					
1.	Were seals i	ntact?		Yes		No		Not Present
2.	Is Chain of C	Custody complete?		Yes	$\checkmark$	No		Not Present
3.	How was the	sample delivered?		Cour	ier			
Log	<u>ı In</u>							
4.	Coolers are p	present? (see 19. for co	oler specific information)	Yes	$\checkmark$	No		
5.	Was an atter	mpt made to cool the sa	mples?	Yes	$\checkmark$	No		
6.	Were all sam	nples received at a temp	perature of >0° C to 6.0°C	Yes	$\checkmark$	No		
7.	Sample(s) in	proper container(s)?		Yes	<b>V</b>	No		
8.	Sufficient sar	mple volume for indicate	ed test(s)?	Yes	$\checkmark$	No		
9.	Are samples	(except VOA and ONG	) properly preserved?	Yes	$\checkmark$	No		
10.	Was preserva	ative added to bottles?		Yes		No	$\checkmark$	NA 🗌
11.	VOA vials ha	ve zero headspace?		Yes		No		No VOA Vials 🗹
12.	Were any sai	mple containers receive	d broken?	Yes		No	$\checkmark$	
13.	Does paperw (Note discrep	ork match bottle labels bancies on chain of cust	? ody)	Yes	$\checkmark$	No		# of preserved bottles checked for pH:
14.	Are matrices	correctly identified on C	hain of Custody?	Yes	$\checkmark$	No		(<2 or >12 unless noted)
15.	Is it clear what	at analyses were reques	sted?	Yes	$\checkmark$	No		Adjusted?
16.	Were all hold	ling times able to be me	t?	Yes	$\checkmark$	No		
	(If no, notify c	customer for authorization	on.)					Checked by:
Spe	cial Handli	ing (if applicable)						
17.	Was client no	otified of all discrepancie	es with this order?	Yes		No		NA 🖌
	Person	Notified:	Date:					
	By Who	om:	Via:	eMai		] Ph	one	Fax In Person
	Regardi	ing:						-
	Client In	nstructions:						

18. Additional remarks:

#### 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes			

Client:	BLAG	g engr	/ BP AMERICA	Standard Project Name	Rush	7/16/12				A	NA	LY	SI	5 L	.AI	BO	R/		RY	
Mailing Ad	dress:	P.O. BO	X 87	HUTC	CHIN LS	苷 (	4901 Hawkins NE - Albuquerque, NM 87109													
		BLOOM	FIELD. NM 87413	Project #:			1	To	1 50	5-345	-207	- A	Fax	505.	-2/15	./110	7105			
Phone #		(505) 63	32-1199	-			Analysis Request													
email or Fa	ax#:	(/-		Project Manag	ger:					See State			(4)							
QA/QC Pac	IA/QC Package:			NELSON VELEZ			021B)	(Aluo !	/Diesel)				PO4, SC	CB's					9	Service and the service of the servi
Accreditati	on:			Sampler: NELSON VELEZ 915				82 P											mpl	
NELAP     Other				On ice: PYes DNo							03, h	/ 80		8			e sa			
	ype)	1	I	Sample Temp	erature: 4, 1			BE +	od 80	od 4	C D0	tals u	CI, N	cides	(A)	10A-	00.0	ple	posit	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	STEX +-MT	<b>3TEX + MT</b>	<b>TPH Metho</b>	IPH (Meth	DB (Meth	SCRA 8 Me	Anions. (F,	3081 Pesti	3260B (VO	3270 (Sem	Chloride (3	Grab sam	5 pt. com	
7/12/12	1109	5012	#5(WEST) @ 22 (95B	T) 4021	COOL	-001	Z		$\checkmark$						~			17		
7/12/12	1124	501L	#1(WARTH) e17 (9586T)	402-1	COOL	-002	7													
Thele	1235	2012	4pc-SWEIN (95 BET)	402-1	COOL	-003			Y									4PT-)	1	
Plizliz	1245	SOIL	#5(west)@24 (95 Ber)	4021	COOL	-004	V		$\overline{\mathbf{Z}}$									V	, , ,	╞
plaliz	12.57	2017	5PC-EBezz' (95BET)	402.1	COOL	-005			$\checkmark$											+
Date: 7/12./12 Date: 7/12.112	Time: 1430 Time: 1702	Relinquish	ed by: <u>hen M</u> ed by: N. the Jacoba	Received by: Mustine Received by:	Weeler	Date Time 7/12/12/1430 Date Time Date/12/1430	Rem BII Jef	nark L Di f Pea ork C	s: RECT ace, 2 Order:	TPH LY TO OO En	(801 BP: ergy	5 <b>B)</b> - Court 814	GRC , Farm P	<b>D &amp;</b> ningt ayke	DRC con, I	NM 8	<b>ILY.</b> 7401 പ്രം	LBE	r_	

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State of New Mexico Energy Minerals and Natural Resources

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

<sup>13</sup>Surface Waste Management Facility Oper and Generator shall maintain and make documentation available for Division inspec

Form C.

Revised March 12,

	Delite 1 0, I M C ( ) 00
REQUEST FOR AF	PPROVAL TO ACCEPT SOLED WASTE
I. Generator Name and Address:	
BP AMERICA 200 ENERGY CO	OURT FARMINGTON NEW MEXICO 87401
2. Originating Site:	Work Order # 10/570814
Hutchin LS 001	Pott 80254 Pay Key 745570
3. Location of Material (Street Address, City, Sta ULSECTIONT	OWNSHIP 31N RANGE 10W
4. Source and Description of Waster Turpacted Soil	7-18-12 30 cy
Tablacted Volume 14.0. ( wi <sup>3</sup> / bbla Vacuum V	150311
5 Ched Zellith , representative or Generator Signature and Phonet Ched Zellith , representative or certify that according to the Resource Conservation and regulatory determination, the above described waste is	THE CATION STATEMENT OF WASTE STATUS r authorized agent for BP AMERICA do hereby (1976) 759 - 6569 ad Recovery Act (RCRA) and the US Environmental Protection Agency's July 19 is: (Check the appropriate classification)
RCRA Exempt: Oil field wastes generated fr exempt waste <u>Operator Use Only: Waste Ac</u>	rom oil and gas exploration and production operations and are sed with non ccentance Frequency Monthly Weekly Per Loa
RCRA Non-Exempt: Oil field waste which is characteristics established in RCRA regulations, 4 subpart D, as amended. The following documents the appropriate items)	is non-hazardous that does not exceed the minimum standards hazardous 40 CFR 251.21-251.24, or listed hazardous waste as defined in hazardous tation is attached to demonstrate the above-described waste is not bus. (Che
🗇 MSDS Information 🔅 RCRA Hazardous Waste	e Analysis 📋 Process Knowledge 📋 Other (Provide descript 144)
GEMERATOR 19.15.36.15 WASTE THE , representative/Agent Signature representative samples of the oil field waste have been have been found to conform to the specific requirement of the representative samples are attached to demonstra 19.15.36 NMAC.	estime certification statement for Landram of the paint filter test and tested for chloride content and tested for chloride content and the paint filter test and tested for chloride content and tested for the paint filter test and tested for chloride content and tested for chloride content and tested for the paint filter test and tested for chloride content and test
5. Thursporter: Paul de Cause	
1401 4 3003	
OCD Bermitted Surface Waste Management Bacility	2
Name and Hacinty Permit #: JBJ Landfarm do Ini	Idustrial Boosystems, Inc. / NM. 01-001.0B
Address of Facility: #201 CR 5160 Asted FMI 874)	Ph-n
Method of Treatment and/or Disposal:	
Bvaporation Injection Tr	reating Plant 🕺 Landfarm 🔲 Landfill 🛄 Other
VI- ete Aloceptande Status:	TORNIED Officer Se Meinteiner de Serrement Serorr'
man L. Machala	Administrative Officer
Surface Waste Management Facility Authorized	Ageni FAX NO.: 505-334-1003