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
Riotstet IV District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rei	ease Notino	catio	n and Co	orrective A	ction	ı			
						OPERA'	ГOR		☐ Iniți	al Report	× F	Final Report
Name of Co	mpany: B	P				Contact: Ste	eve Moskal				15.000	20 (0)0
		Court, Farmi	ngton, N	M 87401			No.: 505-326-94					· ·
Facility Nar	ne: Jones	LS 001				Facility Typ	e: Natural gas v	well				
Surface Ow	ner: Feder	al		Mineral (	Owner:	Federal			API No	. 30045077	19	
	Latitude 36.68702°  Latitude 36.68702°  Region of Release: condensate and produced water arce of Release: Confirmed corrosion of a 300 bbl product in the same of Release: Whom?  Sa Watercourse Reached?  Yes No		LOCA	ATIO	N OF REI	LEASE						
Unit Letter	THE SET PLANT PROPERTY			Feet from the	North	/South Line	Feet from the	200000000000000000000000000000000000000	West Line	County: Sar	n Juan	
В	35				North		1,650	East				
		Latitu	de36.	68702°		_ Longitude	-107.64312°					
				NAT	TURE	OF RELI	EASE					
NATURE OF RELEASE  Type of Release: condensate and produced water  Source of Release: Confirmed corrosion of a 300 bbl production tank  Was Immediate Notice Given?  □ Yes □ No □ Not Required  By Whom?  □ Date and Hour: □ Date and Hour of Occurrence: □ Unknown □ Type of Release: Unknown □ Date and Hour of Occurrence: □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Occurrence: □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Occurrence: □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15 □ Type of Release: Unknown □ Date and Hour of Discovery: June 2 2016; 14:15					une 23,							
Was Immedia	ate Notice (						Whom?					
			Yes 🗵	No L Not R	equired			·				
		1 10								OIL CONS	S. DIV	DIST 2
Was a Water	course Read		Yes 🏻	l No		If YES, Vo	olume Impacting t	he Wat	ercourse.	_		DIO1. 3
			-	- (1900)						AUG	302	016
If a Watercou	irse was Im	pacted, Descri	be Fully.									
								ted sou	rce is an ur	lined earthen	pit. So	il was
						st IPH (US E	PA Method 8015	) at less	tnan 5,000	mg/Kg, BIE	.x and c	eniorides
				is true and comp nd/or file certain r								
				ce of a C-141 repo								
should their o	perations h	ave failed to a	dequately	investigate and r	emediat	e contaminati	on that pose a thr	eat to gr	round water	r, surface water	er, huma	an health
or the environ	nment. In a	ddition, NMO	CD accep	tance of a C-141	report d	loes not reliev	e the operator of	respons	ibility for c	ompliance wi	th any o	ther
		ws and/or regu	iations.				OIL CON	SERV	MONTA	DIVISIO	N	
Signature:	Mu ST	Tu)					OIL CON	JLIC V	ALION	DIVIDIO	7	
Signature:								9 00	1		0_	
Printed Name	: Steve Mo	skal				Approved by	Environmental S	pecialis		nouse	-	5
Title: Field E	nvironment	al Coordinato	r			Approval Dat	e:\\\3\30	6	Expiration	Date:		
E-mail Addre	ess: steven.r	noskal@bp.co	m			Conditions of	Approval:	-		Attached		Æ
D	. 24 2216		DI	505 226 0105		11/1	163084	000	00	Attached		
Date: August Attach Addit		ets If Necess		505-326-9497		TOVE	10000	111	14			
* ********* * ************************	TOTAL DITO	TT 1 100033	3									

# BP America Jones LS 1

(B) Sec 35 – T29N – R8W San Juan County, New Mexico API: 30-045-07719

### Summary Record of Impact Remediation

June 23, 2016 Soils impacted with hydrocarbons encountered during closure of a 95 barrel below grade tank (BGT). Original source of impacts not evident, but appeared to be historical in nature with no integrity issues found with the BGT, flowlines or other equipment. Shallow sandstone encountered approximately 4 feet below grade, with the BGT base set in sandstone at about 3' below surface grade.

Site Closure Standard Determined at 5,000 ppm TPH based on:

Horizontal distance to blue line on USGS Topo > 1,000 feet (0 points)

Nearest water well based on search of State Engineer's data base > 1,000 feet (0 points)

Depth to groundwater based BGT permit data search > 100 feet (0 points)

June 24, 2014 Receive rush lab results from BGT sample event:

Sample ID	Date/Time	Field OVM (ppm)	TPH Method 418.1 (mg/Kg)	TPH Method 8015B (GRO)	TPH Method 8015B (DRO) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
5-Point Comp @ Tank Base @ 5' depth	6/23/2016 @ 1415 pm	460	3,200	(mg/Kg)	890	ND	59.3	ND
Grab @ 8' Depth	6/23/2016 @ 1425 pm	548	NA	1,200	790	0.62	53.3	NA
Closure Standard			5,000	DRO+GRO	= 5,000	10	50	NA

<u>July 20, 2016</u> Begin site remediation via excavation into sandstone with trackhoe. Remedial hole size approximately 16' x 16' x 16' deep.

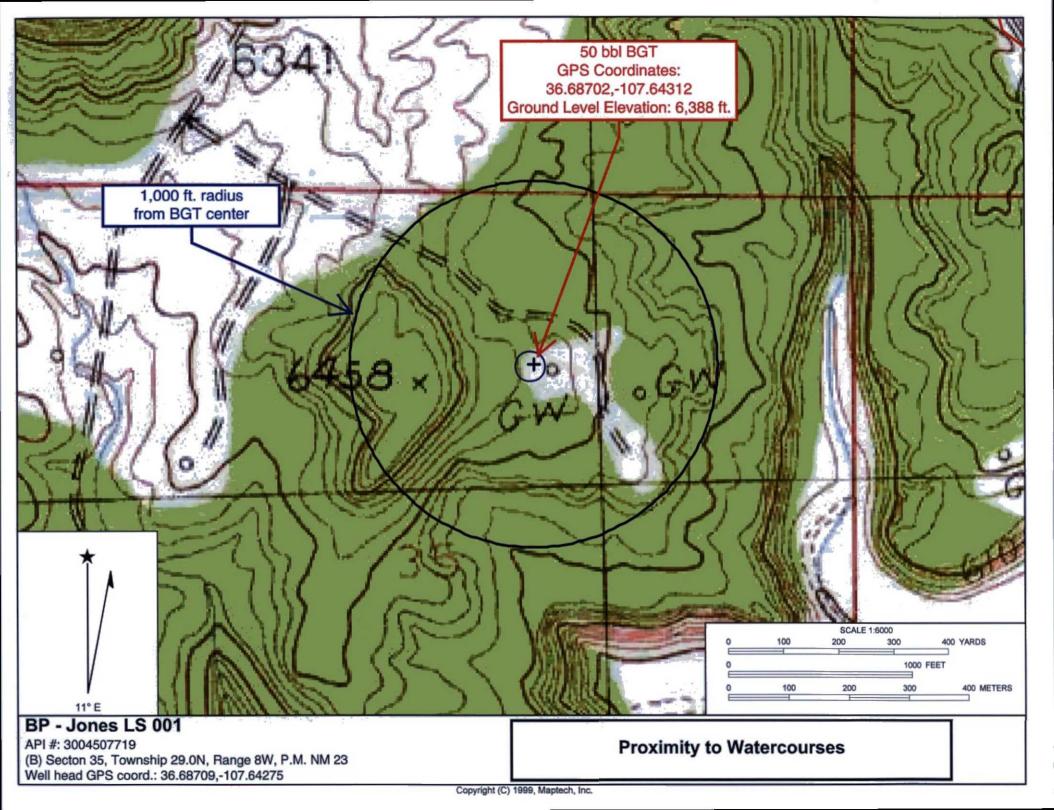
<u>July 21, 2016</u> Conduct closure sampling with NMOCD and BLM representatives on site. Concurrence with regulatory agencies on sampling composites from each sidewall and base and testing for BTEX only based on site closure standard and prior sample results.

July 22, 2016 Receive rush lab results from excavation sample event:

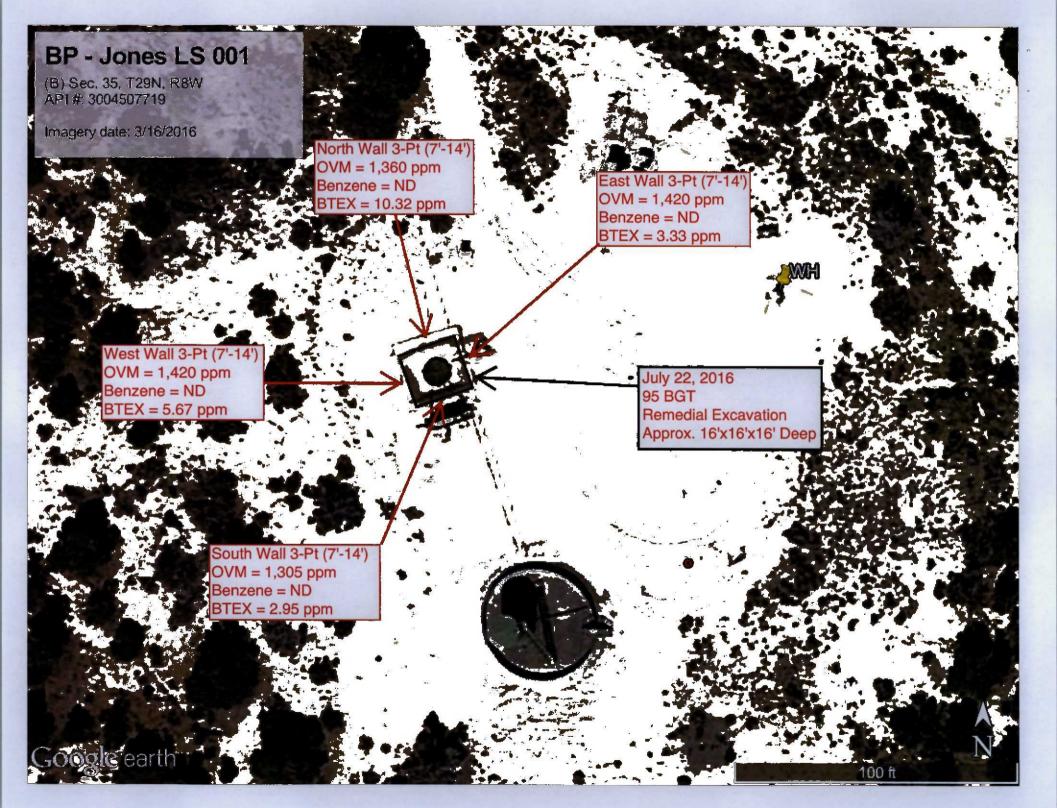
Sample ID	Date/Time	Field OVM (ppm)	Benzene (mg/Kg)	Total BTEX (mg/Kg)
Base 5-point @ 16'	7/21/2016 @ 1227 pm	1,328	ND	1.0
East Wall 3-Pt (7'-14')	7/21/2016 @ 1231 pm	1,420	ND	3.33
North Wall 3-Pt (7'-14')	7/21/2016 @ 1234 pm	1,360	ND	10.32
West Wall 3-Pt (7'-14')	7/21/2016 @ 1238 pm	1,420	ND	5.67
South Wall 3-Pt (7'-14')	7/21/2016 @ 1242 pm	1,305	ND	2.95
Closure Standard			10	50

July 26, 2016 Receive regulatory approval to close site based on laboratory results.

<u>July 27, 2016</u> Excavation crew completes backfilling operation. Total volume removed and transported to Envirotech landfarm approximately 150 cubic yards soil.



	DI ACC EI	NGINEERING, INC.										
CLIENT: BP	413	API#: 300450	7719									
CLENT:		LOOMFIELD, NM 87 5) 632-1199	415	TANK ID (if applicable):	<b>l</b>							
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / OTHER:		PAGE#:1 (	of							
SITE INFORMATION	I: SITE NAME: JONES	LS #1		DATE STARTED: 06/	23/16							
QUAD/UNIT: B SEC: 35 TWP:	29N RNG: 8W PM:	NM CNTY: SJ ST	: NM	DATE FINISHED:								
1/4-1/4/FOOTAGE: 990'N / 1,630		YPE: FEDERAL STATE / FEE /		ENVIRONMENTAL	1JV							
	ASE#: SF079938 PROD. FORMATION: MV CONTRACTOR: BP-J. GONZALES  REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.68709 X 107.642											
	The state of the s											
1)50 BGT (SW/DB)		.68702 X 107.64312										
2)				ARING FROM W.H.:								
3)	GPS COORD.:		-	ARING FROM W.H.:								
	GPS COORD.:		DISTANCE/BEA	ARING FROM W.H.:	OVM							
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OF	I M Shaha		0045D/0004D	(ppm)							
1) SAMPLE ID: 1 @ 8' (95				8015B/8021B	548							
2) SAMPLE ID:					+							
3) SAMPLE ID:												
4) SAMPLE ID:		SAMPLETIME: LABANA										
SOIL DESCRIPTION		ILT / SILTY CLAY / CLAY / GRAVEL OTH	ER BEDRO	CK (SANDSTONE)								
SOIL COLOR: MOSTLY DARK	YELLOWISH ORANGE	PLASTICITY (CLAYS): NON PLASTIC / SLIGH	HTLY PLASTIC / CO	COHESIVE / MEDIUM PLASTIC / HIG	HLY PLASTIC							
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC		DENSITY (COHESIVE CLAYS & SILTS): HC ODOR DETECTED: YES NO EXPLAN			1110							
MOISTURE: DRY/SLIGHTLYMOIST MOIST/WA		FROM DISCOLORED SOILS & BE	-	SICALLY & FIELD SUNELI	NING							
SAMPLE TYPE: GRAB COMPOSITE - #	OF PTS. NA	ANY AREAS DISPLAYING WETNESS: YES	S NO EXPLAN									
DISCOLORATION/STAINING OBSERVED: YES N	IO EXPLANATION - IN BEDROCK STA	ARTING @ 5 FT. BELOW GRADE (0										
SITE OBSERVATION												
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:		NATION: VISUAL DISCOLORATION	& PHYSICAL	L ODOR.	-							
OTHER: BEDROCK ENCOUNTERED BEL		ASE GRAVEL. APPEARS TEST H	IOLE (see sit	e sketch below) IS IMPACT	TED							
THROUGHOUT ENTIRE INTERAL (3 F	T.). NMOCD REPS, PRESENT DUF	RING SAMPLE COLLECTION.										
SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N	7 ft. X 7			TIMATION (Cubic Yards):	? 000 ppm							
		NEAREST SURFACE WATER: >1,0										
SHESKETCH	BGT Located : off on site	PLOT PLAN circle: at	4	-	pm RF=0.52							
PBGTL	FENCE	W.H.			DE (33/46							
T.B. ~5'	BERM		N		06/23/16							
B.G.			'	MISCELL. NO	TES							
/	SEPARATOR		_	VO:								
T.H. ①- S.P.D.			100	REF#: P - 585								
			-	ID: VHIXONEVB2	2							
STEEL				U#:								
CONTAINMENT			-		7/16							
7			Tan	nk OVM = Organic Vapor Me	2/16							
			A	ppm = parts per million								
PROD. TANK		v .		BGT Sidewalls Visible: Y /								
	NI SERBERGIAN DA - DELONODADE D- DE	X - S	-	BGT Sidewalls Visible: Y /								
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELO	ON DEPRESSION; B.G. = BELOW GRADE; B = BEL OWAGRADE TANK LOCATION; SPD = SAMPLE PO				0°E							
APPLICABLE OR NOT AVAILABLE; SW-SINGLE	EWALL; DW-DOUBLE WALL; SB-SINGLE BOTTO	OM; DB - DOUBLE BOTTOM.	1	lagricuc dediliation.	, _							
NOTES: GOOGLE EARTH IMAGE	ERY DATE: 3/16/2016.	ONSITE: 06/23/16			4							



### Lab Order 1606D35

Date Reported: 6/28/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: 1 @ 8' (95)

Project: Jones LS 1

Collection Date: 6/23/2016 2:25:00 PM

Lab ID: 1606D35-001

Matrix: MEOH (SOIL) Received Date: 6/24/2016 7:47:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS					Analyst	том
Diesel Range Organics (DRO)	790	100		mg/Kg	10	6/24/2016 11:10:08 AM	26050
Surr: DNOP	0	70-130	S	%Rec	10	6/24/2016 11:10:08 AM	26050
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	RAA
Gasoline Range Organics (GRO)	1200	41		mg/Kg	10	6/24/2016 1:14:10 PM	R35158
Surr: BFB	530	80-120	S	%Rec	10	6/24/2016 1:14:10 PM	R35158
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	0.62	0.21		mg/Kg	10	6/24/2016 1:14:10 PM	A35158
Toluene	5.3	0.41		mg/Kg	10	6/24/2016 1:14:10 PM	A35158
Ethylbenzene	3.4	0.41		mg/Kg	10	6/24/2016 1:14:10 PM	A35158
Xylenes, Total	44	0.83		mg/Kg	10	6/24/2016 1:14:10 PM	A35158
Surr: 4-Bromofluorobenzene	132	80-120	S	%Rec	10	6/24/2016 1:14:10 PM	A35158

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

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

### Lab Order 1607B34

Date Reported: 7/25/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: Base 5-pt @ 16'

Project: Jones LS 1

Collection Date: 7/21/2016 12:27:00 PM

Lab ID: 1607B34-001

Matrix: MEOH (SOIL) Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.096	mg/Kg	5	7/22/2016 10:15:47 AM	26539
Toluene	ND	0.19	mg/Kg	5	7/22/2016 10:15:47 AM	26539
Ethylbenzene	ND	0.19	mg/Kg	5	7/22/2016 10:15:47 AM	26539
Xylenes, Total	1.0	0.38	mg/Kg	5	7/22/2016 10:15:47 AM	26539
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	5	7/22/2016 10:15:47 AM	26539

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Lab Order 1607B34

Date Reported: 7/25/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: East Wall 3-pt (7'-14')

Project: Jones LS 1

Collection Date: 7/21/2016 12:31:00 PM

Lab ID: 1607B34-002

Matrix: MEOH (SOIL) Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES	3 2 2 4 1 3 1		n varieti e		Analys	t: NSB
Benzene	ND	0.10	mg/Kg	5	7/22/2016 10:39:16 AM	1 26539
Toluene	ND	0.20	mg/Kg	5	7/22/2016 10:39:16 AM	1 26539
Ethylbenzene	0.23	0.20	mg/Kg	5	7/22/2016 10:39:16 AM	1 26539
Xylenes, Total	3.1	0.40	mg/Kg	5	7/22/2016 10:39:16 AM	1 26539
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	5	7/22/2016 10:39:16 AM	1 26539

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Lab Order 1607B34

Date Reported: 7/25/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: North Wall 3-pt (7'-14')

Project: Jones LS 1

Collection Date: 7/21/2016 12:34:00 PM

Lab ID: 1607B34-003

Matrix: MEOH (SOIL) Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.098	mg/Kg	5	7/22/2016 11:02:46 AM	A 26539
Toluene	1.1	0.20	mg/Kg	5	7/22/2016 11:02:46 AM	1 26539
Ethylbenzene	0.62	0.20	mg/Kg	5	7/22/2016 11:02:46 AM	1 26539
Xylenes, Total	8.6	0.39	mg/Kg	5	7/22/2016 11:02:46 AM	1 26539
Surr: 4-Bromofluorobenzene	119	80-120	%Rec	5	7/22/2016 11:02:46 AM	1 26539

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Lab Order 1607B34

Date Reported: 7/25/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: West Wall 3-pt (7'-14')

Project: Jones LS 1

Collection Date: 7/21/2016 12:38:00 PM

Lab ID: 1607B34-004

Matrix: MEOH (SOIL) Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.096	mg/Kg	5	7/22/2016 11:26:22 A	M 26539
Toluene	0.68	0.19	mg/Kg	5	7/22/2016 11:26:22 A	M 26539
Ethylbenzene	0.39	0.19	mg/Kg	5	7/22/2016 11:26:22 A	M 26539
Xylenes, Total	4.6	0.39	mg/Kg	5	7/22/2016 11:26:22 A	M 26539
Surr: 4-Bromofluorobenzene	113	80-120	%Rec	5	7/22/2016 11:26:22 A	M 26539

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Lab Order 1607B34

Date Reported: 7/25/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: South Wall 3-pt (7'-14')

Project: Jones LS 1

Collection Date: 7/21/2016 12:42:00 PM

Lab ID: 1607B34-005

Matrix: MEOH (SOIL) Received Date: 7/22/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.098	mg/Kg	5	7/22/2016 11:49:55 AM	A 26539
Toluene	ND	0.20	mg/Kg	5	7/22/2016 11:49:55 AM	A 26539
Ethylbenzene	0.25	0.20	mg/Kg	5	7/22/2016 11:49:55 AM	A 26539
Xylenes, Total	2.7	0.39	mg/Kg	5	7/22/2016 11:49:55 AM	A 26539
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	5	7/22/2016 11:49:55 AM	A 26539

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

C	nain-c	of-Cus	tody Record	Turn-Around	rime:	SAME				н	ΔI	l F	١N	/T	30	NI	ИF	N	ΓΔΙ	L	
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			200	Project Name		The state of the s			1	١	vww	halle	enviro	onm	enta	l.con	n				
/ailing A	ddress:	P.O. BO	X 87	1	JONES LS #	‡ <b>1</b>		49	01 H	awki	ns Ni	- A	lbuq	uerq	ue, I	MI S	3710	9			
		BLOOM	FIELD, NM 87413	Project #:				Te	l. 50	5-34	5-397	75	Fax	505	345	-410	7			15	
hone #:		(505) 63	2-1199									Ana	lysis	Re	que	st					
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≥A/QC Pa			Level 4 (Full Validation)		NELSON VI	ELEZ	(8021B)	s only)	/AMBe)		15		PO4,SC	2 PCB's			water - 30			e	
ccredita	tion:	S. 7. 1.		Sampler:	NELSON VI	ELEZ 977	- S	l (Ga	DRO	ਜ	न्		Š	808		1	ı ~ı	1-01		d m	٥
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EDD (	Type)			Sample Temp	erature: 2	4	1	BE +	(GR	poc	g ,	ta ta		icid	8	-i-	oil.	11/2	ble	jsoc	2 (4
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (6510 of 62703)(NIS)	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil	W. H.	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
123/16	1425	SOIL	De8 (95)	402-1	Coor	-001	/		<b>V</b>								1		/		
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ate: 23 6/22/16	1539	1	Mul	A hatt	ed Daster	a 4/23/16 1539				ADDRESS	nce F	ALC: NAME: N	/ID&R	teve					<u>BLE;</u> Ritchi	•	
ate:	Time:	Relinquishe	ed by:	Received by:	1	Date Time	1		VID:		IXON			MOS					JWFE		
23/12	1844	Chi	nating la beter	Y U	and	06/29/16	Ref	eren	ce#		P - 58	35				_				-	
	If necessary	, samples sub	mitted to Hall Environmental may be	subcontracted to other	accredited laboratorie	es. This serves as notice	of this	possi	bility.	Any sul	-contra	cted d	ata will	be cle	arly n	otated	on the	analy	tical re	port.	

C	hain-	of-Cu	istody Record	i urn-Around	lime:	SAME DAY							E	NV	TE	20	N	ЛE	NT	ΔI	
ıt:	BP /	AMERIC	cA	☐ Standard	<b>★</b> Rush	SAME DAY	-												TO		
			NEERING INC.	Project Name										iron							
ng	Address		AND THE	JON	ES LS.	1		490	11 H								M 87	109			
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ne :	#: 505	-320	-1183	1					. 00	0 0 1	0 00			sis							
	r Fax#:			Project Mana	ger:		_	ly)	0					(4)						T	T
	Package:		□ Level 4 (Full Validation)	J.	BLAGG		\$ (8021)	TPH (Gas only)	NO/MF			SIMS)		CI,NO3,NO2,PO4,SO4)	PCB's						
red	itation AP	□ Othe	er	Sampler: J	BLAGO Yes	Ş. □ No			30 / DF	18.1)	04.1)	8270		3,NO2,	/ 8082		A)				or N
DD	(Type)_			Sample Tem	perature: 3	1-2.00 = 11	#	BE	9	4 0	d 5	0 or	stals	N'I	ides	8	9				2
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + MA	BTEX + MTBE +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,C	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
16	1227	SOIL	BASE 5-pt @ 16	400×1	COOL	-001	X		,												
	1231	1¢	EAST WALL 3-PE (7'-14') NORTH WALL 3-PE	16	K	-002	X														
	1234	11	NORTH WALL 3- PE	11	10	-002	X													T	
	1238	ι(	WEST WALL 3-PE (7-14) SOUTH WALL 3-PE	ε(	L(	-mi	X													T	
	1242	ις	SOUTH WALL 3-PE	16	1(	-05	X												-	Ŧ	-
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16	Time: 1631	Relinquish	Blogg	Received by:	What	The Time	Ren	nark	1	BILL	B	P	STE	EVE	. 1	1051	CAL				
liv	Time: 1840	Relinquish	etw/while	Received by	107	Date Time				٧	110	: 1	/DR	ואז	<w< td=""><td>JA</td><td>1</td><td></td><td></td><td></td><td></td></w<>	JA	1				
1		Lameter aut	- Want to Mall Forder-world work he sub-	Vaniture at beatmenters		7.0															

## Hall Environmental Analysis Laboratory, Inc.

Result

ND

8.9

10

10.00

WO#:

**RPDLimit** 

Qual

%RPD

130

1606D35

28-Jun-16

Client:

**Blagg Engineering** 

Project:

Diesel Range Organics (DRO)

Surr: DNOP

Jones LS 1

Sample ID LCS-26050 Client ID: LCSS	SampType Batch ID	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 35139							
Prep Date: 6/24/2016	Analysis Date	6/24/2016	5	SeqNo: 1	087276	Units: mg/k	(g		
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
Diesel Range Organics (DRO)	39	10 50.00	0 0	77.9	62.6	124			
Surr: DNOP	4.2	5.000	)	83.2	70	130			
Sample ID MB-26050	SampType	e: MBLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID	26050	F	RunNo: 3	5139				
Prep Date: 6/24/2016	Analysis Date	6/24/2016	5	SegNo: 1	087277	Units: mg/K	(a		

SPK value SPK Ref Val %REC LowLimit HighLimit

89.0

70

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 2 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1606D35

28-Jun-16

Client:

**Blagg Engineering** 

Project:

Jones LS 1

Sample ID 5ML-RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: R35158

RunNo: 35158

Prep Date:

Analysis Date: 6/24/2016

SeqNo: 1087655

Units: mg/Kg

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

Gasoline Range Organics (GRO) ND 5.0

970

1000

97.3

HighLimit

120

%RPD **RPDLimit** 

Qual

Surr: BFB Sample ID 2.5NG GRO LCS

LCSS

TestCode: EPA Method 8015D: Gasoline Range

SampType: LCS Batch ID: R35158

RunNo: 35158

80

Client ID: Prep Date:

Analysis Date: 6/24/2016

SeqNo: 1088007 %REC

Units: mg/Kg

Qual

Gasoline Range Organics (GRO)

Result **PQL** 

SPK value SPK Ref Val 5.0 25.00

80

HighLimit 120 **RPDLimit** 

Analyte Surr: BFB

25 1100

1000

99.4 113

80

%RPD

120

LowLimit

# Qualifiers:

H

R

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Page 3 of 4

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

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1606D35

28-Jun-16

Client:

Blagg Engineering

Project:

Jones LS 1

Sample ID 5ML-RB	Samn'	Type: MI	DI K	Too	tCode: E	DA Mothod	8021B: Vola	tilee		
Sample ID SMIL-RB	SampType: MBLK			163						
Client ID: PBS	Batc	h ID: A3	5158	F	5158					
Prep Date:	Analysis [	Date: 6/	24/2016	8	SeqNo: 1	087658	Units: mg/F	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1 000		95.4	80	120			

Sample ID 100NG BTEX LC	Samp1	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: A3	5158	F	RunNo: 3	5158				
Prep Date:	Analysis D	ate: 6/	24/2016	8	SeqNo: 1	088011	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	75.3	123			
Toluene	0.85	0.050	1.000	0	85.5	80	124			
Ethylbenzene	0.85	0.050	1.000	0	85.5	82.8	121			
Xylenes, Total	2.5	0.10	3.000	0	84.8	83.9	122			
Surr: A-Bromofluorobenzene	1.0		1 000		103	80	120			

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE. Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: BLAGG	Work Ord	er Number:	1606D	35		RcptNo:	1
		1			· · · · · · · · · · · · · · · · · · ·	1 CON 18 WAR COLUMN 16 S 16 S 16 CO	
Received by/date:	09/24/	11					į
Logged By: Lindsay Man	gin 6/24/2016 7	:47:00 AM			Standy Harges		F
Completed By: Lindsay Man	gin 6/24/2016 7	:57:36 AM			Souly Allego		ì
Reviewed By:	06/24	1/16					
Chain of Custody	04/27	110			4		
1. Custody seals intact on sam	ple bottles?		Yes		No 🗆	Not Present	
2. Is Chain of Custody complet	T		Yes	*	No 🗆	Not Present	
3. How was the sample deliver	ed?		Couri	er			
Log In							
Was an attempt made to co	of the samples?		Yes		No 🗆	NA 🗆	
5. Were all samples received a	at a temperature of >0° C to	6.0°C	Yes		No 🗆	NA 🗆	
6. Sample(s) in proper contain	er(s)?		Yes		No 🗆		
7. Sufficient sample volume for	r indicated test(s)?		Yes		No 🗆		
8. Are samples (except VOA a	1994-74 (77R-	2	Yes		No 🗆		
Was preservative added to I	in 6/ /m/ =//r				No 🗹	NA 🗆	
O. Prao processario addes to .					•		
10.VOA vials have zero heads;	pace?		Yes		No 🗆	No VOA Vials	
11. Were any sample container	s received broken?		Yes	Ш	No 🐼	# of preserved	
40.5			v	<b>A</b>	No 🗆	bottles checked for pH:	
<ol><li>Does paperwork match bott (Note discrepancies on chair</li></ol>			Yes		NO L		r >12 unless noted)
13. Are matrices correctly identi			Yes	*	No 🗆	Adjusted?	
14. Is it clear what analyses we	re requested?		Yes	*	No 🗆		
15. Were all holding times able (If no, notify customer for au			Yes		No 🗆	Checked by:	
(ii no, notify education to de	in the lead of the						
Special Handling (if appl	icable)						
16. Was client notified of all disc			Yes		No 🗆	NA 🜌	
Person Notified:	MANAGEMENT AND DESCRIPTION OF THE PROPERTY OF	Date:	-	-	***************************************		
By Whom:	THE REAL PROPERTY AND ADDRESS OF THE PARTY O	Via: [	eMa	il 🗌	Phone Fax	In Person	
Regarding:	THE WORLD WILLIAM STREET, STRE	************		Vearve			
Client Instructions:		-			THE RESERVE OF THE PARTY OF THE		
17. Additional remarks:							1
18. Cooler Information							
Cooler No Temp °C	Condition   Seal Intact   S	Seal No	Seal Da	ite	Signed By		
	Good Yes						

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1607B34

25-Jul-16

Client:

**Blagg Engineering** 

Project:

Jones LS 1

Sample ID MB-26539	SampType: M	Tes							
Client ID: PBS	Batch ID: 2	6539	F	RunNo: 3	5917				
Prep Date: 7/21/2016	Analysis Date: 7	/22/2016	S	SeqNo: 1	112184	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.025								
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Xylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	0.96	1.000	17.45	96.3	80	120			
Sample ID LCS-26539	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 2	5539	R	tunNo: 3	5917				
Prep Date: 7/21/2016	Analysis Date: 7	/22/2016	S	eqNo: 1	112185	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
	Result PQL 1.0 0.025		SPK Ref Val	%REC 101	LowLimit 75.3	HighLimit 123	%RPD	RPDLimit	Qual
Analyte Genzene Foluene		1.000					%RPD	RPDLimit	Qual
Benzene Toluene	1.0 0.025	1.000 1.000	0	101	75.3	123	%RPD	RPDLimit	Qual
Benzene	1.0 0.025 0.95 0.050	1.000 1.000 1.000	0	101 94.8	75.3 80	123 124	%RPD	RPDLimit	Qual

#### Qualifiers:

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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, 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	1607B34		RcptNo:	1
Received by/date:	C7 771				
Logged By: Lindsay Mangin	7/22/2016 7:20:00 AM		of 4th go		
Completed By: Lindsay Mangin	7/22/2016 7:51:01 AM		And Hope		
Reviewed By:	01/22/16		000		
Chain of Custody	Officerie				
Custody seals intact on sample bottles?	*	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool the sample	s?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperatu	ure of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated tes	it(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?		Yes 🔲	No 🗆	No VOA Vials	
11. Were any sample containers received bro	oken?	Yes	No 🗹	#	
		_		# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗆		
15. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)					
Special Handling (if applicable)					•
16. Was client notified of all discrepancies with	th this order?	Yes 🗆	No 🗆	NA 🗹	
Person Notified:	Date				1
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:					1
Client Instructions:				- W	
17. Additional remarks:					
18. Cooler Information					40
Cooler No Temp °C Condition		Seal Date	Signed By		
1 1.1 Good	/es				¥ &