

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

DEC 21 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Jones A LS 1	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004507537	

LOCATION OF RELEASE

Unit Letter N	Section 10	Township 28N	Range 08W	Feet from the 800	North/South Line South	Feet from the 1,550	East/West Line West	County: San Juan
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Latitude 36.670657° Longitude -107.672321°

NATURE OF RELEASE

Type of Release: condensate and produced water	Volume of Release: Unknown	Volume Recovered: none
Source of Release: Confirmed corrosion of a 300 bbl production tank <i>sm BGT- Historic Earthen Pit</i>	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: October 19, 2015 at 3:30PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Soils impacted with hydrocarbons encountered during modification upgrade of 95 bbl BGT from single wall/single bottom to double wall/double bottom BGT. Impacts found immediately below BGT, but there was no evidence of an integrity issue with the BGT or piping. Suspected source is an unlined earthen pit closed sometime prior to July 1998. Soil was excavated to practical extents and oxidizer applied to remaining impacts. Soil samples were collected for laboratory analysis and a report is attached.

Describe Area Affected and Cleanup Action Taken.* Site remediation by excavation of impacts with trackhoe. Final excavation size two-tiered excavation: Outer tier 24' x 24' x 5' deep; Inner tier 14' x 14' x 9' deep. Final C-138 attached with soil volume of 50 cubic yards. Sidewall samples all test TPH (US EPA Method 8015) at less than 100 mg/Kg, BTEX and chlorides below laboratory detection limits. Base composite sample tested BTEX and Chlorides below laboratory detection limits. TPH reported at 2,409 mg/Kg. Laboratory reports are attached. BP proposes to apply potassium permanganate to the excavation base to augment remediation, followed by backfilling. Photo of potassium permanganate application is attached. NMOCD and BLM approve of remedial action as documented in attached emails.

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

Signature: <i>Steve Moskal</i>	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: <u>12/29/2015</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: December 21, 2015	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

NCS 1533531914

BP America: Jones A LS 1
(N) Sec 10 – T28N – R8W
API: 30-045-07537
San Juan County, New Mexico

Summary Record of Impact Remediation

October 19, 2015 Soils impacted with hydrocarbons encountered during modification upgrade of 95 bbl BGT from single wall/single bottom to double wall/double bottom BGT. Impacts found immediately below BGT, but there was no evidence of an integrity issue with the BGT or piping. Suspected source from BGT being installed into a previous unlined earthen pit sometime prior to July 1998.

Site Closure Standard Determined at 100 ppm TPH based on information from site BGT upgrade permit signed by NMOCD on Oct 15, 2015:

Horizontal Distance to Closest USGS Blue Line < 200 feet (20 points)
Nearest Water Well > 1,000 feet (0 points)
Depth to Groundwater >100 feet (0 points)

December 4, 2015 Initiate and complete remediation of site by excavation of impacts with trackhoe. Final excavation size two-tiered excavation: Outer tier 24' x 24' x 5' deep; Inner tier 14' x 14' x 9' deep. Collect 3-point composite samples of North, West, South and East sidewalls and 5-point composite sample of base. Entire excavation in dense sandstone, with base especially dense.

December 7, 2015 Receive rush laboratory lab reports. Sidewall samples all test TPH (US EPA Method 8015) at less than 100 mg/Kg, BTEX at non-detect and chlorides at non-detect. Base composite sample tested BTEX and Chlorides at non-detect, with TPH reported at 2,409 mg/Kg. BP receives approval from regulatory agencies to apply the oxidizer potassium permanganate to the excavation to augment remediation, followed by backfilling.

December 8, 2015 Impacted soils transported to JFJ Landfarm in San Juan County, New Mexico. Final C-138 soil volume = 50 cubic yards.

BP - Jones A LS 001

Unit Letter (N), Sec. 10, T28N, R8W
API #: 300-45-07537

Imagery Date: 05/02/2013.



Inner Excavation
14'x14'x9' Deep
(All within dense sandstone)

Outer Excavation
24'x24'x5' Deep
(to top of dense sandstone)





EA - Jones ALS 1 - Remedial Excavation - Dec 4, 2015

Inner Excavation
14' x 14' x 4' Deep
all white, dense Sandstone





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

December 08, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX

RE: Jones A LS 1

OrderNo.: 1512248

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/5/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1512248

Date Reported: 12/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Wall 3-point 4.5-8

Project: Jones A LS 1

Collection Date: 12/4/2015 10:53:00 AM

Lab ID: 1512248-001

Matrix: MEOH (SOIL)

Received Date: 12/5/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/7/2015 11:39:27 AM	22657
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/7/2015 10:03:07 AM	22646
Surr: DNOP	89.1	70-130		%REC	1	12/7/2015 10:03:07 AM	22646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	12/7/2015 9:51:02 AM	A30653
Surr: BFB	86.9	66.2-112		%REC	1	12/7/2015 9:51:02 AM	A30653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.039		mg/Kg	1	12/7/2015 9:51:02 AM	B30653
Toluene	ND	0.039		mg/Kg	1	12/7/2015 9:51:02 AM	B30653
Ethylbenzene	ND	0.039		mg/Kg	1	12/7/2015 9:51:02 AM	B30653
Xylenes, Total	ND	0.079		mg/Kg	1	12/7/2015 9:51:02 AM	B30653
Surr: 4-Bromofluorobenzene	114	80-120		%REC	1	12/7/2015 9:51:02 AM	B30653

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

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

Analytical Report

Lab Order 1512248

Date Reported: 12/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 3-point 4.5-8

Project: Jones A LS 1

Collection Date: 12/4/2015 10:57:00 AM

Lab ID: 1512248-002

Matrix: MEOH (SOIL)

Received Date: 12/5/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/7/2015 11:51:52 AM	22657
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	12/7/2015 10:24:50 AM	22646
Surr: DNOP	90.5	70-130		%REC	1	12/7/2015 10:24:50 AM	22646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/7/2015 10:15:30 AM	A30653
Surr: BFB	83.8	66.2-112		%REC	1	12/7/2015 10:15:30 AM	A30653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/7/2015 10:15:30 AM	B30653
Toluene	ND	0.047		mg/Kg	1	12/7/2015 10:15:30 AM	B30653
Ethylbenzene	ND	0.047		mg/Kg	1	12/7/2015 10:15:30 AM	B30653
Xylenes, Total	ND	0.094		mg/Kg	1	12/7/2015 10:15:30 AM	B30653
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	12/7/2015 10:15:30 AM	B30653

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

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

Analytical Report

Lab Order 1512248

Date Reported: 12/8/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: North Wall 3-point 4.5-8

Project: Jones A LS 1

Collection Date: 12/4/2015 11:01:00 AM

Lab ID: 1512248-003

Matrix: MEOH (SOIL)

Received Date: 12/5/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/7/2015 12:04:17 PM	22657
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	12/7/2015 10:46:35 AM	22646
Surr: DNOP	88.2	70-130		%REC	1	12/7/2015 10:46:35 AM	22646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.3		mg/Kg	1	12/7/2015 10:40:08 AM	A30653
Surr: BFB	89.5	66.2-112		%REC	1	12/7/2015 10:40:08 AM	A30653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.053		mg/Kg	1	12/7/2015 10:40:08 AM	B30653
Toluene	ND	0.053		mg/Kg	1	12/7/2015 10:40:08 AM	B30653
Ethylbenzene	ND	0.053		mg/Kg	1	12/7/2015 10:40:08 AM	B30653
Xylenes, Total	ND	0.11		mg/Kg	1	12/7/2015 10:40:08 AM	B30653
Surr: 4-Bromofluorobenzene	117	80-120		%REC	1	12/7/2015 10:40:08 AM	B30653

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** East Wall 3-point 4.5-8
Project: Jones A LS 1 **Collection Date:** 12/4/2015 11:04:00 AM
Lab ID: 1512248-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/5/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/7/2015 12:16:41 PM	22657
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2015 11:08:21 AM	22646
Surr: DNOP	91.4	70-130		%REC	1	12/7/2015 11:08:21 AM	22646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/7/2015 11:04:46 AM	A30653
Surr: BFB	86.9	66.2-112		%REC	1	12/7/2015 11:04:46 AM	A30653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	12/7/2015 11:04:46 AM	B30653
Toluene	ND	0.046		mg/Kg	1	12/7/2015 11:04:46 AM	B30653
Ethylbenzene	ND	0.046		mg/Kg	1	12/7/2015 11:04:46 AM	B30653
Xylenes, Total	ND	0.091		mg/Kg	1	12/7/2015 11:04:46 AM	B30653
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	12/7/2015 11:04:46 AM	B30653

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
 Project: Jones A LS 1
 Lab ID: 1512248-005

Client Sample ID: Base 5-pt @ 9'
 Collection Date: 12/4/2015 11:09:00 AM
 Matrix: MEOH (SOIL) Received Date: 12/5/2015 9:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	12/7/2015 12:29:06 PM	22657
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	2400	100		mg/Kg	10	12/7/2015 12:35:15 PM	22646
Surr: DNOP	0	70-130	S	%REC	10	12/7/2015 12:35:15 PM	22646
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.3	4.1		mg/Kg	1	12/7/2015 11:29:24 AM	A30653
Surr: BFB	174	66.2-112	S	%REC	1	12/7/2015 11:29:24 AM	A30653
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.041		mg/Kg	1	12/7/2015 11:29:24 AM	B30653
Toluene	ND	0.041		mg/Kg	1	12/7/2015 11:29:24 AM	B30653
Ethylbenzene	ND	0.041		mg/Kg	1	12/7/2015 11:29:24 AM	B30653
Xylenes, Total	ND	0.082		mg/Kg	1	12/7/2015 11:29:24 AM	B30653
Surr: 4-Bromofluorobenzene	139	80-120	S	%REC	1	12/7/2015 11:29:24 AM	B30653

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512248

08-Dec-15

Client: Blagg Engineering

Project: Jones A LS 1

Sample ID	MB-22657	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	22657	RunNo	30664					
Prep Date	12/7/2015	Analysis Date	12/7/2015	SeqNo	936838	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22657	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	22657	RunNo	30664					
Prep Date	12/7/2015	Analysis Date	12/7/2015	SeqNo	936839	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512248

08-Dec-15

Client: Blagg Engineering

Project: Jones A LS 1

Sample ID	MB-22646	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	22646	RunNo	30645					
Prep Date	12/7/2015	Analysis Date	12/7/2015	SeqNo	936165	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.4		10.00		93.7	70	130			

Sample ID	LCS-22646	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	22646	RunNo	30645					
Prep Date	12/7/2015	Analysis Date	12/7/2015	SeqNo	936259	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	57.4	139			
Surr: DNOP	4.7		5.000		94.2	70	130			

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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512248

08-Dec-15

Client: Blagg Engineering

Project: Jones A LS 1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	A30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936685	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.5	66.2	112			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	A30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936686	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	80.2	79.6	122			
Surr: BFB	940		1000		94.3	66.2	112			

Sample ID	1512248-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	South Wall 3-point 4	Batch ID:	A30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936687	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.9	19.73	0	87.2	62.5	151			
Surr: BFB	810		789.3		103	66.2	112			

Sample ID	1512248-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	South Wall 3-point 4	Batch ID:	A30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936688	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.9	19.73	0	86.9	62.5	151	0.414	22.1	
Surr: BFB	790		789.3		100	66.2	112	0	0	

Sample ID	MB-22637	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	22637	RunNo:	30653					
Prep Date:	12/4/2015	Analysis Date:	12/7/2015	SeqNo:	936696	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	770		1000		77.2	66.2	112			

Sample ID	LCS-22637	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	22637	RunNo:	30653					
Prep Date:	12/4/2015	Analysis Date:	12/7/2015	SeqNo:	936697	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	66.2	112			

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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512248

08-Dec-15

Client: Blagg Engineering

Project: Jones A LS 1

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936721	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936722	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.0	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	80	120			S

Sample ID	1512248-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	West Wall 3-point 4.	Batch ID:	B30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936723	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.047	0.9381	0	91.3	69.6	136			
Toluene	0.83	0.047	0.9381	0	88.3	76.2	134			
Ethylbenzene	0.88	0.047	0.9381	0	93.8	75.8	137			
Xylenes, Total	2.6	0.094	2.814	0	90.9	78.9	133			
Surr: 4-Bromofluorobenzene	1.2		0.9381		126	80	120			S

Sample ID	1512248-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	West Wall 3-point 4.	Batch ID:	B30653	RunNo:	30653					
Prep Date:		Analysis Date:	12/7/2015	SeqNo:	936724	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.047	0.9381	0	92.9	69.6	136	1.78	20	
Toluene	0.84	0.047	0.9381	0	89.3	76.2	134	1.14	20	
Ethylbenzene	0.90	0.047	0.9381	0	96.0	75.8	137	2.32	20	
Xylenes, Total	2.6	0.094	2.814	0	92.8	78.9	133	2.05	20	
Surr: 4-Bromofluorobenzene	1.2		0.9381		125	80	120	0	0	S

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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512248

08-Dec-15

Client: Blagg Engineering

Project: Jones A LS 1

Sample ID	MB-22637	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	22637	RunNo:	30653					
Prep Date:	12/4/2015	Analysis Date:	12/7/2015	SeqNo:	936732	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID	LCS-22637	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	22637	RunNo:	30653					
Prep Date:	12/4/2015	Analysis Date:	12/7/2015	SeqNo:	936733	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.3		1.000		131	80	120			S

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
- P Sample pH Not In Range
- RL Reporting Detection Limit



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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1512248**

RcptNo: **1**

Received by/date:

[Signature]

12/05/15

Logged By: **Lindsay Mangin**

12/5/2015 9:30:00 AM

[Signature]

Completed By: **Lindsay Mangin**

12/5/2015 10:11:50 AM

[Signature]

Reviewed By:

[Signature]

12/05/15

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly 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 broken? Yes No

12. Does paperwork match bottle labels? Yes No

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody? Yes No

14. Is it clear what analyses were requested? Yes No

15. Were all holding times able to be met? Yes No

(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

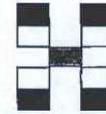
18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Yes			

Chain-of-Custody Record

Client: BP America
BLAGG Engineering
 Mailing Address:
 Phone #: 505-370-1103
 email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush ASAP SAME DAY
 Project Name:
JONES A LS 1
 Project #:
 Project Manager:
J. BLAGG
 Sampler: J. BLAGG
 On Ice: Yes No
 Sample Temperature: 1.9



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE-TMPs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
12/4/2015	1053	SOIL	South wall 3-point 4 1/2 - 8	4 oz x 1	COOL	1512448 -001	X	X										X	
"	1057	"	West wall 3-point 4 1/2 - 8	"	"	-002	X	X										X	
"	1101	"	North wall 3-point 4 1/2 - 8	"	"	-003	X	X										X	
"	1104	"	EAST wall 3-point 4 1/2 - 8	"	"	-004	X	X										X	
"	1109	"	BASE 5-pt @ 9'	"	"	-005	X	X										X	

Date: <u>12/4/2015</u>	Time: <u>1625</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>12/4/2015</u>	Time: <u>1628</u>	Remarks: <u>Bill BP</u> <u>VID: VHIXONEVRM</u> <u>REP: P-450</u> <u>Contact: Steve Maskal</u>
Date: <u>12/4/15</u>	Time: <u>1736</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>12/05/15</u>	Time: <u>0930</u>	

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

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: BP America Production Co. 200 Energy Ct. Farmington, NM 87401
2. Originating Site: Jones A LS 1 Paykey: <u>VHIXONEVB2</u>
3. Location of Material (Street Address, City, State or ULSTR): QRT/QRT: SE/NE Unit: N Section: 10 T28N R08W
4. Source and Description of Waste: Hydrocarbon impacted soils Estimated Volume <u>200</u> yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) <u>30</u> yd ³ / bbls <i>12/8/15 - 20cy</i>
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, <u>Steve Moskal</u> <i>[Signature]</i> , representative or authorized agent for <u>BP America Production Company</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <i>Operator Use Only: Waste Acceptance Frequency</i> <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, <u>Steve Moskal</u> <i>[Signature]</i> , representative for <u>BP America Production Company</u> authorize IEL to complete the required testing/sign the Generator Waste Testing Certification. I, <u>K. Delph</u> <i>[Signature]</i> , representative for <u>Clerk</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
5. Transporter: Crossfire

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Industrial Ecosystems Inc., JFJ Waste Management Facility (JFJ), Permit NM-01-0010B

Address of Facility: #49 CR 3150 Aztec, NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: K. Delph

TITLE: Clerk DATE: 12/7/15

SIGNATURE: K. Delph
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 632-1782

12/2

Moskal, Steven

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Thursday, December 10, 2015 7:42 AM
To: Moskal, Steven
Cc: Fields, Vanessa, EMNRD; kdiemer@blm.gov
Subject: RE: Jones A LS 1 Rush Data (2)

Categories: CAUTION: External email - increased risk of phishing
external-email: -1

Steve,

OCD approves BP request to backfill the Jones A LS 1, due to reaching practical extent. Please include this approval in your final C-141 closure

OCD approval does not relieve BP of any other requirements imposed by other regulatory agencies.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Moskal, Steven [<mailto:Steven.Moskal@bp.com>]
Sent: Wednesday, December 09, 2015 4:49 PM
To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD; kdiemer@blm.gov
Subject: Jones A LS 1 Rush Data (2)
Importance: High

All,

Attached is the laboratory report and aerial map of the remedial excavation at the Jones A LS 1 well site sampled on December 4, 2015. NMOCD approved the sampling activities. Sandstone was encountered at a depth of 5 feet with a maximum excavation depth of 9 feet below ground surface. The base of the BGT was placed on the sandstone surface at 5 feet. Additional excavation below the BGT base found competent, durable sandstone at 9 feet below ground surface. The excavation has reached practical vertical extent with equipment on site due to the encountering durable, hard sandstone bedrock. Staining indicates a historical earthen pit was present on the sandstone base at 9 feet. The main excavation below the BGT reached 14'x14'x9' in depth with the final excavation measured approximately 24'x24' and ranged from 5-9' in depth. Approximately 20 cubic yards were excavated and removed from the site (14'x14'x9'D). The site ranking based on the NMOCD Spill and Release Guidelines is greater than 20 based on a nearby ephemeral wash.

BP proposes to apply a potassium permanganate oxidant to the sandstone base, followed by backfilling with clean, import soil. Resampling of the base of the excavation will be performed at your request, prior

to backfilling. The constituents of concern remaining in the base of the excavation will be reduced by the oxidant application. The remaining constituents of concern are primarily diesel range organics that are not likely to mobilize or pose an environmental threat; volatile compounds are not at concentrations of concern.

Your approval or feedback is requested.

Thank you,

Steve Moskal

BP Lower 48 – San Juan – Farmington

Field Environmental Coordinator

Office: (505) 326-9497

Cell: (505) 330-9179



Moskal, Steven

From: Diemer, Katherina <kdiemer@blm.gov>
Sent: Thursday, December 10, 2015 7:19 AM
To: Moskal, Steven
Cc: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD
Subject: Re: Jones A LS 1 Rush Data (2)

Categories: CAUTION: External email - increased risk of phishing
external-email: -1

Good Morning All,

BLM approves your proposal to spray potassium permanganate oxidant and backfilling this location however this does not relieve BP from other regulatory agency requirements. Please let me know the schedule and if there are any changes.

Thank you and have a good day!

On Wed, Dec 9, 2015 at 4:48 PM, Moskal, Steven <Steven.Moskal@bp.com> wrote:

All,

Attached is the laboratory report and aerial map of the remedial excavation at the Jones A LS 1 well site sampled on December 4, 2015. NMOCD approved the sampling activities. Sandstone was encountered at a depth of 5 feet with a maximum excavation depth of 9 feet below ground surface. The base of the BGT was placed on the sandstone surface at 5 feet. Additional excavation below the BGT base found competent, durable sandstone at 9 feet below ground surface. The excavation has reached practical vertical extent with equipment on site due to the encountering durable, hard sandstone bedrock. Staining indicates a historical earthen pit was present on the sandstone base at 9 feet. The main excavation below the BGT reached 14'x14'x9' in depth with the final excavation measured approximately 24'x24' and ranged from 5-9' in depth. Approximately 20 cubic yards were excavated and removed from the site (14'x14'x9'D). The site ranking based on the NMOCD Spill and Release Guidelines is greater than 20 based on a nearby ephemeral wash.

BP proposes to apply a potassium permanganate oxidant to the sandstone base, followed by backfilling with clean, import soil. Resampling of the base of the excavation will be performed at your request, prior to backfilling. The constituents of concern remaining in the base of the excavation will be reduced by the oxidant application. The remaining constituents of concern are primarily diesel range organics that are not likely to mobilize or pose an environmental threat; volatile compounds are not at concentrations of concern.

Your approval or feedback is requested.

Thank you,

Steve Moskal

BP Lower 48 – San Juan – Farmington

Field Environmental Coordinator

Office: (505) 326-9497

Cell: (505) 330-9179



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Katherina E Diemer
Natural Resource Specialist
Spills Coordinator
Farmington Field Office
6251 North College Boulevard
Suite A
Farmington, NM 87402
Office: 505-564-7666
Mobile: 505-436-4042
email: kdiemer@blm.gov