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

OIL CONS. DIV DIST. 3
APR 05 2016

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: Tapp LS 001A	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004523700

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
C	22	28N	8W	790	North	1,560	West	

Latitude 36.65196° **Longitude** -107.67202°

NATURE OF RELEASE

Type of Release: condensate/oil and produced water	Volume of Release: Approx. 79 bbl condensate/22 bbl produced water	Volume Recovered: Approx. 20 bbl
Source of Release: Frozen valve on production tank load line.	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 2/3/2016
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? A phone call to Vanessa Fields	
By Whom? Steve Moskal of BP	Date and Hour: 2/3/2016 at 9:05 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The ball valve located on the load line of the production tank froze and ruptured the connecting fitting causing the load line to fall off the tank. The release was captured inside the secondary containment berm. The well was taken out of service until the tank and associated piping can be repaired.

Describe Area Affected and Cleanup Action Taken.* The freestanding liquid was removed. The site was remediated following the NMOCD Spill and Release guidelines based on a site ranking of 0 via excavation. Approximately 700 cubic yards of impacted soil was excavated and transported off site for landfarm treatment. A completed form C-138 is attached. The final excavation measure 67'x42'x6' deep on average. Final laboratory samples exceeded the BTEX closure standard (60.1 and 57.3 on two of six samples) so potassium permanganate was applied to the excavation prior to backfilling. A field report and a copy of the laboratory results are attached.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date: 4/6/16	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: February 3, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

#NUF1604753732

17

BP America
Tapp LS 1A
(C) Sec 22 – T22N – R8W
San Juan County, New Mexico
API: 30-045-23700

Summary Record of Impact Remediation

February 2, 2016 Discovery of the loss of approximately 79 barrels condensate and 22 barrels produced water from the production tank. Cause was a failed valve on the load line, due to freezing. All fluids were contained within the tank berm. Recovered approximately 20 barrels.

Site NMOCD/BLM closure standard determined at 5,000 ppm TPH based on:

Horizontal Distance to Dry Wash > 1,000 feet (0 points)
Nearest Water Well > 1,000 feet (0 points)
Depth to Groundwater > 100 feet (0 points)

March 16, 2016 Begin site remediation via excavation with trackhoe. Find a shallow, soft sandstone beginning at about 4' below surface grade, which transitioned to a dense, crystalline sandstone at about 7' below grade.

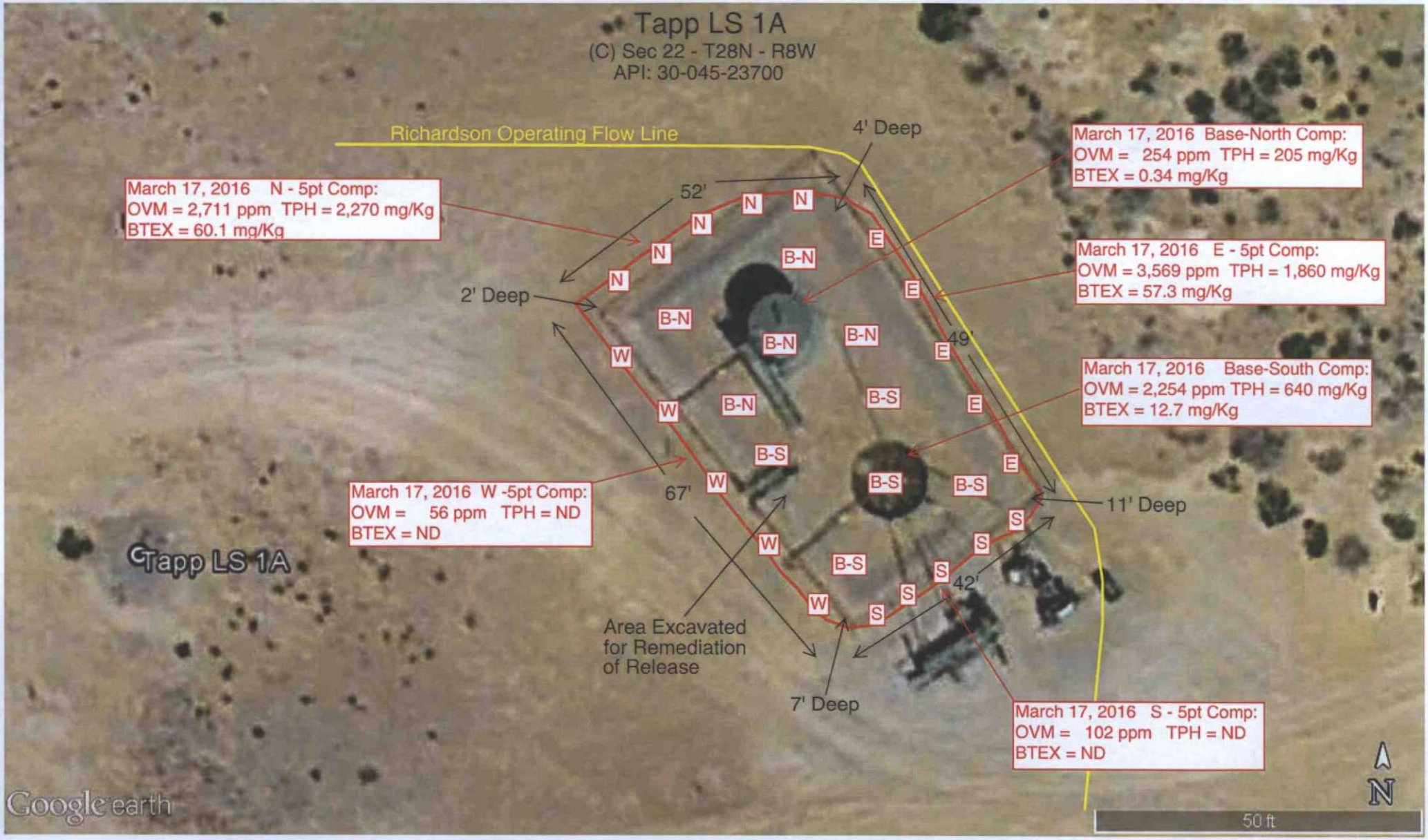
March 17, 2016 Final excavation size approximately 67' x 42' x 6' average depth. The dense sandstone has a definite slope towards the southeast, with the northwest corner of the excavation 2' deep and the southeast corner depth at 11'. Conduct closure sampling. Witnessed by NMOCD and BLM.

March 18, 2016 Receive rush lab results. All samples pass on TPH, Benzene and Chloride. Total BTEX exceeds the 50 ppm closure standard on the north wall (60.1 ppm) and east wall (57.3 ppm). Request authorization to close out remedial effort.

March 21, 2016 Receive NMOCD and BLM authorization to terminate remedial action, with a requirement to apply potassium permanganate to the base and sidewalls of the excavation to mitigate residual BTEX.

March 22, 2016 Apply potassium permanganate to entire excavation. Begin backfill operation.

March 25, 2016 Complete backfilling operations. Total volume transported to JFJ Crouch Mesa Landfarm = 700 cubic yards (Form C-138 Attached).


Tapp LS 1A
(C) Sec 22 - T28N - R8W
API: 30-045-23700
Richardson Operating Flow Line
4' Deep
March 17, 2016 Base-North Comp:
OVM = 254 ppm TPH = 205 mg/Kg
BTEX = 0.34 mg/Kg
March 17, 2016 N - 5pt Comp:
OVM = 2,711 ppm TPH = 2,270 mg/Kg
BTEX = 60.1 mg/Kg
52'
2' Deep
March 17, 2016 E - 5pt Comp:
OVM = 3,569 ppm TPH = 1,860 mg/Kg
BTEX = 57.3 mg/Kg
49'
March 17, 2016 Base-South Comp:
OVM = 2,254 ppm TPH = 640 mg/Kg
BTEX = 12.7 mg/Kg
March 17, 2016 W -5pt Comp:
OVM = 56 ppm TPH = ND
BTEX = ND
67'
11' Deep
Tapp LS 1A
42'
Area Excavated
for Remediation
of Release
7' Deep
March 17, 2016 S - 5pt Comp:
OVM = 102 ppm TPH = ND
BTEX = ND
N
50 ft
Google earth

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 21, 2016

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL:
FAX

RE: Tapp LS 1A OrderNo.: 1603957

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/18/2016 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 qualifers 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1603957**
Date Reported: **3/21/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-001
Matrix: MEOH (SOIL)

Client Sample ID: North Wall 5-pt (2'-3')
Collection Date: 3/17/2016 2:25:00 PM
Received Date: 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 10:33:31 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	1400	100		mg/Kg	10	3/18/2016 1:28:16 PM	24325
Surr: DNOP	0	70-130	S	%Rec	10	3/18/2016 1:28:16 PM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	870	84		mg/Kg	20	3/18/2016 9:29:50 AM	24321
Surr: BFB	299	66.2-112	S	%Rec	20	3/18/2016 9:29:50 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.42		mg/Kg	20	3/18/2016 9:29:50 AM	24321
Toluene	10	0.84		mg/Kg	20	3/18/2016 9:29:50 AM	24321
Ethylbenzene	4.1	0.84		mg/Kg	20	3/18/2016 9:29:50 AM	24321
Xylenes, Total	46	1.7		mg/Kg	20	3/18/2016 9:29:50 AM	24321
Surr: 4-Bromofluorobenzene	134	80-120	S	%Rec	20	3/18/2016 9:29:50 AM	24321

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-002
Matrix: MEOH (SOIL)
Client Sample ID: East Wall 5-pt (3'-7')
Collection Date: 3/17/2016 2:28:00 PM
Received Date: 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 10:45:55 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	1100	92		mg/Kg	10	3/18/2016 11:19:14 AM	24325
Surr: DNOP	0	70-130	S	%Rec	10	3/18/2016 11:19:14 AM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	760	95		mg/Kg	20	3/18/2016 11:50:41 AM	24321
Surr: BFB	238	66.2-112	S	%Rec	20	3/18/2016 11:50:41 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.74	0.47		mg/Kg	20	3/18/2016 11:50:41 AM	24321
Toluene	13	0.95		mg/Kg	20	3/18/2016 11:50:41 AM	24321
Ethylbenzene	3.6	0.95		mg/Kg	20	3/18/2016 11:50:41 AM	24321
Xylenes, Total	40	1.9		mg/Kg	20	3/18/2016 11:50:41 AM	24321
Surr: 4-Bromofluorobenzene	134	80-120	S	%Rec	20	3/18/2016 11:50:41 AM	24321

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-003

Client Sample ID: South Wall 5-pt (4'-10')
Collection Date: 3/17/2016 2:30:00 PM
Matrix: MEOH (SOIL) **Received Date:** 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 10:58:20 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2016 12:02:04 PM	24325
Surr: DNOP	86.3	70-130		%Rec	1	3/18/2016 12:02:04 PM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2016 10:16:52 AM	24321
Surr: BFB	113	66.2-112	S	%Rec	1	3/18/2016 10:16:52 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	3/18/2016 10:16:52 AM	24321
Toluene	ND	0.050		mg/Kg	1	3/18/2016 10:16:52 AM	24321
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2016 10:16:52 AM	24321
Xylenes, Total	ND	0.10		mg/Kg	1	3/18/2016 10:16:52 AM	24321
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	1	3/18/2016 10:16:52 AM	24321

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-004

Client Sample ID: West Wall 5-pt (3'-7')
Collection Date: 3/17/2016 2:33:00 PM
Matrix: MEOH (SOIL)
Received Date: 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 11:10:45 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/18/2016 12:23:30 PM	24325
Surr: DNOP	96.4	70-130		%Rec	1	3/18/2016 12:23:30 PM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	3/18/2016 10:40:20 AM	24321
Surr: BFB	112	66.2-112		%Rec	1	3/18/2016 10:40:20 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	3/18/2016 10:40:20 AM	24321
Toluene	ND	0.043		mg/Kg	1	3/18/2016 10:40:20 AM	24321
Ethylbenzene	ND	0.043		mg/Kg	1	3/18/2016 10:40:20 AM	24321
Xylenes, Total	ND	0.086		mg/Kg	1	3/18/2016 10:40:20 AM	24321
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	1	3/18/2016 10:40:20 AM	24321

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-005
Matrix: MEOH (SOIL)
Client Sample ID: South Base 5-pt
Collection Date: 3/17/2016 2:36:00 PM
Received Date: 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 11:23:10 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	410	9.6		mg/Kg	1	3/18/2016 12:45:03 PM	24325
Surr: DNOP	80.9	70-130		%Rec	1	3/18/2016 12:45:03 PM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	230	23		mg/Kg	5	3/18/2016 11:03:47 AM	24321
Surr: BFB	286	66.2-112	S	%Rec	5	3/18/2016 11:03:47 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.12	0.12		mg/Kg	5	3/18/2016 11:03:47 AM	24321
Toluene	2.0	0.23		mg/Kg	5	3/18/2016 11:03:47 AM	24321
Ethylbenzene	0.86	0.23		mg/Kg	5	3/18/2016 11:03:47 AM	24321
Xylenes, Total	9.7	0.46		mg/Kg	5	3/18/2016 11:03:47 AM	24321
Surr: 4-Bromofluorobenzene	136	80-120	S	%Rec	5	3/18/2016 11:03:47 AM	24321

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

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
W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Tapp LS 1A
Lab ID: 1603957-006
Matrix: MEOH (SOIL)
Client Sample ID: North Base 5-pt
Collection Date: 3/17/2016 2:40:00 PM
Received Date: 3/18/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	3/18/2016 11:35:35 AM	24338
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	180	9.7		mg/Kg	1	3/18/2016 1:06:34 PM	24325
Surr: DNOP	91.1	70-130		%Rec	1	3/18/2016 1:06:34 PM	24325
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	25	4.3		mg/Kg	1	3/18/2016 11:27:14 AM	24321
Surr: BFB	240	66.2-112	S	%Rec	1	3/18/2016 11:27:14 AM	24321
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	3/18/2016 11:27:14 AM	24321
Toluene	0.046	0.043		mg/Kg	1	3/18/2016 11:27:14 AM	24321
Ethylbenzene	ND	0.043		mg/Kg	1	3/18/2016 11:27:14 AM	24321
Xylenes, Total	0.29	0.086		mg/Kg	1	3/18/2016 11:27:14 AM	24321
Surr: 4-Bromofluorobenzene	130	80-120	S	%Rec	1	3/18/2016 11:27:14 AM	24321

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1603957**

21-Mar-16

Client: Blagg Engineering

Project: Tapp LS 1A

Sample ID	**MB-24338**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**24338**		RunNo:	**32935**				
Prep Date:	**3/18/2016**	Analysis Date:	**3/18/2016**		SeqNo:	**1009846**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-24338**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**24338**		RunNo:	**32935**				
Prep Date:	**3/18/2016**	Analysis Date:	**3/18/2016**		SeqNo:	**1009847**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1603957**

21-Mar-16

Client: Blagg Engineering

Project: Tapp LS 1A

Sample ID **LCS-24325**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **24325**			RunNo: **32886**					
Prep Date: **3/18/2016**	Analysis Date: **3/18/2016**			SeqNo: **1008166**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.0	65.8	136			
Surr: DNOP	4.3		5.000		85.1	70	130			

Sample ID **MB-24325**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **24325**			RunNo: **32886**					
Prep Date: **3/18/2016**	Analysis Date: **3/18/2016**			SeqNo: **1008167**		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	8.3		10.00		83.0	70	130			

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1603957**

21-Mar-16

Client: Blagg Engineering

Project: Tapp LS 1A

Sample ID **MB-24321**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **24321**	RunNo: **32893**
Prep Date: **3/17/2016**	Analysis Date: **3/18/2016**	SeqNo: **1008613** 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	1100		1000		108	66.2	112			

Sample ID **LCS-24321**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **24321**	RunNo: **32893**
Prep Date: **3/17/2016**	Analysis Date: **3/18/2016**	SeqNo: **1008614** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80	120			
Surr: BFB	1200		1000		117	66.2	112			S

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1603957**

21-Mar-16

Client: Blagg Engineering
Project: Tapp LS 1A

Sample ID **MB-24321**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **24321**	RunNo: **32893**
Prep Date: **3/17/2016**	Analysis Date: **3/18/2016**	SeqNo: **1008645** Units: **mg/Kg**

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	1.1		1.000		113	80	120			

Sample ID **LCS-24321**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **24321**	RunNo: **32893**
Prep Date: **3/17/2016**	Analysis Date: **3/18/2016**	SeqNo: **1008646** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	114	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	80	120			S

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	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: BLAGG | Work Order Number: 1603957 | RcptNo: 1

Received by/date: 03/18/16

Logged By: Lindsay Mangin 3/18/2016 7:30:00 AM

Completed By: Lindsay Mangin 3/18/2016 8:11:17 AM

Reviewed By: 03/18/16

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? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
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? (If no, notify customer for authorization.)	Yes ☑	No ☐	

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

Adjusted? ____

Checked by: ____

Special Handling (if applicable)

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	1.3	Good	Yes			

Chain-of-Custody Record

Client: BP AMERICA
BLAGG ENGINEERING INC.
Mailing Address:
Phone #: 505-320-1183
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: TAPP LS 1A
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.3

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. 1603957	BTEX + ~~MTBE + TMB's~~ (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)
7/2016	1425	SOIL	NORTH wall 5-pt (2'-3')	4 oz x 1	COOL	-001	X		X									X				
"	1428	"	EAST wall 5-pt (3'-7')	"	"	-002	X		X									X				
"	1430	"	South wall 5-pt (4'-10')	"	"	-003	X		X									X				
"	1433	"	west wall 5-pt (3'-7')	"	"	-004	X		X									X				
"	1436	"	South Base 5-pt	"	"	-005	X		X									X				
"	1440	"	North Base 5-pt	"	"	-006	X		X									X				

Date	Time	Relinquished by:	Received by:	Date	Time
7/2016	1659	Jeff Blagg	Christy Walters	3/11/16	1659
3/17/16	1840	Christy Walters			
				03/18/16	0730

Remarks: BILL BP
CONTACT: STEVE MOSCAL
VID: VMOS6HQFEC
REFERENCE: P-536

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:
Tapp LS 001A
Paykey: VHIXONEVRM

3/23/16 - 90 cy
3/22/16 - 200 cy
3/21/16 - 170 cy
3/18/16 - 140 cy

3. Location of Material (Street Address, City, State or ULSTR):
QRT/QRT: NW/NW Unit: C Section: 22 T28N R8W

4. Source and Description of Waste: Hydrocarbon impacted soil.

Estimated Volume 200 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 100 yd³ / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Steve Moskal, representative or authorized agent for BP America Production Company 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)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for was[illegible]ous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 C[illegible]261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-h[illegible] (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide descripti[illegible] 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARM

Steve Moskal, representative for BP America Production Company authorize Envirotech [illegible]lete the required testing/sign the Generator Waste Testing Certification.

I, K. Selph, representative for TEI do hereby [illegible]at representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride conten[illegible] the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36[illegible] The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements o[illegible]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

PH=7
CL=432

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 Selph TITLE: Clerk DATE: 3/17/16

SIGNATURE: K Selph TELEPHONE NO.: 632-1782

Surface Waste Management Facility Authorized Agent

3/15