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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Northeast Blanco Unit Sims Mesa SWD 001	Facility Type: Natural gas well/Disposal Well

Surface Owner: State	Mineral Owner: State	API No. 3003924236

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Rio Arriba
E	10	30N	07W	1,450	North	790	West	

Latitude 36.830817° **Longitude** -107.564767°

NATURE OF RELEASE

Type of Release: produced water/oil and condensate	Volume of Release: Unknown	Volume Recovered: none
Source of Release: 60 bbl BGT	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: July 11, 2016; 2:00 PM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

OIL CONS. DIV DIST. 3
SEP 06 2016

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During the closure of a BGT for replacement to a modern design, impacts were found beneath the tank. Laboratory results indicated the impacts were above the BGT closure standard and the spill and release guidelines for closure. Remediation through excavation was performed to meet the spill and release guidelines.

Describe Area Affected and Cleanup Action Taken.* Soil was excavated from the BGT location. Final excavation measured approximately 18'x18'x11' in depth. A total of 130 cubic yards of soil was transported offsite for landfarm treatment. Final report and laboratory data 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: 11/03/2016	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: NCS1627953913	Attached ☐
Date: September 1, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

22

BP America
NEBU Simms Mesa SWD 1
(E) Sec 10 – T30N – R7W
San Juan County, New Mexico
API: 30-039-24236

Summary Record of Impact Remediation

July 11, 2016 Soils impacted with hydrocarbons were encountered during closure of a 60 barrel below grade tank (BGT) (see attached Field Report). Impacts appeared to be resulting from possible periodic overflow from the BGT & potentially from lost integrity. No other source(s) was evident. The soil lithology from ground surface to approximately 9' below surface grade (bsg) was a silty sand grading to a silty clay. Dense sandstone began at about 9' bsg.

The site closure standard was determined at 5,000 ppm TPH based on:

Horizontal distance to blue line on USGS Topo > 1,000 feet (0 points) - attached
Nearest water well based on search of State Engineer's data base > 1,000 feet (0 points) – BGT permit
Depth to groundwater based BGT permit data search >100 feet (0 points) – BGT permit

The initial response on discovery of impacts was to delineate impacts with the backhoe used for the BGT removal and sampling. A limited excavation of approximately 14' diameter x 10' deep was advanced and samples were collected from the sidewalls and base for laboratory testing. Equipment limitation and dense sandstone prevented sampling deeper than 10 foot depth.

July 12, 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) (mg/Kg)	TPH Method 8015B (DRO) (mg/Kg)	TPH Method 8015B (MRO) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
5-pt Composite @ Excavation Base @ 10'	7/11/2016 @ 1410 pm	45.0	20,000	32	4,000	10,000	<0.076	3.14	150
4-pt Composite of Sidewalls @ 8'- 9' depth	7/11/2016 @ 1425 pm	60.1	NA	9.9	3,100	9,200	<0.033	0.66	200
4-pt Composite of Sidewalls @ 7' depth	7/11/2016 @ 1433 pm	45.3	NA	ND	1,000	4,000	<0.019	ND	160
Closure Standard		100	5,000	GRO+DRO+MRO = 5,000			10	50	NA

Note: OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; GRO = Gasoline Range Organics; DRO = Diesel Range Organics; MRO = Motor Oil Range Organics; BTEX = benzene, toluene, ethylbenzene, total xylenes; Closure Standards based on NMOCD Spill & Release Guidelines.

July 22, 2016 Begin site remediation via excavation into sandstone with trackhoe. Remedial excavation size approximately 18' x 18' x 11' deep. Sub-grade pipelines and above ground surface facilities prevent expanding excavation any larger in any direction. Conduct closure sampling with NMOCD representative on site.

July 25, 2016 Receive rush lab results from excavation sample event:

Sample ID	Date/Time	Field OVM (ppm)	TPH Method 8015B (GRO) (mg/Kg)	TPH Method 8015B (DRO) (mg/Kg)	TPH Method 8015B (MRO) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
Base 5-point @ 11'	7/22/2016 @ 1337 pm	0.6	ND	ND	ND	<0.011	ND	180
North Wall 5-point (5'-10')	7/22/2016 @ 1341 pm	29.2	ND	1,500	4,100	<0.097	ND	130
South Wall 5-point (5'-10')	7/22/2016 @ 1345 pm	2.0	ND	ND	ND	<0.019	ND	100
East Wall 5-point (5'-10')	7/22/2016 @ 1347 pm	1.2	ND	ND	ND	<0.020	ND	100
West Wall 5-point (5'-10')	7/22/2016 @ 1350 pm	0.5	ND	ND	ND	<0.017	ND	140
Closure Standard		100	GRO+DRO+MRO = 5,000			10	50	NA

Note: OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; GRO = Gasoline Range Organics; DRO = Diesel Range Organics; MRO = Motor Oil Range Organics; BTEX = benzene, toluene, ethylbenzene, total xylenes; Closure Standards based on NMOCD Spill & Release Guidelines.

July 26, 2016 Receive regulatory approval to close site based on laboratory results and no perceived risk to groundwater, the environment or human health.

July 27, 2016 Excavation crew completes backfilling operation. Total volume removed and transported to IEI landfarm approximately 130 cubic yards of soil.

CLIENT: BP

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

API #: 3003924236
TANK ID (if applicble): A

FIELD REPORT:

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

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: NEBU SIMS MESA SWD #1

QUAD/UNIT: E SEC: 10 TWP: 30N RNG: 7W PM: NM CNTY: RA ST: NM

1/4 -1/4/FOOTAGE: 1,450'N / 790'W SW/NW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: - PROD. FORMATION: - CONTRACTOR: STRIKE BP - J. LAUTEY

DATE STARTED: 07/11/16

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.830393 X 107.564706 GL ELEV.: 6,313'

		GPS COORD.	DISTANCE/BEARING FROM W.H.
1)	60 BGT (SW/SB)	36.830817 X 107.564767	148.5', N2W
2)			
3)			
4)			

SAMPLING DATA:

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

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	5PC - EB @ 10'	07/11/16	1410	418.1/8015B/8021B/300.0 (Cl)	45.0
2)	4PC - SW @ 8' - 9'	07/11/16	1425	8015B/8021B/300.0 (Cl)	60.1
3)	4PC - SW @ 7'	07/11/16	1433	8015B/8021B/300.0 (Cl)	45.3
4)					

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)

SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE

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

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

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

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 4 & 5

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - IN BEDROCK STARTING @ 8 FT. BELOW GRADE (OLIVE GRAY TO BLACK).

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

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

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

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION - BOTTOM OF EXCAVATION.

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION - FLUID FLOWING FROM BGT BOTTOM CREASE.

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: FLUID IN EXCAVATION & DISCOLORED SOILS.

EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION - BETTER DESIGNED BGT TO BE INSTALLED.

OTHER: NORTH & EAST SIDEWALLS DISCOLORED FROM 7 - 10 FT. BELOW GRADE. SANDSTONE @ 9 - 10 FT. BELOW GRADE, MOSTLY DARK GRAY TO BLACK, VERY HARD, COMPETENT. NMOCD REP. PRESENT DURING SAMPLE COLLECTION.

SOIL IMPACT DIMENSION ESTIMATION: ? ft. X ? ft. X ? ft. EXCAVATION ESTIMATION (Cubic Yards): ?

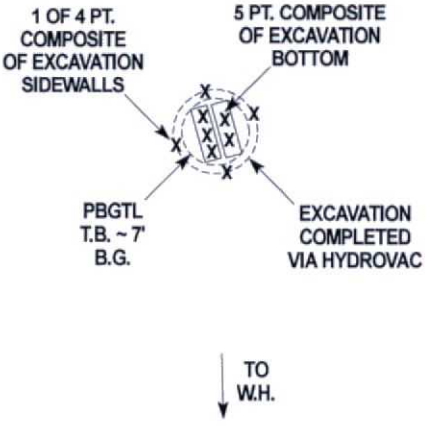
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000' NMOCD TPH CLOSURE STD: 5,000 ppm

SITE SKETCH

BGT Located: off / on site

PLOT PLAN circle: attached

FIGURE 3



OVM CALIB. READ. = 54.8 ppm RF = 0.52

OVM CALIB. GAS = 100 ppm

TIME: 2:39 am/pm DATE: 07/11/16

MISCELL. NOTES

WO:

REF #:

VID:

PJ #:

Permit date(s): 10/02/08

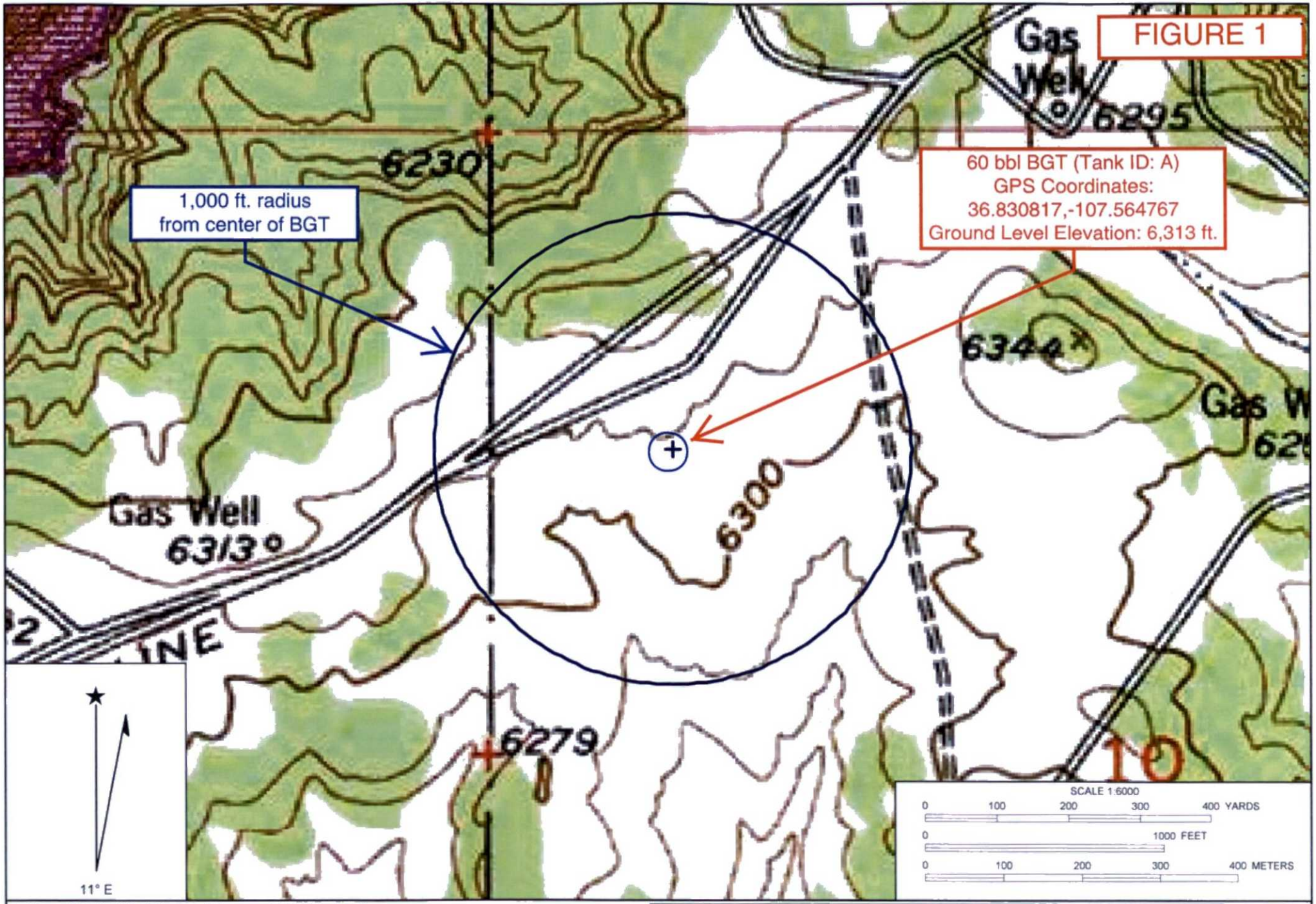
OCD Appr. date(s): 03/20/12

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
A	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: 10° E

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

NOTES: GOOGLE EARTH IMAGERY DATE: 3/16/2016. ONSITE: 07/11/16



BP - NEBU Sims Mesa SWD 001

API #: 3003924236

(E) Secton 10, Township 30.0N, Range 7W, P.M. NM 23

Well head GPS coord.: 36.830393,-107.564706

Proximity to Watercourses

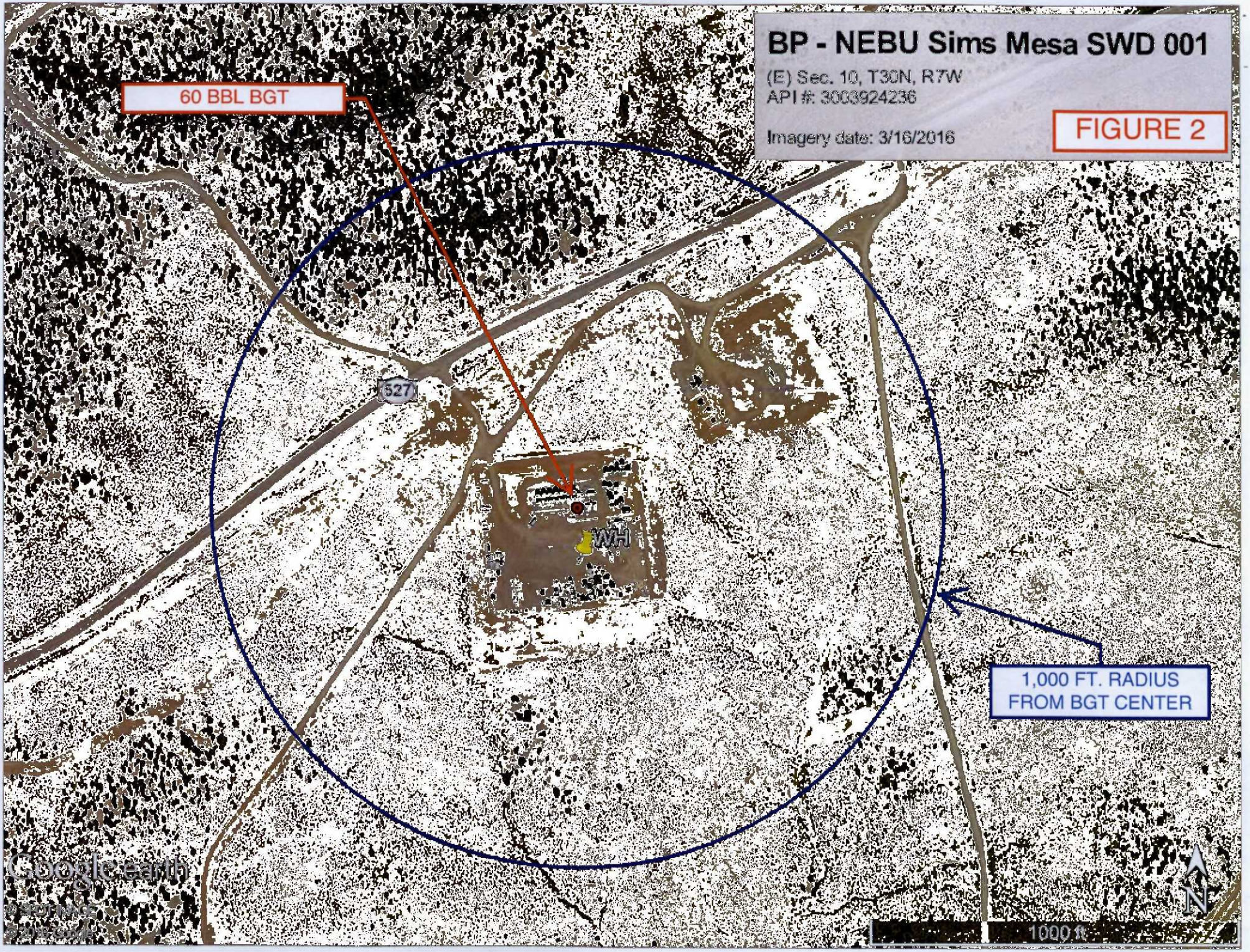
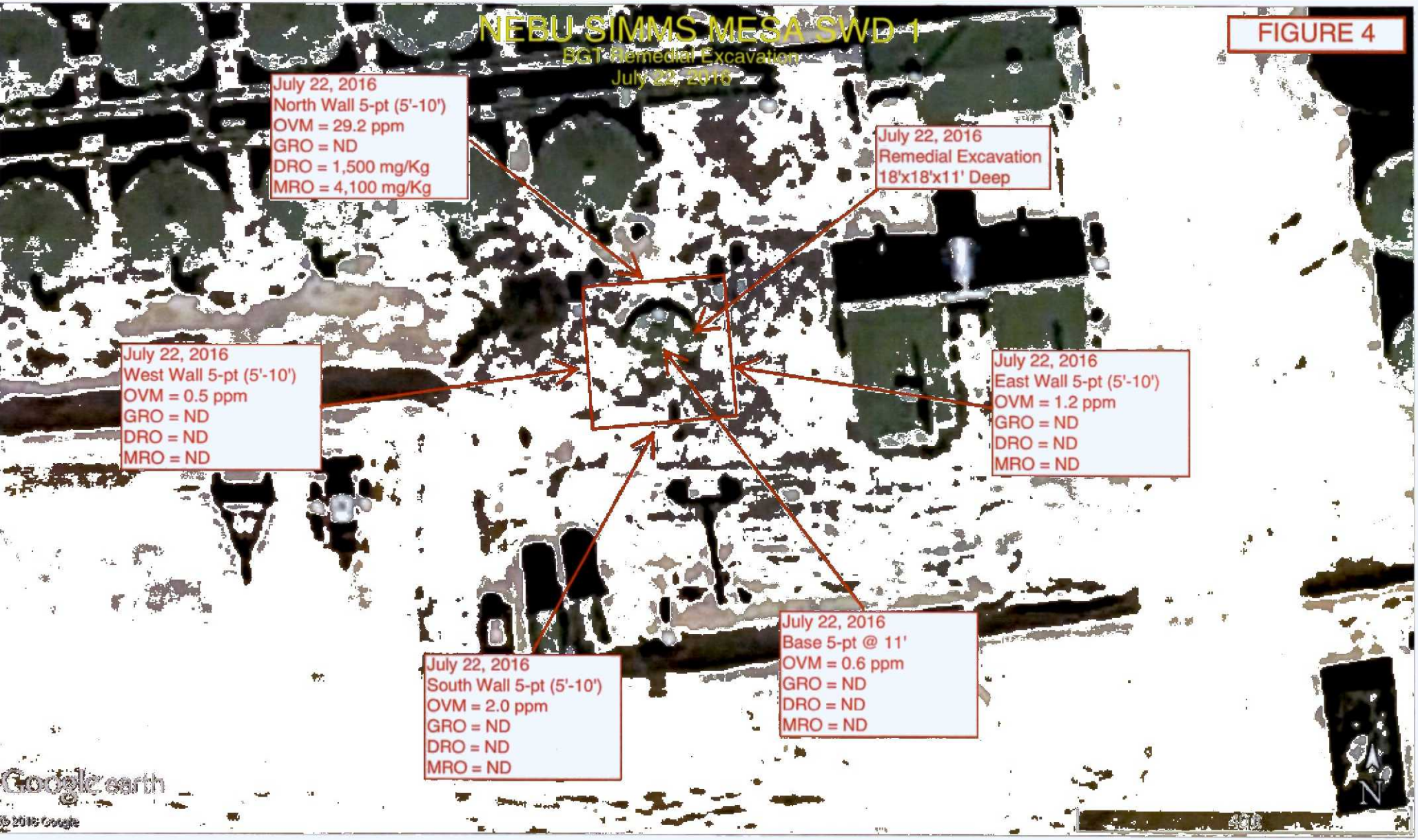

BP - NEBU Sims Mesa SWD 001
(E) Sec. 10, T30N, R7W
API #: 3003924236
Imagery date: 3/16/2016
FIGURE 2
60 BBL BGT
527
WH
1,000 FT. RADIUS
FROM BGT CENTER
Google earth
1000 ft
N

FIGURE 3

BP - NEBU Sims Mesa SWD 001

(E) Sec. 10, T30N, R7W
API #: 3003924236

Imagery date: 3/16/2016


NEBU-SIMMS MESA SWD 1
BGT Remedial Excavation
July 22, 2016
FIGURE 4
July 22, 2016
North Wall 5-pt (5'-10')
OVM = 29.2 ppm
GRO = ND
DRO = 1,500 mg/Kg
MRO = 4,100 mg/Kg
July 22, 2016
Remedial Excavation
18'x18'x11' Deep
July 22, 2016
West Wall 5-pt (5'-10')
OVM = 0.5 ppm
GRO = ND
DRO = ND
MRO = ND
July 22, 2016
East Wall 5-pt (5'-10')
OVM = 1.2 ppm
GRO = ND
DRO = ND
MRO = ND
July 22, 2016
South Wall 5-pt (5'-10')
OVM = 2.0 ppm
GRO = ND
DRO = ND
MRO = ND
July 22, 2016
Base 5-pt @ 11'
OVM = 0.6 ppm
GRO = ND
DRO = ND
MRO = ND
Google earth
N

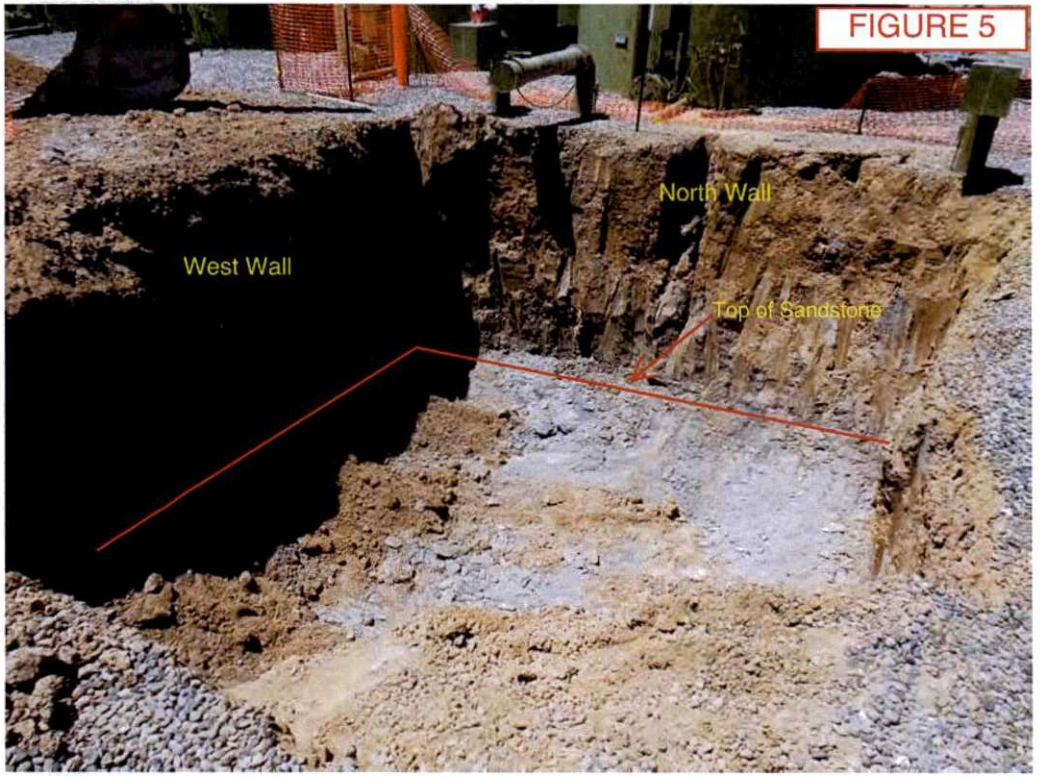


FIGURE 5
North Wall
West Wall
Top of Sandstone


FIGURE 6
East Wall
South Wall
Top of Sandstone

Analytical Report
Lab Order **1607C01**
Date Reported: **7/27/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: NEBU Simms SWD #1
Lab ID: 1607C01-001
Matrix: MEOH (SOIL)

Client Sample ID: Base 5-pt @ 11'
Collection Date: 7/22/2016 1:37:00 PM
Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	180	30		mg/Kg	20	7/25/2016 12:14:41 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/25/2016 2:46:44 PM	26574
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2016 2:46:44 PM	26574
Surr: DNOP	88.9	70-130		%Rec	1	7/25/2016 2:46:44 PM	26574
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	7/25/2016 10:32:00 AM	R35949
Surr: BFB	103	80-120		%Rec	5	7/25/2016 10:32:00 AM	R35949
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	7/25/2016 10:32:00 AM	B35949
Toluene	ND	0.21		mg/Kg	5	7/25/2016 10:32:00 AM	B35949
Ethylbenzene	ND	0.21		mg/Kg	5	7/25/2016 10:32:00 AM	B35949
Xylenes, Total	ND	0.42		mg/Kg	5	7/25/2016 10:32:00 AM	B35949
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	5	7/25/2016 10:32:00 AM	B35949

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
Client Sample ID: North Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1
Collection Date: 7/22/2016 1:41:00 PM
Lab ID: 1607C01-002
Matrix: MEOH (SOIL)
Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	130	30		mg/Kg	20	7/25/2016 12:27:06 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	7/25/2016 4:59:59 PM	26574
Motor Oil Range Organics (MRO)	4100	500		mg/Kg	10	7/25/2016 4:59:59 PM	26574
Surr: DNOP	0	70-130	S	%Rec	10	7/25/2016 4:59:59 PM	26574
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	7/25/2016 10:55:38 AM	R35949
Surr: BFB	102	80-120		%Rec	5	7/25/2016 10:55:38 AM	R35949
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.097		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Toluene	ND	0.19		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Ethylbenzene	ND	0.19		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Xylenes, Total	ND	0.39		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	5	7/25/2016 10:55:38 AM	B35949

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
Client Sample ID: South Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1
Collection Date: 7/22/2016 1:45:00 PM
Lab ID: 1607C01-003
Matrix: MEOH (SOIL)
Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	100	30		mg/Kg	20	7/25/2016 12:39:31 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2016 4:26:43 PM	26574
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/25/2016 4:26:43 PM	26574
Surr: DNOP	94.2	70-130		%Rec	1	7/25/2016 4:26:43 PM	26574
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/25/2016 10:53:08 PM	G35950
Surr: BFB	80.0	80-120		%Rec	1	7/25/2016 10:53:08 PM	G35950
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Toluene	ND	0.038		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Ethylbenzene	ND	0.038		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Xylenes, Total	ND	0.076		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	7/25/2016 11:02:46 AM	B35950

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
Client Sample ID: East Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1
Collection Date: 7/22/2016 1:47:00 PM
Lab ID: 1607C01-004
Matrix: MEOH (SOIL)
Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	100	30		mg/Kg	20	7/25/2016 12:51:55 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2016 4:48:42 PM	26574
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/25/2016 4:48:42 PM	26574
Surr: DNOP	89.7	70-130		%Rec	1	7/25/2016 4:48:42 PM	26574
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/25/2016 11:27:08 AM	G35950
Surr: BFB	87.2	80-120		%Rec	1	7/25/2016 11:27:08 AM	G35950
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Toluene	ND	0.041		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Ethylbenzene	ND	0.041		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Xylenes, Total	ND	0.082		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/25/2016 11:27:08 AM	B35950

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
Client Sample ID: West Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1
Collection Date: 7/22/2016 1:50:00 PM
Lab ID: 1607C01-005
Matrix: MEOH (SOIL)
Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	140	30		mg/Kg	20	7/25/2016 1:04:20 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2016 4:31:51 PM	26574
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2016 4:31:51 PM	26574
Surr: DNOP	95.4	70-130		%Rec	1	7/25/2016 4:31:51 PM	26574
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/25/2016 11:51:35 AM	G35950
Surr: BFB	81.2	80-120		%Rec	1	7/25/2016 11:51:35 AM	G35950
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Toluene	ND	0.033		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Ethylbenzene	ND	0.033		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Xylenes, Total	ND	0.067		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/25/2016 11:51:35 AM	B35950

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

Chain-of-Custody Record

Turn-Around Time: ASAP SAME DAY
☐ Standard ☒ Rush

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)

Project Name: NEBU SIMMS SWD #1
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: ☑ Yes ☐ No
Sample Temperature: 1.8

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. 1607C01	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	1337	SOIL	BASE 5-pt @ 11'	4 oz x 1	COOL	-001	X		X									X	
"	1341	"	NORTH WALL 5-pt (5'-10')	"	"	-002	X		X									X	
"	1345	"	SOUTH WALL 5-pt (5'-10')	"	"	-003	X		X									X	
"	1347	"	EAST WALL 5-pt (5'-10')	"	"	-004	X		X									X	
"	1350	"	WEST WALL 5-pt (5'-10')	"	"	-005	X		X									X	

Date	Time	Relinquished by:	Received by:	Date	Time
7/2/16	1705	Jeff Blagg	[signature]	7/22/16	1705
7/22/16	1941	[signature]	[signature]	07/23/16	0830

Remarks: BILL BP
CONTACT: STEVE MOSCAL
VID: VDRINKWJA1

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.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1607C01**

27-Jul-16

Client: Blagg Engineering

Project: NEBU Simms SWD #1

Sample ID	**MB-26584**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**26584**	RunNo:	**35975**					
Prep Date:	**7/25/2016**	Analysis Date:	**7/25/2016**	SeqNo:	**1113849**	Units:	**mg/Kg**			

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

Sample ID	**LCS-26584**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**26584**	RunNo:	**35975**					
Prep Date:	**7/25/2016**	Analysis Date:	**7/25/2016**	SeqNo:	**1113850**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	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#: **1607C01**

27-Jul-16

Client: Blagg Engineering

Project: NEBU Simms SWD #1

Sample ID **LCS-26574**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **26574**	RunNo: **35946**
Prep Date: **7/25/2016**	Analysis Date: **7/25/2016**	SeqNo: **1112939** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	62.6	124			
Surr: DNOP	4.8		5.000		96.4	70	130			

Sample ID **MB-26574**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **26574**	RunNo: **35946**
Prep Date: **7/25/2016**	Analysis Date: **7/25/2016**	SeqNo: **1112940** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	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#: **1607C01**

27-Jul-16

Client: Blagg Engineering

Project: NEBU Simms SWD #1

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G35950**	RunNo: **35950**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.8	80	120			
Surr: BFB	900		1000		90.1	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G35950**	RunNo: **35950**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114333** 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	830		1000		82.6	80	120			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R35949**	RunNo: **35949**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114408** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	80	120			
Surr: BFB	1100		1000		110	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R35949**	RunNo: **35949**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114409** 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	1000		1000		102	80	120			

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#: **1607C01**

27-Jul-16

Client: Blagg Engineering

Project: NEBU Simms SWD #1

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B35949**	RunNo: **35949**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114429** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	75.3	123			
Toluene	0.99	0.050	1.000	0	99.1	80	124			
Ethylbenzene	1.0	0.050	1.000	0	101	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	101	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B35949**	RunNo: **35949**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1114438** 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	0.98		1.000		98.2	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B35950**	RunNo: **35950**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1115104** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	75.3	123			
Toluene	1.0	0.050	1.000	0	103	80	124			
Ethylbenzene	0.95	0.050	1.000	0	94.7	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	92.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B35950**	RunNo: **35950**
Prep Date:	Analysis Date: **7/25/2016**	SeqNo: **1115106** 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	0.98		1.000		97.9	80	120			

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: 1607C01 | Rcp:No: 1

Received by/date: 07/23/16

Logged By: Lindsay Mangin 7/23/2016 8:30:00 AM

Completed By: Lindsay Mangin 7/23/2016 9:36:41 AM

Reviewed By: AB 7/23/16

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 ☐	# of preserved bottles checked for pH: (<2 or >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? (If no, notify customer for authorization.)	Yes ☑	No ☐	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	1.8	Good	Yes			

RE: NEBU Simms Mesa SWD BGT

From: Smith, Cory, EMNRD, EMNRD <Cory.Smith@state.nm.us>
To: Moskal, Steven <Steven.Moskal@bp.com>
Cc: jeffcblagg <jeffcblagg@aol.com>; Eickleberry, Jay T <Jay.Eickleberry@bp.com>; celkins <celkins@gobrainstorm.net>; EMNRD <Vanessa.Fields@state.nm.us>
Date: Tue, Jul 26, 2016 7:34 am

Steve,

OCD grants BP request for site closure. Please include a copy of these emails in your C-141 final.

OCD Approval for site closure does not relieve BP of liability should their operations have failed to adequately investigate and remec threat to the ground water, surface water, human health or the environment.

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: Tuesday, July 26, 2016 7:11 AM
To: Smith, Cory, EMNRD
Cc: jeffcblagg@aol.com; Eickleberry, Jay T; celkins@gobrainstorm.net
Subject: NEBU Simms Mesa SWD BGT

Cory,

Attached are the laboratory results received yesterday evening for the samples collected on Friday from the ren NEBU Simms Mesa SWD BGT. TPH, including MRO, exceeds the site closure standard of 5,000 ppm on the n other samples were below laboratory detection limits for all constituents. Due to the nearby underground utilities excavation is very difficult. I do not believe MRO poses a high risk to groundwater or any surface water or othe the site. I also believe the results demonstrate the BGT is the source and only a residual amount of contaminat wall. If another source was present, I believe we would have seen results above laboratory detection limits fron observed free product in the immediate vicinity during the removal of the BGT "lid" during the initial hydro-excav no further action. Please let me know your thoughts.

Thank you,

Steve Moskal
BP Lower 48 – San Juan – Farmington
Field Environmental Coordinator
Office: (505) 326-9497
Cell: (505) 330-9179