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

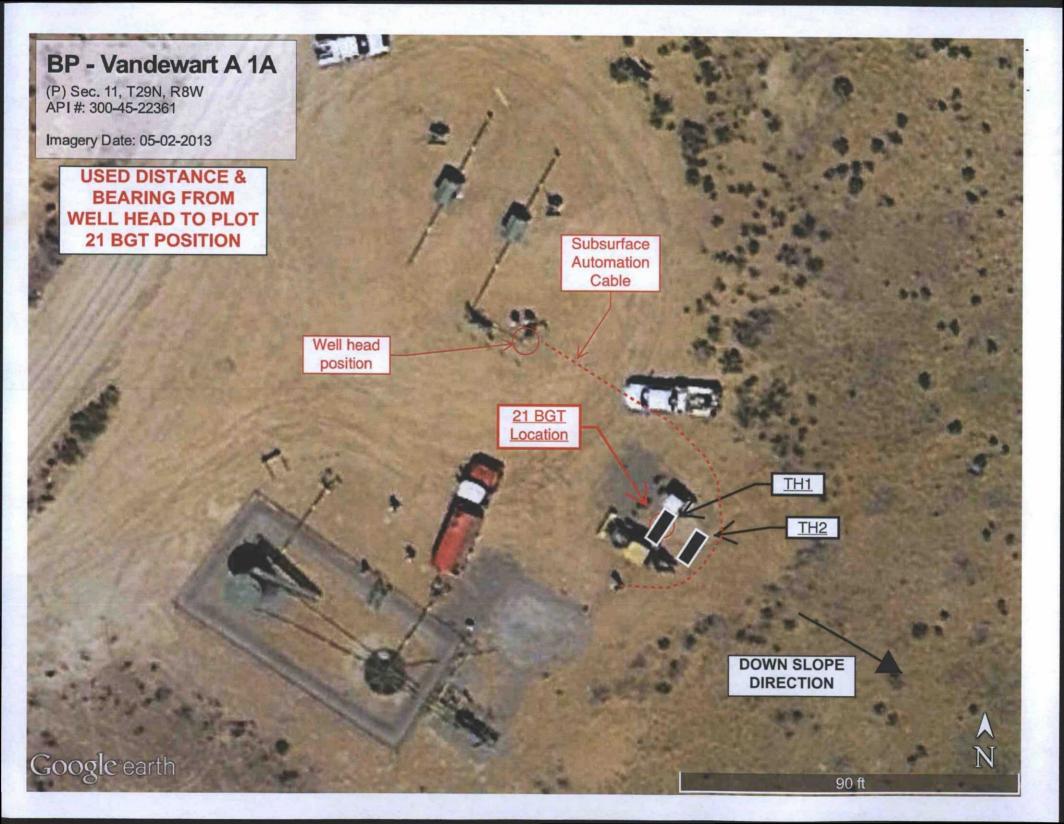
State of New Mexico Energy Minerals and Natural Resources

DEC 2 1 2015

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			OPERA	TOR		Initia	al Report			
Name of Company: BP		(Contact: Ste	eve Moskal						
Address: 200 Energy Court, Farmington	n, NM 87401		Telephone 1	No.: 505-326-94	197		A see			
Facility Name: Vandewart A 001A		I	Facility Type: Natural gas well							
Surface Owner: Federal	Mineral (Owner: F	wner: Federal API No. 3004522361							
Juriace Owner. I ederar		10.17				MITHO	. 50045225	701		
The same of the sa			OF RE					100		
Unit Letter Section Township Ran P 11 29N 8W		North/S South	South Line	Feet from the 800	East/V East	Vest Line	County: Sa	an Juan		
Latitude	36.73431		Longitud	e 107.63892						
	NAT	TURE	OF REL	EASE						
Type of Release: produced water/condensate	e		Volume of	Release: unknov	vn		Recovered: N			
Source of Release: below grade tank – 21 bb	bl		unknown	Hour of Occurren	ce:	Date and 2010; 12:		covery: March		
Was Immediate Notice Given? ☐ Yes	☑ No ☐ Not R	equired	If YES, To	Whom?						
By Whom?			Date and F							
Was a Watercourse Reached?	s 🛛 No		If YES, Vo	olume Impacting	the Wate	ercourse.				
f a Watercourse was Impacted, Describe Fu	ılly.*									
Describe Cause of Problem and Remedial A chloride below standards. Laboratory result 30.9 from the samples collected on March 9 site delineation. The results of the sampling	s for TPH via method, 2010. On November, are described below.	1 418.1 we er 23, 201	ere 4,030 and 5, laboratory	d 3,330 via metho samples were co	od 8015; illected fi	benzene w rom the for	as 5.29 and to mer location	total BTEX wa n of the BGT fo		
chloride below standards. Laboratory result 30.9 from the samples collected on March 90 ite delineation. The results of the sampling Describe Area Affected and Cleanup Action toole (TH1) at the former location of the BG in pill and release closure standard and was like standard for TPH via 8015 with a combined BTEX with a chloride concentration of 37 pill and additional test hole (TH2) was advanced for laboratory analysis at 9' and 13' below gethloride was non-detect at 9'. The sample re	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF	soil samp lo' and 13 ckfill mat 70 ppm. I	oles were col 3' below gro berial. The la However, the and immedia each hole weed. The TPF	d 3,330 via methor samples were confidence on Novemund surface. The aboratory sample alaboratory sample ately down of the tere non-detect for H does not appear	od 8015; blected fi ber 23, 2 laborato collected ele collected e suspecter r TPH an	benzene w rom the for 2015. Sampry sample d at 10' was ted a 13' w ed gradient ad BTEX at or have th	ples were co- collected at a sabove spill was non-detect. Two samp	total BTEX was a of the BGT for the BGT fo		
chloride below standards. Laboratory result 80.9 from the samples collected on March 9.	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF of the site. A sampling bove is true and comport and/or file certain restance of a C-141 reportance of a C-141	soil samp lo' and la ckfill mat 70 ppm. I clocation esults for H is defin- ing location olete to the release no ort by the	on the contamination of the co	d 3,330 via methor samples were confident on Novem und surface. The aboratory sample elaboratory sample ately down of the tere non-detect for H does not appear I laboratory result knowledge and und perform correctarked as "Final R fron that pose a thrighter than the same than the s	od 8015; ollected fi ober 23, 2 laborato collected de collected r TPH and to have, as are atta understand tive actifuce	benzene weren the form the for	ples were co- collected at a sabove spill was non-detect. Two samp and 51 ppm cle potential to the country of	llected from a root of the BGT for the BGT for the BGT for 7.5' was below and release clost for TPH and les were collect hloride at 13'; o, migrate and DCD rules and may endanger ator of liability ter, human hea		
chloride below standards. Laboratory result 80.9 from the samples collected on March 90 site delineation. The results of the sampling collected and Cleanup Action 100 (TH1) at the former location of the BG spill and release closure standard and was like standard for TPH via 8015 with a combined 3TEX with a chloride concentration of 37 p. An additional test hole (TH2) was advanced for laboratory analysis at 9' and 13' below generated was non-detect at 9'. The sample reposes very little threat. BP requests closure thereby certify that the information given all regulations all operators are required to repose thould their operations have failed to adequate the environment. In addition, NMOCD as	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF of the site. A sampling bove is true and comport and/or file certain restance of a C-141 reportance of a C-141	soil samp lo' and la ckfill mat 70 ppm. I clocation esults for H is defin- ing location olete to the release no ort by the	on the contamination of the co	d 3,330 via methor samples were confident on Novem und surface. The aboratory sample elaboratory sample ately down of the tere non-detect for H does not appear I laboratory result knowledge and und perform correctarked as "Final R fron that pose a thrighter than the same than the s	od 8015; ollected fi liber 23, 2 laborato collected ele collecte ele collecte r TPH an to have, as are atta inderstan ctive acti deport" de eat to gr responsi	benzene were the form	ples were co- collected at 's above spill vas non-detect. Two samp nd 51 ppm cl e potential to cuant to NMC eases which is eve the oper cy, surface wal- compliance were	total BTEX was a of the BGT for the BGT for Total BTEX was below and release clot for TPH and the swere collect horide at 13°; or, migrate and DCD rules and may endanger ator of liability ter, human hear ith any other		
chloride below standards. Laboratory result 80.9 from the samples collected on March 90 ite delineation. The results of the sampling Describe Area Affected and Cleanup Action toole (TH1) at the former location of the BG ipill and release closure standard and was lift standard for TPH via 8015 with a combined BTEX with a chloride concentration of 37 p. An additional test hole (TH2) was advanced for laboratory analysis at 9° and 13° below gothloride was non-detect at 9°. The sample reposes very little threat. BP requests closure thereby certify that the information given altered and the information given altered to repose the proposed to the environment. The acceptant of the environment. The acceptant of the environment. In addition, NMOCD and the environment.	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF of the site. A sampling bove is true and comport and/or file certain restance of a C-141 reportance of a C-141	soil samp 10° and 13° ckfill mat 70° ppm. It is defining location Helease no ort by the release no ort by the remediate report do	oles were col 3' below gro erial. The la However, the and immedia each hole w ed. The TPF on figure and best of my etifications at NMOCD m contaminations not reliev	d 3,330 via methor samples were confidence on Novemund surface. The aboratory sample elaboratory sample ately down of the vere non-detect for H does not appear I laboratory result knowledge and und perform correctarked as "Final Rion that pose a three the operator of	od 8015; ollected finds of the collected de	benzene weren the form the for	ples were co- collected at 's above spill vas non-detect. Two samp nd 51 ppm cl e potential to cuant to NMC eases which is eve the oper cy, surface wal- compliance were	total BTEX was a of the BGT for the BGT for Total BTEX was below and release clot for TPH and the swere collect horide at 13°; or, migrate and DCD rules and may endanger ator of liability ter, human hear ith any other		
chloride below standards. Laboratory result (30.9) from the samples collected on March (30.9) from the samples collected on March (30.9) from the samples collected on March (30.9) from the sampling describe Area Affected and Cleanup Action (30.1) and release closure standard and was lift tandard for TPH via 8015 with a combined (3TEX with a chloride concentration of 37 p. (31.1) An additional test hole (TH2) was advanced for laboratory analysis at 9° and 13° below go (31.1) the sample reposes very little threat. BP requests closure thereby certify that the information given all egulations all operators are required to repose the laboratory analysis at (31.1) the sample repose the laboratory analysis at (31.1) and (31.1) the sample reposes very little threat. BP requests closure thereby certify that the information given all egulations all operators are required to repose the laboratory analysis. The acceptional their operations have failed to adequate the environment. In addition, NMOCD acceptance of the control of the contro	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF of the site. A sampling bove is true and comport and/or file certain restance of a C-141 reportance of a C-141	soil samp lo' and 13 ekfill mat 70 ppm. If I location esults for H is defin- ng location of the selease no ort by the remediate report do	oles were col 3' below gro erial. The la However, the and immedia each hole w ed. The TPF on figure and best of my etifications at NMOCD m contaminations not reliev	d 3,330 via methor samples were confidence on Novem und surface. The aboratory sample elaboratory sample elaboratory sample ately down of the vere non-detect for H does not appear I laboratory result knowledge and und perform correctarked as "Final R ion that pose a three the operator of OIL CON Environmental S	od 8015; blected fi bler 23, 2 laborato collected ble collected collected r TPH an to have, s are atta understan etive acti deport" de reat to gr responsi SERV	benzene weren the form the for	ples were concollected at a sabove spill was non-detected. Two samping 51 ppm che potential to the concollected at a sabove spill was non-detected. Two samping 51 ppm che potential to the concollected at a sabove spill was non-detected at a sabove spill was non	total BTEX was a of the BGT for the BGT for Total BTEX was below and release clot for TPH and the swere collect horide at 13°; or, migrate and DCD rules and may endanger ator of liability ter, human hear ith any other		
chloride below standards. Laboratory result (0.9 from the samples collected on March 9), ite delineation. The results of the sampling describe Area Affected and Cleanup Action (100) (TH1) at the former location of the BG pill and release closure standard and was lilt tandard for TPH via 8015 with a combined BTEX with a chloride concentration of 37 pill and additional test hole (TH2) was advanced for laboratory analysis at 9' and 13' below go hloride was non-detect at 9'. The sample reposes very little threat. BP requests closure thereby certify that the information given altered altered and their operations have failed to adequate the environment. In addition, NMOCD are deteral, state, or local laws and/or regulation stignature:	s for TPH via method, 2010. On November, are described below. Taken.* Subsequent T at interval of 7.5', 1 kely located in the bac concentration of 1,07 pm. near the former BGT ground surface. The results indicate the TPF of the site. A sampling bove is true and comport and/or file certain restance of a C-141 reportance of a C-141	soil samp 10° and 13° ckfill mat 70° ppm. I 10° location esults for H is defining location of the there is the trelease no ort by the remediate report do	oles were colors, laboratory oles were colors, laboratory oles were colors, laboratory oles were colors, laboratory original. The laboratory and immediate each hole were. The TPF on figure and e best of my otifications and NMOCD materials and the contamination of the properties.	d 3,330 via methor samples were confident on Novemund surface. The aboratory sample is laboratory sample at laboratory sample at laboratory sample at laboratory result is laboratory result in laboratory result in laboratory result is laboratory result in laboratory result in laboratory result is laboratory result in laboratory result in laboratory result is laboratory result in labora	od 8015; blected fi bler 23, 2 laborato collected ble collected collected r TPH an to have, s are atta understan etive acti deport" de reat to gr responsi SERV	benzene weren the form the for	ples were concollected at a sabove spill was non-detected. Two samping 51 ppm che potential to the concollected at a sabove spill was non-detected. Two samping 51 ppm che potential to the concollected at a sabove spill was non-detected at a sabove spill was non	total BTEX was a of the BGT for a control of the BGT for TPH and control of the BGT for TPH and control of the BGT for the BGT		



CHENT BP	BLAGG E	NGINEERIN	IG, INC.	API# 3004522	2361
CLIENT: DF	P.O. BOX 87, B			7.4.7.7.	.001
	The same that the same and the same that the	5) 632-1199		TANK ID (if applicble): 21 B	GT
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGA	ITION I/ OTHER:	PAGE #:1 c	of 1
SITE INFORMATION	I: SITE NAME: VANDE	WART A #1	A	DATE STARTED: 11/2	23/15
QUAD/UNIT: P SEC: 11 TWP:	29N RNG: 8W PM:	NM CNTY:	SJ ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 800'S / 800'I	E SE/SE LEASE T	YPE: FEDERAL	STATE / FEE / INDIAN		
0=0=0=00			RIKE	SPECIALIST(S): N	IJV
REFERENCE POINT	T: WELL HEAD (W.H.) GPS	COORD.: 3	6.73446 X 107.6390	5 GLELEV.: 6	5,396'
1) 21 BGT (SW/DB)	GPS COORD.: 36	.73431 X 107.6		BEARING FROM W.H.: 60', S	35E
2)	GPS COORD.:		DISTANCE/	BEARING FROM W.H.:	ALC: N
3)	GPS COORD.:		DISTANCE/	BEARING FROM W.H.:	
4)	GPS COORD.:			BEARING FROM W.H.:	
CAMPLING DATA:		OD LAD LICED			OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0		HALL	MED/8004B/300 0 (CI)	READING (ppm)
1) SAMPLE ID: TH1 @ 7.5' () 2) SAMPLE ID: TH1 @ 10' (2)	24)			015B/8021B/300.0 (CI) 015B/8021B/300.0 (CI)	1,824
2) SAMPLE ID: TH1 @ 10 (2)	OFWITEE DATE			015B/8021B/300.0 (CI)	3.2
4) SAMPLE ID: TH2 @ 9' (2			20 407 1 70 427 64 67	015B/8021B/300.0 (CI)	0.0
5) SAMPLE ID: TH2 @ 13' (2	21) SAMPLE DATE: 11/23/	115 SAMPLE TIME:	1115 LAB ANALYSIS: 80	015B/8021B/300.0 (CI)	0.0
SOIL DESCRIPTION	SOIL TYPE SAND SILTY SAND	SILT / SILTV CLAV / CLA	V/GRAVEL/OTHER		ON ER
SOIL COLOR: DARK YELLOV	the same of the sa			/ COHESIVE / MEDIUM PLASTIC / HIGH	ULA DI VELIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY		and the second of the second of		M / STIFF / VERY STIFF / HARD	ILI PLASTIC
CONSISTENCY (NON COHESIVE SOILS): LC				APPROX. 8.5 - 9 FT. BELOW	GRADE.
MOISTURE: DRY/SLIGHTLYMOIST/W					
SAMPLE TYPE: GRAB COMPOSITE - #		ANY AREAS DISPLAYIN	IG WETNESS: YES NO EXP	LANATION -	
DISCOLORATION/STAINING OBSERVED: YES			Service and the service and th	all Hoard, and the last of	
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:		ANATION: IDENTIFIED	D DURING BGT CONFIRM	IATION SAMPLING.	
OTHER: TH2 APPROX. 9 - 10 FT. FROM		TO BE LIMITED BE	TWEEN APPROX. 8.5 - 12	FT. BELOW GRADE. RELEA	ASE
COULD BE CATEGORIZED AS NON R	REPORTABLE BASED ON ESTIMA	ATED IMPACTED SO	IL QUANTITY BEING < 10	CUBIC YARDS.	
SOIL IMPACT DIMENSION ESTIMATION:		ft. X		ESTIMATION (Cubic Yards) :	5 - 10
The state of the s	IEAREST WATER SOURCE: >1,000	NEAREST SURFACE	WATER: <1,000' NN	OCD TPH CLOSURE STD: 1,0)00 ppm
SITE SKETCH	BGT Located: off on sit	e PLOT PLA	N circle: attached	VM CALIB. READ. = 103.1 pp	om RF =0.52
			A	VM CALIB. GAS = 100 PP	
WELL			N	IME: 10:45 (am)pm DATE: 11	1/23/15
HEAD			1717	MISCELL. NO	TES
	FORMER				ILO
	FORMER 21,BGT			WO:	
	POSTION T.B. ~ 6'			REF. #: P - 278	
	B.G.		77 - 14	VID: VHIXONEVRI	Λ
				PJ#:	100
			100	Permit date(s): 12/10	10000
	X TH2			OCD Appr. date(s): 01/13 Tank OVM = Organic Vapor Me	5/10 ster
	and the second s	OOWN SLOPE		ID ppm = parts per million	
	1111	ECTION		21 BGT Sidewalls Visible: Y/	
The second second second second	*		X - S.P.D.	BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK, E.D. = EXCAVATION				BGT Sidewalls Visible: Y /	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE: SW-SINGL	.OW-GRADE TANK LOCATION; SPD = SAMPLE F E WALL; DW - DOUBLE WALL; SB - SINGLE BOT			Magnetic declination: 10) E
NOTES: GOOGLE FARTH IMAGE			11/23/15	THE PARTY OF THE P	

Lab Order 1511A76

Date Reported: 12/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH1 @ 7.5' (21)

 Project:
 Vandewart A #1A
 Collection Date: 11/23/2015 10:15:00 AM

 Lab ID:
 1511A76-001
 Matrix: SOIL
 Received Date: 11/24/2015 8:00:00 AM

RL Qual Units Analyses Result **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride ND 11/30/2015 7:32:35 PM 22556 30 mg/Kg **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM 11/30/2015 3:15:53 PM 22517 Diesel Range Organics (DRO) ND 9.6 mg/Kg Surr: DNOP 11/30/2015 3:15:53 PM 22517 131 70-130 %REC **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 11/26/2015 2:24:34 AM 22514 Gasoline Range Organics (GRO) ND 5.0 mg/Kg Surr: BFB 86.8 66.2-112 %REC 11/26/2015 2:24:34 AM 22514 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 11/26/2015 2:24:34 AM 22514 Benzene ND 0.050 mg/Kg Toluene ND 0.050 mg/Kg 11/26/2015 2:24:34 AM 22514 Ethylbenzene ND mg/Kg 11/26/2015 2:24:34 AM 22514 0.050 Xylenes, Total ND 0.099 mg/Kg 11/26/2015 2:24:34 AM 22514 Surr: 4-Bromofluorobenzene 80-120 %REC 11/26/2015 2:24:34 AM 22514 112

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1511A76

Date Reported: 12/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH1 @ 10' (21)

Project: Vandewart A #1A

Collection Date: 11/23/2015 10:20:00 AM

Lab ID: 1511A76-002

Matrix: SOIL

Received Date: 11/24/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	130	30		mg/Kg	20	11/30/2015 8:09:49 PM	22556
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Analyst:	TOM
Diesel Range Organics (DRO)	820	97		mg/Kg	10	11/30/2015 3:42:56 PM	22517
Surr: DNOP	0	70-130	S	%REC	10	11/30/2015 3:42:56 PM	22517
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB
Gasoline Range Organics (GRO)	290	48		mg/Kg	10	11/26/2015 3:38:11 AM	22514
Surr: BFB	280	66.2-112	S	%REC	10	11/26/2015 3:38:11 AM	22514
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.24		mg/Kg	10	11/26/2015 3:38:11 AM	22514
Toluene	1.4	0.48		mg/Kg	10	11/26/2015 3:38:11 AM	22514
Ethylbenzene	0.67	0.48		mg/Kg	10	11/26/2015 3:38:11 AM	22514
Xylenes, Total	20	0.96		mg/Kg	10	11/26/2015 3:38:11 AM	22514
Surr: 4-Bromofluorobenzene	142	80-120	S	%REC	10	11/26/2015 3:38:11 AM	22514

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1511A76

Date Reported: 12/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH1 @ 13' (21)

 Project:
 Vandewart A #1A
 Collection Date: 11/23/2015 10:30:00 AM

 Lab ID:
 1511A76-003
 Matrix: SOIL
 Received Date: 11/24/2015 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	37	30	mg/Kg	20	11/30/2015 8:47:03 PM	22556
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/30/2015 4:10:17 PM	22517
Surr: DNOP	124	70-130	%REC	1	11/30/2015 4:10:17 PM	22517
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/26/2015 4:51:55 AM	22514
Surr: BFB	94.1	66.2-112	%REC	1	11/26/2015 4:51:55 AM	22514
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.048	mg/Kg	1	11/26/2015 4:51:55 AM	22514
Toluene	ND	0.048	mg/Kg	1	11/26/2015 4:51:55 AM	22514
Ethylbenzene	ND	0.048	mg/Kg	1	11/26/2015 4:51:55 AM	22514
Xylenes, Total	ND	0.096	mg/Kg	1	11/26/2015 4:51:55 AM	22514
Surr: 4-Bromofluorobenzene	118	80-120	%REC	1	11/26/2015 4:51:55 AM	22514

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1511A76

Date Reported: 12/2/2015

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: TH2 @ 9' (21)

CLIENT: Blagg Engineering Vandewart A #1A Collection Date: 11/23/2015 11:05:00 AM Project:

Lab ID: 1511A76-004 Matrix: SOIL Received Date: 11/24/2015 8:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	11/30/2015 8:59:27 PM	22556
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/30/2015 4:37:35 PM	22517
Surr: DNOP	121	70-130	%REC	1	11/30/2015 4:37:35 PM	22517
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/26/2015 6:29:58 AM	22514
Surr: BFB	86.7	66.2-112	%REC	1	11/26/2015 6:29:58 AM	22514
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.050	mg/Kg	1	11/26/2015 6:29:58 AM	22514
Toluene	ND	0.050	mg/Kg	1	11/26/2015 6:29:58 AM	22514
Ethylbenzene	ND	0.050	mg/Kg	1	11/26/2015 6:29:58 AM	22514
Xylenes, Total	ND	0.099	mg/Kg	1	11/26/2015 6:29:58 AM	22514
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	11/26/2015 6:29:58 AM	22514

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9
- Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1511A76

Date Reported: 12/2/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH2 @ 13' (21)

 Project:
 Vandewart A #1A
 Collection Date: 11/23/2015 11:15:00 AM

 Lab ID:
 1511A76-005
 Matrix: SOIL
 Received Date: 11/24/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	55	30		mg/Kg	20	11/30/2015 9:11:52 PM	22556
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S				Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/30/2015 5:04:34 PM	22517
Surr: DNOP	115	70-130		%REC	1	11/30/2015 5:04:34 PM	22517
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/26/2015 6:54:30 AM	22514
Surr: BFB	82.0	66.2-112		%REC	1	11/26/2015 6:54:30 AM	22514
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.049		mg/Kg	1	11/26/2015 6:54:30 AM	22514
Toluene	ND	0.049		mg/Kg	1	11/26/2015 6:54:30 AM	22514
Ethylbenzene	ND	0.049		mg/Kg	1	11/26/2015 6:54:30 AM	22514
Xylenes, Total	ND	0.098		mg/Kg	1	11/26/2015 6:54:30 AM	22514
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	11/26/2015 6:54:30 AM	22514

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit

C	hain-	of-Cus	stody Record	Turn-Around	Γime:	magna de la		1					-		<i>e</i> T *	-			10. ir men		
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush				H										NT	_	
X E		A HAPPIN		Project Name						-										100	•
Mailing A	ddress:	P.O. BO	X 87	VA	NDEWART	A # 1A		49	01 F	lawk					nme			n 37109	0		
		BLOOM	FIELD, NM 87413	Project #:							45-3				505				,		
Phone #:	Ma.	(505) 63	32-1199								10 0	-	-		Rec		-	,,			
email or F	ax#:	UME 8		Project Manag	ger:				ny									~			T
QA/QC Pad Standa			Level 4 (Full Validation)		JEFF BLAG	g	₩₽ 5 (8021B)	TPH (Gas only)	twno)			S)		04,504	PCB's			er - 300.1)			
Accreditat	ion:	Ter.Ret		Sampler:	NELSON VE	ELEZ ny	8	Gas	DRO #	1)	1)	SIM		02,0	8082			wate		sample	
□ NELAP		□ Other		On Ice	X Yes	□ No	1	PH	-	418.1)	504.	3270		N,E	-		F	0.00		Sa	IN TO
□ EDD (T	ype)			Sample Temp	erature: ./		1	+	(GRC	po 7	po	ors	tals	N.	cide	F	-Y0	1-30		le le	2 2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +MTB	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water	de de	5 pt. composite	0
11/23/15	1015	SOIL	TH1 @ 7.5' (21)	4 oz 1	Cool	-001	٧		٧						1			٧	1	_	T
11/23/15	1020	SOIL	TH1 @ 10' (21)	4 oz 1	Cool	-000	٧		٧									٧	1	1	十
11/23/15	1030	SOIL	TH1 @ 13' (21)	4 oz 1	Cool	-003	٧		٧						1			٧	1	1	丰
11/23/15	1105	SOIL	TH2 @ 9' (21)	4 oz 1	Cool	-004	٧		٧									٧	1	+	+
11/23/15	1115	SOIL	TH2 @ 13' (21)	4 oz 1	Cool	-005	٧		٧									٧	1	-	士
	Parkettan Transport																			-	+
																				-	+
				Section 18	The lates																I
																				+	+
Date: 1/23/(5	Time:	Relinquishe	no Uf	Received by:	House	Date Time	BI	nark	RECT				urt,	Farm	ningt	on, N	IM 8	7401			1
123/15	1829	In	ut Wall	Dot ac	Mest 11	1/24/15 0800	Re	ferer	ice#	: _		P-278	8	_	Pay	ykey:		HIXO	NEVR	1	

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1511A76

02-Dec-15

Client:

Blagg Engineering

Project:

Vandewart A #1A

Sample ID MB-22556 SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 22556

RunNo: 30531

Prep Date: 11/30/2015 Analysis Date: 11/30/2015

SeqNo: 932129

Units: mg/Kg

Analyte

Chloride

Result PQL ND 1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD **RPDLimit**

Qual

Client ID: LCSS

Sample ID LCS-22556

SampType: LCS

TestCode: EPA Method 300.0: Anions RunNo: 30531

Prep Date: 11/30/2015

Batch ID: 22556

Analysis Date: 11/30/2015

SeqNo: 932130

Units: mg/Kg

Analyte

PQL

15.00

0

SPK value SPK Ref Val %REC

HighLimit 110 %RPD

Qual

Chloride

Result 14

93.7

RPDLimit

1.5

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank E

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Value above quantitation range Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1511A76

02-Dec-15

Client: Blagg Engineering
Project: Vandewart A #1A

Sample ID MB-22517 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 22517 RunNo: 30517 Prep Date: 11/24/2015 Analysis Date: 11/30/2015 SeqNo: 931686 Units: mg/Kg HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 9.9 10.00 99.0 70 130

Sample ID LCS-22517 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 22517 RunNo: 30517 Prep Date: 11/24/2015 Analysis Date: 11/30/2015 SeqNo: 931687 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit Analyte PQL LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 53 10 50.00 106 57.4 139 0 Surr: DNOP 5.7 5.000 114 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

Page 7 of 9

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1511A76

02-Dec-15

Client:

Blagg Engineering

Project:

Vandewart A #1A

Sample ID MB-22511 SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 22511

RunNo: 30496

Units: %REC

Analyte

Prep Date: 11/24/2015 Analysis Date: 11/25/2015

820

SeqNo: 930913

Surr: BFB

PQL SPK value SPK Ref Val Result

%REC 82.1

66.2

%RPD

RPDLimit

Qual

Sample ID LCS-22511

Client ID: LCSS SampType: LCS Batch ID: 22511 TestCode: EPA Method 8015D: Gasoline Range RunNo: 30496

LowLimit

Units: %REC

112

HighLimit

Analyte

Client ID:

Prep Date: 11/24/2015 Analysis Date: 11/25/2015

Result

1000

SeqNo: 930914

Qual

Surr: BFB

1100

SPK value SPK Ref Val %REC 1000

110

LowLimit HighLimit %RPD

RPDLimit

Sample ID MB-22514

SampType: MBLK

Batch ID: 22514

Analysis Date: 11/25/2015

PQL

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 30496 SeqNo: 930934

Units: mg/Kg %RPD

Analyte Gasoline Range Organics (GRO)

Prep Date: 11/24/2015

PBS

Result PQL ND 5.0

SPK value SPK Ref Val %REC

1000

25.00

1000

SPK value SPK Ref Val

66.2

LowLimit

112

HighLimit

RPDLimit

Qual

Surr: BFB Sample ID LCS-22514

Result

24

1100

820

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 30496

81.7

66.2

Units: mg/Kg

Gasoline Range Organics (GRO)

Surr: BFB

Client ID:

LCSS Prep Date: 11/24/2015

Batch ID: 22514 Analysis Date: 11/25/2015 PQL

5.0

SeqNo: 930935 %REC

97.0

105

LowLimit 79.6

HighLimit %RPD 122

112

RPDLimit

Page 8 of 9

Qual

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1511A76

02-Dec-15

Client:	Blagg E	Engineering
Project:	Vandev	vart A #1A
Sample ID MB	-22511	SampType: MBLK

Client ID: PBS	Batch	ID: 22	511	F	RunNo: 3	0496				
Prep Date: 11/24/2015	Analysis D	ate: 1	1/25/2015	8	SeqNo: 9	30957	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000	Territoria de la constantina della constantina d	103	80	120			No Att

TestCode: EPA Method 8021B: Volatiles

Sample ID LCS-22511	Samp	Type: LC	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles					
Client ID: LCSS	Bato	h ID: 22	2511	F	RunNo: 3	30496							
Prep Date: 11/24/2015	Analysis I	Analysis Date: 11/25/2015			Analysis Date: 11/25/2015			SeqNo: 9	30958	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: 4-Bromofluorobenzene	1.2		1.000		125	80	120		THE STORY	S			

Sample ID MB-22514	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 22	514	F	RunNo: 3	0496				
Prep Date: 11/24/2015	Analysis [Date: 1	1/25/2015		SeqNo: 9	30970	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050			167					
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID LCS-22514	Samp	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 22	514	F	RunNo: 3	0496				
Prep Date: 11/24/2015	1/25/2015	8	SeqNo: 9	30971	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.4	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	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

Page 9 of 9

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

Sample Log-In Check List

Website: www.hallenvironmental.com BLAGG Work Order Number: 1511A76 RcptNo: 1 Client Name: Received by/date: Logged By: **Ashley Gallegos** 11/24/2015 8:00:00 AM Completed By: **Ashley Gallegos** 11/24/2015 11:18:53 AM Reviewed By: 10 Chain of Custody Not Present Yes No 🗌 1. Custody seals intact on sample bottles? No 🗌 Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 Yes V NA 🗌 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No No 🗌 Sample(s) in proper container(s)? Yes V No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗌 V 8. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 NA 🗌 9. Was preservative added to bottles? Yes No VOA Vials Yes No 🗌 10. VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? # of preserved bottles checked Yes V No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 14. Is it clear what analyses were requested? Checked by: No 🗌 Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Yes 16. Was client notified of all discrepancies with this order? No NA V Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.1 Good Not Present