

District I  
1625 N. Freach 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

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.

**Release Notification and Corrective Action**

30-045-23 725

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company	BP America Production Company	Contact:	Courtney Cochran
Address	200 Energy Ct. Farmington, NM 87401	Telephone No.:	505-326-9457
Facility Name	Jaquez GC D 1E	Facility Type:	Natural Gas Well

Surface Owner	FEE	Mineral Owner	FEE	API No.	300452372500
---------------	-----	---------------	-----	---------	--------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	San Juan
N	6	29N	9W	1030	South	960	West		

Latitude 36.74955 Longitude 107.82407

**NATURE OF RELEASE**

Type of Release:	condensate	Volume of Release:	unknown	Volume Recovered:	none
Source of Release:	300 bbl Production Tank	Date and Hour of Occurrence:	unknown; historical in nature	Date and Hour of Discovery:	3/26/2012
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

RCVD APR 25 '12  
OIL CONS. DIV.  
DIST. 3

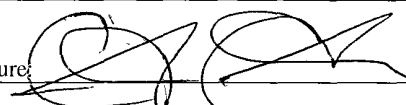
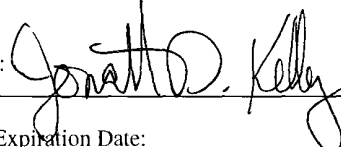
Describe Cause of Problem and Remedial Action Taken.\*

During the removal of 300 bbl production tank impacts below tank were discovered. Immediately below tank wet soils were encountered. Six inches below surface a dense shale stone was found. Initial advancements extended to 9 feet below surface. Clean up and remediation took place between 3/26 and 4/6.

Describe Area Affected and Cleanup Action Taken.\*

Clean-up included the removal of impacted rocks and soils totaling 240 cubic yards. This material was taken to BP's Crouch Mesa's landfarm for remediation. Initial and final field reports and laboratory analysis are included with this report.

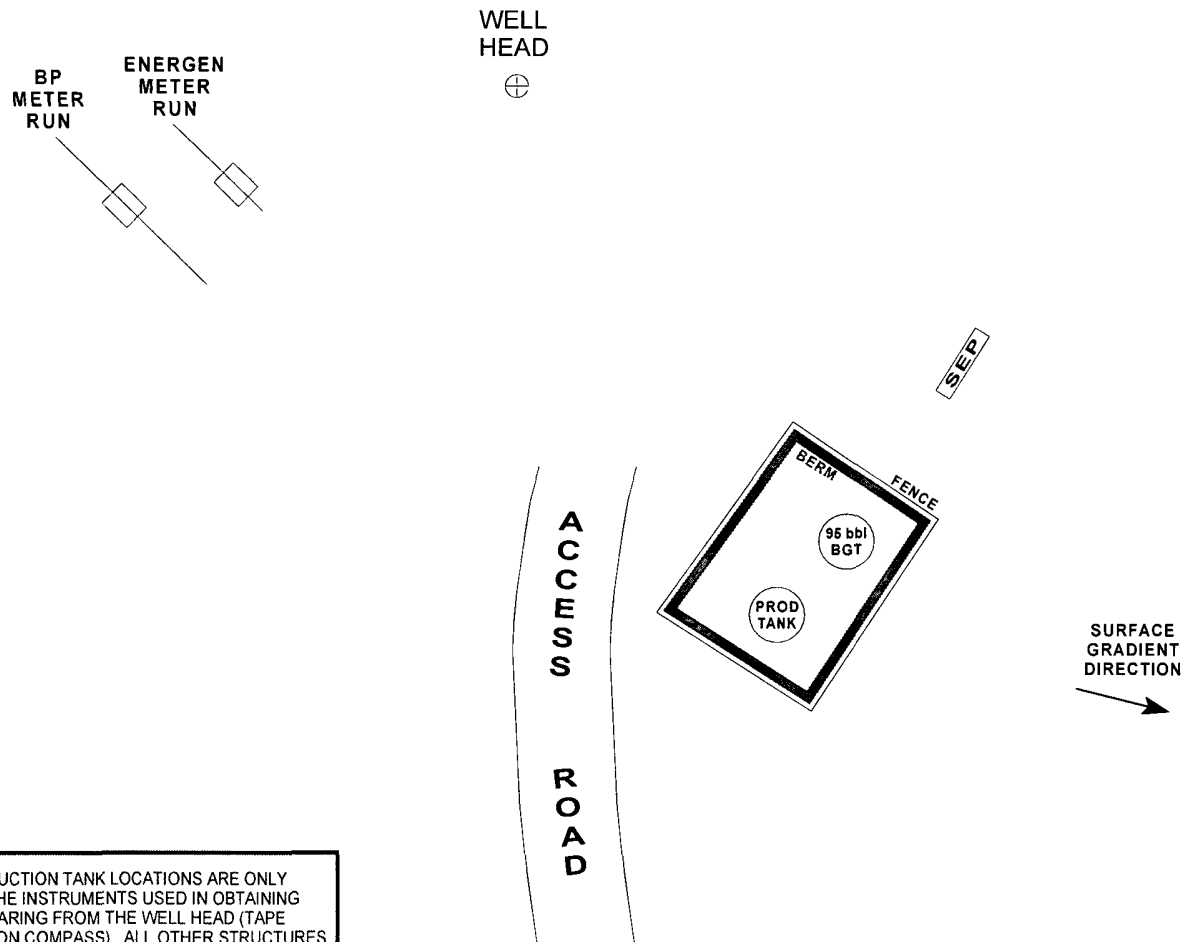
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Courtney Cochran		Approved by Environmental Specialist: 	
Title: Field Environmental Advisor		Approval Date: 5/01/2012	Expiration Date:
E-mail Address: Courtney.Cochran@bp.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/24/2012	Phone: 326-9457		

\* Attach Additional Sheets If Necessary

NJK1212251956

# FIGURE 1



95 BBL BGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS) ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE  
MAGNETIC DECLINATION USED ~ 10° E

0 40 80 FT.

BP AMERICA PRODUCTION COMPANY

JAQUEZ GC D # 1E

SE/4 SW/4 SEC. 6, T29N, R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE (505) 632-1199

PROJECT: RELEASE INVESTIGATION

DRAWN BY: NJV

FILENAME: JAQUEZ GC D 1E-SM.SKF

REVISED: 04-06-12

**SITE  
MAP**

04/12

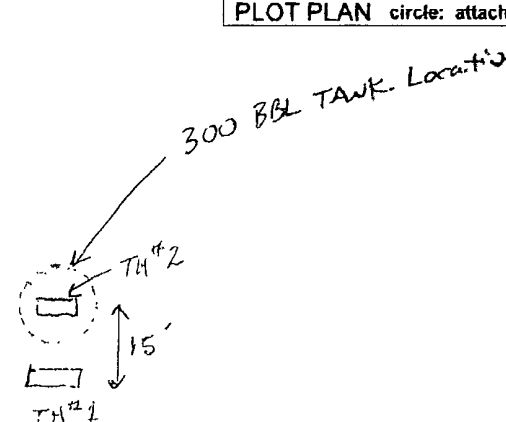


Jaquez GC D #1E  
Unit N, Sec. 6, T29N, R9W  
API #: 300-45-23725  
  
36.749493°N / 107.824248°W or  
36° 44' 58.17"N / 107° 49' 27.2"W

feet 200  
meters 80

Production tank - 126.5 ft., S26.5E from well head  
  
36.749180N / 107.824060°W or  
36° 44' 57.05"N / 107° 49' 26.6"W



CLIENT: <u>BP</u>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	API #: <u>30-045-23725</u> TANK ID (if applicable): <u>300 AST</u>
<b>FIELD REPORT:</b> (circle one): BGT CONFIRMATION / <u>RELEASE INVESTIGATION</u> / OTHER:		PAGE #: <u>2</u> of <u>    </u>
<b>SITE INFORMATION:</b> SITE NAME: <u>JACQUEZ GC D 1E</u>		DATE STARTED: <u>3/26/2012</u> DATE FINISHED: <u>    </u>
QUAD/UNIT: <u>N</u> SEC: <u>6</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> 1/4 - 1/4 FOOTAGE: <u>    </u> LEASE TYPE: <u>FEDERAL / STATE</u> <u>(FEE)</u> <u>INDIAN</u>		ENVIRONMENTAL SPECIALIST(S): <u>JCB</u>
LEASE #: <u>FEE</u> PROD. FORMATION: <u>    </u> CONTRACTOR: <u>ELKHORN (JUSTIN)</u>		
<b>REFERENCE POINT:</b> WELL HEAD (W.H.) GPS COORD.: <u>    </u> GL ELEV.: <u>5649</u>		
1) TH #1 (South of Tank) GPS COORD.: <u>    </u> DISTANCE/BEARING FROM W.H.: <u>    </u> 2) TH #2 (Source) GPS COORD.: <u>    </u> DISTANCE/BEARING FROM W.H.: <u>120' S25E</u> 3) <u>    </u> GPS COORD.: <u>    </u> DISTANCE/BEARING FROM W.H.: <u>    </u> 4) <u>    </u> GPS COORD.: <u>    </u> DISTANCE/BEARING FROM W.H.: <u>    </u>		
<b>SAMPLING DATA:</b> CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <u>HALL</u>		OVM READING (ppm) <u>245</u>
1) SAMPLE ID: <u>SOURCE @ 9'</u> SAMPLE DATE: <u>3/29/2012</u> SAMPLE TIME: <u>1217</u> LAB ANALYSIS: <u>TPH/BTEX/CL</u> 2) SAMPLE ID: <u>    </u> SAMPLE DATE: <u>    </u> SAMPLE TIME: <u>    </u> LAB ANALYSIS: <u>    </u> 3) SAMPLE ID: <u>    </u> SAMPLE DATE: <u>    </u> SAMPLE TIME: <u>    </u> LAB ANALYSIS: <u>    </u> 4) SAMPLE ID: <u>    </u> SAMPLE DATE: <u>    </u> SAMPLE TIME: <u>    </u> LAB ANALYSIS: <u>    </u>		
<b>SOIL DESCRIPTION:</b> SOIL TYPE: <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL</u> <u>(OTHER)</u> <u>Backhoe</u> SOIL COLOR: <u>    </u> <u>Shalestone</u> COHESION (ALL OTHERS): <u>NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE</u> <u>(HIGHLY COHESIVE)</u> CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE / FIRM / DENSE</u> <u>(VERY DENSE)</u> MOISTURE: <u>DRY</u> <u>(SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED)</u> SAMPLE TYPE: <u>GRAB</u> <u>(COMPOSITE - # OF PTS)</u> DISCOLORATION/STAINING OBSERVED: <u>YES</u> <u>(NO)</u> EXPLANATION: <u>    </u> ANY AREAS DISPLAYING WETNESS: <u>YES</u> <u>(NO)</u> EXPLANATION: <u>    </u> ADDITIONAL COMMENTS: <u>USE BACKHOE TO EXCAVATE INTO SHALESTONE TO ~9 FEET</u> <u>at 300 BBL TANK LOCATION</u>		
EXCAVATION DIMENSIONS (if applicable): <u>    </u> ft X <u>    </u> ft X <u>    </u> ft cubic yards excavated (if applicable): <u>    </u> DEPTH TO GROUNDWATER: <u>    </u> NEAREST WATER SOURCE: <u>    </u> NEAREST SURFACE WATER: <u>&lt; 200</u> NMOC TDH CLOSURE STD: <u>100</u> PPM		
<b>SITE SKETCH</b>		PLOT PLAN circle: <u>attached</u> OVM CALIB. READ. = <u>52.2</u> ppm RF = 0.52 OVM CALIB. GAS = <u>100</u> ppm TIME: <u>1046</u> am/pm DATE: <u>11/29</u>
TIME TH Depth OVM 1116 1 18" 0.0 1118 1 2 1/2' 0.8 1123 2 2 1/2' 581 1127 2 3 1/2' 790 1141 2 6' 604 1217 2 9' 243 		<b>MISCELL. NOTES</b> Tank ID: <u>    </u> BGT Sidewalls Visible: Y / N <u>(NA)</u> BGT Sidewalls Visible: Y / N / NA Magnetic declination: <u>10° E</u>
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGT = 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.		
TRAVEL NOTES: CALLOUT: <u>    </u> ONSITE: <u>3/29/2012</u>		

**Analytical Report**

Lab Order 1203B49

Date Reported: 4/3/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** Source @ 9'**Project:** Jaquez GC D1E**Collection Date:** 3/29/2012 12:17:00 PM**Lab ID:** 1203B49-001**Matrix:** MEOH (SOIL)**Received Date:** 3/30/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	43	99		mg/Kg	1	3/30/2012 2:40 05 PM
Surr: DNOP	107	77 4-131		%REC	1	3/30/2012 2:40 05 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	50	10		mg/Kg	2	3/30/2012 12:33:18 PM
Surr: BFB	154	69 7-121	S	%REC	2	3/30/2012 12:33 18 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	0.12	0.10		mg/Kg	2	3/30/2012 12:33 18 PM
Toluene	1.6	0.10		mg/Kg	2	3/30/2012 12:33:18 PM
Ethylbenzene	0.32	0.10		mg/Kg	2	3/30/2012 12:33:18 PM
Xylenes, Total	4.9	0.20		mg/Kg	2	3/30/2012 12:33 18 PM
Surr: 4-Bromofluorobenzene	96.1	80-120		%REC	2	3/30/2012 12:33 18 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>BRM</b>
Chloride	ND	15		mg/Kg	10	4/2/2012 6:59 11 AM

<b>Qualifiers:</b>	* / X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

# FIGURE 2



SAMP. ID	SAMP. DEPTH (ft.)	DATE	TIME	OVM (ppm)	TPH (ppm)	Benzene (ppm)	Tot.BTEX (ppm)
TH #1	1.5	3/29/12	1116	0.0	NA	NA	NA
TH #1	2.5	3/29/12	1118	0.8	NA	NA	NA
TH #2 (source)	2.5	3/29/12	1123	581	NA	NA	NA
TH #2 (source)	3.5	3/29/12	1127	790	NA	NA	NA
TH #2 (source)	6	3/29/12	1141	604	NA	NA	NA
TH #2 (source)	9	3/29/12	1217	243	73	0.12	6.94
1	3	4/3/12	1130	90.4	NA	NA	NA
2	3	4/3/12	1125	321	NA	NA	NA
3	3	4/3/12	1120	74.7	NA	NA	NA
4	3	4/3/12	1133	5.2	NA	NA	NA
5	7	4/3/12	1135	191	NA	NA	NA
6	7	4/3/12	1140	309	NA	NA	NA
7	3	4/6/12	0945	4.1	NA	NA	NA
SW-4PC (1,2,3,4)	3	4/3/12	1200	NA	410	ND	ND
EB-4PC (5,6)	7	4/3/12	1215	NA	73	ND	2.19
SW-4PC (2) (1,3,4,7)	3	4/6/12	1010	NA	ND	ND	ND
NMOCD RELEASE GUIDELINES CLOSURE STANDARDS				100	100	10	50

NOTE OVM - Organic Vapor Meter or Photo Ionization Detector (P.I.D.), ppm - parts per million or milligrams/Kilograms (mg/Kg), ND - Non detect at lab reporting limit, NA - Not available or applicable, TPH - Total Petroleum Hydrocarbons, BTEX - Benzene, Toluene, Ethylbenzene, & total Xylenes, NMOCD - New Mexico Oil Conservation Division

## OVM CALIBRATION

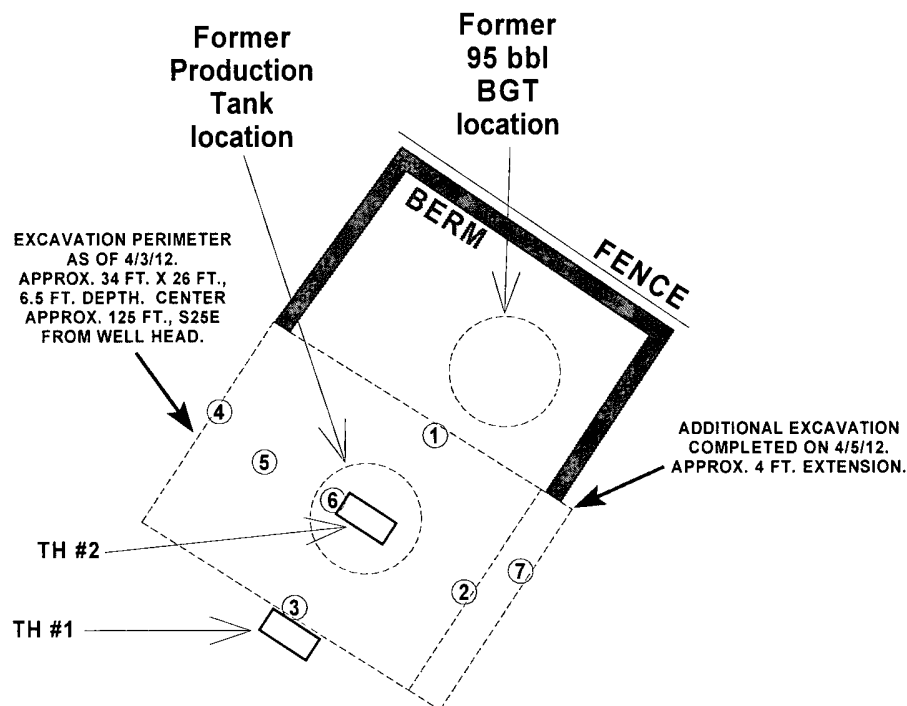
52.2 ppm; RF = 0.52  
(RF = response factor).  
100 ppm calibration gas  
- isobutylene.  
Date - 3/29/12 Time - 1046.

## OVM CALIBRATION

53.9 ppm; RF = 0.52  
(RF = response factor).  
100 ppm calibration gas  
- isobutylene.  
Date - 4/3/12 Time - 1143.

## OVM CALIBRATION

52.0 ppm; RF = 0.52  
(RF = response factor).  
100 ppm calibration gas  
- isobutylene.  
Date - 4/6/12 Time - 0954.



0 20 40 FT

95 BBL BGT & PRODUCTION TANK LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE & BRUNTON COMPASS) ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.  
MAGNETIC DECLINATION USED ~ 10° E

BP AMERICA PRODUCTION COMPANY

JAQUEZ GC D # 1E

SE/4 SW/4 SEC. 6, T29N, R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE (505) 632-1199

PROJECT: RELEASE INVESTIGATION

DRAWN BY: NJV

FILENAME: Jaquez GC D 1E Excav. Map.SKF

REVISED: 04-18-12

EXCAVATION  
SCHEMATIC

04/12

Excavation as of 4/3/12  
(34 X 26 X 6.5 ft.)  
shale bedrock from 1-7 ft.  
below grade

Extended excavation 4 ft,  
as of 4/6/12 (38 X 26 X 6.5 ft.)



Jaquez GC D #1E  
Unit N, Sec. 6, T29N, R9W  
API #: 300-45-23725

36.749493°N / 107.824248°W or  
36° 44' 58.17"N / 107° 49' 27.2"W

feet  
meters

100

40

Production tank - 126.5 ft., S26.5E from well head

36.749180N / 107.824060°W or  
36° 44' 57.05"N / 107° 49' 26.6"W



**Analytical Report**

Lab Order 1204148

Date Reported: 4/5/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** SW-4 PC @ 3' Production Tank**Project:** Jaquez GC D #1E**Collection Date:** 4/3/2012 12:00:00 PM**Lab ID:** 1204148-001**Matrix:** SOIL**Received Date:** 4/4/2012 9:49:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	280	10		mg/Kg	1	4/5/2012 8:36:03 AM
Surr: DNOP	110	77	4-131	%REC	1	4/5/2012 8:36:03 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	130	100		mg/Kg	20	4/4/2012 4:21:23 PM
Surr: BFB	136	69.7	121 S	%REC	20	4/4/2012 4:21:23 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	1	0	mg/Kg	20	4/4/2012 4:21:23 PM
Toluene	ND	1	0	mg/Kg	20	4/4/2012 4:21:23 PM
Ethylbenzene	ND	1	0	mg/Kg	20	4/4/2012 4:21:23 PM
Xylenes, Total	ND	2	0	mg/Kg	20	4/4/2012 4:21:23 PM
Surr: 4-Bromofluorobenzene	96.9	80	120	%REC	20	4/4/2012 4:21:23 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	54	7	5	mg/Kg	5	4/5/2012 9:06:47 AM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1204148

Date Reported: 4/5/2012

CLIENT: Blagg Engineering

Client Sample ID: EB-4PC @ 7' Production Tank R

Project: Jaquez GC D #1E

Collection Date: 4/3/2012 12:15:00 PM

Lab ID: 1204148-002

Matrix: SOIL

Received Date: 4/4/2012 9:49:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst <b>JMP</b>
Diesel Range Organics (DRO)	40	10		mg/Kg	1	4/5/2012 9:01:40 AM
Surr. DNOP	92.6	77.4-131		%REC	1	4/5/2012 9:01:40 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	33	5.0		mg/Kg	1	4/4/2012 3:52:37 PM
Surr. BFB	221	69.7-121	S	%REC	1	4/4/2012 3:52:37 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	4/4/2012 3:52:37 PM
Toluene	0.36	0.050		mg/Kg	1	4/4/2012 3:52:37 PM
Ethylbenzene	0.13	0.050		mg/Kg	1	4/4/2012 3:52:37 PM
Xylenes, Total	1.7	0.10		mg/Kg	1	4/4/2012 3:52:37 PM
Surr. 4-Bromofluorobenzene	104	80-120		%REC	1	4/4/2012 3:52:37 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	13	7.5		mg/Kg	5	4/5/2012 9:19:11 AM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

                  B    Analyte detected in the associated Method Blank  
                  H    Holding times for preparation or analysis exceeded  
                  ND   Not Detected at the Reporting Limit  
                  RL   Reporting Detection Limit

**Analytical Report**Lab Order **1204362**Date Reported: **4/17/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** SW-4PC@3' (2)-Production tank**Project:** Jaquez GC D #1E**Collection Date:** 4/6/2012 10:10:00 AM**Lab ID:** 1204362-001**Matrix:** SOIL**Received Date:** 4/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>JMP</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/11/2012 10:19:02 AM
Surr: DNOP	92.8	77.4-131		%REC	1	4/11/2012 10:19:02 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/13/2012 4:21:46 PM
Surr: BFB	104	69.7-121		%REC	1	4/13/2012 4:21:46 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	4/13/2012 3:09:43 AM
Toluene	ND	0.048		mg/Kg	1	4/13/2012 3:09:43 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/13/2012 3:09:43 AM
Xylenes, Total	ND	0.097		mg/Kg	1	4/13/2012 3:09:43 AM
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	4/13/2012 3:09:43 AM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

                  B    Analyte detected in the associated Method Blank  
                  H    Holding times for preparation or analysis exceeded  
                  ND   Not Detected at the Reporting Limit  
                  RL   Reporting Detection Limit