<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

Form C-144 June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.

For downstream facilities, submit to Santa Fe office.

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No [Type of action: Registration of a pit or below-grade tank \(\subseteq\) Closure of a pit or below-grade tank \(\simeq\) Telephone: (505)-326-9200 BP AMERICA PROD. CO. e-mail address: Address: 200 ENERGY COURT, FARMINGTON, NM 87410 Facility or well name: LUDWICK LS #11 API#: 30-045- 09389 U/L or Otr/Otr B Sec 19 T 30N R 10W Longitude 107.92105 County: SAN JUAN Latitude 36.80180 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐ RCVD APR5'07 Pit Below-grade tank OIL CONS. DIV. Type: Drilling Production Disposal Type-of-fluid: Volume: bbl-DIST. 3 Workover Emergency Construction materia Lined Unlined STEEL TANK Double-walled, with leak of tection? Yes 17 If rist, explain why not. Liner type: Synthetic Thickness _____mil Clay [Pit Volume Less than 50 feet (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 0 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic 0 No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) 0 irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) Ranking Score (Total Points) 0 If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite \(\square\) offsite \(\square\) If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🛛 Yes 🗌 If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. Additional Comments PIT LOCATED APPROXIMATELY 120 FT. S12E FROM WELL HEAD. PIT EXCAVATION: WIDTH N/Aft., LENGTH N/Aft., DEPTH N/Aft. PIT REMEDIATION: CLOSE AS IS: ☑, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☐ (explain) Cubic vards: I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ⊠, a general permit □, or an alternative OCD-approved plan ⊠. 10/24/06 Jeff Blagg - P.E. # 11607 Signature Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations. Deputy Oil & Gas Inspector. Approval: District #3 AUG 0 3 2007 Printed Name/Title Signature / Date:

PASSED

ONSITE: 10-18-06

TRAVEL NOTES:

PD = PIT DEPRESSION, BG, = BELOW GRADE; B = BELOW TH = TEST HOLE, ~ = APPROX.; T.B. = TANK BOTTOM

CALLOUT:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Proiect #:	94034-010
Sample ID:	C @ 9'	Date Reported:	10-20-06
Laboratory Number:	38895	Date Sampled:	10-18-06
Chain of Custody No:	1606	Date Received:	10-19-06
Sample Matrix:	Soil	Date Extracted:	10-19-06
Preservative:	Cool	Date Analyzed:	10-20-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Ludwick LS 11 Sep Pit

Analyst C. Ceperum

Mintinem Wades
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	C @ 9'	Date Reported:	10-20-06
Laboratory Number:	38895	Date Sampled:	10-18-06
Chain of Custody:	1606	Date Received:	10 - 19-06
Sample Matrix:	Soil	Date Analyzed:	10-20-06
Preservative:	Cool	Date Extracted:	10-19-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	1.8	
Toluene	5.0	1.7	
Ethylbenzene	6.0	1.5	
p,m-Xylene	5.7	2.2	
o-Xylene	8.2	1.0	
Total BTEX	24.9		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Ludwick LS 11 Sep Pit

Analyst C. Column

Musture of Waeters Review



Chloride

Client. Blagg / BP Project # 94034-010 Sample ID: C @ 9' Date Reported: 10-19-06 Lab ID#: 38895 Date Sampled: 10-18-06 Sample Matrix. Date Received: Soil 10-19-06 Preservative: Cool Date Analyzed: 10-19-06 Condition Cool and Intact Chain of Custody 1606

Parameter Concentration (mg/Kg)

Total Chloride 22.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992

Comments: Ludwick LS 11 Sep Pit.

nalyst Review Review

CHAIN OF CUSTODY RECORD

1606

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EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	10-20-06 QA/0	oc.	Date Reported:		10-20-06
Laboratory Number:	38894	20	Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A	140	Date Analyzed:		10-20-06
Condition:	N/A		Analysis Request	ed:	TPH
	Cal Date	I-Cal RF	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.0030E+003	1.0040E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	1.0009E+003	1.0029E+003	0.20%	0 - 15%
0 " 0 01 040					
Blank Conc. (mg/L - mg/Kg	A)	Concentration		Detection Lim	II .
Gasoline Range C5 - C10 Diesel Range C10 - C28		ND ND		0.2 0.1	
Diesel Range C10 - C28 Total Petroleum Hydrocarbons		*			
Diesel Range C10 - C28	W. d	ND	% Difference	0.1	≥ ,
Diesel Range C10 - C28 Total Petroleum Hydrocarbons	W. d	ND ND	% Difference	0.1 0.2	3
Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg)	aj j	ND ND	* * = "*, *, *, ##* *, ; ; ; ; .	0.1 0.2 Accept Range	3 .√.
Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg) Gasoline Range C5 - C10	Sample ND	ND ND Duplicate ND 0.7	0.0%	0.1 0.2 Accept Range 0 - 30% 0 - 30%	Accept. Range
Diesel Range C10 - C28 Total Petroleum Hydrocarbons Duplicate Conc. (mg/Kg) Gasoline Range C5 - C10 Diesel Range C10 - C28	ND 0.7	ND ND Duplicate ND 0.7	0.0%	0.1 0.2 Accept Range 0 - 30% 0 - 30%	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 38894 - 38896

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	P	roject #:	I	N/A
Sample ID:	10-20-BTEX QA/0	QC D	ate Reported:	•	10-20-06
Laboratory Number:	38894	0	ate Sampled:	i	N/A
Sample Matrix:	Soil		ate Received:	I	N/A
Preservative:	N/A		ate Analyzed:		10-20-06
Condition:	N/A	Α	nalysis:	I	BTEX
Calibration and	J-CaliRF	C-CallRE:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Range		Conc	Limit
Benzene	3 9381E+007	3.9460E+007	0.2%	ND	0.2
Toluene	4.7260E+007	4.7354E+007	0.2%	ND	0.2
Ethylbenzene	2.2973E+007	2.3019E+007	0.2%	ND	0.2
p,m-Xylene	8 7258E+007	8.7433E+007	0.2%	ND	0.2
o-Xylene	3.5655E+007	3.5726E+007	0.2%	ND	0.1
Duplicate Conc. (ug/Kg)	Sample 5	Duplicate 6.7	· · · · · · · · · · · · · · · · · · ·	Accept Range	Detect: Limit
Benzene Toluene Ethylbenzene p,m-Xylene	6.7 15.3 10.4 22.9 14.0	6.7 15.2 10.2 22.7	%Diff: // 0.0% 0.7% 1.9% 0.9% 0.0%	Accept Range 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	6.7 15.3 10.4 22.9	6.7 15.2 10.2 22.7	0.0% 0.7% 1.9% 0.9% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	6.7 15.3 10.4 22.9 14.0	6.7 15.2 10.2 22.7 14.0	0.0% 0.7% 1.9% 0.9% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Genzene Foluene Ethylbenzene o,m-Xylene o-Xylene Spike Conc. (ug/Kg)	6.7 15.3 10.4 22.9 14.0	6.7 15.2 10.2 22.7 14.0 Amount Spiked	0.0% 0.7% 1.9% 0.9% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Genzene Foluene Ethylbenzene o,m-Xylene o-Xylene Spike Conc. (ug/kg)	6.7 15.3 10.4 22.9 14.0 Sample	6.7 15.2 10.2 22.7 14.0 Amount Spiked	0.0% 0.7% 1.9% 0.9% 0.0%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene	6.7 15.3 10.4 22.9 14.0 Sample	6.7 15.2 10.2 22.7 14.0 Amount Spiked 50.0 50.0 50.0	0.0% 0.7% 1.9% 0.9% 0.0% Spiked Sample	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 99.8%	1.8 1.7 1.5 2.2 1.0 Accept Range

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 38894 - 38898

Analyst