District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes \(\subseteq \text{No \(\subseteq \)} \)

Type of action: Registration of a pit of	r below-grade tank [Closure of a pit or below-grade	de tank 🔀			
Operator: Dugan Production Corp Telep	hone: (505)325-1821 e-mail address:				
Address. P.O. Box 420, Farmington, New Mexico 87401					
Facility or well name: St. Louis No. 12 API#: 30-045-2	6631 U/L or Otr/Otr C Sec 9 T 23N	N R 10W			
County: San Juan Latitude 36.24764 Longitude 10					
2010/10					
Pit	Below-grade tank				
Type: Drilling Production Disposal	Volume:bbl Type of fluid:				
Workover ☐ Emergency ☐	Construction material:				
Lined ☐ Unlined ☑	Double-walled, with leak detection? Yes If not	, explain why not.			
Liner type: Synthetic Thicknessmil Clay					
Pit Volume 77 ± bbl					
	Less than 50 feet	(20 points)			
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points) 0			
high water elevation of ground water.)	100 feet or more	(0 points)			
		,			
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)			
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 0			
	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) 10			
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)			
	Ranking Score (Total Points)	10			
	Naming Score (Total Folius)				
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	te disposal location: (check the onsite box if			
our are burying in place) onsite 🗵 offsite 🔲 If offsite, name of facility_	(3) Attach a general d	escription of remedial action taken including			
remediation start date and end date. (4) Groundwater encountered: No 🛮 Y	es 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	5	334567			
Additional Comments:		89,			
12' x 12' x 3'± deep unlined production pit, center located at approxim	ately 75 Feet South 73° Fact of wellhead	ft. and attach sample results. (5)			
		A MECEIVED A			
Use backhoe to collect 5-point composite sample at 6 foot depth for lab to	sting	(8 Was 12000 E)			
		OIL CONS, DIV. DIST 3 55/			
		The state of the s			
I hereby certify that the information above is true and complete to the bes	t of my knowledge and belief. I further certify that	the above-described ble of below-grade tank			
has been/will be constructed or closed according to NMOCD guidelin Date: January 14, 2008					
Printed Name/Title Jeffrey C Blagg, agent	Signature Jeffy C.	Blegg.			
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve regulations.	not relieve the operator of liability should the content	s of the pit or tank contaminate ground water or			
Approval: Deputy Oil & Gas Inspector, District #3	, -	of Company			
Approval: District #3	Signature Bol Jell	FEB 1 2 200R			
Printed Name/Title	Signature 1206 0 M	Date:			

		VM NDING	
12	SAMPLE ID	FIELD HEADSPACE (ppm)	
(x)	1 @ 2 @		/
	3 @ 4 @		(2)
× 12′	5-Pxe6	0.0	3 1
× × /			The state of the s
			
	0414016	AMPLEŞ	LITE Stain
	S-PB T	NALYSIS TIME /BTEX 1335	<u> </u>
P D = PIT DEPRESSION; B G = BELOW GRADE; B = BELOW T H = TEST HOLE, ~ = APPROX; T.B = TANK BOTTOM			

ONSITE: 12/6/07

CALLOUT:

TH = TEST HOLE, ~
TRAVEL NOTES:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	St. Louis #12 Sep	Date Reported:	12-12-07
Laboratory Number:	43827	Date Sampled:	12-06-07
Chain of Custody No:	3694	Date Received:	12-10-07
Sample Matrix:	Soil	Date Extracted:	12-11-07
Preservative:	Cool	Date Analyzed:	12-12-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.6	0.1
Total Petroleum Hydrocarbons	1.6	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:

Unlined Pit Closures.

Apalyst Waeler

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	St. Louis #12 Sep	Date Reported:	12-12-07
Laboratory Number:	43827	Date Sampled:	12-06-07
Chain of Custody:	3694	Date Received:	12-10-07
Sample Matrix:	Soil	Date Analyzed:	12-12-07
Preservative:	Cool	Date Extracted:	12-11-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.2	0.9
Toluene	14.2	1.0
Ethylbenzene	5.0	1.0
p,m-Xylene	45.0	1.2
o-Xylene	13.8	0.9
Total BTEX	79.2	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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:

Unlined Pit Closures.

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-12-BTEX QA/QC	Date Reported:	12-12-07
Laboratory Number:	43824	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Gal RF:	C-Cal RF Accept Rang		Blank Conc	Detect Limit
Benzene	7.9836E+007	7.9996E+007	0.2%	ND	0.1
Toluene	7.6005E+007	7.6157E+007	0.2%	ND	0.1
Ethylbenzene	6.2177E+007	6.2302E+007	0.2%	ND	0.1
p,m-Xylene	1.2027E+008	1.2052E+008	0.2%	ND	0.1
o-Xylene	5 7790E+007	5.7905E+007	0.2%	ND	0.1

Sample	Ouplicate	%Diff.	Accept Range	Detect. Limit	78's
217	216	0.2%	0 - 30%	0.9	
1,060	1,059	0.1%	0 - 30%	1.0	
874	872	0.2%	0 - 30%	1.0	
2.950	2.940	0.3%	0 - 30%	1.2	
1,070	1,066	0.4%	0 - 30%	0.9	
	217 1,060 874 2,950	217 216 1,060 1,059 874 872 2,950 2,940	217 216 0.2% 1,060 1,059 0.1% 874 872 0.2% 2,950 2,940 0.3%	217 216 0.2% 0 - 30% 1,060 1,059 0.1% 0 - 30% 874 872 0.2% 0 - 30% 2,950 2,940 0.3% 0 - 30%	1,060 1,059 0.1% 0 - 30% 1.0 874 872 0.2% 0 - 30% 1.0 2,950 2,940 0.3% 0 - 30% 1.2

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked . Spi	ked Sample	% Recovery	Accept Range
Benzene	217	50.0	266	99.8%	39 - 150
Toluene	1,060	50.0	1,090	98.2%	46 - 148
Ethylbenzene	874	50.0	922	99.8%	32 - 160
p,m-Xylene	2,950	100	3,040	99.6%	46 - 148
o-Xylene	1,070	50.0	1,110	99.1%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

December 1996.

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 43824 - 43829.

Review

Blul Wall



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

98.6%

99.5%

Scul Viull
Review

75 - 125%

75 - 125%

Client:	QA/QC		Project #:		N/A
Sample ID:	12-12-07 QA/	QC	Date Reported:		12-12-07
Laboratory Number:	43824		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		12-12-07
Condition:	N/A		Analysis Reques	ted:	TPH
	I-Cal Date	I-Cal/RF;	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.1927E+003	1.1932E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0506E+003	1.0510E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Lim	Ĭť
Gasoline Range C5 - C10		ND	and a second control of a contr	0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept: Range	
Gasoline Range C5 - C10	472	471	0.4%	0 - 30%	60° 100°
Diesel Range C10 - C28	3,510	3,490	0.6%	0 - 30%	
Shika Cana (manica)			Carla Daneu		
Spike Conc. (mg/Kg)	Sample	. Spike Audeo	Sohike Leznit.	70 Recovery	Accept. Range

ND - Parameter not detected at the stated detection limit.

References:

Gasoline Range C5 - C10

Diesel Range C10 - C28

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

712

3,740

250

250

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 43824 - 43829.

472

3,510

Muster of Walley