1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr , Santa Fe, NM 87505

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State of New Mexico **Energy Minerals and Natural Resources**

June 1, 2004

Form C-144

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

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No 🛛

	or below-grade tank Closure of a pit or below-gr	
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: <u>LH No. 174</u> API #: <u>30-045-28533</u>		R 8W .
County: San Juan Latitude 36.18901 Longitude 10		
		,
<u>Pit</u>	Below-grade tank	
Type: Drilling Production Disposal	Volume:bbl Type of fluid:	
Workover	Construction material:	
Lined Unlined 🗵	Double-walled, with leak detection? Yes If n	ot, explain why not.
Liner type: Synthetic Thicknessmil Clay _		
Pit Volume 103± bbl		
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) 0
	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
Distance to surface water (haringted distance to all water days)	Less than 200 feet	(20 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points) 10
irrigation canais, ditches, and perennial and epitemeral watercourses.)	1000 feet or more	(0 points)
	Ranking Score (Total Points)	10
f this is a pit closure: (1) attach a diagram of the facility showing the pit's	relationship to other equipment and tanks (2) India	pate disposal location: (check the onsite how if
your are burying in place) onsite \(\mathbb{\		description of remodial action taken including
emediation start date and end date. (4) Groundwater encountered: No 🖸 \		ft and attack comple results (5)
Attach soil sample results and a diagram of sample locations and excavation		ft. and attach sample results. (5)
Additional Comments:	s.	10,
	actal, 111 Fact Court 950 Fact of wellhood	(\$ P)
12' x 12' x 4'± deep unlined production pit, center located at approxim		RECEIVED BY
Use backhoe to collect 5-point composite sample at 7 foot depth for lab to	esting.	8 FB 2000
Excavate to 15' x 15' x 7' and landfarm on-site.		OIL CONS. DIV. DIST. 3 55
		\'\^
		at the above-described pit or below-grade tank
I hereby certify that the information above is true and complete to the bes	t of my knowledge and belief. I further certify tha	t the above-described pit or below-grade tank
has been/will be constructed or closed according to NMOCD guidelin Date: January 14, 2008	4	_
Printed Name/Title Jeffrey C Blagg, agent	SignatureC	- Blogy
Your certification and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve	not relieve the operator of liability should the conte	nts of the pit or tank contaminate ground water or
regulations.		
Approval: Deputy Oil & Gas Inspector, District #3	0/011	FEB 1 2 2008
Printed Name/Title	Signature Bal Fall	Date:

12	ID (ppm)
(x x)	10 (ppm) 10 20 30 40 50 50 5-fxe7 34 41
P.D = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM	LAB SAMPLES SAMPLE ANALYSIS TIME S-PX T/STEX ISID
TRAVEL NOTES: CALLOUT:	ONSITE: 10/9/07



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	LH #174 - Sep	Date Reported:	10-10-07
Laboratory Number:	43305	Date Sampled:	10-08-07
Chain of Custody No:	3042	Date Received:	10-09-07
Sample Matrix:	Soil	Date Extracted:	10-09-07
Preservative:	Cool	Date Analyzed:	10-10-07
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)	6.0	0.1	
Total Petroleum Hydrocarbons	6.0	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

Analyst P. Caper

Peview Watter



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	LH #174 - Sep	Date Reported:	10-10-07
Laboratory Number:	43305	Date Sampled:	10-08-07
Chain of Custody:	3042	Date Received:	10-09-07
Sample Matrix:	Soil	Date Analyzed:	10-10-07
Preservative:	Cool	Date Extracted:	10-09-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	0.9	
Toluene	8.5	1.0	
Ethylbenzene	ND	1.0	
p,m-Xylene	1.7	1.2	
o-Xylene	ND	0.9	
Total BTEX	10.2		

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 P. O.

Christian Walters
Review



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Proje	ect #:	N/A
Sample ID:	10-10-07 QA/Q	C Date	Reported:	10-10-07
Laboratory Number:	43289	Date	Sampled:	N/A
Sample Matrix:	Methylene Chlori	de Date	Received:	N/A
Preservative:	N/A	Date	Analyzed:	10-10-07
Condition:	N/A	Analy	ysis Requested:	TPH
Gasoline Range C5 - C10 Diesel Range C10 - C28	I-Gal Date 05-07-07 05-07-07	1.0053E+003 1.00	Cal RFI % Differen 0.57E+003 0.04% 0.74E+003 0.04%	ce Accept Range 0 - 15% 0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	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	8.0	0.8	0.0%	0 - 30%
Diesel Range C10 - C28	80.1	79.6	0.6%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added S	pike Resu	lt, % Recovery	Accept: Range
Gasoline Range C5 - C10	0.8	250	250	99.8%	75 - 125%
Diesel Range C10 - C28	80.1	250	330	99.8%	75 - 125%

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 43289 - 43291, 43302 - 43308

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	F	roject #:		N/A
Sample ID:	10-10-BTEX QA/Q0	С [ate Reported:		10-10-07
Laboratory Number:	43289	E	ate Sampled:		N/A
Sample Matrix:	Soil		ate Received:		N/A
Preservative:	N/A		ate Analyzed:		10-10-07
Condition:	N/A	A	nalysis:		BTEX
Calibration and	LGaliRFI	G-Cal RF;	%Dlff.	⊬Blank∉"⊹	Detect.
Detection Limits (ug/L)	And the second of the second o	Accept Rang		Conc	Limit
Benzene	1.1750E+008	1.1774E+008	0.2%	ND	0.1
Toluene	1.0089E+008	1.0109E+008	0.2%	ND	0.1
Ethylbenzene	8.0712E+007	8.0874E+007	0.2%	ND	0.1
p,m-Xylene	1.6040E+008	1.6072E+008	0.2%	ND	0.1
o-Xylene	7.7993E+007	7.8150E+007	0.2%	ND	0.1
	Sample	Duplicate	%Diff.	**************************************	Detect Limit
Duplicate Conc. (ug/Kg)	Sample	ax Buplicates	ر ۱۰۰۰ و ۱۱۱ی ۱۰۰۰	Accept Range	i nelectreniii
Benzene	1.6	1.6	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	3.1	3.1	0.0%	0 - 30%	1.0
p,m-Xylene	68.4	68.3	0.1%	0 - 30%	1.2
	551.			- 40,0	• • • •

Spike Conc. (ug/Kg)	Sample	unt Spiked Spik	ked Sample	% Recovery	Accept Range
Benzene	1.6	50.0	51.5	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	3.1	50.0	53.0	99.8%	32 - 160
p,m-Xylene	68.4	100	168	99.8%	46 - 148
o-Xylene	17.8	50.0	67.7	99.9%	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 43289 - 43291, 43302 - 43306

Analyst

Review