

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

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

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 ☐ Closure of a pit or below-grade tank ☒

Operator: Elm Ridge Resources, Inc. Telephone: (505) 632-3476 e-mail address: _____
Address: PO Box 156 Bloomfield, NM 87413
Facility or well name: South Bisti SWD #1 API #: 30-045-25665 U/L or Qtr/Qtr P Sec 3 T 25N R 13W
County: San Juan Latitude N36°25.482' Longitude W108°11.945' NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☐ State ☐ Private ☐ Indian ☒

Pit

Type: Drilling ☐ Production ☐ Disposal ☐
Workover ☐ Emergency ☒
Lined ☒ Unlined ☐
Liner type: Synthetic ☒ Thickness _____ mil Clay ☐
Pit Volume 150 bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____
Construction material: _____
Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet (20 points)
50 feet or more, but less than 100 feet (10 points)
100 feet or more (0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes (20 points)
No (0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet (20 points)
200 feet or more, but less than 1000 feet (10 points)
1000 feet or more (0 points)

Ranking Score (Total Points) 0 points

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 you are burying in place) onsite ☐ offsite ☒ If offsite, name of facility Envirotech Landfarm #2 Unit 5. (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:

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 (attached) alternative OCD-approved plan ☐.

Date: 9/15/04

Printed Name/Title

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.

Approval: DEPUTY OIL & GAS INSPECTOR, DIST. #8

Printed Name/Title

Signature

Date:

NOV - 2 2004

CLIENT: 03056-015

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64-3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

LOCATION NO: _____

C.O.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: _____ of _____

LOCATION: NAME: South Bst: SW#1 WELL #: _____ PIT: 1QUAD/UNIT: P SEC: 3 TWP: 25N RNG: 13W PM: NM CNTY: SS ST: NM

QTR/FOOTAGE: _____

CONTRACTOR: _____

DATE STARTED: 9/10/04DATE FINISHED: 9/12/04ENVIRONMENTAL
SPECIALIST: KPKEXCAVATION APPROX. 25 FT. x 17 FT. x 5 FT. DEEP. CUBIC YARDAGE: 80DISPOSAL FACILITY: Envirotech LF2 Unit 5 REMEDIATION METHOD: Landfarm

LAND USE: _____ LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FT. SW FROM WELLHEAD.DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 71000NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5,000 PPM

CHECK ONE:

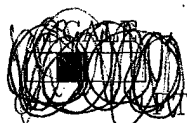
☒ PIT ABANDONED☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

Onsite 9:15am Kyle Kerr (Envirotech Inc) Denny Foutz (NMCO)
Mitch Hampford (Elmridge) 1 Backhoe 2 labors (Elmridge)
Excavated soil to maximum vertical extent
encountered mudstone.
Excavated a 5'x65'x3' Trench in the location of old tank
Battery. No contaminated soil observed.

FIELD 418.1 CALCULATIONS

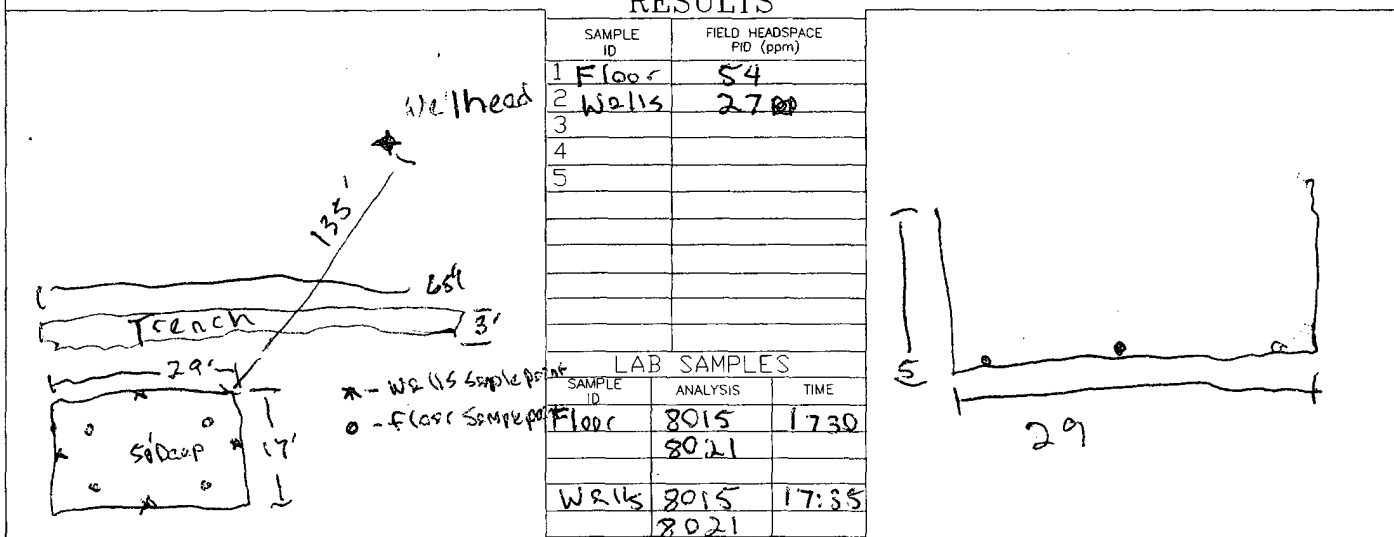
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm



PIT PERIMETER

OVM
RESULTS

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____ ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

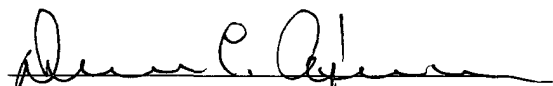
Client:	Elm Ridge	Project #:	03056-015
Sample ID:	Floor	Date Reported:	09-13-04
Laboratory Number:	30430	Date Sampled:	09-10-04
Chain of Custody No:	12910	Date Received:	09-10-04
Sample Matrix:	Soil	Date Extracted:	09-13-04
Preservative:	Cool	Date Analyzed:	09-13-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

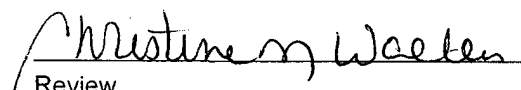
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.0	0.2
Diesel Range (C10 - C28)	42.2	0.1
Total Petroleum Hydrocarbons	44.2	0.2

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: **San Juan Cty, NM 5 Point.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

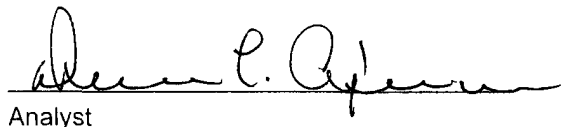
Client:	Elm Ridge	Project #:	03056-015
Sample ID:	Walls	Date Reported:	09-13-04
Laboratory Number:	30431	Date Sampled:	09-10-04
Chain of Custody No:	12910	Date Received:	09-10-04
Sample Matrix:	Soil	Date Extracted:	09-13-04
Preservative:	Cool	Date Analyzed:	09-13-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

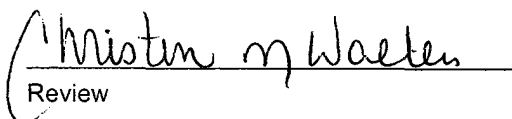
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	71.5	0.2
Diesel Range (C10 - C28)	345	0.1
Total Petroleum Hydrocarbons	417	0.2

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: **San Juan Cty, NM.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge	Project #:	03056-015
Sample ID:	Floor	Date Reported:	09-13-04
Laboratory Number:	30430	Date Sampled:	09-10-04
Chain of Custody:	12910	Date Received:	09-10-04
Sample Matrix:	Soil	Date Analyzed:	09-13-04
Preservative:	Cool	Date Extracted:	09-13-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	25.0	1.8
Toluene	35.8	1.7
Ethylbenzene	26.1	1.5
p,m-Xylene	115	2.2
o-Xylene	52.1	1.0
Total BTEX	254	

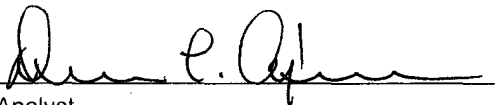
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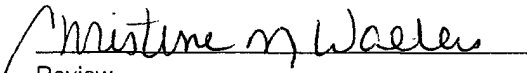
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

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: San Juan Cty, NM 5 Point.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge	Project #:	03056-015
Sample ID:	Walls	Date Reported:	09-13-04
Laboratory Number:	30431	Date Sampled:	09-10-04
Chain of Custody:	12910	Date Received:	09-10-04
Sample Matrix:	Soil	Date Analyzed:	09-13-04
Preservative:	Cool	Date Extracted:	09-13-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	30.6	1.8
Toluene	41.9	1.7
Ethylbenzene	36.2	1.5
p,m-Xylene	129	2.2
o-Xylene	113	1.0
Total BTEX	351	

ND - Parameter not detected at the stated detection limit.

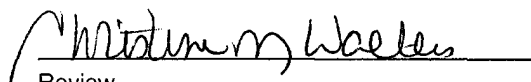
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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Comments: San Juan Cty, NM.


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