

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: <u>Kimbell Oil Company of Texas</u>		Telephone: <u>(817) 335-2593 ext. 30</u>	e-mail address: <u>jms@kimbeloil.com</u>
Address: <u>777 Taylor Street, Suite P-IIA, Fort Worth, Texas 76102</u>			
Facility or well name: <u>Jicarilla #001 / Tank Battery</u>		API #: <u>30-039-05904</u>	U/L or Qtr/Qtr <u>M</u> Sec <u>20</u> T <u>25</u> N <u>R</u> <u>5W</u>
County: <u>Rio Arriba</u>		Latitude <u>36.381108</u>	Longitude <u>-107.38906</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input checked="" type="checkbox"/>			
Pit Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input checked="" type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl		Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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) 0
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) 0
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) 10
Ranking Score (Total Points)		10	

RCUD DEC 6 '07

OIL CONS. DIV.
DIST. 3

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 TNT Landfarm. (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:
Maximum reasonable extent of excavation occurred at 8' BGS at sandstone, final dimensions were 20' x 12' x 8' Approximately 52 cubic yards of contaminated soil was
Transported to TNT Landfarm.

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: 12-3-2007

Printed Name/Title Mr. Jonathan Stickland, Engineer

Signature [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:

Printed Name/Title

DEPUTY OIL & GAS INSPECTOR, DIST. 3

Signature [Signature]

Date:

JAN 04 2008

CLIENT: <u>Kimbell Oil</u>	ENVIROTECH INC. <small>ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615</small>	LOCATION NO: _____ C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>Jicarilla</u>	WELL #: <u>1</u>	PIT: <u>Tank Battery/SEP</u>
QUAD/UNIT: <u>M</u> SEC: <u>25</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NMPPM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE STARTED: <u>11/6/07</u> DATE FINISHED: <u>11/7/07</u>
QTR/FOOTAGE: _____ CONTRACTOR: <u>Envirotech</u>		ENVIRONMENTAL SPECIALIST: <u>GWC</u>

EXCAVATION APPROX <u>20</u> FT. x <u>12</u> FT. x <u>8</u> FT. DEEP.	CUBIC YARDAGE: <u>52</u>
DISPOSAL FACILITY: <u>TNT Landfarm</u>	REMEDIATION METHOD: <u>Landfarm</u>
LAND USE: _____	LEASE: _____ FORMATION: _____

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>97</u> FT. <u>235'</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100</u>	NEAREST WATER SOURCE: <u>>1000</u> NEAREST SURFACE WATER: <u>200-1000</u>
NMOCB RANKING SCORE: <u>10</u>	NMOCB TPH CLOSURE STD: <u>1,000</u> PPM
SOIL AND EXCAVATION DESCRIPTION: <div style="float:right; border: 1px solid black; padding: 5px; margin-top: 10px;"> CHECK ONE : <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED </div>	

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D	LAB No	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
1305	200 STD				1	174	174
	Bottom 8' BG's (sandstone)		5.0	20	4	1708	
	N/W/12" Water composite		5.0	20	4	1719 1708	764

PIT PERIMETER

OV
RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1: Wall comp	47.9
2: bottom 8'	709
3	
4	
5	

PIT PROFILE

x - bottom sample location
* - wall sample location

TRAVEL NOTES.	CALLOUT: _____	ONSITE: _____
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Kimbell Oil Company of Texas	Project #:	06011-004
Sample No.:	1	Date Reported:	11/14/2007
Sample ID:	Discrete, 8' BGS	Date Sampled:	11/6/2007
Sample Matrix:	Soil	Date Analyzed:	11/6/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	6,830	5.0

ND = Parameter not detected at the stated detection limit.

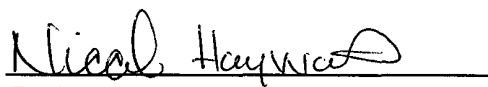
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla #1 / Tank Battery**

Instrument callibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree
Printed


Review

Nicole Hayworth
Printed

**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	Kimbell Oil Company of Texas	Project #:	06011-004
Sample No.:	2	Date Reported:	11/14/2007
Sample ID:	N/S/E Walls Composite	Date Sampled:	11/6/2007
Sample Matrix:	Soil	Date Analyzed:	11/6/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	764	5.0
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ND = Parameter not detected at the stated detection limit.

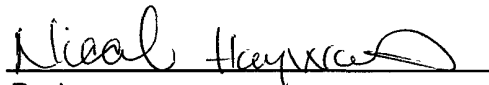
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla #1 / Tank Battery**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree
Printed


Review


Nicole Hayworth
Printed

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 6-Nov-07

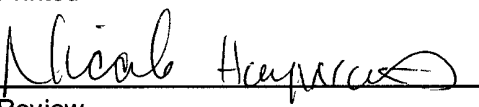
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	174
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst

11/15/07
Date

Greg Crabtree
Printed


Review

11/15/07
Date

Nicole Hayworth
Printed

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

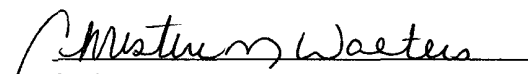
Client:	Kimbell Oil	Project #:	06011-004
Sample ID:	Bottom Composite 8' BGS	Date Reported:	11-08-07
Laboratory Number:	43590	Date Sampled:	11-06-07
Chain of Custody No:	3575	Date Received:	11-06-07
Sample Matrix:	Soil	Date Extracted:	11-07-07
Preservative:	Cool	Date Analyzed:	11-07-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

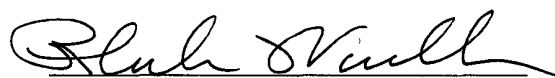
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	609	0.2
Diesel Range (C10 - C28)	643	0.1
Total Petroleum Hydrocarbons	1,250	0.2

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: **Jicarilla #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

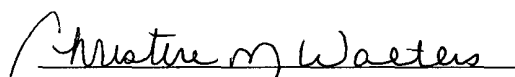
Client:	Kimbell Oil	Project #:	06011-004
Sample ID:	South Wall	Date Reported:	11-08-07
Laboratory Number:	43591	Date Sampled:	11-06-07
Chain of Custody No:	3575	Date Received:	11-06-07
Sample Matrix:	Soil	Date Extracted:	11-07-07
Preservative:	Cool	Date Analyzed:	11-07-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	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: **Jicarilla #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-07-07 QA/QC	Date Reported:	11-08-07
Laboratory Number:	43539	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0692E+003	1.0696E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1903E+003	1.1908E+003	0.04%	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

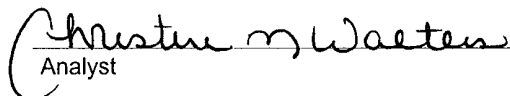
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

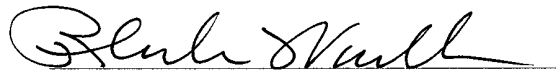
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 43539 - 43545, 43565 and 43590 - 43591.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Kimbell Oil	Project #:	06011-004
Sample ID:	Bottom Composite 8' BGS	Date Reported:	11-08-07
Laboratory Number:	43590	Date Sampled:	11-06-07
Chain of Custody:	3575	Date Received:	11-06-07
Sample Matrix:	Soil	Date Analyzed:	11-07-07
Preservative:	Cool	Date Extracted:	11-07-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.5	0.9
Toluene	479	1.0
Ethylbenzene	431	1.0
p,m-Xylene	4,710	1.2
o-Xylene	1,200	0.9
Total BTEX	6,830	

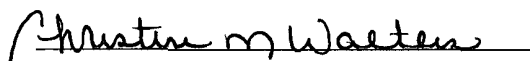
ND - Parameter not detected at the stated detection limit.


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: Jicarilla #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-07-BTEX QA/QC	Date Reported:	11-08-07
Laboratory Number:	43539	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-07-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	1.1491E+008	1.1514E+008	0.2%	ND	0.1
Toluene	9.3617E+007	9.3804E+007	0.2%	ND	0.1
Ethylbenzene	6.9426E+007	6.9566E+007	0.2%	ND	0.1
p,m-Xylene	1.3477E+008	1.3504E+008	0.2%	ND	0.1
o-Xylene	6.3624E+007	6.3751E+007	0.2%	ND	0.1

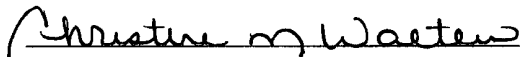
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	13.9	13.7	1.4%	0 - 30%	0.9
Toluene	10.3	10.1	1.9%	0 - 30%	1.0
Ethylbenzene	5.0	5.0	0.0%	0 - 30%	1.0
p,m-Xylene	13.0	12.9	0.8%	0 - 30%	1.2
o-Xylene	5.8	5.8	0.0%	0 - 30%	0.9

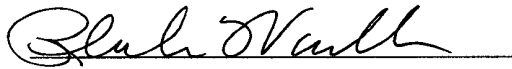
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	13.9	50.0	63.8	99.8%	39 - 150
Toluene	10.3	50.0	60.2	99.8%	46 - 148
Ethylbenzene	5.0	50.0	54.9	99.8%	32 - 160
p,m-Xylene	13.0	100	113	99.9%	46 - 148
o-Xylene	5.8	50.0	55.7	99.8%	46 - 148

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 43539 - 43545 and 43590.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Paint Filter Liquids Test

Client:	Kimbell Oil	Project #:	06011-004
Sample ID:	Bottom Composite 8' BGS	Date Reported:	11-08-07
Lab ID#:	43590	Date Sampled:	11-06-07
Sample Matrix:	Soil	Date Received:	11-06-07
Preservative:	Cool	Date Analyzed:	11-07-07
Condition:	Cool & Intact	Chain of Custody:	3575

Parameter

Result

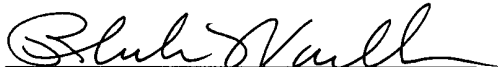
Paint Filter Liquids Test

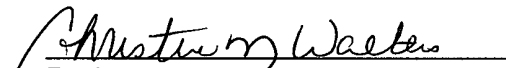
Material Contains NO Free Liquids

Reference: Method 9095B, Paint Filter Liquids Test, Test Methods for Evaluating Solid Waste, SW-846, USEPA

CFR 40 264.314 and CFR 40 265.314.

Comments: **Jicarilla #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Kimbell Oil	Project #:	06011-004
Sample ID:	Bottom Composite 8' BGS	Date Reported:	11-08-07
Lab ID#:	43590	Date Sampled:	11-06-07
Sample Matrix:	Soil	Date Received:	11-06-07
Preservative:	Cool	Date Analyzed:	11-08-07
Condition:	Cool and Intact	Chain of Custody:	3575

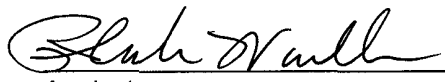
Parameter	Concentration (mg/Kg)
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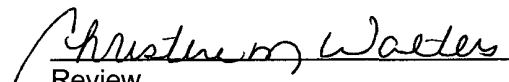
Total Chloride

102

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

Comments: Jicarilla #1.


Analyst


Review

3575

san juan reproduction 578-129