

James E. Frost
DEPUTY OIL & GAS INSPECTOR

FEB 11 1999

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SECRET COPY TO

NATURAL RESOURCE DEPT
WATER & LAND ADMINISTRATION

Approved
PIT REMEDIATION AND CLOSURE REPORT

Operator: MARATHON Oil Co. Telephone: 505-326-2783
Address: P.O. BOX 1439 Farmington, N.M. 87499
Facility or Well Name: Jicarilla Apache #8
Location: Unit or Qtr/Qtr Sec P Sec 27 T 26N R 5W County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Apache

Pit Location: Pit dimensions length 30' width 30' depth 9'
(Attach diagram)
Reference: wellhead ☒ other ☐
Footage from reference 175'
Direction from reference 90 Degrees ☒ East North ☐
West South ☐

Depth To Groundwater: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal high water elevation of groundwater) Greater than 100 feet (0 points) 0

Distance to an Ephemeral Stream: Less than 100 feet (10 points)
(Downgradient dry wash greater than 10 feet in width) Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points)
(Downgradient lakes, playas and livestock or wildlife watering ponds) Greater than 100 feet (0 points) 0

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources) No (0 points) 0

Distance To Surface Water: Less than 100 feet (20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) 100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 7-18-97 Date Completed: 10-31-97
Remediation Method: Excavation ☒ Approx. cubic yards 300 cu. yds
(Check all appropriate sections) Landfilled ☒ In situ bioremediation _____

Other _____
Remediation Location: Onsite ☒ Offsite _____
(i.e. landfilled onsite, name and location of offsite facility)

General Description of Remedial Action: Spread 6" thick on location for natural bio remediation.

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location each sidewall
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth: 9'
Sample date 7-18-97 Sample time 1100

Sample Results

Soil: Benzene (ppm) _____	Water: Benzene (ppb) _____
Total BTEX (ppm) <u>.036</u>	Toluene (ppb) _____
Field Head race (ppm) <u>40</u>	Ethylbenzene (ppb) _____
TPH (ppm) <u>.4</u>	Total Xylenes (ppb) _____

Groundwater Sample: Yes _____ No ☒ (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 7-29-97 PRINTED NAME Gary W. Donaghey
SIGNATURE Gary W. Donaghey AND TITLE Production Supervisor

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO _____ (REASON) _____
SIGNED: Kurt Mc DATE: 7-30-97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

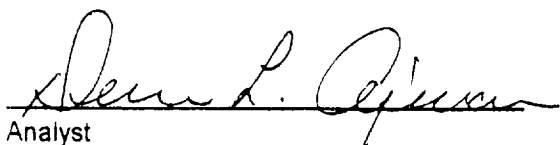
Client:	Marathon Oil	Project #:	95047
Sample ID:	Jicarilla #8 S.P.	Date Reported:	07-22-97
Laboratory Number:	B682	Date Sampled:	07-18-97
Chain of Custody No:	5316	Date Received:	07-18-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-21-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

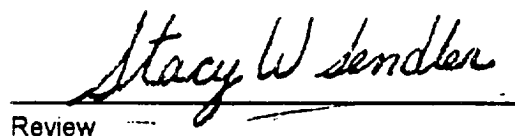
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.4	0.1
Total Petroleum Hydrocarbons	0.4	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla Pits. 4 Pnt. Comp.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Marathon Oil	Project #:	95047
Sample ID:	Jicarilla #8 S.P.	Date Reported:	07-22-97
Laboratory Number:	B682	Date Sampled:	07-18-97
Chain of Custody:	5316	Date Received:	07-18-97
Sample Matrix:	Soil	Date Analyzed:	07-21-97
Preservative:	Cool	Date Extracted:	07-21-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	21.5	10.8
o-Xylene	14.7	5.2
Total BTEX	36.2	

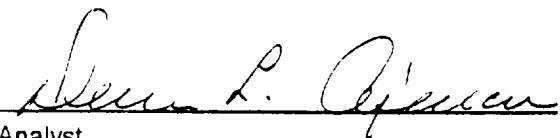
ND - Parameter not detected at the stated detection limit.

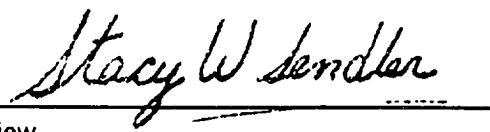
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Jicarilla Pits. 4 - PNT COMP.


Analyst


Review