District I P.O Box 1980, Hobbs, NM
Di Property S. Found P. DEPUTY OF CAS PASPECTOR District III 1000 Rio Brazosti Jaze, 8M 9870

State of New Mexico SUBMIT 1 COPY TO Energy, Minerals and Natural Resources Dept. APPROPRIATE

DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION 2040 S. Pacheco

Santa Fe, New Mexico 87504

REMEDIATION AND CLOSURE REPORT

Operator: Caulkins Oil Company Telephone: (505) 632-1544						
Address: P.O. Box 340, Bloomfield, NM 87413						
Facility or Well Name: Breech "E" 104						
Location: Unit or Qtr/Qtr Sec_P_Sec_5 T_26N_R_6W_County Rio Arriba						
Pit Type: Separator X Dehydrator Other						
Land Type: BLM_X_, State, Fee, Other						
Pit Location: Pit dimensions: length 10', width 10', depth 3' (Attach diagram) References: wellhead X, other						
Footage from reference: 30'						
Direction from reference: <u>20</u> Degrees <u>X</u> East North of West South						
Less than 50 feet (20 points) Depth to Ground Water: 50 feet to 99 feet (10 points) (Vertical distance from Greater than 100 feet (0 points) contaminants to seasonal high water elevation of ground water DECEIVED Veg. (20 points)						
Wellhead Protection Arean (Less than 200 feet from a private JUN - 2 1997 No (20 points) domestic water source, or; less than 1000 feet from all other water sources) (20 points) O O O O O O O O O O O O O						
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) O						
RANKING SCORE (TOTAL POINTS): 0						

Date Remediation Sta	rted: 6-25-96 Date Completed: 10-22-96					
Remediation Method: Excavation X Approx. cubic yards 33						
Check all appropriate sections)	Landfarmed X Insitu Bioremediation					
Other <u>Aeration and Dilution</u>						
,						
Remediation Location: Onsite X Offsite						
General Description of Remedial Action: Pit was excavated with backhoe until composite field headspace samples from pit was zero. Excavated soil was laid out on location in 8" lifts and rototilled periodically to aerate. Composite headspace samples from landfarm are indicated on diagram. Pit was backfilled and disturbed areas on location re-seeded. 4-15-97 - Dug hole in center of backfilled pit to obtain final soil samples from landfarmed soil used for fill dirt and 2' below bottom of excavated pit for final pit bottom sample per OCD request for final pit closure.						
Ground Water Encoun	tered: No X Yes Depth					
Final Pit: Closure Sampling: (if multiple samples, attach sample results	Sample location <u>Center of backfilled pit. 4' from surface "landfarmed soil" and 10' from surface "pit bottom".</u>					
and diagram of sample	Sample depth 4' fill and 10' bottom of pit					
	Sample date 4-15-97 Sample time 3:30 p.m.					
	Benzene (ppm)0					
	Total BTEX (ppm)86 fill 1.05 pit bottom					
Field headspace (ppm)						
TPH 129 fill 492 bottom of pit						
Ground Water Sample: Yes No X (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 5-30-97						
SIGNATURE Robert L. VERQUER, SUPERINTENDENT						



Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID:

Pit Remediation

Sample ID:

Sample Matrix:

Breech E104 Fill

Lab ID:

6743 Soil Report Date:

Date Sampled:

05/16/97 04/15/97

Date Received: Preservative:

04/16/97 Cool

Condition:

Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons	0.86	
Benzene	ND	0.15
Toluene	0.19	0.15
Ethylbenzene	0.16	0.15
m,p-Xylenes	0.35	0.31
o-Xylene	0.15	0.15
Total Volatile Petroleum Hydrocarbons	ND	13.8
Total Recoverable Petroleum Hydrocarbons	129	29.7

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Trifluorotoluene	102	50 - 150 %
	Bromofluorobenzene	97	74 - 121%
	o-Terphenyl	88	50 - 150%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;

Test Methods for Evaluating Solid Wastes, SW-846, United States

Environmental Protection Agency, Final Update I, July, 1992.

EPA Method 8015A, modified. "Nonhalogenated Volatile Organics by Gas Chromatography." Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846, 3rd Ed, Final Update I, July, 1992. USEPA.

Comments:

Min /10

Review



Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID:

Pit Remediation

Sample ID:

Breech E104 Bottom Of Pit

Lab ID:

Sample Matrix:

6744 Soil

Report Date:

05/16/97

Date Sampled:

04/15/97

Date Received: Preservative:

04/16/97

Cool

Conditio	n:
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Intact

Target Analyte		Concentration (mg/kg)	Detection Limit (mg/kg)
Total Aromatic Hydrocarbons		1.05	
	Benzene	ND	0.16
	Toluene	0.20	0.16
	Ethylbenzene	0.21	0.16
	m,p-Xylenes	0.45	0.32
	o-Xylene	0.19	0.16
Total Volatile Petro	oleum Hydrocarbons	ND	14.4
Total Recoverable	Petroleum Hydrocarbons	492	31.5
Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
•	Trifluorotoluene	91	50 - 150%
	Bromofluorobenzene	98	74 - 121%
	o-Terphenyl	91	50 - 150%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;

Test Methods for Evaluating Solid Wastes, SW-846, United States

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Comments:

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