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DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87504

AUG 08 1997

PIT REMEDIATION AND CLOSURE REPORT

RANKING SCORE (TOTAL POINTS): 0

TOTAL VOLATILE PETROLEUM HYDROCARBONS

Gasoline Range Organics

Caulkins Oil Company

Project ID: Breech "F" Lease
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 10/23/96
Date Sampled: 10/15/96
Date Received: 10/21/96
Date Extracted: 10/22/96
Date Analyzed: 10/22/96

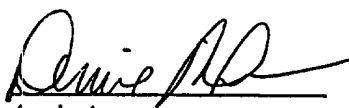
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
11 M Pit	5444	ND	21.3

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	101%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:


Analyst


Review

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Diesel Range Organics

Caulkins Oil Company

Project ID: Lease Breech F
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 11/07/96
Date Sampled: 10/15/96
Date Received: 10/21/96
Date Extracted: 10/29/96
Date Analyzed: 10/31/96

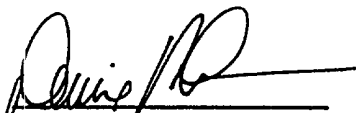
Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
11 M Pit	5444	ND	16.9


ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	41%	50 - 150%

Reference: 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: Low surrogate recovery due to wet clay sample matrix and addition of drying agent. Previous extraction and analysis on 10/25/96 confirmed ND.


Analyst


Review

TOTAL VOLATILE PETROLEUM HYDROCARBONS
Gasoline Range Organics

Caulkins Oil Company

Project ID: Breech "F" Lease
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 10/23/96
Date Sampled: 10/15/96
Date Received: 10/21/96
Date Extracted: 10/22/96
Date Analyzed: 10/22/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
11 M Landfarm	5447	ND	21.6

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	96%	50 - 150%

Reference: Method for the Determination of Gasoline Range Organics,
State of Tennessee, Department of Environment and Conservation, Division
of Underground Storage Tanks.

Comments:



Analyst



Review

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS
Diesel Range Organics**Caulkins Oil Company**

Project ID: Lease Breech F
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Report Date: 11/07/96
Date Sampled: 10/15/96
Date Received: 10/21/96
Date Extracted: 10/29/96
Date Analyzed: 10/31/96

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
11M Landfarm	5447	ND	17.1

ND- Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Limits</u>
	o - Terphenyl	82%	50 - 150%

Reference: 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.

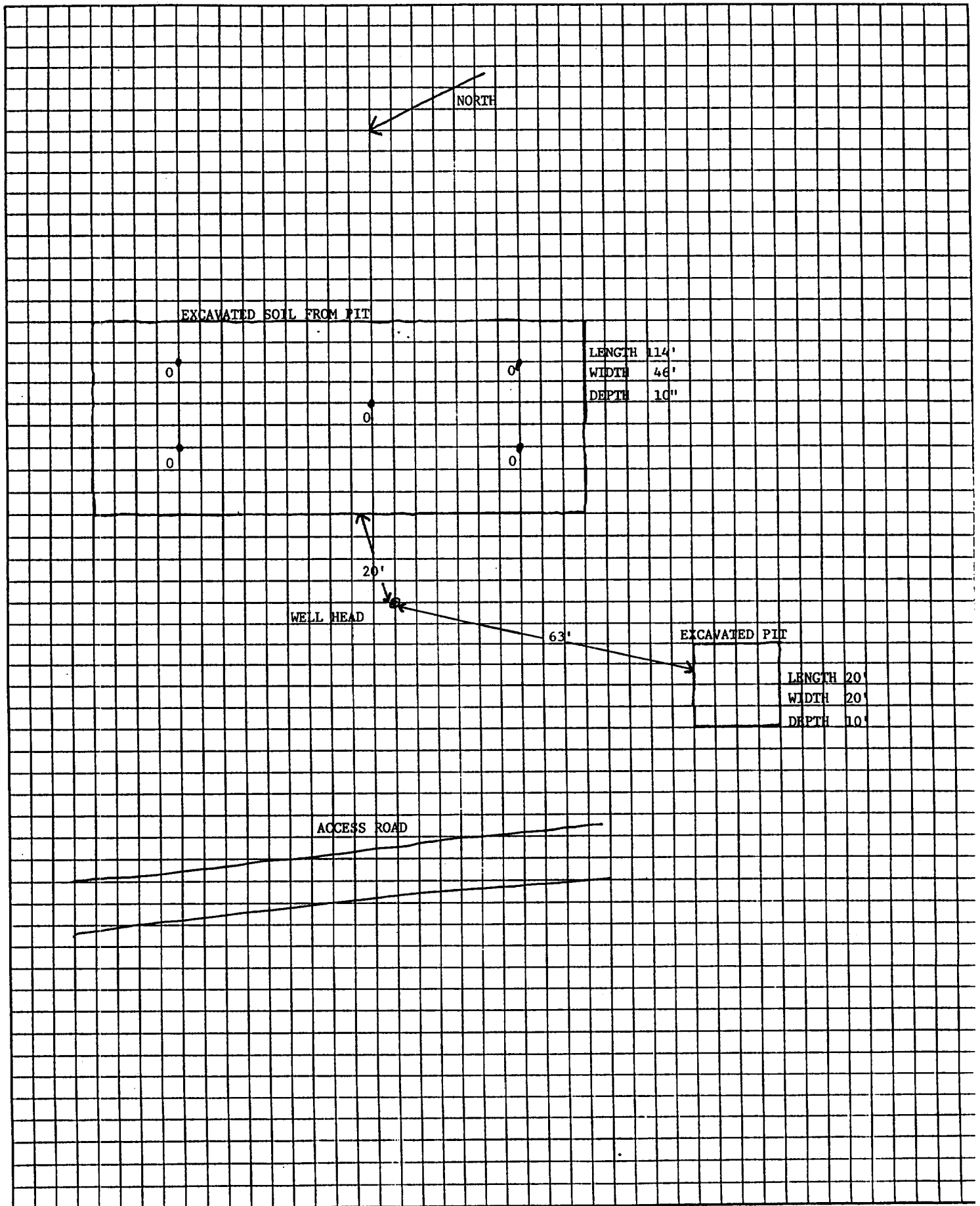
Comments:



Analyst



Review



Remediation Method: Excavation X Approx. cubic yards 161
Check all appropriate sections) Landfarmed X Insitu Bioremediation ____
Other Aeration and Dilution

Remediation Location: Onsite X Offsite ____
(ie. landfarmed onsite,
name and location of
offsite facility)

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 10" 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.

Ground Water Encountered: No X Yes ____ Depth ____

Final Pit: Sample location Bottom of excavated pit and
Closure Sampling: land farm.
(if multiple samples, attach sample results and diagram of sample Sample depth 10'
Sample date 10-15-96 Sample time 10:20 a.m.
Benzene (ppm) ____
Total BTEX (ppm) ____
Field headspace (ppm) Landfarm 0 bottom of pit 0
TPH Landfarm 0 bottom of pit 0

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 PRINTED NAME
AND TITLE ROBERT L. VERQUER, SUPERINTENDENT