

1000 Rio Brazos Rd, Aztec, NM 87410

Santa Fe, New Mexico 87504

PIT REMEDIATION AND CLOSURE REPORT

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 4-29-96 Date Completed: 10-30-96

Remediation Method: Excavation X Approx. cubic yards 148
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 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 Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Center of backfilled pit. 4' from
Closure Sampling: surface "landfarmed soil" and 10' from surface
(if multiple samples, "pit bottom".
attach sample results
and diagram of sample
Sample depth 4' fill and 10' bottom of pit
Sample date 4-15-97 Sample time 2:30 p.m.
Benzene (ppm) 0
Total BTEX (ppm) 0 fill 1.20 pit bottom
Field headspace (ppm) _____
TPH 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



Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID: Pit Remediation
Sample ID: Breech E 64 Fill
Lab ID: 6733
Sample Matrix: Soil

Report Date: 05/16/97
Date Sampled: 04/15/97
Date Received: 04/16/97
Preservative: Cool
Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons

ND

Benzene

ND

0.16

Toluene

ND

0.16

Ethylbenzene

ND

0.16

m,p-Xylenes

ND

0.32

o-Xylene

ND

0.16

Total Volatile Petroleum Hydrocarbons

ND

35.7

Total Recoverable Petroleum Hydrocarbons

ND

32.5

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene

100

50 - 150%

Bromofluorobenzene

104

74 - 121%

o-Terphenyl

91

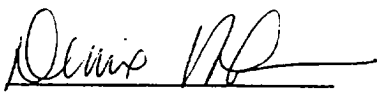
50 - 150%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Recoverable Organics;
Test Methods for Evaluating Solid Wastes, SW-846, United States
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:


Review



Organic Analysis - Pit Closure

Caulkins Oil Company

Project ID: Pit Remediation
Sample ID: Breech E 64 Bottom Of Pit
Lab ID: 6734
Sample Matrix: Soil

Report Date: 05/16/97
Date Sampled: 04/15/97
Date Received: 04/16/97
Preservative: Cool
Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
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Total Aromatic Hydrocarbons

1.20

Benzene

ND

0.15

Toluene

0.21

0.15

Ethylbenzene

0.15

0.15

m,p-Xylenes

0.54

0.30

o-Xylene

0.29

0.15

Total Volatile Petroleum Hydrocarbons

ND

34.3

Total Recoverable Petroleum Hydrocarbons

ND

31.2

Quality Control:

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene

113

50 - 150%

Bromofluorobenzene

105

74 - 121%

o-Terphenyl

91

50 - 150%

Reference:

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

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