

MINNESOTA POLLUTION CONTROL AGENCY
APPLICATION TO TREAT PETROLEUM CONTAMINATED SOIL

I. Source of Soil:

Facility Name: Sinclair Station
 Address: 7753 Portland Avenue So.
 City, State, Zip: Richfield, Minnesota 55423
 Site ID#: LEAK (Q572)
 Contact Name: Denny Lorenz
 Telephone: (913) 321-3700

II. Contamination Details:

Volume Soils (yd³): 300 yds³
 Type Petroleum Contamination: gasoline diesel fuel,
 #2 fuel oil (circle one)

Contaminant Concentration (ppm)

Benzene	<u>0.13 ppm</u>	_____	_____
Toluene	<u>0.37 ppm</u>	_____	_____
Total Xylenes	<u>15 ppm</u>	_____	_____
Total Hydrocarbons as <u>gasoline</u> or Fuel Oil	<u>120 ppm</u>	_____	_____
Lead	<u>9 ppm</u>	_____	_____

Percent Soil less than 200 mesh or 74 microns 4.8%
 Soil Type (sand, silt, clay, etc.) Sand

III. Proposed Asphalt Plant/Low Temperature Thermal Unit

Name: CleanSoils Inc.
 Address: 14120 23rd Avenue North, Mpls, MN 55447
 (if portable, where will plant be located)
 City, State, Zip: 500 Como Avenue, St. Paul, MN
 Plant Number or Model: SRU 101 (Thermal Desorber™)
 Contact Name: Mr. Dave Kress Title: _____
 Telephone: (612) 557-7106 Site Telephone: _____
 Air Quality Permit Number: 2307-90-OT-1

Separation Distance in feet from Nearest Resident: 700
 Separation Distance in feet from Nearest Business: 700
 Burner Temperature during Soil Treatment: 450° F PTU, 1400° STU
 Soil Residence Time in Burner during Treatment: 3 min - 6 min

- IV. Include signed statement from asphalt concrete plant owner that the plant has been properly maintained and/or repaired prior to treatment of petroleum contaminated soils and is capable of operating in compliance with MPCA permit conditions and rules.
- V. Date treatment will be completed: within 60 days of delivery (If stockpiled before being treated, all petroleum contaminated soil must be tarped and run-off protection provided).
- VI. Final Disposition of Treated Soil: (how used, location) (If soils will not be incorporated into asphalt or road base, post burn testing is required. Soils will need to be sampled for the same parameters listed in item II. Two composite soil samples are to be taken for every 300 yard³ of soil).

Roadbase Material.

VII. Consultant Submitting Request:

Company Name:
 Address:
 City, State, Zip:

EnvloTech Midwest, Inc.
3050 METRO DRIVE
Bloomington, MN 55425

Contact Name:
 Telephone:

Jim Berg
(612) 854-5513
 Fax: (612) 854-5745

Signature:

Jim Berg

Date:

6/8/98

interpoll

INTERPOLL LABORATORIES, INC.
 4500 BALL ROAD N.E.
 CIRCLE PINES, MINNESOTA 55014-7819
 TEL. 612 786-6020
 FAX 612 786-7854

June 7, 1990

EnecoTech
 3050 Metro Drive, Suite 115
 Bloomington, MN 55425

Attention: Jim Berg

LABORATORY REPORT: #9563
 ENECOTECH PROJECT: #711-017

SAMPLES COLLECTED: May 17 & 18, 1990
 SAMPLES RECEIVED: May 18, 1990

Sample Identification:
 Sample Type:
 Laboratory Log Number:

01-SP-C
 Soil
9563-01

<u>Parameter</u>	<u>Units</u>	<u>Target Detection Limit</u>	
EPA Method SW-846, 6010: Lead	mg/Kg	1.3	9
EPA Method SW-846, 8020: Benzene	mg/Kg	0.06	0.13
Toluene	mg/Kg	0.11	0.37
Ethylbenzene	mg/Kg	0.05	< 0.05
Xylenes	mg/Kg	0.28	15
EPA Method SW-846, 8015: Total hydrocarbons, as gasoline	mg/Kg	1.2	120

 **interpoll**

INTERPOLL LABORATORY, INC.
3500 BALD ROAD NW
CIRCLE PINES MINNESOTA 55419
TEL 612 786-6010
FAX 612 786-7854

June 7, 1990

EnecoTech
3050 Metro Drive, Suite 115
Bloomington, MN 55425

Attention: Jim Berg

LABORATORY REPORT: #9563-09
ENECOTECH PROJECT: #711-017

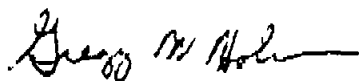
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Results of Sieve Analysis on Soil¹ Sample #01-SP-C

<u>Mesh Size</u>	<u>Diameter</u>	<u>Relative Cumulative Frequency Percent by Mass Greater Than</u>
18	1000 um	1.7
40	425 um	13.7
200	75 um	95.2

Sieve determination using sieves meeting ASTM E-11 specifications.

Respectfully submitted,



Gregg W. Holman,
Senior Scientist
Inorganic Chemistry Department

GWH/cg

¹Soil sample was oven dried at 105°C.