WISCONSIN
DEPT. OF NATURAL RESOURCES

George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District - Annex Building
Post Office Box 12436
4041 N. Richards St.
Milwaukee, Wisconsin 53212
TELEPHONE: 414-961-2727
TELEFAX #: 414-961-2770

October 6, 1993

File Ref:

Darlene Bigelow
10000 North Port Washington Rd.
Mequon, WI 53092

Dear Ms. Bigelow:

RE: Petroleum contamination at the above address

I have looked at your file based on the 9/27/91 report completed by Environmental Associates, Inc. I concur with Environmental Associates in that no further work is necessary at the site regarding the two former underground storage tanks.

I am signing the Form 4 and I am sending it to the Department of Industry, Labor, and Human Relations. Should environmental problems occur in the future that may be related to the former tanks, you may be required to do more work.

Sincerely,

John Feeney
Hydro, Tank Response Unit

cc: DILHR
Environmental Associates
SED File

Wisconsin Department of Industry,
Labor and Human Relations
Safety and Buildings Division

FORM 4

DNR SITE INVESTIGATION AND REMEDIAL ACTION PLAN REVIEW

Bureau of Petroleum Inspection
and Fire Protection
P.O. Box 7969
Madison, WI 53707
(608) 267-4545
(608) 267-7538
(608) 266-9420

Section 101.143 (3) (c) 4, Wis. Stats., requires that a claimant obtain written approval from the Department of Natural Resources (DNR) when requesting reimbursement for activities in response to a discharge from a commercial petroleum product storage system or home oil tank. The DNR approval must indicate that the site investigation and remedial action plan is adequate to meet requirements of s. 144.76, Wis. Stats. The DNR approval is created for the purpose of meeting the requirements of s. 101.143 (3), Wis. Stats., only and does not bar the DNR from requiring that additional investigation and/or remediation activities be performed by persons responsible under s. 144.76, Wis. Stats.

DNR Use Only

Any DNR / DOJ Enforcement Action(s) or DNR LUST Trust Expenditures on this site? ☐ Yes ☐ No

If answer is yes, please provide pertinent details on attached sheet.

Claimant's Name	Remedial Action Site Name (if business)
Darlene Bigelow	Park Avenue BEauty Salon
Street Address	**Remedial Action Site Address**
10000 North Port Washington Road	10000 North Port Washington Road
City, State, Zip Code	**City, State, Zip Code**
Mequon, WI 53092	Mequon, WI 53092
Claimant's Telephone Number	**Telephone Number of Site**
(414) 241-8090	(414) 242-8090

Claimant is
☒ Owner ☐ Operator ☐ Other - please specify:

Approval requested for: ☒ Petroleum Product Storage System ☐ Home Oil Tank System ☐ Aboveground

FOR DNR USE ONLY (Indicate Whether Completed Remedial Action or Other Action(s))

A copy of this completed document must be submitted to DNR for approval of initial activities (emergency action, site investigation and remediation) in accordance with s. 101.143 (3) (c) 4, Wis. Stats.

☒ Completed Remedial Action (complete cleanup and single claim for reimbursement) (Steps 1 through 3)

Progress Payments For:

☐ Emergency Action (Step 1 - check only if emergency action was performed)

☐ Completion of Site Investigation (Step 1) and Proposed Remedial Action Plan (Step 2)

☐ Remedial Action (Step 3)

☐ Operation/Maintenance and Environmental Monitoring (annual claim for remedial action activities) (Step 4)

☐ Site Investigation **By Order** of DNR And/Or DILHR - No Remedial Action

Check Appropriate Box(es)

The DNR received a request for approval of the above identified activities for the site listed on this document on the following date 11/20/92.

The DNR response for purposes of s. 101.143 (3), Wis. Stats., is attached.

Remedial action activities conducted by owners/operators are not eligible for funding under 42 USC 6991 (L.U.S.T. Funding). (See s. 101.143 (3) (a) 2., Wis. Stats.)

Send one copy of this completed form to the address shown in the upper right corner and one copy to the claimant.

Reviewer's Signature John Feeney Date Signed 10/6/93

Reviewer's Title H-Geo

Wisconsin Department of Industry, Labor and Human Relations

FORM 1
REMEDIAL ACTION FUND APPLICATION

Safety and Buildings Division
Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707
(608) 267-4545
(608) 267-7538

Office Use Only: Application Case # _____

		Registered	Installation Date
Tank ID	_____	Y / N	_____
Tank ID	_____	Y / N	_____
Tank ID	_____	Y / N	_____

This application is to be completed and submitted with all required attachments to the address in the above right corner for an award under s. 101.143, Wis. Stats., the Petroleum Storage Remedial Action Fund. A petroleum product storage system owner or operator or a person owning a home oil tank system may submit a claim to the Department to obtain reimbursement of eligible costs incurred because of a petroleum product discharge. Complete the applicable sections below as explained in the attached instructions.

Application is submitted for: ☒ Petroleum Product Storage System ☐ Home Oil Tank System ☐ Aboveground

I. CLAIMANT IDENTIFICATION (Claim will be made payable to this person or organization)

Claimant's Name: Darlene Bigelow	Remedial Action Site Name (if business): Park Avenue Beauty Salon
Street Address: 10000 North Port Washington Road	Remedial Action Site Address: 10000 North Port Washington Road
City, State, Zip Code: Mequon, Wisconsin 53092	City, State, Zip Code: Mequon, Wisconsin 53092
Claimant's Telephone Number: (414 241-8090	Telephone Number of Site: (414) 241-8090

Claimant is
☒ Owner ☐ Operator ☐ Other - please specify:

Claimant's Tax Identification Number - If corporation, provide Federal Employer Identification Number; If individual, provide Social Security Number
3 9 5 3 2 5 1 7 3

Tanks were initially registered (inventoried) under the name:	Address
Initial Contact Name	Initial Owner's Name

II. EXPENSES CLAIMED FOR (DNR approval form SBD-8069 must be attached - as required under s. 101.143(4)(c), Stats.)

☒ Completed Remedial Action (complete cleanup and single claim for reimbursement) (Step 1 through Step 3)

Progress Payments For:

☐ Emergency Action (abatement of an imminent hazard.) (Step 1)
☐ Completion of Site Investigation (Step 1) and proposed Remedial Action Plan (Step 2) ☐ Remedial Action (Step 3) ☐ Operation/Maintenance (Annual claim for remedial action activities) (Step 4)

If a previous claim was submitted, indicate date of previous claim reported: 4/90. Also, identify the remedial action activity reported in the previous claim: Partial application

☐ Site Investigation By Order of DNR Or DILHR - No Remedial Action

Total dollar expenses reported on this claim: $ 15,918.38

The Petroleum Storage Remedial Action Fund Cost Summary document (form SBD-8076) must be accompanied by a CPA Affidavit verifying the costs (form SBD-8068). Furthermore, if a claim is being submitted by any individual other than the owner or by an individual who does not have 100% ownership, a Current Owner Assignment Certification (form SBD-8070) must also be filed with this application. In the case of a corporation, a chief financial officer or other corporate officer may sign the application. In case of a municipality, the form must be signed by the mayor or chief financial officer.

I assume the responsiblity for notifying all current owners about this claim and for ensuring that all current owners or their authorized agent provide a complete and accurate Current Owner Assignment Certification (form SBD-8070).

Claimant Signature Darlene Bigelow Date Signed 5/25/92

Office Use Only

Amount Claimed	Amount Authorized	Authorized By		Date Paid	Check No.	Voucher No.
Cost Center	**Obj/Sub**	**Project**	**Function**	**%**	**$ Amount**	**FYO**
				100		

SBD-8067 (R. 07/90) Copy Distribution: White - DILHR Safety & Buildings; Green - Claimant/Agent; Pink - CPA; Yellow - DILHR Fin Management

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District
2300 N. Dr. Martin Luther King Jr. Dr.
Post Office Box 12436
Milwaukee, Wisconsin 53212
Telephone: 414-263-8500
Telefax: 414-263-8483

Carroll D. Besadny
Secretary

January 15, 1992

File Ref: *

Jerry Bigelow
10000 North Port Washington Road
Mequon, WI 53092

Dear Mr. Bigelow:

RE: Petroleum contamination at above address

I have received and reviewed your case based on the 9/27/91 report submitted by Environmental Associates. I am unable to close the case for the following reasons:

1. Chain of custody forms are not signed and dated in the RECEIVED FOR LABORATORY section. My copies of the form are illegible.

2. I need an Application to Treat or Dispose Soils form and landfill tickets.

If you have any questions about this letter or concerns about the site in general, please call me at 414-263-8654 or write to the above letter head address.

Sincerely,

John Feeney

John Feeney,
Hydrogeologist, Environmental Repair Section

cc: Brian Bartling - Envornmental Associates
SED Case File

EMERGENCY RESPONSE AND REMEDIAL ACTION

MR. JERRY BIGELOW

September 27, 1991

Environmental Associates
of Milwaukee, Inc.

September 27, 1991

Mr. Jerry Bigelow
10,000 North Port Washington Rd.
Mequon, WI 53092

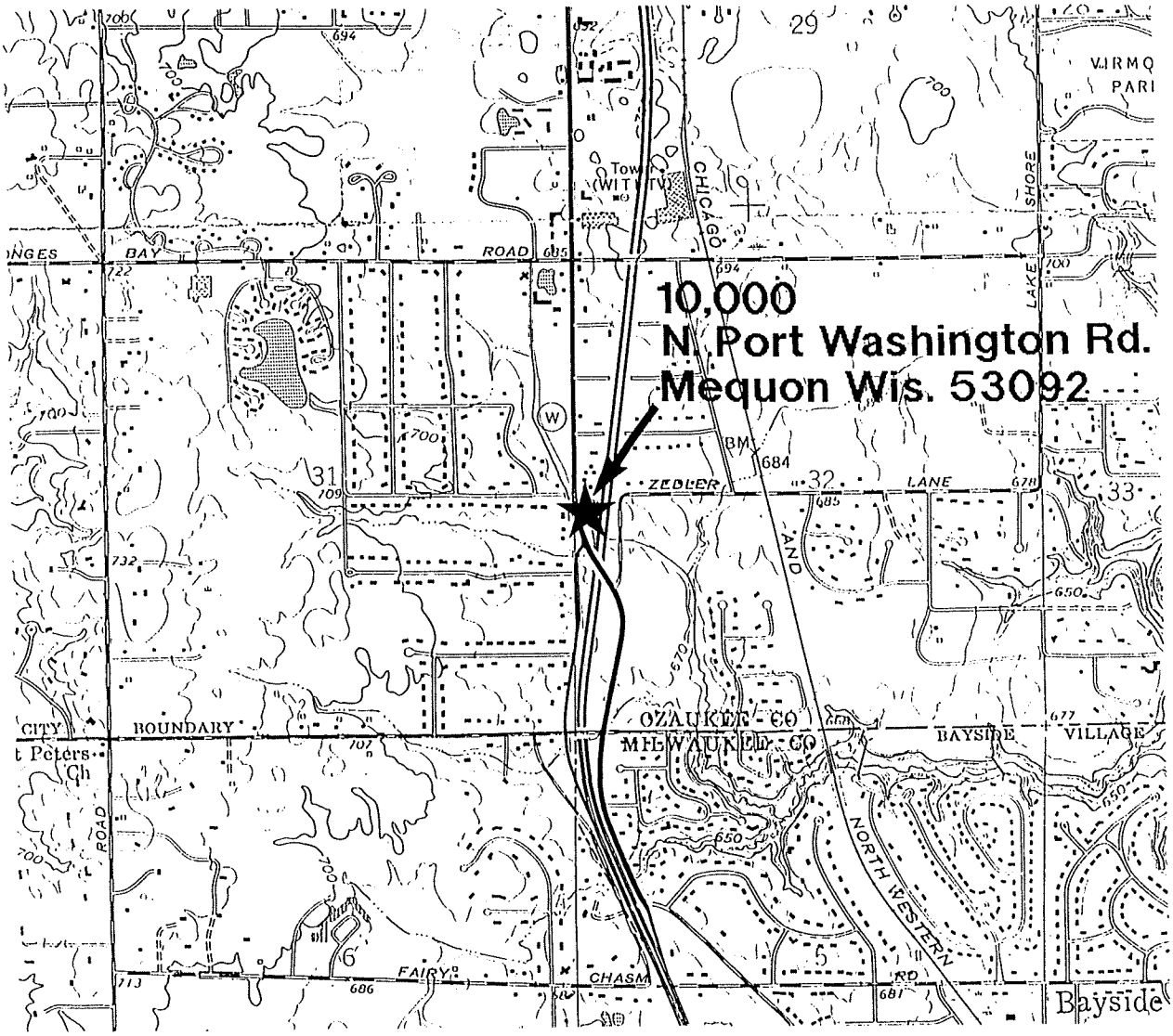
RE: Emergency Response and Remedial Action at 10,000 North Port Washington Road, Mequon, Wisconsin.

Dear Mr. Bigelow:

Per your request, Environmental Associates has conducted an emergency response to a petroleum release at 10,000 North Port Washington Road, Mequon, Wisconsin (Figure 1). The legal description defines the property as being located in the Southwest 1/4 of the Northwest 1/4 of Section 32, Township 9 North, Range 22 East, Latitude 43° 12′ 00" Longitude 87° 55′ 6".

Background Information

During excavation for a foundation footing on July 23, 1991, Jerry Bigelow Construction uncovered a 550 gallon waste oil underground storage tank (UST) and a 250 gallon hydraulic oil UST. Both UST's contained product and appeared to be leaking. Mr. Bigelow contracted TJ Environmental Contractors, Inc. to remove and dispose of the UST's. The tanks were located side by side in the area depicted in Figure 2. Environmental Associates was subcontracted by TJ Environmental to perform the UST closure assessment and to attempt to remediate the site by overexcavation.



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

N

W E

S

FIGURE 1
Site Location Map and Local Topography

Environmental Associates of Milwaukee, Inc.

Drawn by:		Checked by:			Drawing number	91-06147-1
		Approved by:				

G.M.B. ENGINEERING 536988

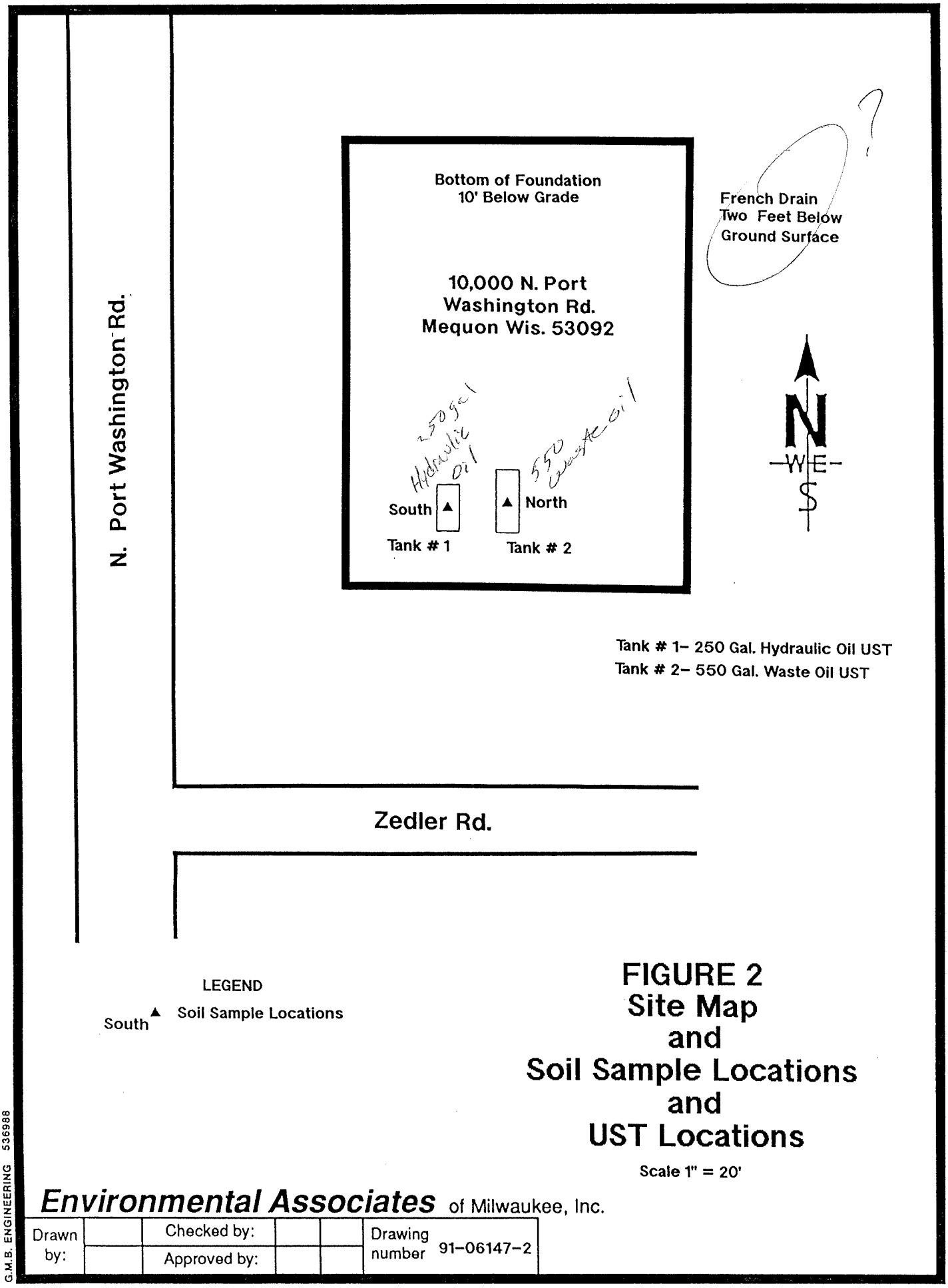


FIGURE 2
Site Map and Soil Sample Locations and UST Locations

Scale 1" = 20'

Environmental Associates of Milwaukee, Inc.

Drawn by:		Checked by:			Drawing number 91-06147-2
		Approved by:			

G.M.B. ENGINEERING 536988

Observation and Inspection of UST System Removal

The waste oil UST was found to be in fair condition. Some of the asphaltum used to protect the tank exterior from oxidation remained on the UST. The tank was rusted and pitted, particularly along the seam welds. No obvious holes were observed, except for the rip where the construction backhoe ruptured the UST. The hydraulic oil UST was severely pitted and rusted, and several 1/4" to 1/2" holes were observed along the base of the tank. TJ Environmental pumped all liquid from both UST's into 55-gallon drums. One soil sample was collected from beneath each base of the UST's (S North and S South) and submitted for laboratory analysis of Total Recoverable Petroleum Hydrocarbons (TRPH). Additionally, one sample (WP) was collected and submitted for a special waste profile analysis in order to facilitate proper disposal of excavated soils. These results are presented in Attachment A.

Remedial Action

In an attempt to mitigate observed site contamination, Environmental Associates recommended that the excavation be enlarged to the extent practical in an effort to potentially remediate the identified impacts. Mr. Bigelow agreed, and overexcavation of impacted soils commenced on the morning of July 24, 1991.

During impacted soil excavation, Environmental Associates personnel collected representative soil samples for description and analysis. A total of fifteen samples were subjected to PID headspace analysis using a Thermo Environmental Instruments Model 580B organic vapor meter (OVM) equipped with a 10.6 eV lamp, and calibrated for direct response to an isobutylene span gas. These soil samples were collected to determine progress, and to guide further efforts during remedial activities. PID results are presented in Table 1. Seven of these soil samples (S001-S007) were also submitted for laboratory TRPH analysis as further verification of impacts at the site. These results are presented in Attachment A.

Table 1: Summary of field samples subjected to PID headspace analysis, 10,000 North Port Washington Road, Mequon, Wisconsin

Sample ID	PID Response (ppm)	Soil Description	Amount of Impacted Soil Removed (cubic yards)
S001	216	Silty clay	1
S002	147	Silty clay	6
S003	160	Silty clay	16
S004	140	Silty clay	24
S005	186	Silty clay	30
S006	162	Silty clay	38
S007	170	Silty clay	48
S008	214	Silty clay	55
S009	164	Silty clay	62
S010	148	Silty clay	70
S011	182	Silty clay	75
S012	82	Silty clay	80
S013	124	Silty clay	85
S014	112	Silty clay	90
S015	72	Silty clay	95

Contaminated soil excavation and removal was completed on the same afternoon. Approximately 100 cubic yards of impacted soil were removed from the excavation and were stockpiled on the south side of the property. When the proper lab tests were completed, the contaminated soil was hauled off to Parkview Landfill, Menomonee Falls, Wisconsin. One sample was collected from the south (S101), west (S102) and east (S103) walls of the final excavation, as well as from the floor (S100, S105). Sample S105 was a duplicate of sample S100, and was submitted as a state required laboratory check. The north wall of the excavation was removed during the course of the footing excavation, and the soil was clean until Mr. Bigelow encountered the UST's; thus, no sample was collected from the north wall of the excavation. TRPH analysis is extremely sensitive, and is incapable of distinguishing naturally occurring hydrocarbons such as tree roots and other organics, from hydrocarbons resulting from petroleum contamination. Thus, one sample (S104 BG) was collected from a known "clean" area on the north wall of the excavation and used as a background sample. The results of all the laboratory samples are given in Attachment A and summarized in Table 2.

N wall ? South wall 872

Results and Conclusions

Given the background sample analysis of 41ppm, the soil samples from the final excavation show that the site was remediated of adverse impacts. None of the final soil samples collected were more than 30 ppm higher than the background sample. This variance can be explained by naturally occurring variations in the hydrocarbon content of silty clay soils. None of the remaining soils after overexcavation contained petroleum odors, stains, or any other physical characteristics which would suggest that they were impacted. No groundwater was encountered during any phase of the work performed on site, consequently Environmental Associates believes that ground water was not affected by the petroleum release. Environmental Associates further believes that no further work is needed at the site.

09A SSouth ?

Table 2: Summary of soil samples collected for laboratory analysis, 10,000 North Port Washington Road, Mequon, Wisconsin

Sample ID	PID Response (ppm)	Soil Description	Amount of Impacted Soil Removed (cubic yards)
S001	216	Silty clay	183
S002	147	Silty clay	112
S003	160	Silty clay	118
S004	140	Silty clay	129
S005	186	Silty clay	156
S006	162	Silty clay	142
S007	170	Silty clay	150
S North	24	Silty clay	46
S South	346	Silty clay	842
S100 Floor	0.0	Silty clay	40
S101 N. Wall	0.0	Silty clay	68
S102 W. Wall	0.0	Silty clay	26
S103 E. Wall	0.0	Silty clay	50
S104 BG	0.0	Silty clay	41
S105 Floor	0.0	Silty clay	30

The results of this study are based upon professional interpretation of the information available to Environmental Associates given the time and budget constraints of this project. Environmental Associates does not warrant that this report represents an exhaustive study of all possible environmental impacts associated with the decommisioned UST system, and consequently believe this report should adequately address the clients' needs at this time.

Sincerely,

Environmental Associates
of Milwaukee, Inc.

Jim Bannantine

Staff Geologist

D'Arcy Gravelle

Senior Hydrogeologist

Attachment A

Precision Analytical Lab, Inc
205 West Galena
Milwaukee, WI 53212

Attn:
Phone: (414) 272-5222

91-06147
Bigelow

Environmental Associates
P.O. Box 136
Mequon, WI 53092

Attn:
Invoice Number:

Order #: 91-07-147
Date: 08/09/91 14:21
Work ID: 10,000 N. Port Washington
Date Received: 07/24/91
Date Completed: 08/09/91

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	S001	02	S002
03	S003	04	S004
05	S005	06	S006
07	S007	08	S NORTH
09	S SOUTH	10	S 100 FLOOR
11	S101 N. WALL	12	S102 WEST WALL
13	S103 EAST WALL	14	S104 BG
15	S105 FLOOR	16	WP

Laboratory ID Number (Wisconsin DNR): 241369260

Certified By
Jeff Bushner,Linda Woodie

15 days holding time

TEST RESULTS BY SAMPLE

Sample: 01A S001 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	183		ppm	08/07/91	SUN

Sample: 02A S002 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	112		ppm	08/07/91	SUN

Sample: 03A S003 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	118		ppm	08/07/91	SUN

Sample: 04A S004 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	129		ppm	08/07/91	SUN

Sample: 05A S005 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	156		ppm	08/07/91	SUN

Sample: 06A S006 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	142		ppm	08/07/91	SUN

Sample: 07A S007 Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	150		ppm	08/07/91	SUN

4 days

Sample: 08A S NORTH Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	46		ppm	08/07/91	SUN

Sample: 09A S SOUTH Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	872		ppm	08/07/91	SUN

Sample: 10A S 100 FLOOR Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	40		ppm	08/07/91	SUN

Sample: 11A S101 N. WALL Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	68		ppm	08/07/91	SUN

Sample: 12A S102 WEST WALL Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	26		ppm	08/07/91	SUN

Sample: 13A S103 EAST WALL Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	50		ppm	08/07/91	SUN

Sample: 14A S104 BG Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	41		ppm	08/07/91	SUN

Sample: 15A S105 FLOOR Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
Petroleum Hydrocarbon	30		ppm	08/07/91	SUN

Sample: 16A WP Collected: 07/24/91

Test Description	Result	Limit	Units	Analyzed	By
8021 Soil					
Benzene	< 1.0		UG/KG	08/01/91	JJB
Bromobenzene	< 1.0		UG/KG	08/01/91	JJB
Bromochloromethane	< 1.0		UG/KG	08/01/91	JJB
Bromodichloromethane	< 1.0		UG/KG	08/01/91	JJB
Bromoform	< 3.0		UG/KG	08/01/91	JJB
Bromomethane	< 1.0		UG/KG	08/01/91	JJB
n-Butylbenzene	100		UG/KG	08/01/91	JJB
sec-Butylbenzene	< 1.0		UG/KG	08/01/91	JJB
tert-Butylbenzene	85		UG/KG	08/01/91	JJB
Carbon tetrachloride	< 1.0		UG/KG	08/01/91	JJB
Chlorobenzene	< 1.0		UG/KG	08/01/91	JJB
Chloroethane	< 2.0		UG/KG	08/01/91	JJB
Chloroform	< 1.0		UG/KG	08/01/91	JJB
Chlormethane	< 1.0		UG/KG	08/01/91	JJB
2-Chlorotoluene	160		UG/KG	08/01/91	JJB
4-Chlorotoluene	< 1.0		UG/KG	08/01/91	JJB
1,2-Dibromo-3-chloropropane	< 5.0		UG/KG	08/01/91	JJB
Dibromochloromethane	< 1.0		UG/KG	08/01/91	JJB
1,2-Dibromoethane	< 1.0		UG/KG	08/01/91	JJB
Dibromomethane	< 1.0		UG/KG	08/01/91	JJB
1,2-Dichlorobenzene	< 1.0		UG/KG	08/01/91	JJB
1,3-Dichlorobenzene	< 1.0		UG/KG	08/01/91	JJB
1,4-Dichlorobenzene	< 1.0		UG/KG	08/01/91	JJB
Dichlorodifluoromethane	< 2.0		UG/KG	08/01/91	JJB
1,1-Dichloroethane	< 1.0		UG/KG	08/01/91	JJB
1,2-Dichloroethane	< 1.0		UG/KG	08/01/91	JJB
1,1-Dichloroethene	< 1.0		UG/KG	08/01/91	JJB
cis-1,2-Dichloroethene	< 1.0		UG/KG	08/01/91	JJB
trans-1,2-Dichloroethene	< 1.0		UG/KG	08/01/91	JJB
1,2-Dichloropropane	< 1.0		UG/KG	08/01/91	JJB
1,3-Dichloropropane	< 1.0		UG/KG	08/01/91	JJB
2,2-Dichloropropane	< 1.0		UG/KG	08/01/91	JJB
1,1-Dichloropropene	< 1.0		UG/KG	08/01/91	JJB
Ethylbenzene	< 1.0		UG/KG	08/01/91	JJB
Hexachlorobutadiene	< 1.0		UG/KG	08/01/91	JJB
Isopropylbenzene	6.1		UG/KG	08/01/91	JJB
p-Isopropyltoluene	11		UG/KG	08/01/91	JJB
Methylene Chloride	< 1.0		UG/KG	08/01/91	JJB

Test Description	Result	Limit	Units	Analyzed	By
Naphthalene	58		UG/KG	08/01/91	JJB
n-Propylbenzene	26		UG/KG	08/01/91	JJB
Styrene	< 1.0		UG/KG	08/01/91	JJB
1,1,1,2-Tetrachloroethane	< 1.0		UG/KG	08/01/91	JJB
1,1,2,2-Tetrachloroethane	< 1.0		UG/KG	08/01/91	JJB
Tetrachloroethene	< 1.0		UG/KG	08/01/91	JJB
Toluene	38		UG/KG	08/01/91	JJB
1,2,3-Trichlorobenzene	< 1.0		UG/KG	08/01/91	JJB
1,2,4-Trichlorobenzene	< 1.0		UG/KG	08/01/91	JJB
1,1,1-Trichloroethane	< 1.0		UG/KG	08/01/91	JJB
1,1,2-Trichloroethane	< 1.0		UG/KG	08/01/91	JJB
Trichloroethene	< 1.0		UG/KG	08/01/91	JJB
Trichlorofluoromethane	< 1.0		UG/KG	08/01/91	JJB
1,2,3-Trichloropropane	< 1.0		UG/KG	08/01/91	JJB
1,2,4-Trimethylbenzene	140		UG/KG	08/01/91	JJB
1,3,5-Trimethylbenzene	47		UG/KG	08/01/91	JJB
Vinyl Chloride	< 2.0		UG/KG	08/01/91	JJB
o-Xylene	110		UG/KG	08/01/91	JJB
m/p-Xylene	150		UG/KG	08/01/91	JJB
Cadmium in Waste	0.098		ppm	08/08/91	LJW
Cyanide, Reactive	<10		ppm	07/29/91	DAT
Flash Point, Closed Cup	>210	140	degrees F	07/31/91	DT
Free Liquids	0		%	07/29/91	DAT
Lead in Waste	40		ppm	08/08/91	LJW
Petroleum Hydrocarbon	155		ppm	08/07/91	SUN
Sulfide, Reactive	<2		ppm	07/29/91	DAT
pH	7.6		units	07/29/91	DAT

REPORT COMMENTS

The samples ordered for 8021 were analyzed according to Method 8021 (SW 846 Test Methods for Evaluating Solid Waste - Physical/ Chemical Methods)

The samples ordered for TPH-IR were analyzed by EPA Method 418.1

All analysis as per approved methods found in one or more of the following:
Standard Methods for the Evaluation of Water and Wastewater, 16th Edition.
Methods for Chemical Analysis for Water and Wastes, Revised March 1983, EPA 600/4-79-020
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, 3rd Edition 1986 EPA SW846

Analysis performed and certified by Precision Analytical Laboratory.

CLIENT INFORMATION

Name: _____

Company: _____

Address: _____

_____

Phone: _____

P.O.# / Project#: _____

Quote/Reference#: _____

Note: Terms and conditions printed on back apply.

Sample Type

(Check all that apply)

- ☐ Groundwater
- ☐ Wastewater
- ☐ Soil
- ☐ Solid Waste
- ☐ Oil
- ☐ Other _____

Sample Handling

- ☐ Nonhazardous
- ☐ Flammable
- ☐ Skin Irritant
- ☐ Highly Toxic
- ☐ Other *(specify)* _____
- ☐ Refrigerate
- ☐ Work in Hood
- ☐ Wear Gloves

Precision Analytical Laboratory, Inc.
205 W. Galena
Milwaukee, WI 53212

Phone: (414) 272-5222
Fax: (414) 272-6949

Turnaround Time

- ☑ Normal
- ☐ Rush

Date Needed _____

(Preapproval by Lab)

ANALYTICAL REQUESTS

(use seperate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	TCLP	SWAR PREMICATION	REMARKS

Del'v: Hand Comm.
Ship. Cont. OK? Y N N/A
Rec'd Refrig.? Y N N/A
Seals OK? Y N N/A
Samples leaking? Y N N/A
Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*	DATE/TIME

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

CLIENT INFORMATION

Name: _____

Company: _____

Address: _____

_____

Phone: _____

P.O.# / Project#: _____

Quote/Reference#: _____

Note: Terms and conditions printed on back apply.

Sample Type

(Check all that apply)

- ☐ Groundwater
- ☐ Wastewater
- ☐ Soil
- ☐ Solid Waste
- ☐ Oil
- ☐ Other _____

Sample Handling

- ☐ Nonhazardous
- ☐ Flammable
- ☐ Skin Irritant
- ☐ Highly Toxic
- ☐ Other *(specify)* _____
- ☐ Refrigerate
- ☐ Work in Hood
- ☐ Wear Gloves

Precision Analytical Laboratory, Inc.
205 W. Galena
Milwaukee, WI 53212

Phone: (414) 272-5222
Fax: (414) 272-6949

Turnaround Time

- ☐ Normal
- ☐ Rush

Date Needed _____

(Preapproval by Lab)

ANALYTICAL REQUESTS

(use seperate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID								REMARKS

Del'v: Hand Comm.
Ship. Cont. OK? Y N N/A
Rec'd Refrig.? Y N N/A
Seals OK? Y N N/A
Samples leaking? Y N N/A
Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*	DATE/TIME

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* / DATE/TIME

1786

Department of Natural Resources

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 3-91

Site Name: Bigelow, Jerry Property

PMN: _____ FID: _____

Proj Mgr: T. Feeney

Support Person: _____

District: SED County: Ozaukee

Address: 10000 N. Port Wash Rd

Mequon 53092

Legal Municipality: Mequon

Legal Desc: SW 1/4 NE 1/4 Sec 32 T 9 R 22 E/W

Date of Initial Contact: 7/23/91 Date of Letter: 08/08/91 Date Site Closure Approved: 10/6/93

Status
_____ 1 = State Lead
X 2 = RP Lead

Priority Screening
_____ 1 = High
_____ 2 = Medium
X 3 = Low
_____ 4 = Unknown

Score: _____ . _____

Funding Source
X 1 = RP
_____ 2 = LTF
_____ 3 = EF
_____ 4 = SF
_____ 5 = None
_____ 6 = Other (Describe In Comments)
_____ 7 = EPA (Emergency Resp)

PECFA Review Requested
(√) _____ Yes _____ No

Date PECFA Request Received
(mm/dd/yy) _____/_____/_____

Lust Trust Eligible
X 1 = Federal
_____ 2 = Non-Federal

CASE STATUS

(√) As Appropriate	Date Initiated (mm/dd/yy)	Date Completed (mm/dd/yy)	Comments
_____ No Action Taken (N)			
_____ Emergency (E)	___/___/___	___/___/___	
_____ Emergency Response (R)	___/___/___	___/___/___	
X Field Investigation (I)	7/23/91	___/___/___	
√ Remedial Action (C)	7/23/91	7/24/91	
_____ Long Term Monitoring (L)	___/___/___	___/___/___	

(√) All Appropriate	Known Impacts (√)	Potential Impacts (√)
_____ Fire/Explosion Threat (1)		
_____ Contaminated Private Well (2)		
_____ Contaminated Public Well (3)		
_____ Groundwater Contamination (4)		
X Soil Contamination (5)		
_____ Other: (6) _____		

Substances (√)
_____ Leaded Gas(1)
_____ Unleaded Gas (2)
_____ Diesel (3)
_____ Fuel Oil (4)
_____ Unknown Hydrocarbons (5)
X Other (8) Waste oil
_____ VOCS (6)
_____ Pesticide (7)
Quantity Discharged _____

Responsible party
Name: Jerry Bigelow
Address: Same

Telephone: _____/241-8147
(list additional on separate list and attach.)

Consultant: Environmental Associates
Contact: Brian Bartling
Address: P.O. Box 136
Mequon, Wi 53092
Telephone: _____/242-1088

Amount Committed: $_____ . _____

Amount Spent: $_____ . _____
(list additional on separate list and attach.)

ENFORCEMENT ACTION TAKEN

01 = Inf. Contact, Resp Initiated
02 = RP Letter, Resp Initiated
03 = NTC of Non Compliance
04 = Inf. Enf. Conf, Resp Initiated
05 = Follow-up Enf. Conf, Resp Initiated
06 = Inspection Letter
07 = Response Received
08 = Adequate Response
09 = Progress Being Made
10 = Defer Enforcement
11 = Close Out
12 = Recommend NFA
13 = FWD to Secondary Enf
14 = Notice of Violation
15 = Formal Enf Conf
16 = Enf Conf. Letter
17 = Admin. Order Proposed
18 = Admin. Order Final
19 = Admin. Order Modified
20 = Admin. Order Cancelled
21 = Contest Case Hearing
22 = Draft Referral
23 = Referral to DOJ
24 = Referral to DA
25 = Referral to EPA
26 = Continuing Violation
27 = See Next Violation
28 = Site Inspection
99 = Other Action: _____

ACTION (code from above)	DATE (mm/dd/yy)	COMMENT
C	7/23/91	
_____	___/___/___	

(list additional on separate list and attach.)

LUST CASE PRIORITY SCREENING WORKSHEET

HIGH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil waters and air of the State of Wisconsin.)

____ Contaminated private or public well >NR140 enf. std.
____ Explosive or toxic vapors in structures
____ Threat of fire

HIGH OR MEDIUM FACTORS: (write in choice of high or medium)
____ Floating product (medium if no receptors within 1 mile)
____ Known gw contamination (private or public well <140 enf. std.)
____ Impacted surface water - -wetland, trout stream, etc. impacted
____ Saturated soil contamination

MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

____ Moderate (e.g. 100 - 500 ppm TPH) soil contamination with moderate potential for impacting groundwater.
____ Impacted surface water - - no critical habitat threats.

LOW FACTORS: DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

____ Soil contamination (e.g. less than 100 ppm TPH) which appears to have a limited potential for impacting groundwater.
____ Initial remedial action has substantially reduced environmental threat.

UNKNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

____ Inadequate information to assign a high, medium, or low ranking.

OVERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District LUST coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side _____ HIGH _____ MEDIUM _____ LOW _____ UNKNOWN

Overall Site Comment: _____

NUMERICAL LUST SCORING WORKSHEET (Complete for LUST cases ranked HIGH)

1. GROUNDWATER & SOILS: (circle one)

POINTS	
20	Municipal Well
18	>5 private wells
16	4 - 6 private wells
14	2 - 3 private wells
12	1 private well

_____ SCORE

POINTS	
8	Soil & gw within 1200' of a public well
6	Soil & gw within 1200' of one or more private wells
4	GW contamination, no wells within 1200'
2	Soil contamination

*For purposes of this scoring, private well includes any non-municipal water supply system.

2. EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
	8	Explosive levels in a sewer or structure
12	6	Toxic levels in a residence or building

NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

_____ SCORE

3. HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10	Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
8	Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .
6	Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
4	Impermeable stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2	Impermeable stratigraphy and groundwater greater than 25 feet below ground surface.

_____ SCORE

4. TYPE OF PRODUCT: (circle one)

POINTS	
8	Gasoline, mixture of gasoline and other products, other light petroleum products.
6	Diesel, fuel oil.
2	Bunker oil, other heavy oils or crude fractions.

_____ SCORE

List Additional Responsible Party Names Here:

Responsible Party Name: ______________________
Address: ______________________
____
Phone: ____ / ______________

Responsible Party Name: ______________________
Address: ______________________
____
Phone: ____ / ______________

Responsible Party Name: ______________________
Address: ______________________
____
Phone: ____ / ______________

Responsible Party Name: ______________________
Address: ______________________
____
Phone: ____ / ______________

List Additional Consultants Here:

Consultant: ______________________
Contact: ______________________
Address: ______________________
____
Phone: ____ / ______________
Amount Committed: $_______.____ Amount Spent: $_______.____

Consultant: ______________________
Contact: ______________________
Address: ______________________
____
Phone: ____ / ______________
Amount Committed: $_______.____ Amount Spent: $_______.____

List Additional Enforcement Actions Here:

Action Code	Date (mo/day/yr)	Comment
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
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____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________
____	____ / ____ / ____	______________________

Environmental Associates
of Milwaukee, Inc.

FAX COVER SHEET

FAX TO: John Feeney

FAX FROM: Jim Bannantine (Environmental Associates)

FAX NUMBER: 961-2770

NO. OF PAGES INCLUDING COVER: 10

Message:

Please find enclosed landfill disposal tickets, legible copies of chains of custody and the completed Application to Treat or Dispose for the Bigelow project at 10,000 N. Port Washington Road, Mequon.

Please call with any questions

Jim

RETURN FAX #: 242-6554

* If you do not receive the entire fax please call (414)242-1088 at your earliest convenience

2334
89tons

P.O. Box 136 Mequon, WI 53092 (414) 242-1088

(DRIVER: PLEASE SIGN BELOW)

734586

[redacted]

(PLEASE SIGN HERE)

[redacted]

[redacted]

[redacted]

EXCAVATING
S MAIN STREET
ENSVILLE, WI 53092-0000

[redacted]

1	CONTAMINATED SOIL	19.56	508.56
		---TOTAL---	508.56
	GROSS WT LBS .00		
	TARE WT LBS .00		
	NET WT LBS .00		

ORIGINAL

(DRIVER: PLEASE SIGN BELOW)

734506

[redacted]

(PLEASE SIGN HERE)

Don Kemp

[redacted]

CUSTOMER:

T.J. EXCAVATING
193 S MAIN STREET
THIENSVILLE, WI 53092-0000

[redacted]

658	CONTAMINATED SOIL	18.92	491.92
		---TOTAL---	$ 491.92
	GRSS WT LBS .00		
	TARE WT LBS .00		
	NET WT LBS .00		

ORIGINAL

ORIGINAL

658	CONTAMINATED SOIL		16.23
		GRSS WT LBS	.00
		TARE WT LBS	.00
		NET WT LBS	.00
		--TOTAL--	

T.J. EXCAVATING
193 S MAIN STREET
THIENSVILLE, WI 53092-0000

CUSTOMER:

(PLEASE SIGN HERE)

(DRIVER: PLEASE SIGN BELOW)

73443

(DRIVER: PLEASE SIGN BELOW)

734521

[redacted]

(PLEASE SIGN HERE)

SPECIAL WAST[redacted]

DISPO[redacted]

TICKET

CUSTOMER:

T.J. EXCAVATING
193 S MAIN STREET
THIENSVILLE, WI 53092-0000

[redacted]

658	CONTAMINATED SOIL	17.62	458.12
		--TOTAL---	458.12
	GRSS WT LBS .00		
	TARE WT LBS .00		
	NET WT LBS .00		

ORIGINAL

(DRIVER - PLEASE SIGN BELOW)

734541

[redacted]

(PLEASE SIGN HERE)

Dan Kemp

[redacted]

[redacted]

[redacted]

[redacted]

EXCAVATING
[redacted] WIN STREET
THIENSVILLE, WI 53092-0000

[redacted]

656	CONTAMINATED SOIL		17.56	456.56
			---TOTAL---	456.56
	GRSS WT LBS	.00		
	TARE WT LBS	.00		
	NET WT LBS	.00		

ORIGINAL

№ 1331

CLIENT INFORMATION

Name: Jim Bannantine
Company: Environmental Associates
Address: P.O. Box 136
Mequon WI 53092
Phone: 242-7088
P.O.# / Project#:
Quote/Reference#: 10,000 N. Port Washington
Note: Terms and conditions printed on back apply.

Sample Type (Check all that apply)
- ☐ Groundwater
- ☐ Wastewater
- ☐ Soil
- ☐ Solid Waste
- ☐ Oil
- ☐ Other

Sample Handling
- ☐ Nonhazardous
- ☐ Flammable
- ☐ Skin Irritant
- ☐ Highly Toxic
- ☐ Other (specify)
- ☐ Refrigerate
- ☐ Work in Hood
- ☐ Wear Gloves

Precision Analytical Laboratory, Inc.
205 W. Galena
Milwaukee, WI 53212

Phone: (414) 272-5222
Fax: (414) 272-6949

Turnaround Time
- ☒ Normal
- ☐ Rush

Date Needed
(Preapproval by Lab)

ANALYTICAL REQUESTS
(use seperate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	TRIP	SWAB PREMICATION	REMARKS
110794-01				1	S001	X		
-02				1	S002	X		
-03				1	S003	X		
-04				1	S004	X		
-05				1	S005	X		
-06				1	S006	X		
-07				1	S007	X		
-08				1	SNorth	X		
-09				1	SSouth	X		
-10				1	S100 Floor	X		

Duty Hand Comm.
Ship. Cont. OK? Y N N/A
Need Refrig.? Y N N/A
Seals OK? Y N N/A
Samples leaking? Y N N/A
Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)	DATE/TIME
J. Bannantine	7/24 9:00

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
J. Bannantine	7/24 10:30	Pat Hess
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) / DATE/TIME

№ 1333

![PAL]

Turnaround Time

- [x] Normal
- [ ] Rush

Date Needed

(Preapproval by Lab)

CLIENT INFORMATION

Name: Jim Bannantine

Company: Environmental Associates

Address: P.O. Box 136

Mequon, WI 53092

Phone: 242-1088

P.O.# / Project#:

Quote/Reference#: 10,000 N. Port Washington

Note: Terms and conditions printed on back apply.

Sample Type

(Check all that apply)

- [ ] Groundwater
- [ ] Wastewater
- [x] Soil
- [ ] Solid Waste
- [ ] Oil
- [ ] Other

Sample Handling

- [ ] Nonhazardous
- [ ] Flammable
- [ ] Skin Irritant
- [ ] Highly Toxic
- [ ] Other *(specify)*
- [ ] Refrigerate
- [ ] Work in Hood
- [ ] Wear Gloves

Precision Analytical Laboratory, Inc.
205 W. Galena
Milwaukee, WI 53212

Phone: (414) 272-5222
Fax: (414) 272-6949

ANALYTICAL REQUESTS
(use seperate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	GRAB	SAMPLE ID	TRPH	Free Liquids	VOC	Pb Cd	CN TS	Flashpoint + pH	SWAR PREMICATION	REMARKS
9107147-11				1	S101 N. Wall	X							
-12				1	S102 West Wall	X							
-13				1	S103 East wall	X							
-14				1	S104 BG	X							
-15				1	S105 Floor	X							
-16			3	0	WP	X	X	X	X	X	X		

Del'v: Hand Comm.
Ship. Cont. OK? Y N N/A
Rec'd Refrig.? Y N N/A
Seals OK? Y N N/A
Samples leaking? Y N N/A
Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*	DATE/TIME
J Bannantine	7/24 9:00

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
J Bannantine	7/24 10:30	[signature]			

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*	RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)*	DATE/TIME

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL

Form 4400-120

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144, Wis. Stats. and may result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete part I. 2) Select the treatment option in part II. Pretreatment approval is required for any treatment other than landfill burial. Submit this form to the DNR project manager for approval. 3) If your treatment option is landfill burial, complete part III before submitting the ORIGINAL form to the project manager. 4) If soil will be used as cover at a landfill, first submit this form for approval and then, after part III has been completed, resubmit the ORIGINAL to the project manager.

4.91-227

ALL SITES MUST COMPLETE PART I

Part I. Source of Soil

Site/Facility Name: Bigelow Property

Site I.D. # (for DNR use only):

Site Address: 10,000 North Port Washington Rd.

Contact Name: Jerry Bigelow

City, State, Zip Code: Mequon, WI 53092

1/4, 1/4, Section, Township, and Range: SW ¼ NW ¼ S32 T9N R22E

The information on this form is accurate to the best of my knowledge.
NOTE: Soil generators responsible for waste disposed of in landfills may incur future liability.

Signature of Soil Generator: Jerry Bigelow

Telephone Number (include area code): 414-241-8090

Consulting Firm: Environmental Associates

Contact: D'Arcy Gravelle

Telephone Number: 414-242-1088

Estimated Volume Contaminated Soil

89.89 Tons/cubic yards (circle one)

Soil Type (USCS)

- ___ sand (SP, SW)
- ___ silty/clayey sands (SM, SC)
- ___ silt (ML, MH, OL)
- X clay (CI, CH, OH)
- ___ gravel (GC, GM, GP, GW)
- ___ peat (PT)

Type of Petroleum Contamination (Circle):

Gasoline Diesel Fuel/#2 Fuel Oil

Other: Waste Oil

Distance to Nearest Residence/Business: 200 Ft.

Contaminant concentration:

One screened sample for each 15 yds³ and one laboratory analysis for each 300 yds³ of contaminated soil when the field instrument *registers contamination* OR one laboratory analysis for each 100 yds³ when the field instrument *does not register contamination* on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE LISTING RESULTS OF BOTH FIELD SCREENING AND LAB ANALYSES, AND INCLUDE SUPPORTING LAB REPORTS, IN ADDITION TO THE TPH AND BENZENE INFORMATION REQUESTED BELOW. NOTE: DILHR requires a minimum of 5 laboratory samples on excavated soil for PECFA claims.

Total Benzene in soil to be remediated (attach calculations) _____ lbs

Total Petroleum Hydrocarbons(TPH) in soil to be remediated (attach calculations) _____ lbs

Total TPH as _____

ATTACH EMISSIONS CALCULATIONS

(a/1,000,000) x (2,500 lbs/yd³) x b = benzene emission in lbs., where a = benzene concentration of soil sample in ppm or mg/kg dry weight basis, and b = amount of contaminated soil in yds³. NOTE: This calculation can also be used to estimate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "a". It may also be used to calculate VOCs.

COMPLETE ONLY THOSE SECTIONS OF PART II THAT PERTAIN TO YOUR SITE

Part II: Proposed method of treatment

1. SOIL VENTING/VACUUM EXTRACTION

Note: This option may require an air pollution control permit. An activated carbon unit or similar treatment system to strip VOCs from the blower discharge will be required if emissions exceed limits established by Air Management. System design and monitoring information must be included.

Contact responsible for system maintenance

Telephone Number (include area code) Anticipated start date

Total VOC discharge rate from Pilot testing or calculations _____ lbs/hr at _____ scfm

Benzene Discharge Rate from Pilot testing or calculations _____ lbs/hr at _____ scfm _____ Estimated Project Total

2. ANY METHOD OF REMEDIATION NOT LISTED IN PART II (NOTE: For thermal treatment, use Form 4400-149.)

Attach narrative and drawing(s) to describe the remediation method to be used. A final report is required. At a minimum, the information submitted should include the following applicable items:

a. proposed treatment method
b. location/size of remediation site
c. distance to nearest residence/business
d. field sampling methods
e. protective covering and curbing techniques
f. volume estimate and soil thickness needing remediation
g. method of turning/mixing soil
h. highest estimated hourly/daily VOC emissions
i. highest estimated daily/total benzene emissions
k. anticipated startup and completion dates
l. proposed verification method of contaminant content
m. project contact person
n. final destination of soil

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management _____ Date _____

Project Manager _____ Date _____

Comments:

3. DISPOSAL OF CONTAMINATED SOILS AT A SANITARY LANDFILL-NR 500
NOTE: Contaminant concentrations must meet Solid Waste guidelines and analytical results must be submitted within 30 days of disposal.

PLEASE COMPLETE PART III BELOW AFTER LANDFILL BURIAL IS COMPLETED.

THIS SECTION IS TO BE COMPLETED BY THE DISPOSAL FACILITY ACCEPTING THE CONTAMINATED SOIL

Part III

Transporter Name T.J Environmental Transporter License Number 12017

Name of landfill Parkview License No. 3108

Actual Volume of soil landfilled 118.87 Indicate yds³ or (tons) ___ cover soil ✓ buried

Date received at landfill 9/6/92 - 9/7/92 Accumulated Benzene emissions to date 0

Signature of landfill facility representative Roxanne F. Palmquist