

**DEPARTMENT OF NATURAL RESOURCES
BRRTS TRACKING FORM 6/97**

UID: <u>02-13-168428</u>	FID:	PMN:
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Programs: LUST **(ERP)** Abandoned Containers ACT 453 Superfund

County <u>Dane</u> #2	Notification Date <u>8-4-97</u>
Site Name <u>Hooper Pipe Fabrication</u>	RP letter Date <u>8-21-97</u>
Address <u>2080 Pennsylvania Ave</u>	Closure Date <u>11-5-97</u>
Municipality <u>Madison</u>	Reported by: Phone: _____
Legal Desc: ___ 1/4 ___ 1/4 s ___ t ___ N r ___ EW	
Lat: ___ ° ___ ' ___ " Long. ___ ° ___ ' ___ "	

Priority	Score	Funding
<input type="checkbox"/> HIGH	1. _____	<input type="checkbox"/> RP
<input type="checkbox"/> MED	2. _____	<input type="checkbox"/> LTF
<input type="checkbox"/> LOW	3. _____	<input type="checkbox"/> EF
<input type="checkbox"/> UNK	4. _____	<input type="checkbox"/> OTHER _____
	5. _____	
	Score _____	

RESPONSIBLE PARTY

Name Thomas Bugel

Company Hooper Corporation

Address PO Box 7455
Madison WI 53707-7455

Phone: 608-249-0451

cc: _____

Impacts

Cont. Private Well

Cont. Public Well

Groundwater Contamin.

Soil Contamination

Surface Water Impacts

Direct Contact

Substances

Gasoline

Diesel

Fuel Oil

Waste Oil

VOCs

Unknown

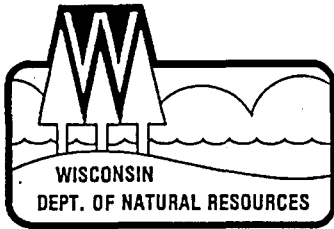
Ag Chem

Leachate

Metals

RCRA HW

ChlorSolvents



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
and Madison Fish Hatchery Office
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711
TELEPHONE 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

November 5, 1997

FILE REF: Dane County
02-13-168428

Mr. T.C. Bugel
Hooper Corporation
2030 Pennsylvania Avenue
Madison, WI 53707

SUBJECT: Closure Request for Hooper Pipe Fabrication Site 2

Dear Mr. Bugel:

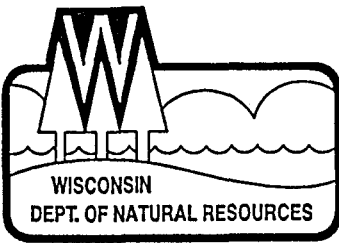
This site has been reviewed by the Southern District Closure Committee. Based on the data provided, it appears that your site has been remediated to Department standards. No further investigation, remediation or any other action is required at this time.

Please be aware that this letter does not absolve the current or any future owner of this property from future liability regarding impacts from this site which may be discovered and/or traced back to past or future activities. If in the future the Department receives information which demonstrates the additional work is necessary, the Department has the authority to require further action.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this letter please contact me directly.

Sincerely,

Michael Schmoller
Hydrogeologist
608-275-3303



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Madison, Wisconsin 53711-5397
TELEPHONE 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

September 15, 1997

File Ref:02-13-168428

Mr Thomas Bugel
Hooper Corporation
PO Box 7455
Madison WI 53707-7455

SUBJECT: Closure request, Hooper Pipe Fabrication Site #2, 2080
Pennsylvania Avenue, Madison

Dear Mr. Bugel:

On September 4, 1997, the Department received a request for site "closure" for the above named site.

Section NR 726.07, Wisconsin Administrative Code, requires the Department to respond within 30 days after receipt of a request for case closure providing an estimated date by which the department intends to issue a determination on case closure.

This letter serves as written acknowledgment of your request for closure. Based on current Department workloads, your closure request will likely be reviewed within 3 to 4 months. NOTE: This is only an estimate, changes in workload may cause unforeseen delays in the review process. The Department will make every effort to review requests in a timely manner.

If you have any questions, please call me at the number listed below.

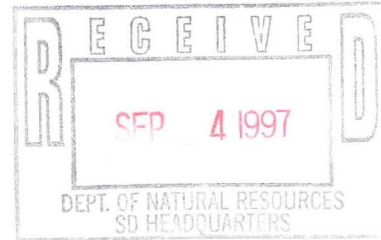
Sincerely,

Patrick McCutcheon, Team Supervisor
Remediation & Redevelopment
Telephone: (608) 275-3241

cc: Liesch Environmental, 6000 Gisholt Drive, Madison WI 53713

02-13-168428
HOOPER PIPE FABRICATION
SITE #2

**Remedial Action Report and
Request for Site Closure
for the
Petroleum Spill
Located at
Hooper Corporation
2080 Pennsylvania Avenue
Madison, Wisconsin**



PREPARED FOR:

**Hooper Corporation
2030 Pennsylvania Avenue
Madison, Wisconsin 53707**

August 25, 1997

JN: 63027.00

PREPARED BY:



LIESCH ENVIRONMENTAL SERVICES, INC. • 6000 GISHOLT DRIVE, SUITE 203 • MADISON, WI 53713

MINNEAPOLIS, MN • PHOENIX, AZ • MADISON, WI

Remedial Action Report and Request for Site Closure

for the

Petroleum Spill

Located at

Hooper Corporation

2080 Pennsylvania Avenue

Madison, Wisconsin

Prepared for:

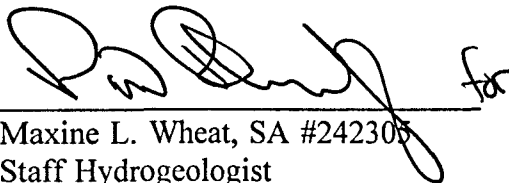
Hooper Corporation
2030 Pennsylvania Avenue
Madison, Wisconsin 53707

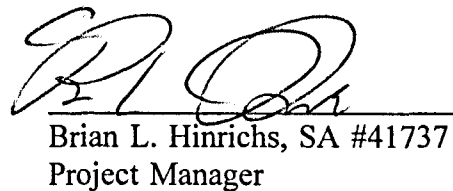
Prepared by:

Liesch Environmental Services, Inc.
6000 Gisholt Drive, Suite 203
Madison, Wisconsin 53713
(608) 223-1532


Project #: 63027.00

August 25, 1997



Maxine L. Wheat, SA #242305
Staff Hydrogeologist


Brian L. Hinrichs, SA #41737
Project Manager

I, Steven J. Sletten, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



Steven J. Sletten, P.G. #238



Date

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1.0 INTRODUCTION

1.1 Purpose and Background

On May 7, 1997, workers preparing to pave parking lots noted petroleum odors in surface soils being removed near the north side of the Hooper Corporation (Hooper) building at 2080 Pennsylvania Avenue. Liesch Environmental Services, Inc. (Liesch) was retained by Hooper to observe the excavation and removal of petroleum impacted soils located at this site.

1.2 Facility and Project Information

Site Address:	2080 Pennsylvania Avenue Madison, Wisconsin 53707
Site Contact:	Mr. T.C. Bugel Hooper Corporation 2030 Pennsylvania Avenue Box 7455 Madison, Wisconsin 53707
Consultant:	Liesch Environmental Services, Inc. 6000 Gisholt Drive, Suite 203 Madison, Wisconsin 53713
Project Manager:	Brian Novotny
WDNR File Ref #:	02-13-168428

1.3 Site Location/Description

The 2080 Pennsylvania Avenue site is located in Dane County, Wisconsin, in the southeast corner of the northwestern portion of Section 6, Township 7 North and Range 10 East, Madison (**Figure 1**). The property is in a commercial area and is supplied by municipal utilities, including water and sewer. **Figure 2** illustrates existing conditions at the site.

1.4 Hydrogeologic Setting/Soils

The majority of the site is overlain by asphalt, concrete and/or building foundations. The area is flat (relief less than 10 feet). Soils in the area are fill material consisting of gravel, sand, and clay. Groundwater at the site is approximately 12 feet below ground surface (bgs).

1.5 Scope of Work

The following is a summary of activities performed at the 2080 Pennsylvania Avenue:

- Workers noted petroleum odors in soil being removed near building (May 7, 1997).
- Soil excavation and stockpiling activities were completed (May 7, 1997).
- Field observations and PID readings indicate clean, sidewalls excavation
- PID and laboratory results confirm contamination of stockpiled soil (June 2, 1997).
- Disposal of stockpiled soil was completed (June 3, 1997).
- Preparation and submittal of this report detailing the remedial action (July 1997).

2.0 REMEDIAL ACTION

2.1 Soil Excavation

On May 7, 1997, Liesch was on-site to supervise excavation activities. Approximately 50 cubic yards of petroleum contaminated soils were excavated and stockpiled on site and covered with plastic. An area approximately 20 feet wide and 30 feet long was excavated to a depth of 2 feet bgs and then backfilled with clean gravel and sand. **Figure 2** illustrates the final excavation.

Liesch collected a total of six soil samples from the final excavation. Two samples were collected from the floor (F1 and F2) and four from the side walls (S1, S2, S3, and S4). S1 was collected from the west wall at 1.5 feet bgs, S2 and S3 were collected from the north wall at 1.5 feet bgs, and S4 was collected from the east wall at 1.5 feet bgs. The soil was excavated to the building foundation on the south wall, therefore no sidewall sample was collected. In addition, two confirmation samples (stock 1 and stock 2) were collected from the stockpiled contaminated soil. Samples F1, S1, S2, S4, and Stock 2 were submitted to U.S. Analytical Laboratory in Kimberly, Wisconsin for analysis. Samples F2, S3, and Stock 1 were field screened only. **Figure 2** illustrates the sidewall and floor soil sample locations. Soil screening and analytical results are summarized in **Table 1**.

On June 3, 1997, A.W. Oakes & Son removed and hauled the contaminated soils to Deer Track Park landfill disposal site in Watertown, Wisconsin, using WDNR licensed dump trucks.

2.2 Results

2.2.1 Soil Screening Results

Field headspace screening was conducted using a Thermo Environmental Instruments, Inc. Organic Vapor Monitor (OVM) photoionization detector (PID) equipped with a 10.6 eV bulb. Soil screening results ranged from 0.6 vapor parts per million (vppm) to 6.1 vppm for the samples collected from the final excavation floor and walls and from 57 vppm to 597 vppm for the samples collected from the stockpiled soil. OVM logs are included in **Appendix A**. Soil staining and petroleum odors were not noted in the samples collected from the final excavation floor and walls.

2.2.2 Soil Chemistry Results

A total of five samples were submitted to U.S. Analytical Laboratory, Kimberly, Wisconsin for laboratory analysis. The samples were analyzed for diesel range organics (DRO), gasoline range organics (GRO) and petroleum volatile organic compounds (PVOCs).

Laboratory results for the excavation floor (F1) and west wall (S1) were below method detection limits for all analytes. The north wall (S2) and east wall (S4) had DRO detections of 1200 parts per million (ppm) and 1100 ppm, respectively. The WDNR residual contamination levels (RCL) for DRO is 100 ppm in soil. 1,2,4-Trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes were also detected in samples S2 and S4; however, none of these parameters exceeded an RCL.

Soil sample Stock 1 was collected from the contaminated soils removed from the site and contained DRO, ethylbenzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and xylenes. **Table 1** summarizes the soil laboratory analytical reports located in **Appendix B**.

3.0 DISCUSSION/CONCLUSIONS

Overexcavation procedures conducted on May 7, 1997 have effectively removed petroleum impacted soils from the northwest portion of the Hooper Corporation building at 2080 Pennsylvania Avenue. The maximum depth of the excavation was relatively shallow (2 feet) with a total of approximately 50 cubic yards of petroleum contaminated soil removed. Continual OVM screening and physical observation of the excavated soil and sidewalls indicated that the

excavation was clean. However, laboratory analytical results for two of the six samples submitted for analysis indicated that the north and east excavation sidewall samples had DRO concentrations exceeding the WDNR RCL.

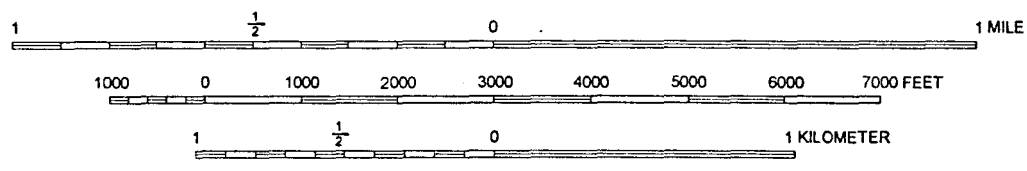
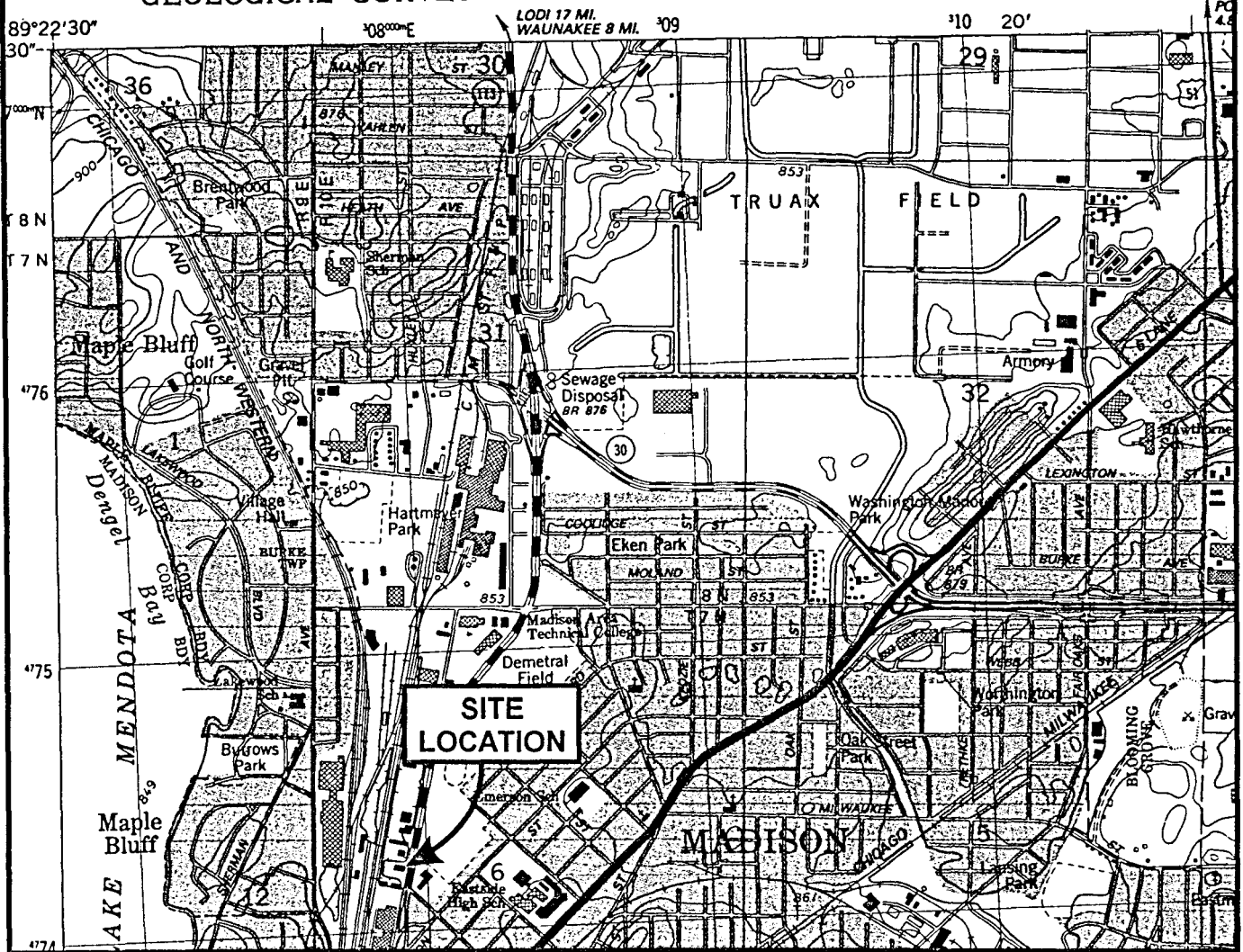
The laboratory data results obtained for DRO are not consistent with excavation conditions noted in the field. The soil in the excavation showed no soil staining or unusual odors. If, in fact, DRO contaminated soil does remain in place at the location of the two soil samples (S2 and S4) it is most likely very localized and of limited extent. In addition, new pavement placed over the parking lot prevents infiltration of precipitation into the subsurface, thereby limiting the potential impact to groundwater. Liesch believes that the processes of natural attenuation are sufficient to remediate any remaining soil contamination that may be present.

4.0 RECOMMENDATIONS

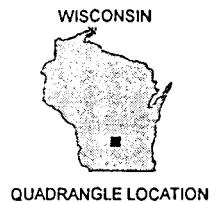
On behalf of the Hooper Corporation, Liesch recommends that the site be closed to further assessment and remediation activities.

f:\data\6302700\rar-clos.wp

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



SCALE 1 : 24 000
CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



FILE/PATH: J:\SHARED\FIGURES\63027\SITE_LOC
DATE: 7/2/97
PREPARED: MLW APPROVED: BJN
SOURCE:
USGS QUADRANGLE - 7.5 MINUTE SERIES,
MADISON EAST, 1983.

LIESCH
LIESCH ENVIRONMENTAL SERVICES, INC.
6000 GISHOLT DRIVE, SUITE 203
MADISON, WI 53713

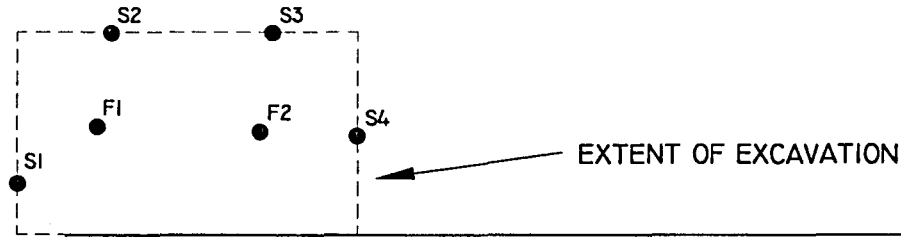
SITE LOCATION MAP
HOOPER CORPORATION
2080 PENNSYLVANIA AVENUE
MADISON, WISCONSIN

FIGURE
1

EXPLANATION

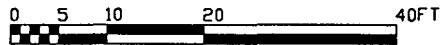
- SI SIDEWALL SAMPLE LOCATION WITH IDENTIFIER.
- FI FLOOR SAMPLE LOCATION WITH IDENTIFIER.

SOIL EXCAVATED AND SAMPLES COLLECTED ON MAY 7, 1997.



2080 PENNSYLVANIA AVENUE

PENNSYLVANIA AVENUE



SCALE IS APPROXIMATE

FILE: J:\SHARED\FIGURES\63027\SITEPL.DWG	
DATE: 7/2/97	DRAWN BY: MLW CHECKED BY: B.JN
SOURCE: FIELD NOTES	



LIESCH ENVIRONMENTAL SERVICES, INC.
6000 GISHOLT DRIVE, SUITE 203
MADISON, WI 53713

SITE MAP
HOOPER CORPORATION
2080 PENNSYLVANIA AVENUE
MADISON, WISCONSIN

FIGURE

2

Table 1
 Hooper - 2080 Spill
 2080 Pennsylvania Avenue, Madison, Wisconsin
 Soil Screening and Soil Laboratory Analytical Results
 May 7, 1997

ANALYTE	F1 2'	S1 1.5'	S2 1.5'	S4 1.5'	Stock 2	RCL
PHOTOIONIZATION METER (PID) Vapor Parts Per Million (VPPM)						
Organic Vapor Meter (OVM) Screening	1.0	0	0	0	480	-
PETROLEUM Parts Per Million (PPM)						
Diesel Range Organics (DRO)	BDL	BDL	1200	1100	3500	100
Gasoline Range Organics (GRO)	BDL	BDL	BDL	BDL	BDL	100
VOLATILES Parts Per Billion (PPB)						
Benzene	BDL	BDL	BDL	BDL	BDL	5.5
Ethylbenzene	BDL	BDL	BDL	BDL	57	2900
Methyl Tertiary Butyl Ether (MTBE)	BDL	BDL	BDL	BDL	BDL	-
Toluene	BDL	BDL	BDL	BDL	46	1500
1,2,4-Trimethylbenzene	BDL	BDL	72	35	290	-
1,3,5-Trimethylbenzene	BDL	BDL	37	BDL	210	-
Total Xylenes	BDL	BDL	62	BDL	220	4100

f:\data\6302700\0597soil.wp

Note: Only analytes detected in concentrations above method detection limits are listed on this table. Page 1
 Dates indicate when samples were collected.
 BDL = Below Method Detection Limits
 RCL = NR 720 residual contaminant levels which represent the concentrations of contaminants that can remain in soil.
 - = No RCL established

Appendix A

OVM Logs

Liesch Environmental Services, Inc.

OVM Log

Project: Hooper 2080 Penn - Spill Date: 5-07-97
 Location: 2080 Pennsylvania Avenue, Madison, WI JN#: 63027.00
 Instrument ID Number: OVM #3 Bulb ID Number: 605
 Calibration Date: 05-07-97 Lamp: 10.6 eV Span: 254
 Background Reading (pre) 0.0 units (post) 0.1 units
 Background Reading Location: car Gas & Conc: Isobutylene
 Note Possible Interferences: exhaust, other soil samples
 Weather Conditions: 50's rainy
 Type of Headspace Container Used: Resealable plastic bag

Location: Sidewall

Page: 1 of 1

Sample ID	Depth Below Surface (feet)	Stable Units	High Peak Units	Notes
S1	1.5'	0	0	Sidewall West * NPO
S2	1.5'	4.3	6.1	Sidewall North * NPO
S3	1.5'	0	0	Sidewall North Slight PO
S4	1.5'	0	0	Sidewall East * NPO

COMMENTS: NPO = No Petroleum Odor PO = Petroleum Odor * = Lab Sample

Form Completed By: Maxine L Wheat

Reviewed By: BJN

Liesch Environmental Services, Inc.

OVM Log

Project: Hooper 2080 Penn - Spill Date: 5-07-97
 Location: 2080 Pennsylvania Avenue, Madison, WI JN#: 63027.00
 Instrument ID Number: OVM #3 Bulb ID Number: 605
 Calibration Date: 05-07-97 Lamp: 10.6 eV Span: 254
 Background Reading (pre) 0.0 units (post) 0.1 units
 Background Reading Location: car Gas & Conc: Isobutylene
 Note Possible Interferences: exhaust, other soil samples
 Weather Conditions: 50's rainy
 Type of Headspace Container Used: Resealable plastic bag

Location: Floor

Page: 1 of 1

Sample ID	Depth Below Surface (feet)	Stable Units	High Peak Units	Notes
F1	2'	1.0	1.40	Floor North NPO *
F2	2'	0.1	1.0	Floor South NPO

COMMENTS: NPO = No Petroleum Odor * = Lab Sample

Form Completed By: Maxine L Wheat

Reviewed By: BTW

Liesch Environmental Services, Inc.

OVM Log

Project: Hooper 2080 Penn - Spill Date: 5-07-97
 Location: 2080 Pennsylvania Avenue, Madison, WI JN#: 63027.00
 Instrument ID Number: OVM #3 Bulb ID Number: 605
 Calibration Date: 05-07-97 Lamp: 10.6 eV Span: 254
 Background Reading (pre) 0.0 units (post) 0.1 units
 Background Reading Location: car Gas & Conc: Isobutylene
 Note Possible Interferences: exhaust, other soil samples
 Weather Conditions: 50's rainy
 Type of Headspace Container Used: Resealable plastic bag

Location: Stockpile Page: 1 of 1

Sample ID	Depth Below Surface (feet)	Stable Units	High Peak Units	Notes
Stockpile 1	--	57	106	Stockpile PO
Stockpile 2	--	480	597	Stockpile Strong PO *

COMMENTS: PO = Petroleum Odor * = Lab Sample

Form Completed By: Maxine L Wheat Reviewed By: BJN

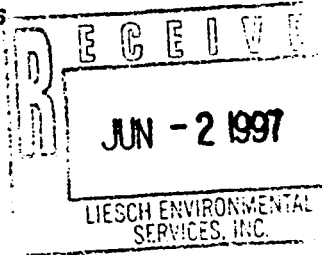
Appendix B

Soil Laboratory Analytical Results

Analytical Laboratory

 1090 Kennedy Ave. Kimberly, WI 54136
 414-735-8295

WI DNR Certified Lab #445027660

 BRIAN HINRICHS
 LIESCH ENVIRONMENTAL
 6000 GISHOLT DRIVE STE 203
 MADISON WI 53713

 Project #: 65332.01
 Project : Hooper 2080-Spill
 Sample ID: F1-2'
 Lab Code: 5016848A
 Sample Type: Soil
 Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Cig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	90.7			%		12-May-97	B. Rettler	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	12-May-97	24-May-97	D. Menominee	1
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		16-May-97	T. Williams	1
PVOC						16-May-97	T. Williams	
SW846 8020 (Meth Pres.)								
Benzene	< 25	2.1	7	UG/KG				1
Ethylbenzene	< 25	3.3	11	UG/KG				1
MTBE	< 25	1.9	6.3	UG/KG				1
Toluene	< 25	2.5	8.4	UG/KG				1
1,2,4-Trimethylbenzene	< 25	2.9	9.5	UG/KG				1
1,3,5-Trimethylbenzene	< 25	2.7	9.1	UG/KG				1
Xylenes	< 50	5.6	19	UG/KG				1
Fluorobenzene Surrogate	103			% Rec.				

 LOD = Limit of Detection
 PVOC analysis detected unidentified peaks.

LOQ = Limit of Quantitation

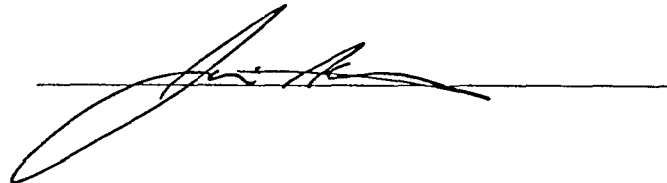
QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature





Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136
414-735-8295

WI DNR Certified Lab #445027660

BRIAN HINRICHS
LIESCH ENVIRONMENTAL
6000 GISHOLT DRIVE STE 203
MADISON WI 53713

Project #: 65332.01
Project: Hooper 2080-Spill
Sample ID: S1-1.5'
Lab Code: 5016848B
Sample Type: Soil
Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ex/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	91.0			%		12-May-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95	< 10	1.7	5.5	MG/KG	12-May-97	24-May-97	D. Menominee	1
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		16-May-97	T. Williams	1
PVOC SW846 8020 (Meth Pres.)						16-May-97	T. Williams	
Benzene	< 25	2.1	7	UG/KG				1
Ethylbenzene	< 25	3.3	11	UG/KG				1
MTBE	< 25	1.9	6.3	UG/KG				1
Toluene	< 25	2.5	8.4	UG/KG				1
1,2,4-Trimethylbenzene	< 25	2.9	9.5	UG/KG				1
1,3,5-Trimethylbenzene	< 25	2.7	9.1	UG/KG				1
Xylenes	< 50	5.6	19	UG/KG				1
Fluorobenzene Surrogate	102			% Rec.				

LOD = Limit of Detection
PVOC analysis detected unidentified peaks.

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature

Analytical Laboratory

 1090 Kennedy Ave. Kimberly, WI 54136
 414-735-8295

WI DNR Certified Lab #445027660

 BRIAN HINRICHS
 LIESCH ENVIRONMENTAL
 6000 GISHOLT DRIVE STE 203
 MADISON WI 53713

 Project #: 65332.01
 Project : Hooper 2080-Spill
 Sample ID: S2-1.5'
 Lab Code: 5016848C
 Sample Type: Soil
 Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	90.4			%		12-May-97	B. Rettler	1
MODIFIED DRO WDNR SEP 95	1200	34	110	MG/KG	12-May-97	24-May-97	D. Menominee	1,2
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		17-May-97	T. Williams	1
PVOC SW846 8020 (Meth Pres.)						17-May-97	T. Williams	
Benzene	< 25	2.1	7	UG/KG				1
Ethylbenzene	< 25	3.3	11	UG/KG				1
MTBE	< 25	1.9	6.3	UG/KG				1
Toluene	< 25	2.5	8.4	UG/KG				1
1,2,4-Trimethylbenzene	72	2.9	9.5	UG/KG				1
1,3,5-Trimethylbenzene	37	2.7	9.1	UG/KG				1
Xylenes	62	5.6	19	UG/KG				1
Fluorobenzene Surrogate	104			% Rec.				

 LOD = Limit of Detection
 PVOC analysis detected unidentified peaks.

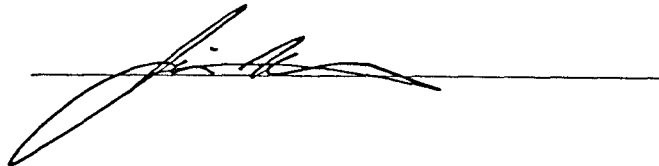
LOQ = Limit of Quantitation

QC SUMMARY

CODE:

- 1 All laboratory QC requirements were met for this sample.
- 2 DRO chromatogram indicates possible lube oil contamination.

Authorized Signature



Analytical Laboratory

 1090 Kennedy Ave. Kimberly, WI 54136
 414-735-8295

WI DNR Certified Lab #445027660

 BRIAN HINRICHS
 LIESCH ENVIRONMENTAL
 6000 GISHOLT DRIVE STE 203
 MADISON WI 53713

 Project #: 65332.01
 Project : Hooper 2080-Spill
 Sample ID: S4-1.5'
 Lab Code: 5016848D
 Sample Type: Soil
 Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	91.5			%		12-May-97	B.Rettler	1
MODIFIED DRO WDNR SEP 95	1100	34	110	MG/KG	12-May-97	24-May-97	D. Menominee	1,2
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		16-May-97	T. Williams	1
PVOC SW846 8020 (Meth Pres.)						16-May-97	T. Williams	
Benzene	< 25	2.1	7	UG/KG				1
Ethylbenzene	< 25	3.3	11	UG/KG				1
MTBE	< 25	1.9	6.3	UG/KG				1
Toluene	< 25	2.5	8.4	UG/KG				1
1,2,4-Trimethylbenzene	35	2.9	9.5	UG/KG				1
1,3,5-Trimethylbenzene	< 25	2.7	9.1	UG/KG				1
Xylenes	< 50	5.6	19	UG/KG				1
Fluorobenzene Surrogate	101			% Rec.				

LOD = Limit of Detection

LOQ = Limit of Quantitation

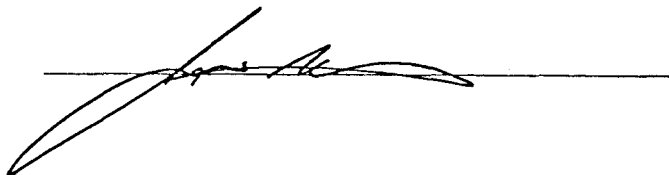
PVOC analysis detected unidentified peaks.

QC SUMMARY

CODE:

- | | |
|---|---|
| 1 | All laboratory QC requirements were met for this sample. |
| 2 | DRO chromatogram indicates possible lube oil contamination. |

Authorized Signature



Analytical Laboratory

 1090 Kennedy Ave. Kimberly, WI 54136
 414-735-8295

WI DNR Certified Lab #445027660

 BRIAN HINRICHS
 LIESCH ENVIRONMENTAL
 6000 GISHOLT DRIVE STE 203
 MADISON WI 53713

 Project #: 65332.01
 Project : Hooper 2080-Spill
 Sample ID: Stack 2
 Lab Code: 5016848E
 Sample Type: Soil
 Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	83.0			%		12-May-97	B. Rettler	1
MODIFIED DRO WDNR SEP 95	3500	34	110	MG/KG	12-May-97	24-May-97	D. Menominee	1,2
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		16-May-97	T. Williams	1
PVOC SW846 8020 (Meth Pres.)						16-May-97	T. Williams	
Benzene	< 25	2.1	7	UG/KG				1
Ethylbenzene	57	3.3	11	UG/KG				1
MTBE	< 25	1.9	6.3	UG/KG				1
Toluene	46	2.5	8.4	UG/KG				1
1,2,4-Trimethylbenzene	290	2.9	9.5	UG/KG				1
1,3,5-Trimethylbenzene	210	2.7	9.1	UG/KG				1
Xylenes	220	5.6	19	UG/KG				1
Fluorobenzene Surrogate	97			% Rec.				

 LOD = Limit of Detection
 PVOC analysis detected unidentified peaks.

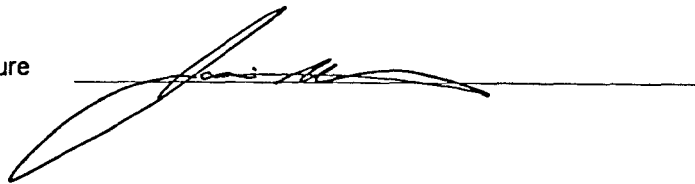
LOQ = Limit of Quantitation

QC SUMMARY

CODE:

- 1 All laboratory QC requirements were met for this sample.
- 2 DRO chromatogram indicates possible lube oil contamination.

Authorized Signature





Analytical Laboratory

1090 Kennedy Ave. Kimberly, WI 54136
414-735-8295

WI DNR Certified Lab #445027660

BRIAN HINRICHS
LIESCH ENVIRONMENTAL
6000 GISHOLT DRIVE STE 203
MADISON WI 53713

Project #: 65332.01
Project : Hooper 2080-Spill
Sample ID: FD
Lab Code: 5016848F
Sample Type: Soil
Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
TOTAL SOLIDS	81.7			%		12-May-97	B. Rettler	1
MODIFIED DRO WDNR SEP 95	2500	34	110	MG/KG	12-May-97	24-May-97	D. Menominee	1,2
MODIFIED GRO WDNR SEP 95	20	0.58	1.8	MG/KG		18-May-97	T. Williams	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

QC SUMMARY

CODE:

- 1 All laboratory QC requirements were met for this sample.
- 2 DRO chromatogram indicates possible lube oil contamination.

Authorized Signature

Analytical Laboratory

 1090 Kennedy Ave. Kimberly, WI 54136
 414-735-8295

WI DNR Certified Lab #445027660

 BRIAN HINRICHS
 LIESCH ENVIRONMENTAL
 6000 GISHOLT DRIVE STE 203
 MADISON WI 53713

 Project #: 65332.01
 Project : Hooper 2080-Spill
 Sample ID: MeOH Blank
 Lab Code: 5016848G
 Sample Type: Soil
 Sample Date: 07-May-97

Report Date: 29-May-97

Test	Result	LOD	LOQ	Unit	Date Ext/Dig/Pres	Date Analyzed:	Analyzed By:	QC Code
MODIFIED GRO WDNR SEP 95	< 10	0.58	1.8	MG/KG		16-May-97	T. Williams	1

LOD = Limit of Detection

LOQ = Limit of Quantitation

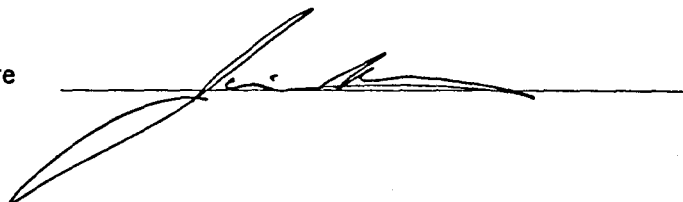
QC SUMMARY

CODE:

1

All laboratory QC requirements were met for this sample.

Authorized Signature



CHAIN OF CUSTODY RECORD

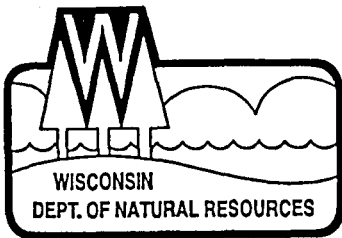
PROJECT NO. 65332.01		PROJECT NAME/CLIENT Hooper 2080 - spill				NO. OF JARS	LAB: <u>US Ana.</u>							REMARKS	PRE-SERVE TIME	PID or FID
SAMPLERS: (Signature) <u>Maxine R Wheat</u>							QUOTE #: <u>annual</u>									
							TURN AROUND TIME: <u>normal</u>									
LAB ID	SAMPLE NO.	COLLECTION DATE	COLLECTION TIME	PRESERVE TYPE	SAMPLE MATRIX		DRO (WDNR)	GRO (WDNR)	PVOC (EPA 8020)	GRO/PVOC	VOC (EPA 8021)	PAH (EPA 8310)	Pb (EPA 7421)			
<u>5016848A</u>	<u>F1-2'</u>	<u>5-7</u>		<u>home meth</u>	<u>soil</u>	<u>3</u>	<u>X</u>		<u>X</u>				<u>2'</u>		<u>0</u>	
<u>B</u>	<u>S1-1.5'</u>					<u>3</u>	<u>X</u>		<u>X</u>				<u>1.5'</u>		<u>0</u>	
<u>C</u>	<u>S2-1.5'</u>					<u>3</u>	<u>X</u>		<u>X</u>				<u>1.5'</u>		<u>0</u>	
<u>D</u>	<u>S4-1.5'</u>					<u>3</u>	<u>X</u>		<u>X</u>				<u>1.5'</u>		<u>0</u>	
<u>E</u>	<u>Stack 2</u>					<u>3</u>	<u>X</u>		<u>X</u>						<u>597</u>	
<u>F</u>	<u>FD</u>			<u>↓</u>	<u>↓</u>	<u>3</u>	<u>X</u>	<u>X</u>								
<u>G</u>	<u>meth blank</u>	<u>✓</u>		<u>meth</u>	<u>-</u>	<u>1</u>	<u>X</u>									
<u>*NO ICE</u> <u>Good Condition</u> <u>SAP 5-9-97</u>																

Will soil sample(s) require confirmation according to NR720? Yes No Is this a PECFA project? Yes No

RELINQUISHED BY: (Signature) <u>Maxine R Wheat</u>	DATE/TIME <u>5-9-97</u>	RECEIVED BY: (Signature) <u>Leo Huss</u>	RELINQUISHED BY: (Signature) <u>Leo Huss</u>	DATE/TIME <u>5-9 3:00</u>	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME <u>1</u>	RECEIVED FOR LABORATORY BY: <u>Sara Dequan</u>	DATE/TIME <u>5-9-97/300</u>	SEND INVOICE TO: <u>Mr. TC Bugel</u>	
METHOD OF SHIPMENT:	DROP OFF	LAB COURIER	OTHER:	NAME: <u>Hooper Corp.</u>	
SEND RESULTS AND C.O.C. TO: <u>Brian Hinrichs</u>			(NAME)	ADDRESS: <u>2030 Penn. Ave.</u>	
				CITY/STATE: <u>Madison WI 53707</u>	
				REMARKS: <u>Please FAX executed C.O.C. upon receipt.</u>	



Liesch Environmental Services, Inc.
6000 Cisholt Drive
Suite 203
Madison, Wisconsin 53713
(608) 223-1532, Fax (608) 223-1534



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Madison, Wisconsin 53711-5397
TELEPHONE 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

August 21, 1997

File Ref: 02-13-168428

Mr Thomas Bugel
Hooper Corporation
PO Box 7455
Madison WI 53707-7455

Subject: Hooper Pipe Fabrication Site #2, 2080 Pennsylvania Avenue,
Madison

Dear Mr. Bugel:

On August 4, 1997, we were contacted regarding the above property. During construction activities, contamination was found. As a result of this discovery, an investigation will be necessary.

The spill law authorizes the Department of Natural Resources to enforce cleanup of contaminated sites, under s. 292.11 of the Wisconsin Statutes. As the owner of the property where a hazardous substance discharge has occurred, you are required to determine the horizontal and vertical extent of contamination and clean-up/properly dispose of the contaminants.

Your legal responsibilities are defined both in statute and in administrative rules. The hazardous substance spill law, s. 292.11 (3) Wisconsin Statutes, states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Code NR 700 through NR 728 establishes requirements for interim actions, public information, site investigation, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code NR 140 establishes groundwater standards.

It is important that an investigation begins at your site as soon as possible. The longer contamination is left in the environment, the farther it can spread and the more difficult and costly it becomes to cleanup. Since this cleanup must comply with Wisconsin laws and rules, professional engineering and hydrogeologic experience is necessary. Therefore, you should hire a professional environmental consultant who can assure you that Department policies and guidelines are being followed.

Your consultant will help you in providing the Department with the following:

- Submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. Please submit this information within 30 days of the date of this letter.
- Submit an investigation workplan explaining what work will be performed to identify the extent of contamination. This workplan should include a time schedule. Also, please provide documentation of any previous work performed related to this release.

*Quality Natural Resources Management
Through Excellent Customer Service*



- Submit the investigation report defining the degree and extent of any soil and/or groundwater contamination.
- Provide a remedial action plan outlining the remedy selected.
- Provide a remedial action report with data supporting your consultant's conclusions and recommendations for future work or site closure.

In addition, you will be required to keep the Department informed on site progress by submitting 60 day updates. You will be notified when to provide the status reports at the time you submit your investigation workplan.

There are times when staffing levels do not allow us to keep current with workload demands. However, to maintain your compliance with the spill law and chs. NR 700 through NR 728, investigation and cleanup actions should not be unnecessarily delayed waiting for DNR responses. In the event that you experience delays, please refer to NR 716.09(3) regarding Department review of sites.

Your correspondence and reports regarding this site should be sent to Marilyn Jahnke, Department of Natural Resources, 3911 Fish Hatchery Road, Fitchburg WI 53711. Unless otherwise requested, please send only one copy of all plans and reports. Correspondence should be identified with the site name and address which is listed in the subject of this letter.

I have enclosed a list of environmental consultants and some important tips on selecting one. If you are eligible for Wisconsin's PECEFA program (see end of letter), you will need to compare at least three consultant's proposals before making your selection. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. Please read this information carefully.

Reimbursement from the Petroleum Environmental Cleanup Fund (PECEFA) is available for the costs of cleaning up the contamination from eligible petroleum storage tanks. The fund is administered by the Department of Commerce. Please contact DCOM at (608) 267-3753 for more information on eligibility and regulations for this program.

If you have any questions about this letter or your responsibilities, please call me at (608) 275-3212.

Sincerely,



Marilyn Jahnke, Program Assistant
Remediation & Redevelopment
Telephone: (608) 275-3212

cc: Liesch Environmental Services, 6000 Gisholt Dr, Madison WI 53713

You Are Currently Receiving a Telecopy from



Liesch Environmental Services, Inc. 6000 Gisholt Drive, Suite 203, Madison, WI 53713
608/223-1532; 608/223-1534 Fax

Date & Time: 8/18

To: Marilyn Gahrke

Company: DNR

Telecopier Phone #: _____

From: Brian H.

Job Name: _____ Job Number: _____

Comment: As you requested from discussions regarding Hooper 2180 Spill site.

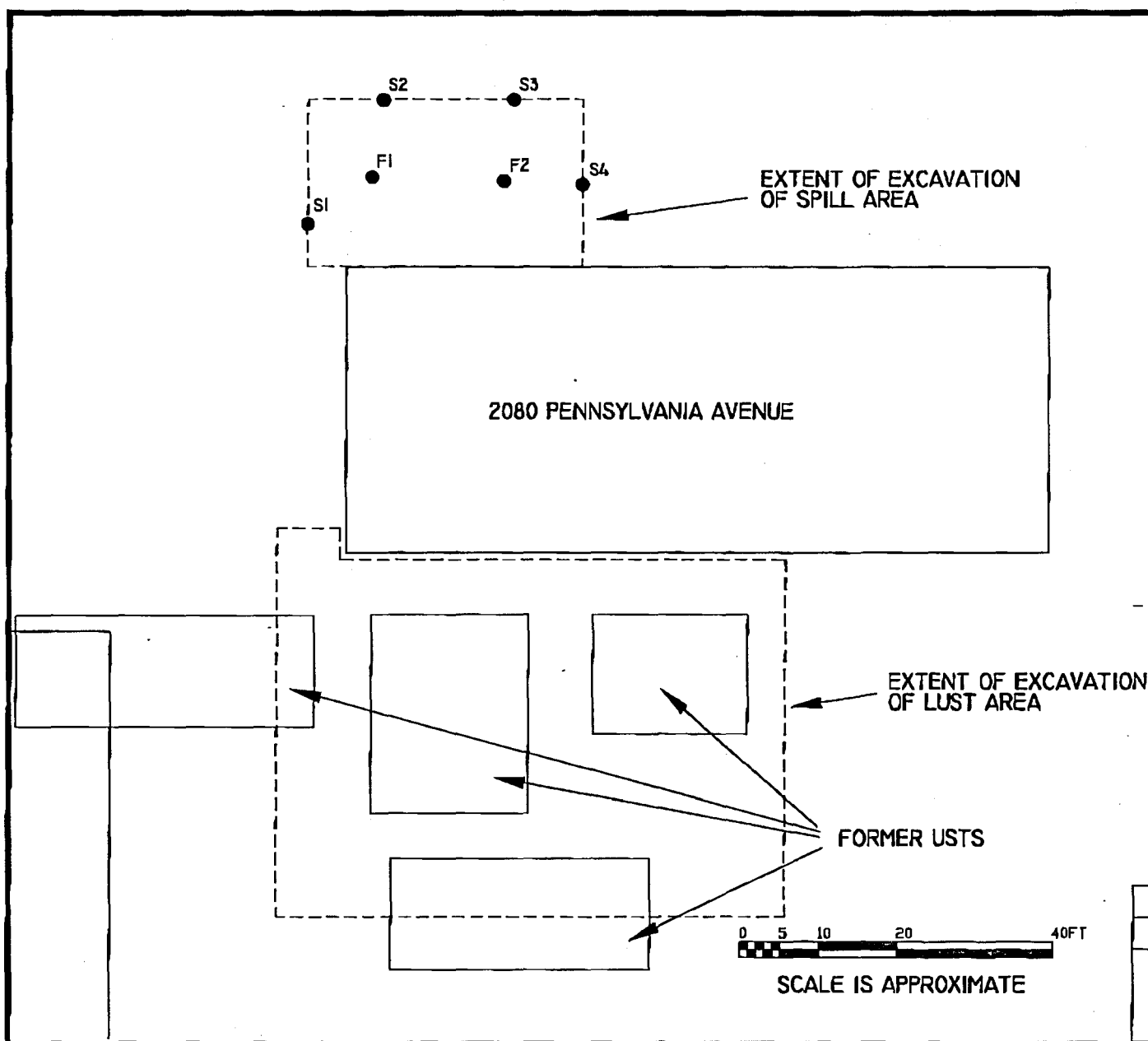
TRANSMISSION CONSISTS OF 2 PAGES INCLUDING THIS COVER SHEET.

IF ALL PAGES ARE NOT RECEIVED, PLEASE CALL 608/223-1532.

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED SOLELY FOR THE USE OF THE PERSONS OR ENTITIES NAMED ABOVE. IF YOU ARE NO SUCH PERSONS OR ENTITIES, YOU ARE HEREBY NOTIFIED THAT ANY DISTRIBUTION DISSEMINATION, OR REPRODUCTION OF THIS FACSIMILE IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS MESSAGE IN ERROR, PLEASE CALL US COLLECT AT 608/223-1532.

EXPLANATION

- SI SIDEWALL SAMPLE LOCATION WITH IDENTIFIER.
 - FI FLOOR SAMPLE LOCATION WITH IDENTIFIER.
- SOIL EXCAVATED AND SAMPLES COLLECTED ON MAY 7, 1997.



FILE: J:\SHARED\FIGURES\163027\SITEFL.DWG	
DATE: 8/15/97	DRAWN BY: MLW CHECKED BY: BJW
SOURCE: FIELD NOTES	

SCALE IS APPROXIMATE



LIESCH ENVIRONMENTAL SERVICES, INC.
6000 GISHOLT DRIVE, SUITE 203
MADISON, WI 53713

SITE MAP
HOOPER CORPORATION
2080 PENNSYLVANIA AVENUE
MADISON, WISCONSIN

FIGURE
2

Wisconsin Department of Natural Resources

Release

Notification of Petroleum Contamination from ~~Underground Storage Tank System~~

Please complete this form and FAX it to the appropriate DNR contact person listed on the back page of this form immediately upon discovery of a release from an UST system.

TO: DNR, Attn: Marilyn Jahnke
FAX #: 608-275-3338

1. Name, company, mailing address and phone number of person reporting the discharge:

Maxine Wheat
Liesch Environmental Services
6000 Gisholt Dr. #203
Madison WI 53713

608-223-1532

2. Site Information:

Name of site at which discharge occurred (local name of site/business, not responsible party name - unless a residence): 2080 Pennsylvania Ave.

Location (actual street address, not P.O. box; if no street address, describe as precisely as possible, e.g., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60): 2080 Pennsylvania Ave
Madison WI 53707

Municipality (city, village, township in which the site is located - not mailing address):

Madison

County: Dane

Legal Description: SE 1/4, NW 1/4, Section 6, Tn 7, Range 10 E/W

3. Responsible Party (RP) and/or RP Representative Information

Company Name: Hooper Corporation

Contact Person: Mr. T.C. Bugel

Mailing Address (with zip code):

2030 Pennsylvania Avenue
PO Box 7455
Madison WI 53707

Telephone Number:

608-249-0451 ext. 125

4. Identity, physical state and quantity of the hazardous substance discharged (check all that apply):

Unleaded gasoline

Fuel oil

Leaded gasoline

Waste oil

Diesel

Other

- odors and staining in ~~soil~~ soil
- unknown quantity of original release
- approximately 50 cubic yards of soil removed.

*8/12/97
already a site
Anette from Liesch will have
B. Heinrichs call re.*

5. Impacts to the environment (enter "K" for known or "P" for potential for all that apply):

- Fire/explosion threat
- Contaminated private wells (# of wells) _____
- Contaminated public wells
- Groundwater contamination

- Soil contamination
- Surface water impacts
- Floating product
- Other _____

6. Contamination was discovered as a result of:

- Tank closure assessment
- Site assessment

X Other Construction Activities
on Property

On what date: 6-2-97

Additional Comments:

Closure Report to follow.

FAX numbers to report LUST sites in DNR's six districts:

- Lake Michigan District: 414-492-5859 Attention: Janis DeBrock**
(Florence, Marinette, Oconto, Menominee, Shawano, Waupaca, Outagamie, Brown, Door, Kewaunee, Waushara, Winnebago, Calumet and Manitowoc Counties)
- North Central District: 715-365-8932 Attention: Janet Kazda**
(Vilas, Oneida, Forest, Lincoln, Langlade, Marathon, Wood, Portage, Juneau, and Adams Counties)
- Northwest District: 715-635-4105 Attention: Susie Sutton**
(Douglas, Bayfield, Ashland, Iron, Burnett, Washburn, Sawyer, Price, Polk, Barron, Rusk and Taylor Counties)
- Southern District: 608-275-3338 Attention: Marilyn Jahnke**
(Marquette, Green Lake, Richland, Sauk, Fond du Lac, Columbia, Dodge, Dane, Jefferson, Grant, Iowa, Lafayette, Green and Rock Counties)
- Southeast District: 414-229-0810 Attention: Giselle Red**
(Sheboygan, Washington, Ozaukee, Waukesha, Milwaukee, Walworth, Racine, and Kenosha Counties).
- Western District: 715-839-6076 Attention: John Grump**
(St. Croix, Dunn, Chippewa, Pierce, Pepin, Eau Claire, Clark, Buffalo, Trempealeau, Jackson, LaCrosse, Monroe, Vernon and Crawford Counties)