

DEPARTMENT OF PUBLIC WORKS

350 South 5th Street - Room 203
Minneapolis MN 55415-1390

Office (612) 673-2352
Fax (612) 673-3565
TTY (612) 673-2157

DAVID J. SONNENBERG
CITY ENGINEER - DIRECTOR OF PUBLIC WORKS

B. J. LOKKESMOE
ASSISTANT DIRECTOR OF
PUBLIC WORKS/DIRECTOR OF
ENGINEERING OPERATIONS
350 S 5th St - Rm 203
Minneapolis MN 55415-1390
(612) 673-3316
FAX (612) 673-3565

M. J. MONAHAN
ASSISTANT DIRECTOR OF
PUBLIC WORKS/DIRECTOR
TRANSPORTATION
350 S 5th St - Rm 233
Minneapolis MN 55415-1390
(612) 673-2411
FAX (612) 673-2149

J. E. EDMUNDS, DIRECTOR
EQUIPMENT SERVICES
1300 Currie Ave
Minneapolis MN 55403-1234
(612) 673-5737
FAX (612) 335-5936

J. M. GARBER, DIRECTOR
ADMINISTRATION
350 S 5th St - Room 203
Minneapolis MN 55415-1390
(612) 673-2410
FAX (612) 673-3565

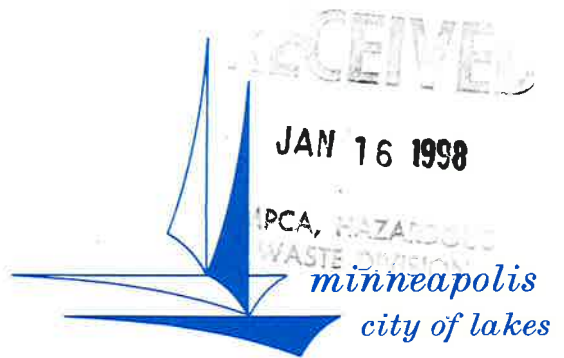
R. KANNANKUTTY, DIRECTOR
ENGINEERING DESIGN
309 2nd Ave S - Rm 300
Minneapolis MN 55401-2268
(612) 673-2456
FAX (612) 673-2048

A. J. KRAMER, DIRECTOR
WATER WORKS
250 S 4th St - Rm 206
Minneapolis MN 55415-1330
(612) 673-2418
FAX (612) 673-2684

R. L. PLETAN, DIRECTOR
GENERAL SERVICES
350 S 5th St - Rm 223
Minneapolis MN 55415-1390
(612) 673-2706
FAX (612) 673-3565

R. H. SMITH, DIRECTOR
MANAGEMENT SUPPORT
350 S 5th St - Rm 203
Minneapolis MN 55415-1390
(612) 673-2241
FAX (612) 673-3565

S. A. YOUNG, DIRECTOR
SOLID WASTE & RECYCLING
309 2nd Ave S - Rm 210
Minneapolis MN 55401-2281
(612) 673-2433
FAX (612) 673-2250



January 13, 1998

Stacey Hendry-Van Patten
Pollution Control Specialist
Tanks and Emergency Response Section
Hazardous Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Dear Ms. Van Patten:

I am forwarding the excavation report for the UST removals and installations that were performed at 1911 East 26th Street last fall. Please reference the current MPCA Leak # 00010926 as well as the previously closed Leak #00003790.

The operations that were performed at the above site, during October and November of 1997, consisted of the removal of an 8,000 gallon diesel UST and a 10,000 gallon gasoline UST and the installation of two 15,000 gallon replacement UST's.

Soil sampling and screening were performed in accordance with MPCA Fact Sheets 3.6 and 3.22 throughout the course of operations. Contamination in excess of the soil action level(s) was encountered on three separate occasions; during the removal of UST # 093, during the additional excavation to accommodate the installation of UST # C92, and during the removal of the fuel island and dispensers. City of Minneapolis personnel contacted the MPCA duty officer on each occasion. In addition, I consulted with you on October 28 and again, on November 3 regarding management issues relating to this project.

The City of Minneapolis is seeking a "No Corrective Action" letter from your agency in regard to this site and it is my hope that you will find the information in the report supportive to that end. On behalf of the City of Minneapolis, I would like to thank you for the assistance that you have rendered in regard to this matter. If you have any questions, please feel free to call me at (612) 673-5627.

Sincerely:

A handwritten signature in blue ink that reads "Paul Ogren".

Paul Ogren, P.E.
City of Minneapolis Department of Public Works
1901 East 26th Street
Minneapolis, MN 55404-4028

AFFIRMATIVE ACTION EMPLOYER

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Tanks and Emergency Response Section
Minnesota Pollution Control Agency

**EXCAVATION REPORT WORKSHEET FOR
PETROLEUM RELEASE SITES**

Fact Sheet #3.7

April 1996

Complete the information below and submit to the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section to document excavation and treatment of petroleum contaminated soil. Conduct excavations in accordance with "Excavation of Petroleum Contaminated Soil" (fact sheet #3.6). Please attach any available preliminary site investigation reports to this excavation report.

Attach additional pages if necessary. Please type or print clearly.

The excavation reporting deadline is 10 months from the date of receipt of the standard letter. A shorter deadline may be established by MPCA staff for high priority sites.

PART I: BACKGROUND

A. Site: 1911 E. 26th Street

Street: 1911 E. 26th Street
City, Zip: Minneapolis, MN 55404
County: Hennepin

MPCA Site ID#: LEAK0000_____

B. Tank Owner/Operator: City of Minneapolis

Mailing Address: Attn: Paul Ogren, P.E.

Street/Box: 1901 E. 26th Street
City, Zip: Minneapolis, MN 55404
Telephone: (612) 673-5627

C. Excavating Contractor:
Minnesota Petroleum Service, Inc.

Contact: Tom Ames
Telephone: (612) 780-5191
Tank Contractor Certification Number: 604

D. Consultant:

Contact:
Street/Box:
City, Zip:
Telephone:

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.):
City of Minneapolis Personnel: Jeff Johnson, P.E., Project Engineer; Bill Gauthier, Tom Besch, Equipment Division; David Ziener, Environmental Inspector; Paul Urseth, Engineering Services.

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

PART II: DATES

10/28/97: Removal of 093

11/03/97: Installation of C92

A. Date release reported to MPCA: 11/07/97: Removal of portion of fuel island & dispensers

B. Dates site work performed (tanks removed, soil excavation, soil borings, etc.):

Work Performed	Date
Removed UST #093 (8,000 gallon diesel)	10/27/97
Additional excavation to accommodate installation of C93	10/28/97
Installed UST #C93 (15,000 gallon diesel)	10/29/97
Removed UST #A92 (10,000 gallon gasoline)	10/30/97
Additional excavation to accommodate UST #C92	10/30/97 - 11/03/97
Installed UST #C92 (15,000 gallon gasoline)	
Removed and reconstructed island & associated dispensers	11/07/97

PART III: SITE AND RELEASE INFORMATION

A. Describe the land use and pertinent geographic features within 1000 feet of the site.
(i.e. residential property, industrial, wetlands, etc.)

Site is located in the City of Minneapolis Public Works Hiawatha Yard which contains the asphalt and concrete plants, and a number of Public Works Service Divisions. Adjacent properties are residential with the exception of railroad property on the ESE boundary. **Table 1.**

B. Provide the following information for all tanks at the site at the time of the release:

Tank #	UST or AST	Capacity (gallons)	Contents (product type)	Age	Status*	Condition of Tank
093	UST	8,000	Diesel	27 yrs.	Removed 10/27/97	Good/no apparent leaks (steel)
C93	UST	15,000	Diesel	New	Installed 10/29/97	New (Fiberglass)
A92	UST	10,000	Gasoline	27 yrs.	Removed 10/30/97	Evidence of patch near top, no apparent leaks (Fiberglass)
C92	UST	15,000	Gasoline	New	Installed 11/3/97	New (Fiberglass)

*Indicate: removed (date), abandoned in place (date), or currently used

Notes:

C. Describe the status of the other components of the tank system(s), (i.e., piping and dispensers) for those tanks listed above.

No obvious leaks in either 093 or A92 or in their associated pipings.

D. Identify and describe the source or suspected source(s) of the release.

#093 (8,000 gallon diesel): No obvious source, reference former leak #3790, (Now closed). #A92 (10,000 gallon gasoline): Signs of patching near top, reference former leak #3790. Fuel Island: Possible leakage from piping, however leakage was not obvious.

E. What was the volume of the release? (if known): Unknown gallons

F. When did the release occur? (if known): Unknown

G. Describe source of on-site drinking water. Municipal water supply.

PART IV: EXCAVATION INFORMATION

	093	30	15	11
	C93	37	18	14
A. Dimensions of excavation:	Length	Width	Depth	

	A92	35	18	11
	C92	41	22	14

B. Original tank backfill material (sand, gravel, etc.): Pea rock bedding with sand.

C. Native soil type (clay, sand, etc.): Sand

D. Quantity of contaminated soil removed for treatment (cubic yards): 0

[Note: If more than 150 cubic yards removed, please attach copy of written approval from MPCA.]

E. Were new tanks installed at the site? (yes/no) If yes, how much soil was excavated to accommodate the installation of the new tanks? @ 093/C93 175 yd³
@ A92/C92 200 yd³

F. Was ground water encountered or was there evidence of a seasonally high ground water table? (yes/no) At what depth? _____

G. If ground water was not encountered during the excavation, what is the expected depth of ground water? 23' per boring #2 (1/17/96) See attachment

- H. If a soil boring was required (see fact sheet #3.6 "Excavation of Petroleum Contaminated Soil," Part VI Additional Investigation) describe the soil screening and analytical results. Attach the boring logs and laboratory results to this report.
See previous attachment Boring #2 (1/17/96) and attachment for borings A and B (4/9/97).
- I. If no soil boring was required, explain.

- J. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? (yes/no) Describe this evidence of contamination, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc.

[NOTE: If free product was observed, contact MPCA staff immediately as outlined in fact sheet #3.3 "Free Product: Evaluation and Recovery"].

- K. Was bedrock encountered in the excavation? (yes/no) At what depth?

- L. Were other unique conditions associated with this site? (yes/no) If so, explain.

Proximity to building foundation and platform scale constrained the movement of equipment and limited space for material storage.

PART V: SAMPLING INFORMATION

- A. Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil: Field screening was performed in accordance with established methods as outlined in MPCA Fact Sheet #3.22 utilizing a photoionizing detector (PID) equipped with a 10.6 eV lamp. Soil samples were collected from freshly exposed soil utilizing disposable nitrile gloves and dedicated sampling containers & equipment.
- B. List all soil vapor headspace analysis results. Indicate all sampling locations using sample codes (with sampling depths in parentheses), e.g. R-1 (2 feet), R-2 (10 feet), etc. "R" stands for "removed." Samples collected at different depths at the same location should be labeled R-1A (2 feet), R-1B (4 feet), R-1C (6 feet), etc. If the sample was collected from the sidewall or bottom after excavation was complete, label it S-1 (for sidewall) or B-1 (for "bottom"). Be sure the sample codes correspond with the site map required in part VI, below.

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
R-1 (2')	Sand w/ pea rock	6.6	R-9 (5)	Pea rock	22.6
R-2 (4)	Pearock	1.2	R-10 (9)	Sand	9.2
R-3 (3)	Pea rock	1.4	R-11 (7)	Sand	6.8
R-4 (5)	Sand	10.8	R-12 (5)	Sand/ pea rock	7.4
R-5 (7)	Sand	5.9	R-13 (10)	Sand	3.2
R-6 (8)	Sand	6.2	R-14 (8)	Sand	4.3
R-7 (6)	Sand	13.3	R-15 (9)	Sand	2.7
R-8 (8)	Sand	11.2	R-16 (8)	Sand	4.2

Note: See attached forms for additional sampling/screening information.

C. Briefly describe the soil analytical sampling and handling procedures used:

See attachment.

D. List below all soil sample analytical results from bottom and sidewall samples (i.e., soils left in place when excavation is complete). Code the samples with sampling depths in parentheses as follows: sidewall samples S-1 (8 feet), S-2 (4 feet), etc.; bottom samples B-1 (13 feet), B-2 (14 feet), etc. Be sure the sample codes correspond to the site map required in part VI. Do not include analyses from the stockpiled soils.

Sample Code	GRO/ DRO	Benzene ppm	Ethyl- benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
97-93749 97-93835 97-93750 97-93836	B-1	DRO < 8.0	< 0.0010	< 0.0010	< 0.0010	< 0.0010	NA*
	B-3	DRO < 8.0	< 0.0010	< 0.0010	< 0.0010	< 0.0010	NA
97-93751	B-4	DRO 21	NA	NA	NA	NA	NA
97-93752	B-5	DRO 26	NA	NA	NA	NA	NA
97-94330	B-6	GRO < 5.0	< 0.025	< 0.025	< 0.025	< 0.025	NA

Note: See attachment for additional analytical test results.

NOTE: ATTACH COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS.

*: NA signifies Not Analyzed

C. Briefly describe the soil analytical sampling and handling procedures used:

Soil samples were collected using disposable nitrile gloves and containers provided by the analytical laboratory. All samples were collected from newly exposed soil. GRO samples were weighed, placed in pre-weighed containers and preserved with methanol. DRO samples were weighed and placed in pre-weighed containers. BETX samples were packed with zero head space. All samples were immediately placed on ice and transported, as soon as possible, to the analytical laboratory with accompanying chain of custody forms.

PART VI: FIGURES

Attach the following figures to this report:

1. Site location map.
2. Site map(s) drawn to scale illustrating the following:
 - a. Location (or former location) of all present and former tanks, lines, and dispensers;
 - b. Location of other structures (buildings, canopies, etc.);
 - c. Adjacent city, township, or county roadways;
 - d. Final extent and depth of excavation;
 - e. Location of soil screening samples (e.g. R-1), soil analytical samples (e.g., S-1 or B-1), (e.g. SB-1). Also, attach all boring logs.
 - f. North arrow, bar scale and map legend.
 - g. Provide location of any on-site water wells. If on-site water wells exist please provide well logs and/or construction diagrams.

PART VII: SUMMARY

Briefly summarize evidence indicating whether additional investigation is necessary at the site, as discussed in parts VI and VII of "Excavation of Petroleum Contaminated Soil" (fact sheet #3.6). If no further action is recommended, the MPCA staff will review this report following notification of soil treatment.

PART VIII: SOIL TREATMENT INFORMATION

- A. Soil treatment method used (thermal, land application, composting, other). If you choose "other" specify treatment method: _____
- B. Location of treatment site/facility: _____
- C. Date MPCA approved soil treatment (if thermal treatment was used after May 1, 1991, indicate date that the MPCA permitted thermal treatment facility agreed to accept soil):

- D. Identify the location of stockpiled contaminated soil:

PART IX: CONSULTANT (OR OTHER) PREPARING THIS REPORT

By signing this document, I/we acknowledge that we are submitting this document on behalf of and as agents of the responsible person or volunteer for this leaksite. I/we acknowledge that if information in this document is inaccurate or incomplete, it will delay the completion of remediation and may harm the environment and may result in reduction of reimbursement awards. In addition, I/we acknowledge on behalf of the responsible person or volunteer for this leaksite that if this document is determined to contain a false material statement, representation, or certification, or if it omits material information, the responsible person or volunteer may be found to be in violation of Minn. Stat. § 115.075 (1994) or Minn. Rules 7000.0300 (Duty of Candor), and that the responsible person or volunteer may be liable for civil penalties.

Name and Title:	Signature:	Date signed:
<u>Paul W. O'Brien</u>	<u></u>	<u>01 15 98</u>
<u>ENGINEER III 1/2</u>	_____	_ / _ / _
_____	_____	_ / _ / _
_____	_____	_ / _ / _

Company and mailing address:

CITY OF MINNEAPOLIS
1901 E. 26TH STREET
MINNEAPOLIS, MN.
55404-4028

Phone: 673-5627

Fax: 722-6531

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

(Project Manager)
Minnesota Pollution Control Agency
Hazardous Waste Division
Tanks and Emergency Response Section
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

If additional investigation is required at the site, include this form as an appendix to the "Remdial Investigation Report Form." **Excavation reports indicating a limited site investigation (LSI) is necessary will not be reviewed by MPCA staff until the LSI has been completed.**

Upon request, this document can be made available in other formats, including Braille, large print and audio tape. TTY users call 612/282-5332 or 1-800-657-3864 (voice/TTY).

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Notification/Change in Status for Underground Storage Tanks



Minnesota Pollution Control Agency
 Hazardous Waste Division Tanks and Spills Section
 520 Lafayette Road North St. Paul, MN 55155
 (612) 297-8664 or 1-800-657-3864

for office use:	
Site #:	
Leak #:	
Owner #:	
Date received:	

A. Facility Information

1. Tank Site Location

Name Equipment Services GARAGE
 Street 1911 EAST 26th street
 City Minneapolis County Hennepin
 State MN Zip 55404 Phone (612) 673-5656
 Contact Person Bill Gauthier/TOM Besch

2. Owner Location

Name Minneapolis Public Works Department
 Name Equipment Services Division
 Street 1300 CURRIE AVE, NORTH
 City Minneapolis County Hennepin
 State MN Zip 55403 Phone (612) 673-5737
 Contact Person John Edmunds, P.E., Director

3. Type of Facility Please check applicable box.

Service station Government Education
 Church Auto dealer Utility Industry/factory
 Other (specify): _____

4. Is tank facility located on Tribal Lands? yes no

B. Tank Number

Type or use black ink and complete as well as possible. Please photocopy form if site has more than three tanks.

1. Assign a 3 digit number to each tank (ie. 001, 002...)

TANK 1	TANK 2	TANK 3
<u>A92</u>	<u>093</u>	

2. Tank installation date:

month/year	month/year	month/year
<u>01/01/70</u>	<u>01/01/70</u>	

D. Tank Information continued

	TANK 1	TANK 2	TANK 3
2. Secondary Containment:			
Double wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vault	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal bladder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Cathodic Protection:

Anodes
 Impressed current
 Lined tank
 Not needed (ie. fiberglass)

If certified by corrosion expert, write name and PE or certification # in Box H.

4. Does tank have spill prevention equipment?

yes no yes no yes no

5. Overfill Prevention Equipment

Ball float valve
 Automatic shut-off
 Audible alarm

6. Is the tank compartmental?

yes no yes no yes no

If answered "yes" to #6, please proceed to Box E

7. Capacity (in gallons):

10,000 5,000

8. Substance currently or last stored:

Gasoline
 Alcohol blend (over 5%) gasoline
 Diesel
 Used (waste) oil
 Fuel oil
 Kerosene
 Hazardous substance
 (specify chemical and tank # in Box H)
 Other (specify in Box H)

9. Is product stored in tank used only for heating?

yes no yes no yes no

Tank Action

Please check applicable boxes.

TANK 1 TANK 2 TANK 3 Date Occurred

Initial notification of site _____

Changed site name/address _____
 (please give previous name/address in Box H)

Changed tank owner _____
 (please give previous owner's name and address in Box H)

Changed tank contents _____

Installed new tanks & piping _____

Installed new tank(s) at site _____

Installed new piping _____

Repaired/upgraded tank _____

(complete D3, D4, D5 and Box G if pertains and explain actions in Box H)

Repaired/upgraded piping _____

(please complete Box F and explain actions in Box H)

Removed tank _____

Name of tank disposal company: SCRAP YARD

Hazardous waste generator ID #: _____

Closed tank in place _____

Abandoned _____

Is tank empty? yes no

Temporarily closed _____

Is tank empty? yes no

D. Tank Information

Please check applicable boxes.

1. Type of Tank:

	TANK 1	TANK 2	TANK 3
STIP3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Composite	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jacketed steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asphalt coated steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Painted steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bare steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

turn page over!

FOR COMPARTMENTAL TANKS ONLY

	TANK 1	TANK 2	TANK 3
1. Compartment Capacity			
compartment 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Compartment Product:			
compartment 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Is product stored in tank used only for heating?			
compartment 1	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
compartment 2	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
compartment 3	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

F. Piping Please check all applicable boxes

	TANK 1	TANK 2	TANK 3
1. Construction Material:			
Epoxy coated steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wrapped	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bare steel/Black iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Secondary Containment			
Double wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exterior liner	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Cathodic Protection:			
Anodes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Impressed current	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not needed (ie. fiberglass)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>If certified by corrosion expert, write name and PE or certification # in Box H</i>			
4. Type of Pump:			
Suction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
check valve located at:	<input type="checkbox"/> tank	<input type="checkbox"/> dispenser	
Submersible	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gravity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

G. Release Detection Please check all applicable boxes.

	TANK 1	TANK 2	TANK 3
1. Tanks:			
Inventory control (daily sticking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank precision test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual tank gauging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Automatic tank gauging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil vapor monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tracer monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1a. For newly installed tanks only			
Was a tank precision test conducted prior to placing the system into operation?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
If yes, date test was conducted:	___/___/___		
2. Piping:			
Automatic line leak detector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line precision test annually	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vapor monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line precision test every three years	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2a. For newly installed piping only			
Was a line precision test conducted prior to placing the system into operation?	<input type="checkbox"/> yes	<input type="checkbox"/> no	
If yes, date test was conducted:	___/___/___		

H. Comments (attach additional sheets if necessary)

© Minnesota Petroleum Services, Inc.
 7650 State Hwy. 65 N.E.
 Fridley, MN 55432 Ph 612/480-5191
 Removed old underground storage tanks. (2)

Questions?
 Call
 (612) 297-8664
 or
 1-800-657-3864
 during normal business hours

I. Owner's Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge. For tank work performed after July 9, 1990, I certify that the tank contractor was in compliance with the certification requirements of Minn. Rules ch. 7105. All work completed after Dec. 1988 was performed in accordance with manufacturers' instructions, industry standards, and applicable state and federal regulations.

William W. Gaultier supervisor
 Print name of owner or authorized representative Title
William W. Gaultier 12/9/97
 Signature of owner or authorized representative Date
 MPCA # 17934

Unsigned forms will be returned

Please retain a copy for your own records

J. Tank Contractor's Signature

I certify under penalty of law that all work was performed as specified by the manufacturers' instructions, and according to industry standards, applicable state and federal regulations and is complete to the best of my knowledge. I certify that I am in compliance with Minn. Rules ch. 7105, for work completed after July 9, 1990.

MINNESOTA PETROLEUM 604
 Print name of tank contractor MPCA Contractor #
Tom Ames SALES
 Print name of contractor's authorized representative Title
Tom Ames 12-8-97
 Signature of tank contractor's representative Date
R.A. Korf 2552
 Print name of supervisor on site during tank work MPCA Supervisor #
R.A. Korf 12/8/97
 Signature of supervisor Date

Notification/Change in Status for Underground Storage Tanks



Minnesota Pollution Control Agency
 Hazardous Waste Division Tanks and Spills Section
 520 Lafayette Road North St. Paul, MN 55155
 (612) 297-8664 or 1-800-657-3864

for office use:	
Site #:	
Leak #:	
Owner #:	
Date received:	

A. Facility Information

1. Tank Site Location		2. Owner Location	
Name <u>Equipment Services Garage</u>	Name <u>Minneapolis Public Works Department</u>	Name <u>Equipment Services Division</u>	
Street <u>1911 East 26th Street</u>	Street <u>1300 Currie Ave. North</u>		
City <u>Minneapolis</u> County <u>Hennepin</u>	City <u>Minneapolis</u> County <u>Hennepin</u>		
State <u>MN</u> Zip <u>55404</u> Phone <u>(612) 673-5656</u>	State <u>MN</u> Zip <u>55403</u> Phone <u>(612) 673-5737</u>		
Contact Person <u>Bill Gauthier/Tom Besch</u>	Contact Person <u>John Edmunds, P.E., Director</u>		

3. Type of Facility Please check applicable box.

Service station Government Education Industry/factory
 Church Auto dealer Utility Other (specify): _____

4. Is tank facility located on Tribal Lands? yes no

B. Tank Number

Type or use black ink and complete as well as possible. Please photocopy form if site has more than three tanks.

1. Assign a 3 digit number to each tank (ie. 001, 002...)

TANK 1	TANK 2	TANK 3
<u>092</u>	<u>093</u>	

2. Tank installation date:

<u>12/5/97</u>	<u>12/5/97</u>	
month	month	month

D. Tank Information continued

	TANK 1	TANK 2	TANK 3
--	--------	--------	--------

2. Secondary Containment:

Double wall
 Vault
 Internal bladder
 External liner

3. Cathodic Protection:

Anodes
 Impressed current
 Lined tank
 Not needed (ie. fiberglass)

If certified by corrosion expert, write name and PE or certification # in Box H.

4. Does tank have spill prevention equipment?

yes no yes no yes no

5. Overfill Prevention Equipment

Ball float valve
 Automatic shut-off
 Audible alarm

6. Is the tank compartmental?

yes no yes no yes no

If answered "yes" to #6, please proceed to Box E

7. Capacity (in gallons): 15,000 15,000

8. Substance currently or last stored:

Gasoline
 Alcohol blend (over 5%) gasoline
 Diesel
 Used (waste) oil
 Fuel oil
 Kerosene
 Hazardous substance
 (specify chemical and tank # in Box H)
 Other (specify in Box H)

9. Is product stored in tank used only for heating?

yes no yes no yes no

C. Tank Action

Please check applicable boxes.

	TANK 1	TANK 2	TANK 3	Date Occurred
--	--------	--------	--------	---------------

Initial notification of site

Changed site name/address / /
 (please give previous name/address in Box H)

Changed tank owner / /
 (please give previous owner's name and address in Box H)

Changed tank contents / /

Installed new tanks & piping

Installed new tank(s) at site

Installed new piping / /

Repaired/upgraded tank / /
 (complete D3, D4, D5 and Box G if pertains and explain actions in Box H)

Repaired/upgraded piping / /
 (please complete Box F and explain actions in Box H)

Removed tank / /

Name of tank disposal company: _____
 Hazardous waste generator ID #: _____

Closed tank in place / /

Abandoned / /

Is tank empty? yes no

Temporarily closed / /

Is tank empty? yes no

D. Tank Information

Please check applicable boxes.

1. Type of Tank:

	TANK 1	TANK 2	TANK 3
--	--------	--------	--------

STIP3
 Fiberglass
 Composite
 Jacketed steel
 Asphalt coated steel
 Painted steel
 Bare steel
 Other (specify in Box H)

turn page over!

E. FOR COMPARTMENTAL TANKS ONLY

	TANK 1	TANK 2	TANK 3
1. Compartment Capacity			
compartment 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Compartment Product:			
compartment 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
compartment 3	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Is product stored in tank used only for heating?			
compartment 1	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
compartment 2	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
compartment 3	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

F. Piping Please check all applicable boxes

	TANK 1	TANK 2	TANK 3
1. Construction Material:			
Epoxy coated steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Galvanized steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wrapped	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bare steel/Black iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fiberglass	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Copper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Secondary Containment			
Double wall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Exterior liner	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Cathodic Protection:			
Anodes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impressed current	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not needed (ie. fiberglass)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If certified by corrosion expert, write name and PE or certification # in Box H			
4. Type of Pump:			
Suction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
check valve located at:	<input type="checkbox"/> tank	<input checked="" type="checkbox"/> dispenser	
Submersible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gravity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I. Owner's Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge. For tank work performed after July 9, 1990, I certify that the tank contractor was in compliance with the certification requirements of Minn. Rules ch. 7105. All work completed after Dec. 1988 was performed in accordance with manufacturers' instructions, industry standards, and applicable state and federal regulations.

William W. Gauthier Supervisor
 Print name of owner or authorized representative Title
William W. Gauthier 12-8-97
 Signature of owner or authorized representative Date
 MPCA # 17934

Unsigned forms will be returned

Please retain a copy for your own records

G. Release Detection Please check all applicable boxes

	TANK 1	TANK 2	TANK 3
1. Tanks:			
Inventory control (daily sticking)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank precision test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual tank gauging	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Automatic tank gauging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil vapor monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tracer monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1a. For newly installed tanks only			
Was a tank precision test conducted prior to placing the system into operation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no			
If yes, date test was conducted: ___/___/___			
2. Piping:			
Automatic line leak detector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Line precision test annually	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vapor monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interstitial monitoring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line precision test every three years	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in Box H)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2a. For newly installed piping only			
Was a line precision test conducted prior to placing the system into operation? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no			
If yes, date test was conducted: ___/___/___			

H. Comments (attach additional sheets if necessary)

© Minnesota Petroleum Services, Inc.
 7650 State Hwy, 65 N.E.
 Fridley, MN 55432 Ph 612/780-5191
 Installed two (2) 15,000 gallon U.S.T.
 and piping.
 (E) suction lines "GectFlex III"
 1/2 inch diameter manufactured
 by ENVIRO products Inc. or approved
 equal. Piping placed in a four
 (4) inch flexible polyethylene conduit.

Questions?
 Call
 (612) 297-8664
 or
 1-800-657-3864
 during normal
 business hours

J. Tank Contractor's Signature

I certify under penalty of law that all work was performed as specified by the manufacturers' instructions, and according to industry standards, applicable state and federal regulations and is complete to the best of my knowledge. I certify that I am in compliance with Minn. Rules ch. 7105, for work completed after July 9, 1990.

MINNESOTA PETROLEUM 604
 Print name of tank contractor MPCA Contractor #
TOM AMES SALES
 Print name of contractor's authorized representative Title
Tom Ames 12-8-97
 Signature of tank contractor's representative Date
Bret Swan 8494
 Print name of supervisor on site during tank work MPCA Supervisor #
Bret Swan 12-8-97
 Signature of supervisor Date

SAMPLING INFORMATION ATTACHMENT #1
Soil Headspace Analysis
For 1911 E. 26th St MPCA Excavation Reports

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
R-17(10)	Sand	1.9	R-31(15)	Sand	3.4
S-1(9)▲	Sand	2.2	R-32(13)	Sand	ND
S-2(8)	Sand	5.4	R-33(15)	Sand	ND
S-3(7)	Sand	4.3	R-34(12)	Sand	2.1
S-4(6)	Sand	5.3	R-35(14)	Sand	2.1
S-5(5)	Sand	14.4	R-36(13)	Sand	ND
S-6(8)	Sand	17.3	R-37(14)	Sand	ND
*B-1(11)	Sand	6.2	R-38(14)	Sand	ND
B-2(11)	Sand	7.8	R-39(15)	Sand	6.4
*B-3(11)	Sand	3.7	R-40(12)	Sand	3.2
			R-41(14)	Sand	3.2
R-18(13)	Sand	7.5	R-42(15)	Sand	4.1
R-19(12)	Sand	8.6	R-43(15)	Sand	2.1
R-20(14)	Sand	5.0	R-44(12)	Sand	ND
R-21(13)	Sand	4.3	*B-4(15)	Sand	4.7
R-22(15)	Sand	5.2	*B-5(15)	Sand	4.3
R-23(12)	Sand	ND			
R-24(14)	Sand	2.9	R-45(3)	Pea rock	3.2
R-25(15)	Sand	3.9	R-46(5)	Pea rock	1.6
R-26(11)	Sand	0.8	R-47(6)	Sand	0.8
R-27(13)	Sand	7.6	R-48(7)	Pea rock	ND
R-28(14)	Sand	5.2	R-49(9)	Pea rock	ND
R-29(12)	Sand	ND	R-50(8)	Pea rock	4.3
R-30(15)	Sand	1.4	R-51(7)	Pea rock	2.4

Comments: R-1 thru B-3 Removal of UST #093 on 10/27/97
R-18 thru B-5 Installation of UST #C93 on 10/28-29/97
R-45 thru B-8 Removal of UST #A92 on 10/30-31/97
R-59 thru S-12 Installation of UST #C92 on 10/31-11/3/97
R-91 thru B-12 Island/dispensers removals on 11/7/97

▲: Depth units in feet.

*: Concurrent sampling for chemical analyses.

ND: Not Detectable

SAMPLING INFORMATION ATTACHMENT #2
Soil Headspace Analysis
For 1911 E. 26th St MPCA Excavation Reports

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
R-52 (5)	Pea rock	1.1	R-72 (14)	Sand	2.1
R-53 (4)	Pea rock	0.4	R-73 (11)	Sand	3.2
R-54 (3)	Pea rock	ND	R-74 (13)	Sand	22
R-55 (4)	Pea rock	5.6	R-75 (14)	Sand	24
R-56 (6)	Sand	2.1	R-76 (13)	Sand	20
R-57 (5)	Sand	4.1	R-77 (12)	Sand	22
R-58 (7)	Sand	1.3	R-78 (11)	Sand	30
*B-6 (11)	Pea rock	4.5	R-79 (13)	Sand	23
B-7 (11)	Pea rock	4.2	R-80 (12)	Sand	50
*B-8 (11)	Pea rock	1.3	R-81 (13)	Sand	137
			R-82 (11)	Sand	71
R-59 (7)	Sand	4.5	R-83 (14)	Sand	100
R-60 (9)	Sand	3.9	R-84 (13)	Sand	18.7
R-61 (11)	Sand	1.1	R-85 (12)	Sand	149
R-62 (13)	Sand	0.9	R-86 (11)	Sand	29
R-63 (14)	Sand	ND	R-87 (10)	Sand	42
R-64 (14)	Sand	ND	R-88 (9)	Sand	16.4
R-65 (12)	Sand	1.6	R-89 (10)	Sand	22
R-66 (13)	Sand	1.4	R-90 (12)	Sand	18.2
R-67 (14)	Sand	0.9	*B-9 (14)	Sand	5.3
R-68 (12)	Sand	1.2	*B-10 (14)	Sand	4.0
R-69 (14)	Sand	2.7	S-7 (13)	Sand	12.1
R-70 (10)	Sand	3.6	S-8 (14)	Sand	7.3
R-71 (13)	Sand	0.8	S-9 (10)	Sand	10.8

Comments:

SAMPLING INFORMATION ATTACHMENT #3
Soil Headspace Analysis
For 1911 E. 26th MPCA Excavation Reports

Sample Code	Soil Type	Reading ppm	Sample Code	Soil Type	Reading ppm
S-10 (9)	Sand	6.2			
S-11 (8)	Sand	4.3			
S-12 (10)	Sand	3.8			
R-91 (0)	Sandy Lm	186			
R-92 (0)	Sandy Lm	107			
R-93 (.5)	Sand	63			
R-94 (.5)	Sand	40			
R-95 (1)	Sand	12.3			
R-96 (1)	Sand	21			
R-97 (1.5)	Sand	3.4			
R-98 (1.5)	Sand	7.6			
R-99 (2)	Sand	0.7			
R-100 (2)	Sand	1.6			
*B-11 (.5)	Sandy Lm	53			
*B-12 (.5)	Sandy Lm	76			

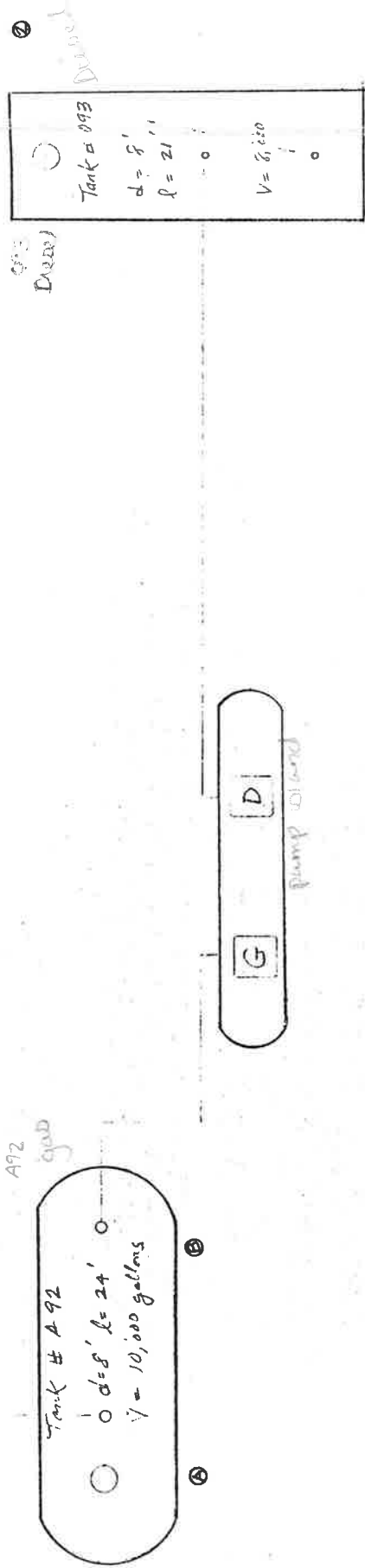
Comments:

ANALYTICAL TEST RESULTS ATTACHMENT #1
For 1911 E. 26th St MPCA Excavation Reports

Sample Code	GRO/ DRO	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
B-8	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	N/A
B-9	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	N/A
B-10	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	N/A
B-11	<8.0	<0.025	<0.025	<0.025	<0.025	N/A	N/A
B-12	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	N/A

Comments: N/A: Not analyzed.

1911 E. 26th St. Saver/Equipment Building
UST Remedials 1997
Previous Soil Borings

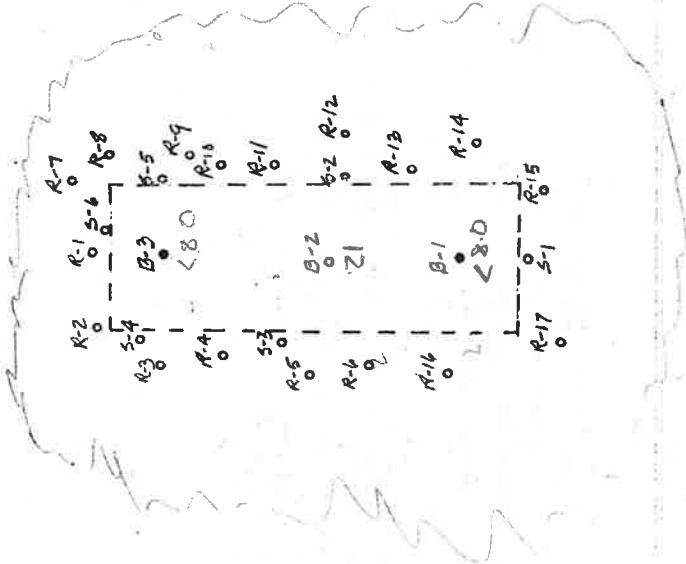
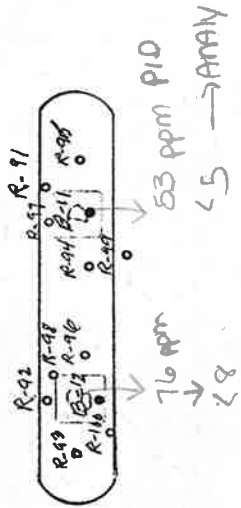
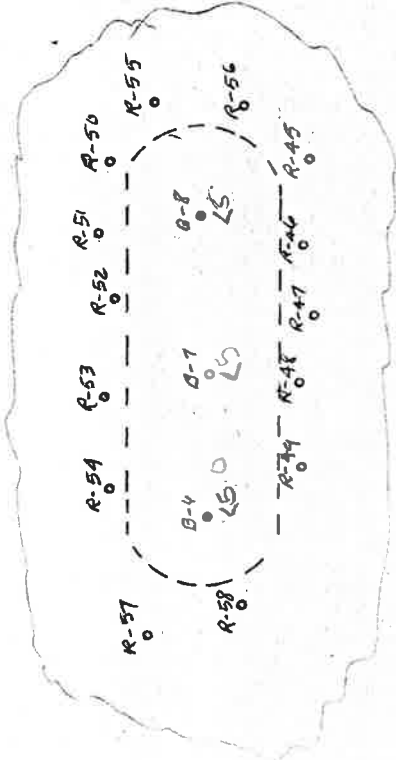


○ Previous soil borings see attached memos and logs

Platform Scale

Scale: 1" = 10'

1911 E. 26th St. Sewer/Equipment Building
 UST Removl's 1987
 Sample Locations



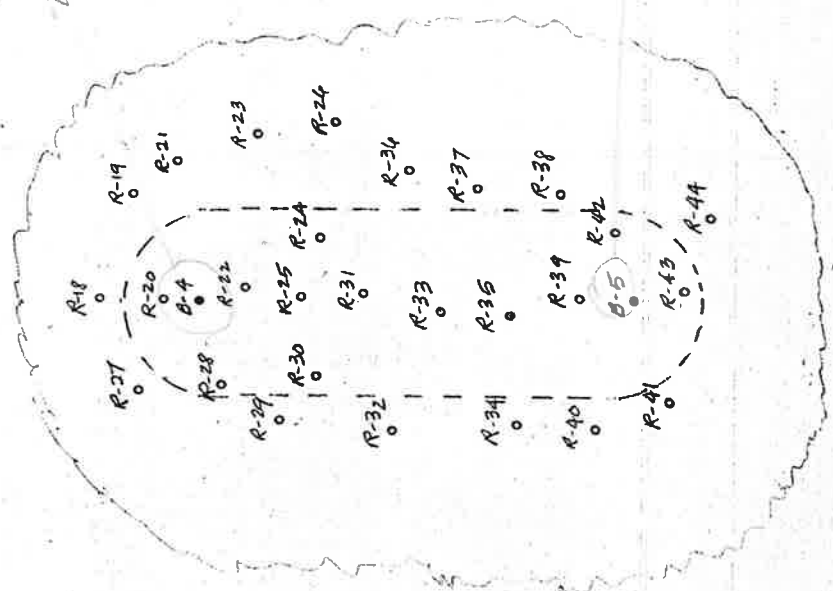
preserved 10/30
 extra 11/7

Scale: 1" = 10'

Platform Scale

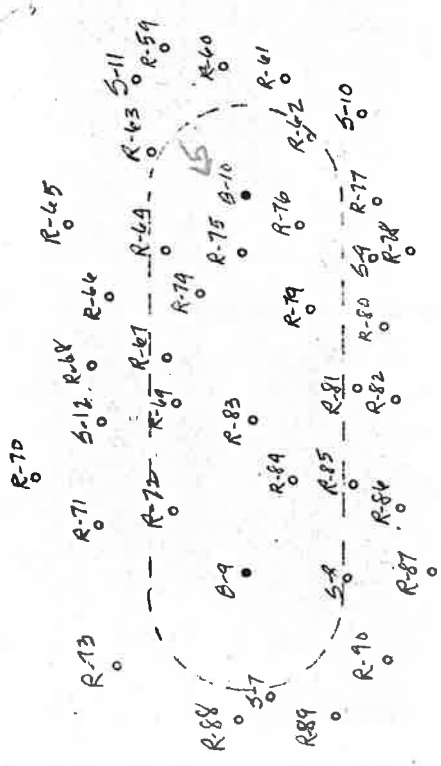
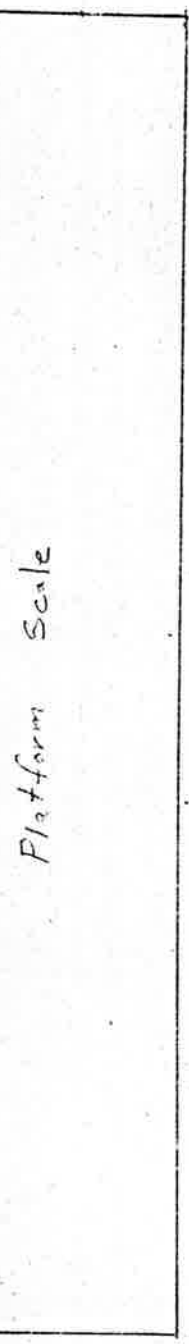
- Headspace sampling location
- Concurrent headspace & analytical sampling location

19110 26th St Sewer/Equipment Building
 (15T Installations (1997)
 Sampling Locations



Legend

- Conduit
- Canopy Support
- Gasoline Dispense
- Diesel Dispense
- Scale: 1" = 10'



- Headspace sampling location
- Consummated headspace & analytical sampling location

LEGEND

TECHNICAL SERVICES, INC.

Report to: Mr. Paul Urseth City of Minneapolis Engineering Laboratory 1901 E. 26th Street Minneapolis, MN 55404	Client Project: 1911 E. 26th Street
Methodology: EPA SW-846 Method 8020 Wisconsin Modified DRO	LEGEND Project No. 97-4021
	Report Date: November 24, 1997
	Date Sampled: October 27 & 28, 1997
	Date Received: October 30, 1997

LEGEND No.	97-93749	97-93750	97-93751	97-93752	97-93835	97-93836	—	—
Parameter	^{B-1} 1 - East End Tank Bedding (mg/kg)	^{B-2} 2 - West End Tank Bedding (mg/kg)	^{B-4} 3 - West End Bottom of New Exc. (mg/kg)	^{B-5} 4 - East End Bottom of New Exc. (mg/kg)	^{D-1} 1A - E. End Tank Bedding (mg/kg)	^{B-3} 2A - W. End Tank Bedding (mg/kg)	Method Blank (mg/kg)	PQL (mg/kg)
Benzene	N/A	N/A	N/A	N/A	<0.0010	<0.0010	<0.0010	0.0010
Toluene	N/A	N/A	N/A	N/A	<0.0010	<0.0010	<0.0010	0.0010
Ethyl benzene	N/A	N/A	N/A	N/A	<0.0010	<0.0010	<0.0010	0.0010
Total xylenes	N/A	N/A	N/A	N/A	<0.0010	<0.0010	<0.0010	0.0010
Surrogate Recovery	—	—	—	—	92.3	89.3	93.7	—
Date Analyzed	—	—	—	—	10/31/97	11/03/97	10/31/97	—
Diesel range organics	<8.0	<8.0	21	26	N/A	N/A	<8.0	8.0
Date Preserved	10/30/97	10/30/97	10/30/97	10/30/97	—	—	—	—
Date Extracted	11/07/97	11/07/97	11/07/97	11/07/97	—	—	11/07/97	—
Date Analyzed	11/09/97	11/09/97	11/09/97	11/09/97	—	—	11/07/97	—
Solids (Percent)	*	*	*	*	95	93	100	—

<= Less than the number shown

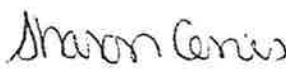
mg/kg is equal to parts-per-million (dry weight basis)

PQL = Practical quantitation limit

* = No moisture sample was received, results are reported on an as received basis

N/A = Not analyzed for this parameter


 Chris Bremer
 Laboratory Manager


 Sharon Cenis
 Project Manager

c:\4\reports\97-4021

INDOOR ENVIRONMENTAL QUALITY AND LABORATORY SERVICES

775 Vandalia Street St. Paul, MN 55114 "An Equal Opportunity Employer" tel 612.642.1150 fax 612.642.1239


LEGEND

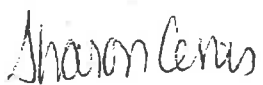
TECHNICAL SERVICES, INC.

Report to: Mr. Paul Urseth City of Minneapolis Engineering Laboratory 1901 E. 26th St E Minneapolis, MN 55404	Client Project: 1911 E 26th St
Methodology: Wisconsin Modified GRO EPA SW846 Method 7420	LEGEND Project No. 97-4107
	Report Date: November 24, 1997
	Date Sampled: 10/31/97, 11/03/97, 11/04/97
	Date Received: 11/04/97

LEGEND No.	97-94330	97-94331	97-94332	97-94333	97-94334	97-94335	—	—
Parameter	^{B-11} 1 - So End Old Tank (mg/kg)	^{B-8} 2 - No End Old Tank (mg/kg)	^{B-9} 3 - So End New Tank (mg/kg)	^{B-10} 4 - No End New Tank (mg/kg)	5 - Soil Pile (mg/kg)	6 - Soil Pile (mg/kg)	Method Blank (mg/kg)	PQL (mg/kg)
Gasoline range organics	< 5.0	< 5.0	< 5.0	< 5.0	48 *	NA	< 5.0	5.0
Methyl-tert-butyl ether	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NA	< 0.025	0.025
Benzene	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NA	< 0.025	0.025
Toluene	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NA	< 0.025	0.025
Ethyl benzene	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NA	< 0.025	0.025
Total xylenes	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	NA	< 0.025	0.025
Surrogate Recovery	90.0	95.4	93.2	89.2	91.5	—	94.4	—
Date Analyzed	11/07/97	11/07/97	11/07/97	11/07/97	11/11/97	—	11/11/97	—
Lead (as received)	NA	NA	NA	NA	NA	46	< 2.5	2.5
Date Analyzed	—	—	—	—	—	11/12/97	11/12/97	—
Solids (Percent)	96	87	93	90	94	—	100	—

< = Less than the number shown
 mg/kg is equal to parts-per-million (dry weight basis)
 PQL = Practical quantitation limit
 NA = Not analyzed for this parameter
 * = Chromatographic profile is similar to fuel oil.


 Chris Bremer
 Laboratory Manager


 Sharon Cenis
 Project Manager

c:\2\reports\97-4107


LEGEND

TECHNICAL SERVICES, INC.

Report to: Mr. Paul Urseth City of Minneapolis Engineering Laboratory 1911 E 26th St Mpls, MN 55404	Client Project: 1911 E 26th St - Fuel Island
Methodology: Wisconsin Modified DRO Wisconsin Modified GRO	LEGEND Project No. 97-4157
	Report Date: November 24, 1997
	Date Sampled: 11/07/97
	Date Received: 11/07/97

LEGEND No.	97-94743	97-94744	97-94745	—	—
Parameter	^{B-11} Under Diesel Island (mg/kg)	^{B-12} Under Gasoline Island (mg/kg)	Methanol Trip Blank (mg/L)	Method Blank (mg/kg)	PQL (mg/kg)
Gasoline range organics	NA	< 5.0	< 5.0	< 5.0	5.0
Methyl-tert-butyl ether	NA	< 0.025	< 0.025	< 0.025	0.025
Benzene	< 0.025	< 0.025	< 0.025	< 0.025	0.025
Toluene	< 0.025	< 0.025	< 0.025	< 0.025	0.025
Ethyl benzene	< 0.025	< 0.025	< 0.025	< 0.025	0.025
Total xylenes	< 0.025	< 0.025	< 0.025	< 0.025	0.025
Surrogate Recovery	86.4	95.5	95.9	96.4	—
Date Analyzed	11/17/97	11/17/97	11/17/97	11/17/97	—
Diesel range organics	< 8.0	NA	NA	< 8.0	8.0
Date Preserved	11/07/97	—	—	—	—
Date Extracted	11/14/97	—	—	11/14/97	—
Date Analyzed	11/18/97	—	—	11/14/97	—
Solids (Percent)	87	86	—	100	—

< = Less than the number shown
 mg/kg is equal to parts-per-million (dry weight basis)
 PQL = Practical quantitation limit
 NA = Not analyzed for this parameter
 mg/L is equivalent to parts-per-million


 Chris Bremer
 Laboratory Manager


 Sharon Cenis
 Project Manager

LEGEND TECHNICAL SERVICES, INC.

775 Vandalia Street, St. Paul, MN 55114 - Telephone: 612/642-1150 Fax: 612/642-1239

CHAIN-OF-CUSTODY RECORD

Client Name: City of Minneapolis
 Report To: Engineering Laboratory
1901 E. 26th St Minneapolis, MN 55404
 Attn: Paul Wroble
 Sampled By: Paul Wroble
 Project No.: 1911 E 26th St

Laboratory Project No.: 97-4021
 Turnaround Time: _____
 Normal Date Needed: _____
 Rush Date Needed: _____
 Condition Received: _____

Analysis/# of Containers: _____
 P I D F I N G S
 I D F I E L S
DR
Misture

Item No.	Field ID No.	Sample Description	Collection		Sample Matrix	Lab ID No.
			Date	Time		
1	1	East End Tank Bedding	10/27/97	1421	Soil	97-93741
2	2	West End Tank Bedding	10/27/97	1428	Soil	93750
3	3	West End Bottom of New Exc.	10/28/97	1105	Soil	93751
4	4	East End Bottom of New Exc.	10/28/97	1155	Soil	93752
5						
6						
7						
8						
9						
10						
11						
12						
13						

Transfer No.	Item No.	Relinquished By	Accepted By	Date	Time	Comments
1		<u>Paul Wroble</u>	<u>Theresa Sass</u>	<u>10/30/97</u>	<u>8:37</u>	
2						
3						
4						

LEGEND TECHNICAL SERVICES, INC.

775 Vandalia Street, St. Paul, MN 55114 - Telephone: 612/642-1150 Fax: 612/642-1239

CHAIN-OF-CUSTODY RECORD

Client Name: <u>City of Minneapolis</u> Report To: <u>Engineering Laboratory</u> <u>1901 E. 26th St</u> <u>MP, MN</u> <u>55404</u> Attn: <u>Paul Wash</u> Sampled By: <u>Paul Wash</u> Project No.: <u>1911 E 26th St</u>	Laboratory Project No.: <u>97-4021</u> Turnaround Time: _____ <input checked="" type="checkbox"/> Normal Date Needed: _____ <input type="checkbox"/> Rush Date Needed: _____ Condition Received: _____	Analysis/# of Containers: P R E A D I N G S I D F I E L D S <div style="text-align: right; font-size: 2em; font-weight: bold;">BTEX</div>
--	--	--

Item No.	Field ID No.	Sample Description	Collection		Sample Matrix	Lab ID No.	Analysis
			Date	Time			
1	1A	E. End Tank Bedding	10/27/97	1434	Soil	97-93885	✓
2	2A	W. End Tank Bedding	"	1435	Soil	97-93886	✓
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							

Transfer No.	Item No.	Relinquished By	Accepted By	Date	Time	Comments
1		<u>Paul Wash</u>	<u>Sheresa Sasa</u>	10/30/97	12:17 pm	<u>Did on sep.</u>
2						
3						
4						

LEGEND TECHNICAL SERVICES, INC.

775 Vandalia Street, St. Paul, MN 55114 - Telephone: 612/642-1150 Fax: 612/642-1239

CHAIN-OF-CUSTODY RECORD

Client Name: <u>City of Minneapolis</u> Report To: <u>Engineering Laboratory</u> <u>1901 E. 26th St E Mpls, Mn 55404</u> Attn: <u>Paul Urseth</u> Sampled By: <u>Paul Urseth</u> Project No.: <u>19M E 26th St</u>	Laboratory Project No.: <u>97-4107</u> Turnaround Time: _____ <input checked="" type="checkbox"/> Normal Date Needed: _____ <input type="checkbox"/> Rush Date Needed: _____ Condition Received: _____	Analysis/# of Containers: P R E A D I N G S I D F I E L D S GRD BETX MTBE F6 Moisture
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Item No.	Field ID No.	Sample Description	Collection		Sample Matrix	Lab ID No.
			Date	Time		
1	1	South End under Tank	10/31/97	0942	Soil	97-94330
2	2	North End under Tank	10/31/97	0950	Soil	97-94331
3	3	South End under new Tank	11/3/97	1305	Soil	97-94332
4	4	North End under new Tank	11/3/97	1308	Soil	97-94333
5	5	Soil from contaminated soil pile	11/4/97	0805	Soil	97-94334
6	6	" " " "	11/4/97	0808	Soil	97-94335
7						
8						
9						
10						
11						
12						
13						

Transfer No.	Item No.	Relinquished By	Accepted By	Date	Time	Comments
1		Paul Urseth	Paul Urseth	11/4/97	10:00	
2						
3						
4						

LEGEND TECHNICAL SERVICES, INC.

775 Vandalia Street, St. Paul, MN 55114 - Telephone: 612/642-1150 Fax: 612/642-1239

CHAIN-OF-CUSTODY RECORD

Client Name: <i>City of Minneapolis</i> Report To: <i>Engineering Laboratory</i> <i>1911 E. 26th St</i> <i>Mpls, Mn 55404</i> Attn: <i>Paul Wreck</i> Sampled By: <i>Paul Wreck</i> Project No.: <i>1911 E 26th St (Fuel Island)</i>	Laboratory Project No.: <i>97-9157</i> Turnaround Time: <input checked="" type="checkbox"/> Normal Date Needed: _____ <input type="checkbox"/> Rush Date Needed: _____ Condition Received: <input checked="" type="checkbox"/> Received on Ice	Analysis/# of Containers: P R E A D I N G S I D F I E L D DRO BTEX GRO/BTX, MTE Moisture
--	---	--

Item No.	Field ID No.	Sample Description	Collection		Sample Matrix	Lab ID No.
			Date	Time		
1	1	<i>Under Diesel Island</i>	<i>11/7/97</i>	<i>0945</i>	<i>Sed</i>	<i>94743</i>
2	2	<i>" " "</i>	<i>11/7/97</i>	<i>0947</i>	<i>Sed</i>	<i>94744</i>
3	3	<i>Under Gasoline Island</i>	<i>11/7/97</i>	<i>1012</i>	<i>Sed</i>	<i>94745</i>
4						
5		<i>METH Trig Blank</i>				
6						
7						
8						
9						
10						
11						
12						
13						

Transfer No.	Item No.	Relinquished By	Accepted By	Date	Time	Comments
1		<i>Paul Wreck</i>	<i>Theresa Sarr</i>	<i>11/7/97</i>	<i>10:38am</i>	
2						
3						
4						

**CITY OF MINNEAPOLIS PAVING LAB
SOIL BORING LOG**

Project Name: Fuel Tank Soil Exploration Boring Number: 2 Page 1 of 2

Project Location: 1911 E 26th St (East Tank) Date: 17-JAN-96

Prepared by: P. Urseth Soil Boring Measurements

Drafted by: P. Urseth Boring Time Total Cave-in Water

Method: Continuous Sampler STS Begin End Depth Depth Level

Elevation (NGVD) 09:45 14:00 23.5 23.0

Depth in Feet	Description of Material ASTM D2488	Symbol ASTM D2487	Moisture WL	Sample No.	PID Instrument (ppm): HNu		Odor Detection				
					Bkgrnd	HD. Spac	N	W	M	S	
				No Sample							
				1		N.D.	X				
5				2		N.D.	X				
				3		N.D.	X				
10	Brown Sand	SP		4		N.D.	X				
				5		0.6					X*
15				6		N.D.	X				
				7		N.D.	X				
20				8		N.D.	X				

* Additional samples were collected for analysis. Continued.

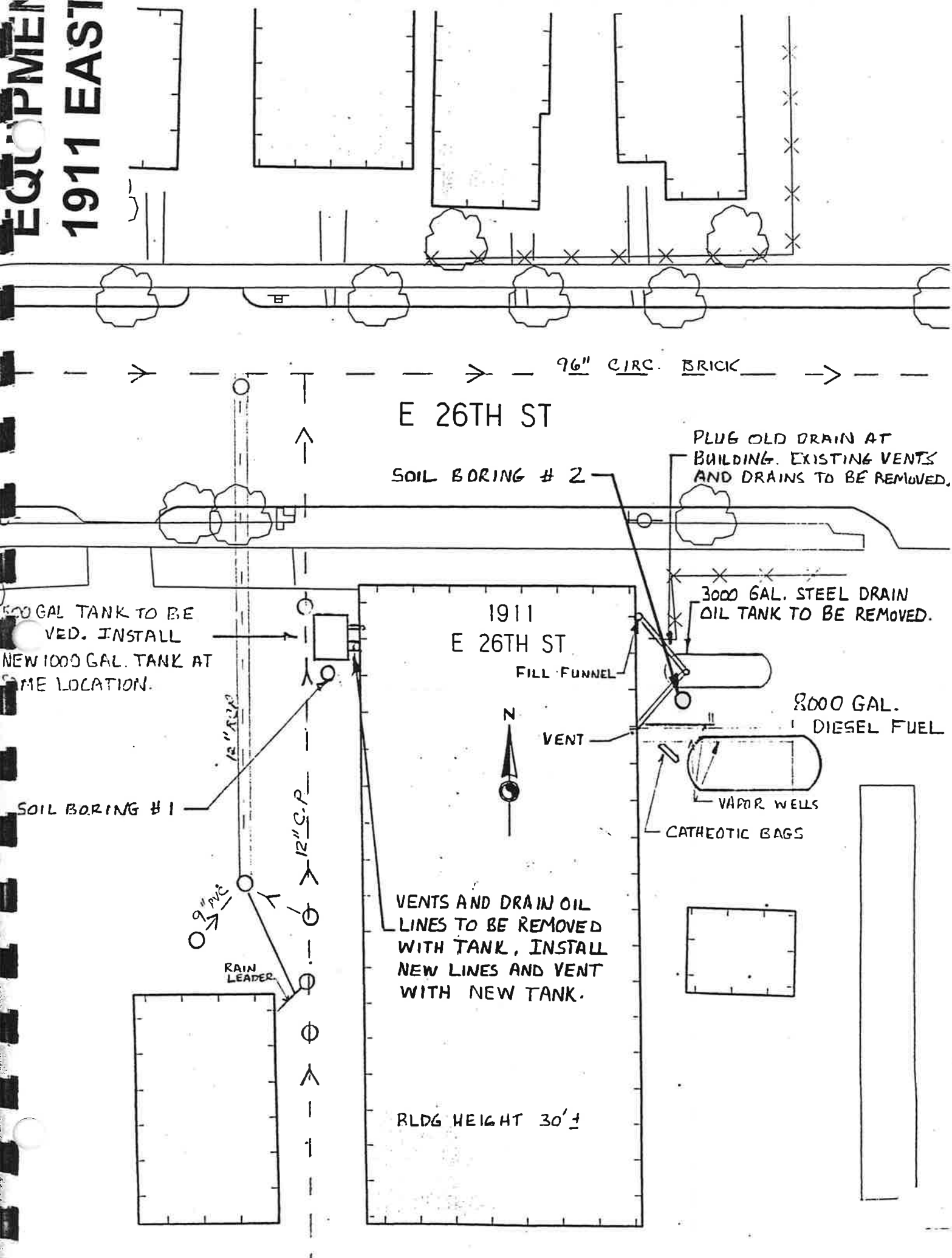
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CITY OF MINNEAPOLIS PAVING LAB SOIL BORING LOG

Project Name: Fuel Tank Soil Exploration			Boring Number: 2			Page 2 of 2					
Project Location: 1911 E 26th St (East Tank)			Date: 17-JAN-96								
Prepared by: P. Urseth			Soil Boring Measurements								
Drafted by: P. Urseth			Boring Time		Total	Cave-in	Water				
Method: Continuous Sampler STS			Begin	End	Depth	Depth	Level				
Elevation (NGVD)			09:45	14:00	23.5		23.0				
Depth in Feet	Description of Material ASTM D2488	Symbol ASTM D2487	Moistur WL	Sample No.	PID Insrument (ppm): HNu		Odor Detection				
					Bkgrnd	HD. Spac	N	W	M	S	
	Brown Sand	SP		8		N.D.	X				
				9		N.D.	X				
	Water Table										
25											

(41)

EQUIPMENT
1911 EAST



96" CIRC. BRICK
E 26TH ST

SOIL BORING # 2

PLUG OLD DRAIN AT BUILDING. EXISTING VENTS AND DRAINS TO BE REMOVED.

1000 GAL TANK TO BE REMOVED. INSTALL NEW 1000 GAL. TANK AT SAME LOCATION.

1911
E 26TH ST

3000 GAL. STEEL DRAIN OIL TANK TO BE REMOVED.

FILL FUNNEL

2000 GAL. DIESEL FUEL



VENT

SOIL BORING # 1

VAPOR WELLS

CATHODIC BAGS

12" R.C.P.
12" R.C.P.
9" PVC
RAIN LEADER

VENTS AND DRAIN OIL LINES TO BE REMOVED WITH TANK, INSTALL NEW LINES AND VENT WITH NEW TANK.

BLDG HEIGHT 30'±



Minnesota Pollution Control Agency

February 27, 1998

Mr. Paul Ogren
City of Minneapolis
Department of Public Works
1901 East 26th Street
Minneapolis, Minnesota 55404-4028

RE: Petroleum Tank Release Site File Closure
Site: City of Minneapolis Public Works, 1911 East 26th Street, Minneapolis
Site ID#: LEAK00003790

Dear Mr. Ogren:

We are pleased to let you know that the Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section (TERS) staff has determined that your investigation and/or cleanup has adequately addressed the petroleum tank release at the site listed above. Based on the information provided, the TERS staff has closed the release site file.

Closure of the file means that the TERS staff does not require any additional investigation and/or cleanup work at this time or in the foreseeable future. Please be aware that file closure does not necessarily mean that all petroleum contamination has been removed from this site. However, the TERS staff has concluded that any remaining contamination, if present, does not appear to pose a threat to public health or the environment.

The MPCA reserves the right to reopen this file and to require additional investigation and/or cleanup work if new information or changing regulatory requirements make additional work necessary. If you or other parties discover additional contamination (either petroleum or nonpetroleum) that was not previously reported to the MPCA, Minnesota law requires that the MPCA be immediately notified.

You should understand that this letter does not release any party from liability for the petroleum contamination under Minn. Stat. ch. 115C (Supp. 1997) or any other applicable state or federal law. In addition, this letter does not release any party from liability for nonpetroleum contamination, if present, under Minn. Stat. ch. 115B (1996), the Minnesota Superfund Law.

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which may provide partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Department of Commerce Petro Board. Specific eligibility rules are available from the Petro Board at 612/297-1119 or 612/297-4203.

If future development of this property or the surrounding area is planned, it should be assumed that petroleum contamination may still be present. If petroleum contamination is encountered during future development work, the MPCA staff should be notified immediately.

520 Lafayette Rd. N.; St. Paul, MN 55155-4194; (612) 296-6300 (Voice); (612) 282-5332 (TTY)

Regional Offices: Duluth • Brainerd • Detroit Lakes • Marshall • Rochester

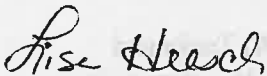
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Mr. Paul Ogren
Page 2
February 27, 1998

For specific information regarding petroleum contamination that may remain at this leak site, please call the TERS File Request Program at 612/297-8499. The MPCA fact sheet #3.35 *Leak/Spill and Underground Storage Tank File Request Form* (August 1997) must be completed prior to arranging a time for file review.

Thank you for your response to this petroleum tank release and for your cooperation with the MPCA to protect public health and the environment. If you have any questions regarding this letter, please call me at 612/297-8580.

Sincerely,



Chris McLain
Project Manager
Cleanup Unit I
Tanks and Emergency Response Section

For

CLM:lh

cc: Dave Ziemer, Minneapolis Pollution Control Division, Minneapolis
Greg Lie, Hennepin County Solid Waste Officer
Minnesota Department of Commerce, Petrofund Staff



Minnesota Pollution Control Agency

November 22, 1996

Mr. William Gauthier
Equipement Services
1300 Currie Avenue North
Minneapolis Minnesota 55403

RE: Petroleum Tank Release/No Corrective Action Required
Site: City of Minneapolis, 1911 East 26th Street, Minneapolis
Site ID: LEAK00003790

Dear Mr. Gauthier:

The Minnesota Pollution Control Agency (MPCA) Tanks and Emergency Response Section (TERS) staff has reviewed the information provided by you in the report, dated November 1, 1996, for the above-referenced site.

Based on the lack of contamination reported, the MPCA TERS staff will not require an additional investigation or corrective action at this time for the petroleum contamination described above. MPCA staff reserves the right to reopen this file and require additional work if in the future more work is determined by MPCA staff to be necessary. If you, or other parties later come upon any evidence of contamination other than what was previously reported, you are required by Minnesota law to notify the MPCA immediately.

The contents of this letter only refer to information reported to the MPCA TERS staff for the activities described above. This letter does not address other types of contamination that may be present at the subject property. This letter does not release any party from liability for the petroleum contamination under Minn. Stat. § 115C. (1994), or any other applicable state or federal law.

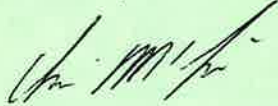
Mr. William Gauthier

Page 2

November 22, 1996

If you have any questions regarding the contents of this letter, please call me at 612/297-8580.

Sincerely,



Chris McLain

Project Manager

Cleanup Unit 1

Tanks and Emergency Response Section

CLM:tf

cc: Greg Lie, Hennepin County Solid Waste Officer



The Minnesota Pollution Control Agency (MPCA) staff will not require an additional investigation or corrective action for the petroleum contamination described above. MPCA staff reserves the right to conduct additional work if it is determined that there is a need for further investigation. If you or other parties have any questions regarding this letter, please contact the MPCA staff at the address above. This letter is not intended to constitute an offer of insurance or any other financial product. The MPCA staff is not a licensed insurance agent.

The Minnesota Pollution Control Agency (MPCA) staff has reviewed the information provided to it on November 1, 1996, for the site described above. Based on the lack of contamination reported, MPCA staff reserves the right to conduct additional work if it is determined that there is a need for further investigation. If you or other parties have any questions regarding this letter, please contact the MPCA staff at the address above. This letter is not intended to constitute an offer of insurance or any other financial product. The MPCA staff is not a licensed insurance agent.