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**UNDERGROUND STORAGE TANK
ABANDONMENT
MILWAUKEE PLATING COMPANY
MILWAUKEE, WISCONSIN**

*880 gallon
BAS*

December 28, 1993

Prepared For:

Milwaukee Plating Company
1434 N. 4th Street
Milwaukee, Wisconsin 53212

Prepared By:

Simon Hydro-Search
Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

Project No.: 366115203



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1.0 EXECUTIVE SUMMARY

Simon Hydro-Search was contracted by Milwaukee Plating Company to abandon in-place an underground storage tank (UST) at their facility at 1434 N. 4th Street, Milwaukee, Wisconsin. The tank was located below the basement floor, and was discovered by Milwaukee Plating in November of 1991. The tank had not been used by Milwaukee Plating since their purchase of the property in 1964. The facility was previously owned by Everbrite Electric, Inc.

The 880-gallon tank was abandoned in-place due to its location underneath the basement floor. The tank was emptied and cleaned on November 1, 1993 and soil samples were collected from native soils surrounding the tank. A sump was installed through the bottom of the tank on November 3 and the tank was then filled with clean sand. A flush-mount cover was placed on the sump and the floor surface was finished with concrete.

Subsequent to cleaning the UST, ground water was observed leaking into the bottom of the tank, indicating that the tank had leaked in the past. Laboratory analyses of soil samples collected from native soils surrounding the tank indicate impacts with weathered leaded gasoline.

Copies of this report should be submitted to the Wisconsin Department of Natural Resources (WDNR) and to the Wisconsin Department of Industry, Labor and Human Relations. A work plan should be developed for submittal to and approval by the WDNR to identify the extent of impacts at the site.

2.0 INTRODUCTION

2.1 Purpose

This report documents the abandonment in-place of an underground storage tank (UST) located beneath the basement floor at Milwaukee Plating Company at their facility at 1434 N. 4th Street, Milwaukee, Wisconsin (Figure 2-1).

2.2 Introduction to Milwaukee Plating Facility

Milwaukee Plating provide zinc, copper, nickel, chrome, silver and tin plating on aluminum products. The facility is located in a building that was previously used by a sign company, Everbrite Electric, Inc. until 1964. The northern lot of the Milwaukee Plating Company was previously occupied by Kepec Paint Company which was destroyed by fire in the late 1960's.

2.3 Background

Milwaukee Plating Company contracted Simon Hydro-Search on November 9, 1989, to remove and abandon underground storage tanks (USTs) at their facility. Company personnel knew of two USTs on the property, which were used to store heating oil. A 3,000-gallon UST located on the southeast side of the site was removed and a 6,400-gallon UST on the east side of the building was abandoned-in-place due to its location under a loading dock (Figure 2-2). In addition, two 250-gallon USTs were located and removed north of the 6,400-gallon UST. Soil directly under the two 250-gallon USTs was tested and found to be free of impacts. Impacted soil was encountered in the vicinity of the 3,000-gallon UST and the 6,400-gallon UST. The UST closure activities were documented in the Simon Hydro-Search report dated May 15, 1990.

In November 30, 1990, a soil and ground-water investigation was conducted to determine the extent of impacts from hydrocarbons at the site. Five boreholes were installed in the public alleyways east and south of the Milwaukee Plating Company facility to determine the extent of soil impacts (Figure 2-2). Three of the boreholes were converted to ground-water monitor wells to evaluate ground-water quality and flow direction at the facility. In addition, a sixth borehole was installed in the northeast corner of the property to evaluate the background soil and ground-water quality.

Two additional monitor wells were installed in July, 1992 north of the site to aid in determining the direction of ground-water flow and upgradient water quality.

In November, 1991, a UST was discovered below the basement of Milwaukee Plating Company. Based upon this discovery, a free product sample from existing monitor well MW-1 and a product sample from the UST was submitted to Global Geochemistry Corporation (GGC) to characterize the type, origin, and source of the products and to attempt to determine if the two products are source-related. Based upon their analysis of the UST product sample, GGC concluded that it consisted primarily of fresh gasoline from dispensers. Their analysis of the product sample from well MW-1 indicated that it is a mixture of gasoline and diesel fuel. GGC also concluded that the MW-1 sample is relatively fresh, appearing to have been released into the environment less than 5 years ago.

In May of 1992, an adjacent property owner, Central Control Alarm Corporation, threatened to file a lawsuit against Milwaukee Plating. This threat came about after Central Control discovered contamination on its property located across the public alley and directly east of Milwaukee Plating's facility. Central Control claimed that as a result of this contamination, it lost a potential purchase for its property.

At the request of the Wisconsin Department of Natural Resources (WDNR), Milwaukee Plating has been removing free product from well MW-1 since September 13, 1993. Product is being removed by bailing. It was originally removed on a daily basis, but because of the small quantity removed, is now being bailed weekly.

2.4 Scope of Work

The scope of work documented in this report is limited to the abandonment in place of the UST discovered beneath the basement floor in November of 1991. The UST in the basement of Milwaukee Plating was emptied, cleaned and abandoned in-place during the week of November 1, 1993. Abandonment procedures, as well as laboratory analytical results are provided in this report.

3.0 DESCRIPTION OF TANK ABANDONMENT ACTIVITIES

3.1 Tank Abandonment Procedures

The gasoline UST was located beneath the basement floor and it was determined that it should be abandoned in-place because of the impracticality of excavation. Prior to abandonment, a UST abandonment permit (Appendix D) was obtained from the City of Milwaukee. As a requirement of the permit, the city of Milwaukee Department of Building Inspection was notified. A building inspector was present for inspection after the tank had been cleaned, and prior to filling the tank with sand.

On Monday, November 1, 1993, abandonment of UST was initiated at Milwaukee Plating Company. Figure 3-1 shows the location of the 880-gallon UST. Personnel present at activity included:

- ◆ Phil Pinkus of the U.S. Environmental Company with two laborers,
- ◆ Gerald DeMers and Dan Davies of Simon Hydro-Search,
- ◆ Ernie Hooks of Milwaukee Plating, and
- ◆ Dan D. Viegut of Dames & Moore representing Central Controls, Inc.

The concrete around the fill cap of the UST was broken using a jack hammer (see Photograph #1, Appendix A). Six inches of concrete was underlain by 2 feet of silty clay soil which covered the steel top of the UST. The silty clay fill was removed and stockpiled (Photograph #2). Two samples of this fill material were collected and analyzed for any volatile organic compounds (VOCs) present. This was accomplished using a headspace analysis utilizing the HNu Model PI-101 photoionization detector (PID) meter equipped with an 11.7 eV probe. All samples of soil were collected as they were removed from the soil outside to the UST. Each sample filled one-half of a 1-pint class jar which was covered with aluminum foil and secured with the cap ring. Soil samples were allowed to volatilize for a minimum of 30 minutes at room temperature (approximately 70°F). The probe was then inserted into the jar's headspace and the total VOCs present were shown on the PID

meter and recorded on Simon Hydro-Search's Field PID Data Form (Appendix D). Laboratory samples were collected at the same time for analysis of gasoline range organics (GROs), VOCs, lead, and percent solids.

The working area was enclosed with plastic sheeting to capture UST vapors and dust (Photograph #3). Vapors from inside the UST were removed by inserting compressed air to displace the vapors out of the UST into an air removal unit which blew them out of an existing exhaust vent to the outside atmosphere (Photographs #4 and #5). When the atmosphere within the tank was reduced to 7% of the lower explosive limit (LEL), removal of a section of the steel UST tank top surface was initiated. The fill pipe was cut off and the top section of the UST was removed (Photographs #8, #9, and #10). Compressed air was also pumped into the UST during cleaning procedures in order to keep the atmosphere below 10% of the LEL (Photograph #11).

Sludge in the bottom of the tank was shoveled out of the tank, and liquids were pumped from the tank. These residuals were containerized in 55-gallon drums. A hydrophobic adsorbent material was distributed throughout the tank to adsorb hydrocarbons. The tank interior was then scraped clean, and the adsorbent material containerized with the sludge and liquid from the bottom of the tank. The solid waste inside the tank consisted of sand saturated by the liquid waste. The liquid appeared to be mostly water mixed with aged gasoline (Photograph #12). A total of approximately 90 gallons of liquid waste and sludge was contained in two 55-gallon steel barrels and appropriately labeled by the U.S. Environmental Company. The solid waste removed from the UST filled one-half of a third 55-gallon steel drum and was also properly labeled.

The interior dimensions of the tank were measured to be 6 feet long and 5 feet in diameter. The calculated capacity of the tank is 880 gallons. The tank was constructed out of 3/16-inch thick steel.

After the tank had been cleaned, liquid was observed seeping into the tank through a rusty portion in the tank bottom (Photographs #13 and #14). As about 8 inches of liquid was

originally present in the tank, it is assumed that the ground-water surface was approximately 8 inches above the bottom of the UST.

Holes were drilled in each end of the UST approximately 1 foot above the UST bottom. Holes were drilled at these levels to collect soil samples above the water table, and to prevent the tank from filling with ground water overnight. Soil samples were collected from each end of the UST approximately 1 foot from the outside surface of the tank using a hand-hammered Shelby tube.

On November 2, 1993 following approval by the city inspector to abandon the UST in-place, a section of the steel was cut out of the bottom of the UST directly below the top opening (Photograph #15). When this section of the tank bottom was removed, several holes due to corrosion were observed (Photograph #16). An access hole was also drilled into the north wall of the UST and a soil sample was collected in the same manner as the samples collected from each end.

A sump approximately 1-foot deep was dug out below the bottom of the tank. The excavated soil was removed and containerized. A soil sample was then collected at this location (Photograph #17).

An 8-foot length of 1.05-foot outside diameter, 0.98-foot inside diameter, schedule 80 polyvinylchloride (PVC) pipe with a 3-foot long factory cut 0.010-inch screen section (Photograph #18) was placed into the sump below the UST. The top of the PVC pipe was 2 inches below the concrete floor surface. Clean concrete that was removed to gain entry to the UST was placed in the eastern half of the tank bottom. Sand was then brought in to backfill the UST (Photograph #19). A flush-mount steel protective top was installed over the PVC sump and concrete was used to complete the floor repair and sump installation. (Photograph #20). Pipes leading to the tank from the east wall of the facility were cut and filled with hydrocarbon absorption towels or concrete.

Soil removed during UST abandonment that was not impacted was spread over the backfill area of the former 3,000-gallon UST excavation on the south end of the building.

3.2 Analytical Results

Soil samples were submitted to NET Laboratory in Watertown, Wisconsin for the analysis of VOCs (EPA Method 8021), diesel range organics (DROs), gasoline range organics (GROs), lead, and total solids. Analytical results from soil samples are provided in Appendix B, and are summarized on Table 3-1.

All of the soil samples collected exhibited impacts by petroleum hydrocarbons. GRO ranged from <5 mg/kg (parts per million) in the sample from the west wall to 260 mg/kg in the sample from the north wall. DRO ranged from 6.6 mg/kg in the sample from the west wall to 380 mg/kg in the east wall. Total VOCs ranged from 8.9 mg/kg in the west wall to 152 mg/kg in the sample from beneath the tank. The most prevalent VOC present in sample from the north wall and sample from beneath the tank was 1,2,4-trimethylbenzene, which was present at concentrations of about 90 mg/kg in both of these samples.

The VOCs detected in soil samples from the UST at Milwaukee Plating are compared to the components of fuel oil, leaded and unleaded gasoline in Table 3-2. All of the compounds detected are components of leaded gasoline; only 6 of the 11 compounds are present in fuel oil, and only 5 of them are present in unleaded gasoline.

The compounds detected were compared with a listing of the components of fresh and weathered gasoline (Johnson, et al.; Table 3-3). This reference indicates that the predominant VOCs from the EPA Method 8021 list in weathered gasoline are xylenes, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene, respectively. The predominant VOCs in fresh gasoline are xylenes, n-propylbenzene and toluene. While gasolines from different sources will vary significantly as to their components, the VOCs detected in soil samples from the UST at Milwaukee Plating are more similar to the makeup of weathered gasoline

than to fresh gasoline. This is contrary to the analyses performed by GGC on a sample collected from the tank in 1991.

3.3 Waste Disposal

Sludge and liquids generated from cleaning the tank were containerized on-site. Disposal arrangements were made through Superior Environmental Services Hazardous Waste Group, Inc. of Port Washington, Wisconsin. Manifests for disposal will be submitted to the WDNR upon receipt from Superior.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the closure activities, the following conclusions can be made:

1. The 880-gallon tank had contained leaded gasoline. The tank was last known to be used in 1964.
2. Soil impacts were determined to be present in the soils adjacent to the tank. The compounds detected are typical of weathered gasoline.
3. A sump was installed through the bottom of the tank to assist in future remediation of the site.

As a result of closure activities at this site, Simon Hydro-Search recommends that an investigation be conducted to determine the extent of petroleum impacts at the site. Due to the presence of floating product observed in well MW-1, the WDNR has classified this as a high priority site. A work plan for future site investigation and evaluation of remedial alternatives should be prepared and submitted to the WDNR for approval.

5.0 REFERENCES

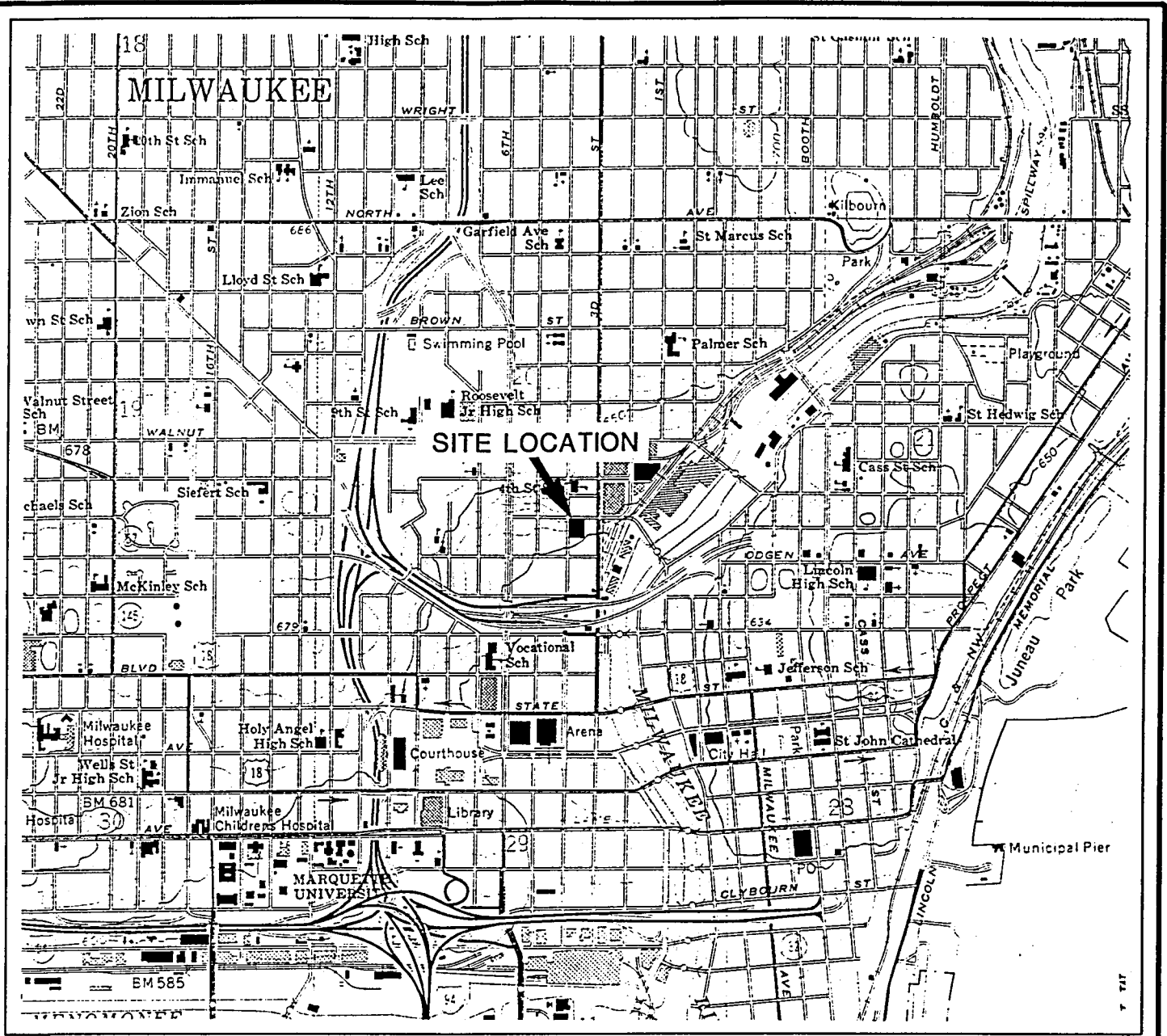
Dragun, James, The Soil Chemistry of Hazardous Materials, 1988.

Hydro-Search, Inc., Soil and Ground-Water Investigations, Milwaukee Plating Company,
November 21, 1991.

Hydro-Search, Inc., Underground Storage Tank Closures and Remediation, Milwaukee
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Johnson, P.C., Stanley, C.C., Kemblowski, M.W., Byers, D.L., and Colthart, J.D., "A Practical
Approach to the Design, Operation, and Monitoring of In Situ Soil-Venting Systems,"
Groundwater Monitoring Review, Spring 1990.

FIGURES



SCALE

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL



MILE



MILWAUKEE, WIS.

SW/4 MILWAUKEE 15' QUADRANGLE
N4300-W8752.5/7.5



QUADRANGLE LOCATION

1958
PHOTOREVISED 1971
AMS 3470 III SW-SERIES V861



Hydro-Search, Inc.
HYDROLOGISTS
GEOLOGISTS
ENGINEERS

Reno Denver Milwaukee Irvine

MILWAUKEE PLATING CO.
MILWAUKEE, WISCONSIN

**SITE LOCATION
AND
LOCAL TOPOGRAPHY**



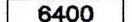



PROJECT: 366E12433

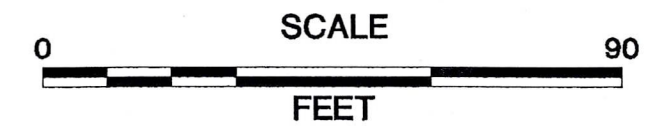
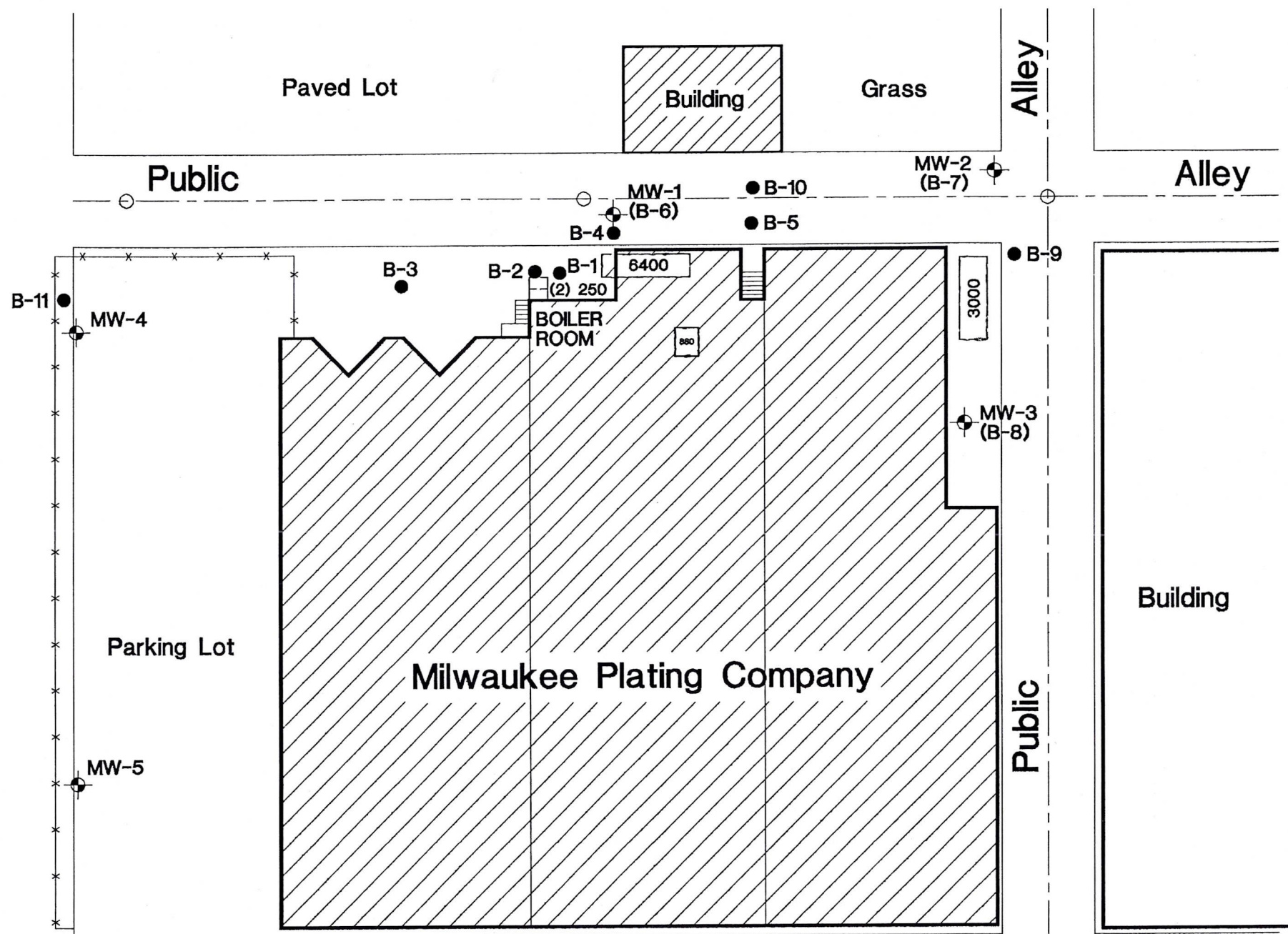
DATE: 12/13/89


REVISION DATE:

FIGURE 2-1

EXPLANATION

- MW-1  MONITOR WELL LOCATION AND DESIGNATION
- B-6  BOREHOLE LOCATION AND DESIGNATION
-  6400 FORMER UNDERGROUND STORAGE TANK LOCATION (SIZE IN GALLONS)
-  SEWER MANHOLE
-  COMBINED SEWER
-  CHAIN-LINK FENCE



		MILWAUKEE PLATING CO. MILWAUKEE, WISCONSIN	
Brookfield Lakes Corporate Center XII 175 N. Corporate Drive, Suite 100 Brookfield, Wisconsin 53045		<h2>SITE LAYOUT</h2>	
Dsgn. by: <i>RAG</i>	Chk. by: <i>GLD</i>	Apprv. by: <i>DLN</i>	
PROJECT: 366115203	DATE: 12/29/93	DRAWING: 1520-b2	FIGURE: 2-2

B-5

B-4

B-1

6400

12.5

Fill Pipe

BOILER ROOM

EW

NW

880

WF

WW

EXPLANATION

NW SOIL SAMPLE LOCATION AND DESIGNATION

B-6 • BOREHOLE LOCATION AND DESIGNATION

[6400] FORMER UNDERGROUND STORAGE TANK LOCATION (SIZE IN GALLONS)



SCALE



SIMON HYDRO-SEARCH

Brookfield Lakes Corporate Center XII
175 N. Corporate Drive, Suite 100
Brookfield, Wisconsin 53045

MILWAUKEE PLATING CO.
MILWAUKEE, WISCONSIN

TANK SAMPLING LOCATIONS

Dsgn. by: *RAG* Chk. by: *GLD* Apprv. by: *DLM*

PROJECT: 366115203

DATE: 12/29/93

DRAWING: 1520-a1

FIGURE: 3-1

TABLES

Table 3-1. Soil Sampling Results

COMPOUND	SOIL CONCENTRATION (mg/kg)			
	WEST WALL	EAST WALL	NORTH WALL	WEST FLOOR
Benzene	0.32	<0.50	<0.50	7.7
n-Butylbenzene	1.1	2.0	5.7	2.4
sec-Butylbenzene	<0.10	<0.50	0.51	0.19
Ethylbenzene	0.34	0.76	1.4	5.6
Isopropylbenzene	<0.10	<0.50	0.32	0.68
p-Isopropyltoluene	0.42	<0.50	0.28	<0.10
Naphthalene	0.85	1.5	1.9	0.97
n-propylbenzene	1.2	1.4	1.5	1.9
Toluene	0.32	0.38	0.11	13
1,2,4-Trimethylbenzene	0.98	2.1	93	90
1,3,5-Trimethylbenzene	2.3	1.5	3.7	3.1
Xylenes	1.1	2.4	4.5	26
TOTAL VOCs:	8.93	12.04	112.92	151.54
Gasoline Range Organics	<5.0	170	260	110
Diesel Range Organics	6.6	380	190	27
Lead	41	58	42	40

Table 3-2. Components of Petroleum Products

COMPOUNDS DETECTED IN SOIL SAMPLES	COMPOUND CAN BE PRESENT IN		
	FUEL OIL	LEADED GASOLINE	UNLEADED GASOLINE
Benzene	X	X	X
n-Butylbenzene		X	
sec-Butylbenzene		X	
Ethylbenzene	X	X	X
Isopropylbenzene	X	X	
Naphthalene	X	X	
n-propylbenzene		X	
Toluene	X	X	X
1,2,4-Trimethylbenzene		X	X
1,3,5-Trimethylbenzene		X	
Xylenes	X	X	X

Source: Table 9-16 of *The Soil Chemistry of Hazardous Materials*, James Dragun, 1988.

Note: p-Isopropyltoluene was also detected in soil samples collected at this site, but is not listed among the components of petroleum products provided in the above reference.

Table 3-3. Composition Fractions of Fresh and Weathered Gasoline

COMPOUNDS	PERCENT FRACTION OF U.S. EPA METHOD 8021 VOCS IN	
	FRESH GASOLINE	WEATHERED GASOLINE
Benzene	2.5	0.8
Toluene	17.8	13.3
Ethylbenzene	0	4.8
Xylenes	30.9	29.6
n-propylbenzene	27.2	4.3
1,3,5-Trimethylbenzene	13.3	18.2
1,2,4-Trimethylbenzene	6.9	26.1
Naphthalene	1.5	2.8
TOTAL:	100.1	99.9

Adapted from "A Practical Approach to the Design, Operations and Monitoring of In Situ Soil-Venting Systems," P.C. Johnson, et al., Groundwater Monitor Review, Spring 1990

APPENDIX A
PHOTODOCUMENTATION

PHOTODOCUMENTATION

<u>Photo #</u>	<u>Description</u>
1.	Removal of concrete, facing east.
2.	Removal of silty clay soil above UST, facing east.
3.	Enclosure of working area with exhaust fan, facing east.
4.	Compressed air being pumped into UST, facing west.
5.	Compressed air being pumped into UST, facing east.
6.	Removal of UST top wall section, facing east
7.	Removal of UST top wall section, facing south.
8.	Tripod set up, facing east.
9.	Lowering employee with supplied air into UST, facing north.
10.	Employee inside UST, facing east.
11.	Compressed air pumped into UST, facing east.
12.	Saturated sand from UST bottom.
13.	Liquid seeping into UST near bottom, facing north.
14.	Liquid seeping into UST near bottom, facing north.
15.	Section of UST bottom wall removed, facing north.
16.	Rust holes in bottom section removed from UST.
17.	Sample and sump bottom location, west end of UST visible on left.
18.	Eight-foot length of PVC sump with screen and bottom piece.
19.	Backfilling UST with sand, facing east.
20.	Protective steel flush-mount installed.



1



2

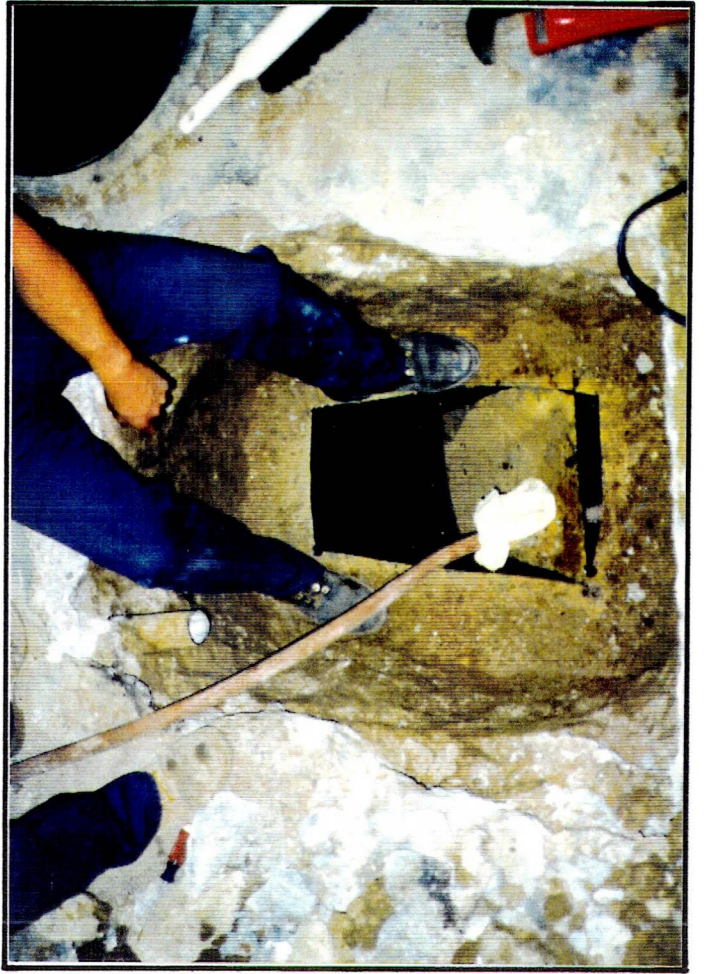


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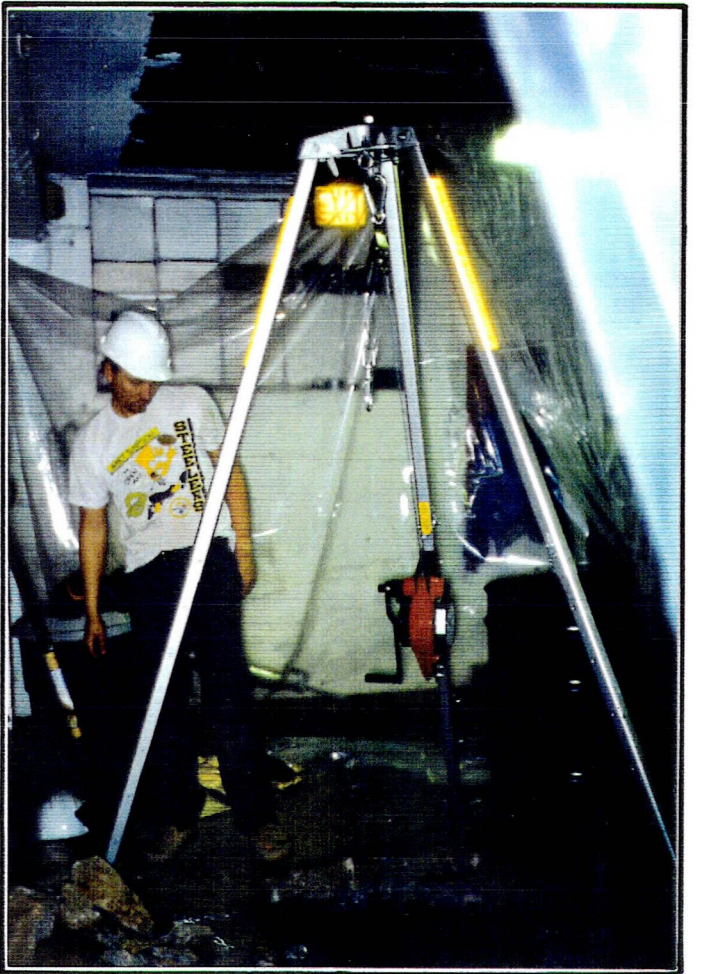
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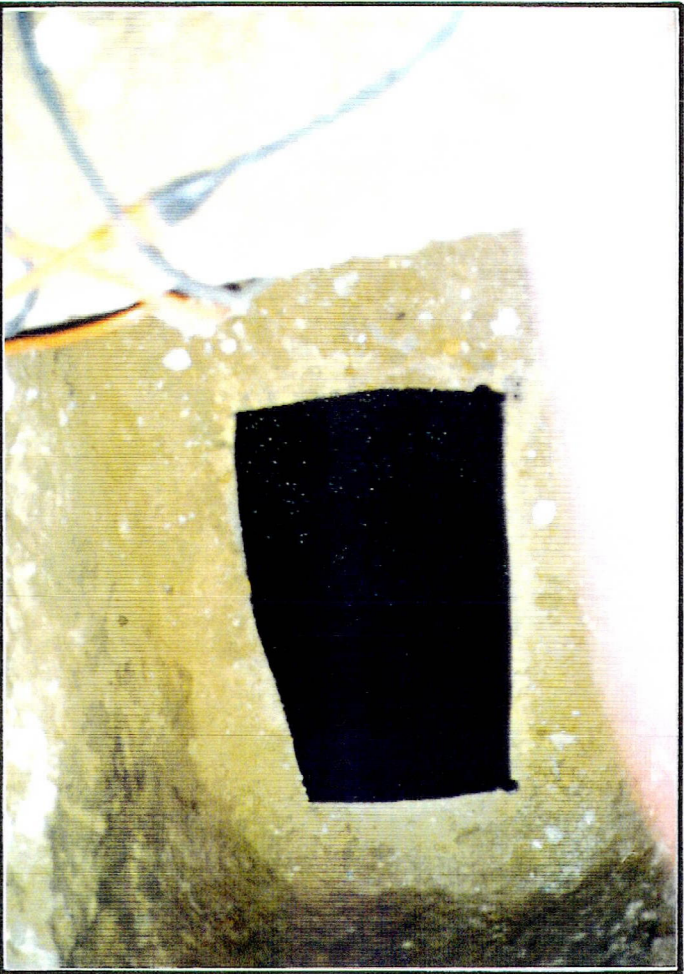
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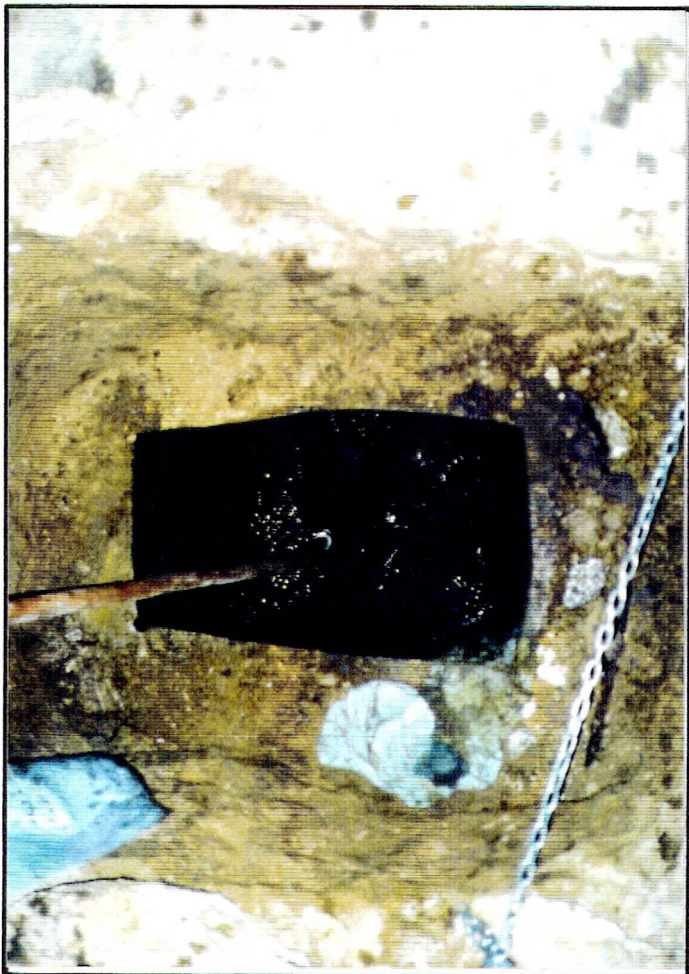




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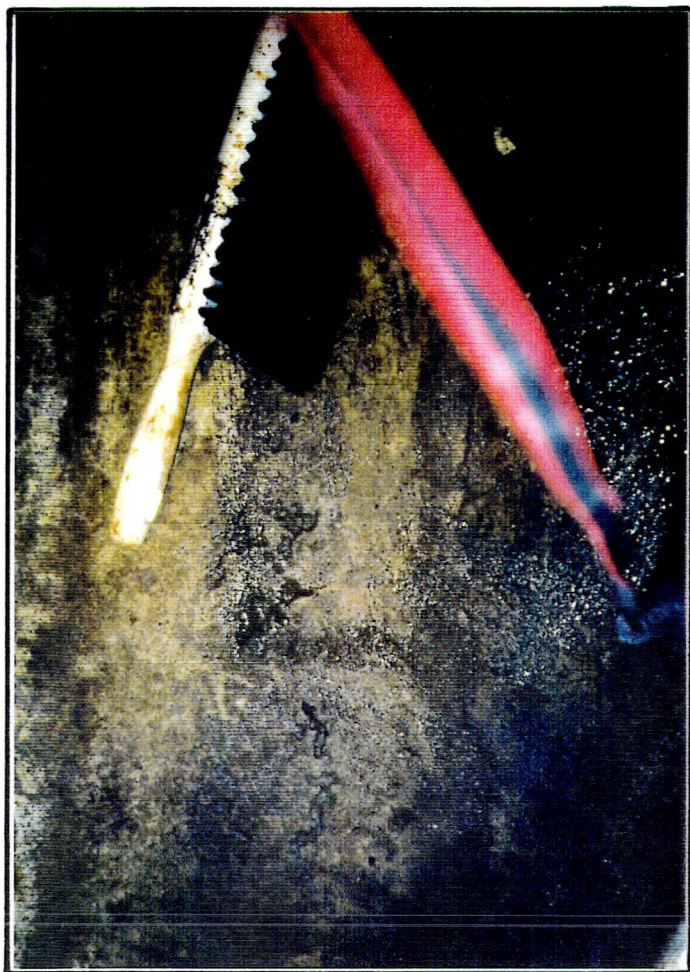
10



11



12



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13



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14



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15



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16



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17



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18



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19



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20

**APPENDIX B
LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY FORMS**



NATIONAL ENVIRONMENTAL TESTING, INC.

NOV 24 1993
RECEIVED
HSI - BROOKFIELD

Watertown Division
802 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

MASTER FILE COPY

PROJECT # 366115203

CC: _____

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job Number: 93.05425
Page 1

The following samples were received by NET for analysis:

Sample Number	Sample Description	Date Taken
83497	Waste-UST-1000	11/01/1993
83498	B-Waste-UST #366115203	11/01/1993
83499	WW - 6.0 #366115203	11/01/1993
83500	EW - 6.0 #366115203	11/01/1993
83501	NW - 4.5 #366115203	11/03/1993
83502	WF - 7.5 #366115203	11/03/1993

The above sample(s) may have a result flag shown on the report. The following are the result flag definitions:

- A = Analyzed past hold time
- C = Standard outside of control limits
- E = Extracted past hold time
- G = Received past hold time
- I = Improperly handled sample
- M = Matrix interference
- S = Sediment present
- X = Unidentified compound(s) present
- B = Blank is contaminated
- D = Diluted for analysis
- F = Sample filtered in lab
- H = Late eluting hydrocarbons present
- J = Estimated concentration
- P = Improperly preserved sample
- T = Does not match typical pattern





ANALYTICAL REPORT

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job No: 93.05425
Sample No: 83497
Account No: 66000
Page 2

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: Waste-UST-1000
Recv'd 4.5 C

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Lead, AA	1.5	mg/L	11/18/1993
DRO Extraction	11/08/93		11/08/1993
GRO - Aqueous	H 388,000	ug/L	11/11/1993
VOC - AQUEOUS - EPA 8021			
Benzene	3,900	ug/L	11/10/1993
Bromobenzene	<500	ug/L	11/10/1993
Bromochloromethane	<500	ug/L	11/10/1993
Bromodichloromethane	<500	ug/L	11/10/1993
Bromoform	<1,000	ug/L	11/10/1993
Bromomethane	<2,000	ug/L	11/10/1993
n-Butylbenzene	30,000	ug/L	11/10/1993
sec-Butylbenzene	2,400	ug/L	11/10/1993
tert-Butylbenzene	<500	ug/L	11/10/1993
Carbon Tetrachloride	<500	ug/L	11/10/1993
Chlorobenzene	<500	ug/L	11/10/1993
Chlorodibromomethane	<500	ug/L	11/10/1993
Chloroethane	<2,000	ug/L	11/10/1993
Chloroform	<500	ug/L	11/10/1993
Chloromethane	<2,000	ug/L	11/10/1993
2-Chlorotoluene	<500	ug/L	11/10/1993
4-Chlorotoluene	<500	ug/L	11/10/1993
1,2-Dibromo-3-Chloropropane	<1,000	ug/L	11/10/1993
1,2-Dibromoethane (EDB)	<500	ug/L	11/10/1993
Dibromomethane	<500	ug/L	11/10/1993
1,2-Dichlorobenzene	<500	ug/L	11/10/1993
1,3-Dichlorobenzene	<500	ug/L	11/10/1993
1,4-Dichlorobenzene	<500	ug/L	11/10/1993
Dichlorodifluoromethane	<1,500	ug/L	11/10/1993
1,1-Dichloroethane	<500	ug/L	11/10/1993
1,2-Dichloroethane	<500	ug/L	11/10/1993
1,1-Dichloroethene	<1,000	ug/L	11/10/1993
cis-1,2-Dichloroethene	<500	ug/L	11/10/1993
trans-1,2-Dichloroethene	<500	ug/L	11/10/1993
1,2-Dichloropropane	<500	ug/L	11/10/1993

Brian D. DeJong
Brian D. DeJong, Organic Project Manager
Certification No.128053530





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ANALYTICAL REPORT

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job No: 93.05425
Sample No: 83497
Account No: 66000
Page 3

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: Waste-UST-1000
Recv'd 4.5 C

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
1,3-Dichloropropane	<500	ug/L	11/10/1993
2,2-Dichloropropane	<500	ug/L	11/10/1993
1,1-Dichloropropene	<500	ug/L	11/10/1993
cis-1,3-Dichloropropene	<500	ug/L	11/10/1993
trans-1,3-Dichloropropene	<500	ug/L	11/10/1993
Ethylbenzene	29,000	ug/L	11/10/1993
Hexachlorobutadiene	<1,000	ug/L	11/10/1993
Isopropylbenzene	4,600	ug/L	11/10/1993
p-Isopropyltoluene	880	ug/L	11/10/1993
Methylene Chloride	<2,500	ug/L	11/10/1993
Naphthalene	18,000	ug/L	11/10/1993
n-Propylbenzene	19,000	ug/L	11/10/1993
Styrene	<500	ug/L	11/10/1993
1,1,1,2-Tetrachloroethane	<500	ug/L	11/10/1993
1,1,2,2-Tetrachloroethane	<500	ug/L	11/10/1993
Tetrachloroethene	<500	ug/L	11/10/1993
Toluene	18,000	ug/L	11/11/1993
1,2,3-Trichlorobenzene	<500	ug/L	11/10/1993
1,2,4-Trichlorobenzene	<500	ug/L	11/10/1993
1,1,1-Trichloroethane	<500	ug/L	11/10/1993
1,1,2-Trichloroethane	<500	ug/L	11/10/1993
Trichloroethene	<500	ug/L	11/10/1993
Trichlorofluoromethane	<2,000	ug/L	11/10/1993
1,2,3-Trichloropropane	<500	ug/L	11/10/1993
1,2,4-Trimethylbenzene	28,000	ug/L	11/11/1993
1,3,5-Trimethylbenzene	28,000	ug/L	11/10/1993
Vinyl Chloride	<1,500	ug/L	11/10/1993
Xylenes, Total	41,000	ug/L	11/11/1993
Methyl-t-butyl ether	<500	ug/L	11/10/1993
DRO - AQUEOUS	920	mg/L	11/14/1993

Brian DeJong
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ANALYTICAL REPORT

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11/22/1993
Job No: 93.05425
Sample No: 83498
Account No: 66000
Page 4

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: B-Waste-UST #366115203
Recv'd 4.5 C

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Solids, Total	88.6	%	11/16/1993
Lead, AA	64	mg/kg	11/18/1993
DRO Extraction	11/05/93		11/17/1993
GRO - Nonaqueous	H 122,000	mg/kg	11/12/1993
VOC NONAQUEOUS - EPA 8021			
Benzene	130	mg/kg	11/15/1993
Bromobenzene	<50	mg/kg	11/15/1993
Bromochloromethane	<50	mg/kg	11/15/1993
Bromodichloromethane	<50	mg/kg	11/15/1993
Bromoform	<100	mg/kg	11/15/1993
Bromomethane	<200	mg/kg	11/15/1993
n-Butylbenzene	880	mg/kg	11/15/1993
sec-Butylbenzene	63	mg/kg	11/15/1993
tert-Butylbenzene	<50	mg/kg	11/15/1993
Carbon Tetrachloride	<50	mg/kg	11/15/1993
Chlorobenzene	<50	mg/kg	11/15/1993
Chlorodibromomethane	<50	mg/kg	11/15/1993
Chloroethane	<200	mg/kg	11/15/1993
Chloroform	<50	mg/kg	11/15/1993
Chloromethane	<200	mg/kg	11/15/1993
2-Chlorotoluene	<50	mg/kg	11/15/1993
4-Chlorotoluene	<50	mg/kg	11/15/1993
1,2-Dibromo-3-Chloropropane	<100	mg/kg	11/15/1993
1,2-Dibromoethane (EDB)	<50	mg/kg	11/15/1993
Dibromomethane	<50	mg/kg	11/15/1993
1,2-Dichlorobenzene	<50	mg/kg	11/15/1993
1,3-Dichlorobenzene	<50	mg/kg	11/15/1993
1,4-Dichlorobenzene	<50	mg/kg	11/15/1993
Dichlorodifluoromethane	<150	mg/kg	11/15/1993
1,1-Dichloroethane	<50	mg/kg	11/15/1993
1,2-Dichloroethane	<50	mg/kg	11/15/1993
1,1-Dichloroethene	<100	mg/kg	11/15/1993
cis-1,2-Dichloroethene	<50	mg/kg	11/15/1993
trans-1,2-Dichloroethene	<50	mg/kg	11/15/1993

Brian D. DeJong
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ANALYTICAL REPORT

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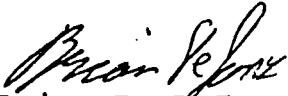
11/22/1993
Job No: 93.05425
Sample No: 83498
Account No: 66000
Page 5

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: B-Waste-UST #366115203
Recv'd 4.5 C

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
1,2-Dichloropropane	<50	mg/kg	11/15/1993
1,3-Dichloropropane	<50	mg/kg	11/15/1993
2,2-Dichloropropane	<50	mg/kg	11/15/1993
1,1-Dichloropropene	<50	mg/kg	11/15/1993
cis-1,3-Dichloropropene	<50	mg/kg	11/15/1993
trans-1,3-Dichloropropene	<50	mg/kg	11/15/1993
Ethylbenzene	920	mg/kg	11/15/1993
Hexachlorobutadiene	<100	mg/kg	11/15/1993
Isopropylbenzene	130	mg/kg	11/15/1993
p-Isopropyltoluene	<50	mg/kg	11/15/1993
Methylene Chloride	<250	mg/kg	11/15/1993
Naphthalene	470	mg/kg	11/15/1993
n-Propylbenzene	550	mg/kg	11/15/1993
Styrene	<50	mg/kg	11/15/1993
1,1,1,2-Tetrachloroethane	<50	mg/kg	11/15/1993
1,1,2,2-Tetrachloroethane	<50	mg/kg	11/15/1993
Tetrachloroethene	<50	mg/kg	11/15/1993
Toluene	1,400	mg/kg	11/15/1993
1,2,3-Trichlorobenzene	<50	mg/kg	11/15/1993
1,2,4-Trichlorobenzene	<50	mg/kg	11/15/1993
1,1,1-Trichloroethane	<50	mg/kg	11/15/1993
1,1,2-Trichloroethane	<50	mg/kg	11/15/1993
Trichloroethene	<50	mg/kg	11/15/1993
Trichlorofluoromethane	<200	mg/kg	11/15/1993
1,2,3-Trichloropropane	<50	mg/kg	11/15/1993
1,2,4-Trimethylbenzene	2,000	mg/kg	11/15/1993
1,3,5-Trimethylbenzene	830	mg/kg	11/15/1993
Vinyl Chloride	<150	mg/kg	11/15/1993
Xylenes, Total	3,900	mg/kg	11/15/1993
Methyl-t-butyl ether	<50	mg/kg	11/15/1993
DRO - NONAQUEOUS	16,000	mg/kg	11/19/1993


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ANALYTICAL REPORT

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11/22/1993
Job No: 93.05425
Sample No: 83499
Account No: 66000
Page 6

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: WW - 6.0 #366115203
Recv'd 4.5 C

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Solids, Total	81.7	%	11/16/1993
Lead, AA	41	mg/kg	11/18/1993
DRO Extraction	11/05/93		11/17/1993
GRO - Nonaqueous	<5.0	mg/kg	11/12/1993
VOC NONAQUEOUS - EPA 8021			
Benzene	0.32	mg/kg	11/15/1993
Bromobenzene	<0.10	mg/kg	11/15/1993
Bromochloromethane	<0.10	mg/kg	11/15/1993
Bromodichloromethane	<0.10	mg/kg	11/15/1993
Bromoform	<0.20	mg/kg	11/15/1993
Bromomethane	<0.40	mg/kg	11/15/1993
n-Butylbenzene	1.1	mg/kg	11/15/1993
sec-Butylbenzene	<0.10	mg/kg	11/15/1993
tert-Butylbenzene	<0.10	mg/kg	11/15/1993
Carbon Tetrachloride	<0.10	mg/kg	11/15/1993
Chlorobenzene	<0.10	mg/kg	11/15/1993
Chlorodibromomethane	<0.10	mg/kg	11/15/1993
Chloroethane	<0.40	mg/kg	11/15/1993
Chloroform	<0.10	mg/kg	11/15/1993
Chloromethane	<0.40	mg/kg	11/15/1993
2-Chlorotoluene	<0.10	mg/kg	11/15/1993
4-Chlorotoluene	<0.10	mg/kg	11/15/1993
1,2-Dibromo-3-Chloropropane	<0.20	mg/kg	11/15/1993
1,2-Dibromoethane (EDB)	<0.10	mg/kg	11/15/1993
Dibromomethane	<0.10	mg/kg	11/15/1993
1,2-Dichlorobenzene	<0.10	mg/kg	11/15/1993
1,3-Dichlorobenzene	<0.10	mg/kg	11/15/1993
1,4-Dichlorobenzene	<0.10	mg/kg	11/15/1993
Dichlorodifluoromethane	<0.30	mg/kg	11/15/1993
1,1-Dichloroethane	<0.10	mg/kg	11/15/1993
1,2-Dichloroethane	<0.10	mg/kg	11/15/1993
1,1-Dichloroethene	<0.20	mg/kg	11/15/1993
cis-1,2-Dichloroethene	<0.10	mg/kg	11/15/1993
trans-1,2-Dichloroethene	<0.10	mg/kg	11/15/1993

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ANALYTICAL REPORT

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11/22/1993
Job No: 93.05425
Sample No: 83499
Account No: 66000
Page 7

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: WW - 6.0 #366115203
Recv'd 4.5 C.

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
1,2-Dichloropropane	<0.10	mg/kg	11/15/1993
1,3-Dichloropropane	<0.10	mg/kg	11/15/1993
2,2-Dichloropropane	<0.10	mg/kg	11/15/1993
1,1-Dichloropropene	<0.10	mg/kg	11/15/1993
cis-1,3-Dichloropropene	<0.10	mg/kg	11/15/1993
trans-1,3-Dichloropropene	<0.10	mg/kg	11/15/1993
Ethylbenzene	0.34	mg/kg	11/15/1993
Hexachlorobutadiene	<0.20	mg/kg	11/15/1993
Isopropylbenzene	<0.10	mg/kg	11/15/1993
p-Isopropyltoluene	0.42	mg/kg	11/15/1993
Methylene Chloride	<0.50	mg/kg	11/15/1993
Naphthalene	0.85	mg/kg	11/15/1993
n-Propylbenzene	1.2	mg/kg	11/15/1993
Styrene	<0.10	mg/kg	11/15/1993
1,1,1,2-Tetrachloroethane	<0.10	mg/kg	11/15/1993
1,1,2,2-Tetrachloroethane	<0.10	mg/kg	11/15/1993
Tetrachloroethene	<0.10	mg/kg	11/15/1993
Toluene	0.32	mg/kg	11/15/1993
1,2,3-Trichlorobenzene	<0.10	mg/kg	11/15/1993
1,2,4-Trichlorobenzene	<0.10	mg/kg	11/15/1993
1,1,1-Trichloroethane	<0.10	mg/kg	11/15/1993
1,1,2-Trichloroethane	<0.10	mg/kg	11/15/1993
Trichloroethene	<0.10	mg/kg	11/15/1993
Trichlorofluoromethane	<0.40	mg/kg	11/15/1993
1,2,3-Trichloropropane	<0.10	mg/kg	11/15/1993
1,2,4-Trimethylbenzene	0.98	mg/kg	11/15/1993
1,3,5-Trimethylbenzene	2.3	mg/kg	11/15/1993
Vinyl Chloride	<0.30	mg/kg	11/15/1993
Xylenes, Total	1.1	mg/kg	11/15/1993
Methyl-t-butyl ether	<0.10	mg/kg	11/15/1993
DRO - NONAQUEOUS	6.6	mg/kg	11/19/1993

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ANALYTICAL REPORT

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11/22/1993
Job No: 93.05425
Sample No: 83500
Account No: 66000
Page 8

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: EW - 6.0 #366115203
Recv'd 4.5 C
Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Solids, Total	82.4	%	11/16/1993
Lead, AA	58	mg/kg	11/18/1993
DRO Extraction	11/05/93		11/17/1993
GRO - Nonaqueous	170	mg/kg	11/12/1993
VOC NONAQUEOUS - EPA 8021			
Benzene	<0.50	mg/kg	11/14/1993
Bromobenzene	<0.50	mg/kg	11/14/1993
Bromochloromethane	<0.50	mg/kg	11/14/1993
Bromodichloromethane	<0.50	mg/kg	11/14/1993
Bromoform	<1.0	mg/kg	11/14/1993
Bromomethane	<2.0	mg/kg	11/14/1993
n-Butylbenzene	2.0	mg/kg	11/14/1993
sec-Butylbenzene	<0.50	mg/kg	11/14/1993
tert-Butylbenzene	<0.50	mg/kg	11/14/1993
Carbon Tetrachloride	<0.50	mg/kg	11/14/1993
Chlorobenzene	<0.50	mg/kg	11/14/1993
Chlorodibromomethane	<0.50	mg/kg	11/14/1993
Chloroethane	<2.0	mg/kg	11/14/1993
Chloroform	<0.50	mg/kg	11/14/1993
Chloromethane	<2.0	mg/kg	11/14/1993
2-Chlorotoluene	<0.50	mg/kg	11/14/1993
4-Chlorotoluene	<0.50	mg/kg	11/14/1993
1,2-Dibromo-3-Chloropropane	<1.0	mg/kg	11/14/1993
1,2-Dibromoethane (EDB)	<0.50	mg/kg	11/14/1993
Dibromomethane	<0.50	mg/kg	11/14/1993
1,2-Dichlorobenzene	<0.50	mg/kg	11/14/1993
1,3-Dichlorobenzene	<0.50	mg/kg	11/14/1993
1,4-Dichlorobenzene	<0.50	mg/kg	11/14/1993
Dichlorodifluoromethane	<1.5	mg/kg	11/14/1993
1,1-Dichloroethane	<0.50	mg/kg	11/14/1993
1,2-Dichloroethane	<0.50	mg/kg	11/14/1993
1,1-Dichloroethene	<1.0	mg/kg	11/14/1993
cis-1,2-Dichloroethene	<0.50	mg/kg	11/14/1993
trans-1,2-Dichloroethene	<0.50	mg/kg	11/14/1993

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ANALYTICAL REPORT

Mr. Gerald DeMers
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11/22/1993
Job No: 93.05425
Sample No: 83500
Account No: 66000
Page 9

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: EW - 6.0 #366115203
Recv'd 4.5 C

Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/01/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
1,2-Dichloropropane	<0.50	mg/kg	11/14/1993
1,3-Dichloropropane	<0.50	mg/kg	11/14/1993
2,2-Dichloropropane	<0.50	mg/kg	11/14/1993
1,1-Dichloropropene	<0.50	mg/kg	11/14/1993
cis-1,3-Dichloropropene	<0.50	mg/kg	11/14/1993
trans-1,3-Dichloropropene	<0.50	mg/kg	11/14/1993
Ethylbenzene	0.76	mg/kg	11/14/1993
Hexachlorobutadiene	<1.0	mg/kg	11/14/1993
Isopropylbenzene	<0.50	mg/kg	11/14/1993
p-Isopropyltoluene	<0.50	mg/kg	11/14/1993
Methylene Chloride	<2.5	mg/kg	11/14/1993
Naphthalene	1.5	mg/kg	11/14/1993
n-Propylbenzene	1.4	mg/kg	11/14/1993
Styrene	<0.50	mg/kg	11/14/1993
1,1,1,2-Tetrachloroethane	<0.50	mg/kg	11/14/1993
1,1,2,2-Tetrachloroethane	<0.50	mg/kg	11/14/1993
Tetrachloroethene	<0.50	mg/kg	11/14/1993
Toluene	0.38	mg/kg	11/14/1993
1,2,3-Trichlorobenzene	<0.50	mg/kg	11/14/1993
1,2,4-Trichlorobenzene	<0.50	mg/kg	11/14/1993
1,1,1-Trichloroethane	<0.50	mg/kg	11/14/1993
1,1,2-Trichloroethane	<0.50	mg/kg	11/14/1993
Trichloroethene	<0.50	mg/kg	11/14/1993
Trichlorofluoromethane	<2.0	mg/kg	11/14/1993
1,2,3-Trichloropropane	<0.50	mg/kg	11/14/1993
1,2,4-Trimethylbenzene	2.1	mg/kg	11/14/1993
1,3,5-Trimethylbenzene	1.5	mg/kg	11/14/1993
Vinyl Chloride	<1.5	mg/kg	11/14/1993
Xylenes, Total	2.4	mg/kg	11/14/1993
Methyl-t-butyl ether	<0.50	mg/kg	11/14/1993
DRO - NONAQUEOUS	380	mg/kg	11/19/1993

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ANALYTICAL REPORT

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11/22/1993
Job No: 93.05425
Sample No: 83501
Account No: 66000
Page 10

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: NW - 4.5 #366115203
Recv'd 4.5 C
Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/03/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Solids, Total	82.0	%	11/16/1993
Lead, AA	42	mg/kg	11/18/1993
DRO Extraction	11/05/93		11/17/1993
GRO - Nonaqueous	H 260	mg/kg	11/13/1993
VOC NONAQUEOUS - EPA 8021			
Benzene	<0.10	mg/kg	11/14/1993
Bromobenzene	<0.10	mg/kg	11/14/1993
Bromochloromethane	<0.10	mg/kg	11/14/1993
Bromodichloromethane	<0.10	mg/kg	11/14/1993
Bromoform	<0.20	mg/kg	11/14/1993
Bromomethane	<0.40	mg/kg	11/14/1993
n-Butylbenzene	5.7	mg/kg	11/14/1993
sec-Butylbenzene	0.51	mg/kg	11/14/1993
tert-Butylbenzene	<0.10	mg/kg	11/14/1993
Carbon Tetrachloride	<0.10	mg/kg	11/14/1993
Chlorobenzene	<0.10	mg/kg	11/14/1993
Chlorodibromomethane	<0.10	mg/kg	11/14/1993
Chloroethane	<0.40	mg/kg	11/14/1993
Chloroform	<0.10	mg/kg	11/14/1993
Chloromethane	<0.40	mg/kg	11/14/1993
2-Chlorotoluene	<0.10	mg/kg	11/14/1993
4-Chlorotoluene	<0.10	mg/kg	11/14/1993
1,2-Dibromo-3-Chloropropane	<0.20	mg/kg	11/14/1993
1,2-Dibromoethane (EDB)	<0.10	mg/kg	11/14/1993
Dibromomethane	<0.10	mg/kg	11/14/1993
1,2-Dichlorobenzene	<0.10	mg/kg	11/14/1993
1,3-Dichlorobenzene	<0.10	mg/kg	11/14/1993
1,4-Dichlorobenzene	<0.10	mg/kg	11/14/1993
Dichlorodifluoromethane	<0.30	mg/kg	11/14/1993
1,1-Dichloroethane	<0.10	mg/kg	11/14/1993
1,2-Dichloroethane	<0.10	mg/kg	11/14/1993
1,1-Dichloroethene	<0.20	mg/kg	11/14/1993
cis-1,2-Dichloroethene	<0.10	mg/kg	11/14/1993
trans-1,2-Dichloroethene	<0.10	mg/kg	11/14/1993

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Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job No: 93.05425
Sample No: 83501
Account No: 66000
Page 11

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: NW - 4.5 #366115203
Recv'd 4.5 C
Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/03/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
1,2-Dichloropropane	<0.10	mg/kg	11/14/1993
1,3-Dichloropropane	<0.10	mg/kg	11/14/1993
2,2-Dichloropropane	<0.10	mg/kg	11/14/1993
1,1-Dichloropropene	<0.10	mg/kg	11/14/1993
cis-1,3-Dichloropropene	<0.10	mg/kg	11/14/1993
trans-1,3-Dichloropropene	<0.10	mg/kg	11/14/1993
Ethylbenzene	1.4	mg/kg	11/14/1993
Hexachlorobutadiene	<0.20	mg/kg	11/14/1993
Isopropylbenzene	0.32	mg/kg	11/14/1993
p-Isopropyltoluene	0.28	mg/kg	11/14/1993
Methylene Chloride	<0.50	mg/kg	11/14/1993
Naphthalene	1.9	mg/kg	11/14/1993
n-Propylbenzene	1.5	mg/kg	11/14/1993
Styrene	<0.10	mg/kg	11/14/1993
1,1,1,2-Tetrachloroethane	<0.10	mg/kg	11/14/1993
1,1,2,2-Tetrachloroethane	<0.10	mg/kg	11/14/1993
Tetrachloroethene	<0.10	mg/kg	11/14/1993
Toluene	0.11	mg/kg	11/14/1993
1,2,3-Trichlorobenzene	<0.10	mg/kg	11/14/1993
1,2,4-Trichlorobenzene	<0.10	mg/kg	11/14/1993
1,1,1-Trichloroethane	<0.10	mg/kg	11/14/1993
1,1,2-Trichloroethane	<0.10	mg/kg	11/14/1993
Trichloroethene	<0.10	mg/kg	11/14/1993
Trichlorofluoromethane	<0.40	mg/kg	11/14/1993
1,2,3-Trichloropropane	<0.10	mg/kg	11/14/1993
1,2,4-Trimethylbenzene	93	mg/kg	11/15/1993
1,3,5-Trimethylbenzene	3.7	mg/kg	11/14/1993
Vinyl Chloride	<0.30	mg/kg	11/14/1993
Xylenes, Total	4.5	mg/kg	11/14/1993
Methyl-t-butyl ether	<0.10	mg/kg	11/14/1993
DRO - NONAQUEOUS	190	mg/kg	11/17/1993

Brian D. DeJong, Organic Project Manager
Certification No.128053530





ANALYTICAL REPORT

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job No: 93.05425
Sample No: 83502
Account No: 66000
Page 12

JOB DESCRIPTION: Milwaukee Plating #366115203
SAMPLE DESCRIPTION: WF - 7.5 #366115203
Recv'd 4.5 C
Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/03/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
Paint Filter Test	ND		11/17/1993
Solids, Total	79.8	%	11/16/1993
Lead, AA	40	mg/kg	11/18/1993
DRO Extraction	11/05/93		11/17/1993
GRO - Nonaqueous	110	mg/kg	11/13/1993
VOC NONAQUEOUS - EPA 8021			
Benzene	7.7	mg/kg	11/15/1993
Bromobenzene	<0.10	mg/kg	11/14/1993
Bromochloromethane	<0.10	mg/kg	11/14/1993
Bromodichloromethane	<0.10	mg/kg	11/14/1993
Bromoform	<0.20	mg/kg	11/14/1993
Bromomethane	<0.40	mg/kg	11/14/1993
n-Butylbenzene	2.4	mg/kg	11/14/1993
sec-Butylbenzene	0.19	mg/kg	11/14/1993
tert-Butylbenzene	<0.10	mg/kg	11/14/1993
Carbon Tetrachloride	<0.10	mg/kg	11/14/1993
Chlorobenzene	<0.10	mg/kg	11/14/1993
Chlorodibromomethane	<0.10	mg/kg	11/14/1993
Chloroethane	<0.40	mg/kg	11/14/1993
Chloroform	<0.10	mg/kg	11/14/1993
Chloromethane	<0.40	mg/kg	11/14/1993
2-Chlorotoluene	<0.10	mg/kg	11/14/1993
4-Chlorotoluene	<0.10	mg/kg	11/14/1993
1,2-Dibromo-3-Chloropropane	<0.20	mg/kg	11/14/1993
1,2-Dibromoethane (EDB)	<0.10	mg/kg	11/14/1993
Dibromomethane	<0.10	mg/kg	11/14/1993
1,2-Dichlorobenzene	<0.10	mg/kg	11/14/1993
1,3-Dichlorobenzene	<0.10	mg/kg	11/14/1993
1,4-Dichlorobenzene	<0.10	mg/kg	11/14/1993
Dichlorodifluoromethane	<0.30	mg/kg	11/14/1993
1,1-Dichloroethane	<0.10	mg/kg	11/14/1993
1,2-Dichloroethane	<0.10	mg/kg	11/14/1993
1,1-Dichloroethene	<0.20	mg/kg	11/14/1993
cis-1,2-Dichloroethene	<0.10	mg/kg	11/14/1993

Brian DeJong
Brian D. DeJong, Organic Project Manager
Certification No.128053530





NATIONAL
ENVIRONMENTAL
TESTING, INC.

Watertown Division
602 Commerce Drive
P.O. Box 288
Watertown, WI 53094
Tel: (414) 261-1660
Fax: (414) 261-8120

ANALYTICAL REPORT

Mr. Gerald DeMers
SIMON HYDRO-SEARCH, INC.
175 N. Corporate Drive
Suite 100
Brookfield, WI 53045

11/22/1993
Job No: 93.05425
Sample No: 83502
Account No: 66000
Page 13

JOB DESCRIPTION: Milwaukee Plating #366115203

SAMPLE DESCRIPTION: WF - 7.5 #366115203

Recv'd 4.5 C

Report MTBE quantities with VOC analysis for all Sam

Date Taken: 11/03/1993

Date Received: 11/04/1993

Parameter	Result	Unit of Measure	Dated Analyzed
trans-1,2-Dichloroethene	<0.10	mg/kg	11/14/1993
1,2-Dichloropropane	<0.10	mg/kg	11/14/1993
1,3-Dichloropropane	<0.10	mg/kg	11/14/1993
2,2-Dichloropropane	<0.10	mg/kg	11/14/1993
1,1-Dichloropropene	<0.10	mg/kg	11/14/1993
cis-1,3-Dichloropropene	<0.10	mg/kg	11/14/1993
trans-1,3-Dichloropropene	<0.10	mg/kg	11/14/1993
Ethylbenzene	5.6	mg/kg	11/14/1993
Hexachlorobutadiene	<0.20	mg/kg	11/14/1993
Isopropylbenzene	0.68	mg/kg	11/14/1993
p-Isopropyltoluene	<0.10	mg/kg	11/14/1993
Methylene Chloride	<0.50	mg/kg	11/14/1993
Naphthalene	0.97	mg/kg	11/14/1993
n-Propylbenzene	1.9	mg/kg	11/14/1993
Styrene	<0.10	mg/kg	11/14/1993
1,1,1,2-Tetrachloroethane	<0.10	mg/kg	11/14/1993
1,1,2,2-Tetrachloroethane	<0.10	mg/kg	11/14/1993
Tetrachloroethene	<0.10	mg/kg	11/14/1993
Toluene	13	mg/kg	11/15/1993
1,2,3-Trichlorobenzene	<0.10	mg/kg	11/14/1993
1,2,4-Trichlorobenzene	<0.10	mg/kg	11/14/1993
1,1,1-Trichloroethane	<0.10	mg/kg	11/14/1993
1,1,2-Trichloroethane	<0.10	mg/kg	11/14/1993
Trichloroethene	<0.10	mg/kg	11/14/1993
Trichlorofluoromethane	<0.40	mg/kg	11/14/1993
1,2,3-Trichloropropane	<0.10	mg/kg	11/14/1993
1,2,4-Trimethylbenzene	90	mg/kg	11/15/1993
1,3,5-Trimethylbenzene	3.1	mg/kg	11/14/1993
Vinyl Chloride	<0.30	mg/kg	11/14/1993
Xylenes, Total	26	mg/kg	11/15/1993
Methyl-t-butyl ether	<0.10	mg/kg	11/14/1993
DRO - NONAQUEOUS	27	mg/kg	11/17/1993

Brian DeJong
Brian D. DeJong, Organic Project Manager
Certification No.128053530





ON ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY SIMON HYDRO SEARCH
 ADDRESS 175 N. CORPORATE DR STE 100
 PHONE 792-1282 FAX 792 1310
 PROJECT NAME/LOCATION MILWAUKEE PLATING
 PROJECT NUMBER 366115203
 PROJECT MANAGER GERALD DEMERS

93012425

REPORT TO: GERALD DEMERS
 INVOICE TO: _____
 P.O. NO. _____
 NET QUOTE NO. _____

SAMPLED BY DAN D. DAVIES
 (PRINT NAME)
 (PRINT NAME)

Dan Davies
 SIGNATURE
 SIGNATURE

ANALYSES

DATE	TIME	SAMPLE ID/DESCRIPTION	GRAB	COMP	# OF CONTAINERS TYPE	MATRIX	PRESERVED Y/N	ANALYSES				COMMENTS
								GRO	DRO	VOC'S	Pb	
11/1	15:46	WASTE - UST - 1000	X		7	Liquid	Y	X	X	X	X	Please report MTBE quantities with VOC analysis for all samples
11/1	15:55	B - WASTE - UST	X		3	SOIL	Y/N	X	X	X	X	
11/1	17:50	NW - 6.0	X		3	SOIL	Y/N	X	X	X	X	
11/1	18:05	EW - 6.0	X		3	SOIL	Y/N	X	X	X	X	
11/3	8:55	NW - 4.5	X		3	SOIL	Y/N	X	X	X	X	
11/3	9:50	WF - 7.5	X		3	SOIL	Y/N	X	X	X	X	
		QC - TB - 1			1		Y	X	X	X	X	
		QC - QA - TB - 2	X		3		Y	X	X	X	X	TRIP BLANK 3uls No Pb Sample No PRO Bottle
												PER GERALD DEMERS PLEASE DELETE! QC - TB - 1 QC - QA - TB - 2 WLT 11-08-93 4:30 PM 4.5°C

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
 FIELD FILTERED? YES / NO
 COC SEALS PRESENT AND INTACT? YES / NO
 VOLATILES FREE OF HEADSPACE? YES / NO
 TEMPERATURE UPON RECEIPT: 4.5°C

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____
 I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS _____ DATE _____

RELINQUISHED BY: Dan Davies DATE/TIME: 11-4-93
 RECEIVED BY: Dawn Begg DATE/TIME: 11/4/93 3:24
 RELINQUISHED BY: Dawn Begg DATE/TIME: 11/4/93 16:47
 RECEIVED FOR NET BY: Carrie Kous DATE/TIME: 11-5-93 15:54

METHOD OF SHIPMENT: _____
 REMARKS: _____



APPENDIX C
PERMITS

November 1, 1993

Mr. Timothy J. Temperly
Building Construction Inspector
841 N. Broadway, Room 1016
Milwaukee, WI 53202

RE: Tank Abandonment, Milwaukee Plating Company
1434 N. 4th Street

Dear Mr. Temperly:

Simon Hydro-Search requests a variance to abandon in-place, an underground storage tank (UST) located in the basement of Milwaukee Plating Company, 1434 N. 4th Street, Milwaukee. The variance is requested in accordance with DILHR 10.732 (2) (b) due to its inaccessibility.

The tank is estimated to be 1,000 gallons in size, and will be abandoned by filling with sand after it has been cleaned.

Sincerely,

SIMON HYDRO-SEARCH, INC.



Gerald L. DeMers, P.E.
Senior Engineer

HAZ.

INSTRUCTIONS:
 TYPE OR PRINT A SEPARATE
 FORM FOR EACH LOCATION
 PLEASE USE BLACK INK
 RETURN ALL COPIES WITH FEE
 TO THIS OFFICE

CITY OF MILWAUKEE, WISCONSIN
APPLICATION FOR PERMIT

EPT. OF BLDG. INSPECTION
 41 N. BROADWAY, 18TH FLOOR
 MILWAUKEE, WISCONSIN 53202

RECEIVED
 12/27/83 10:10 AM
 PERMITTING DIVISION

LOCATION (GIVE EXACT STREET ADDRESS) 1434 N. 4th St. Milwaukee, WI		PHONE NO. 272-3433
PAINT/TENANT Milwaukee Plating Co.	ADDRESS 1434 N. 4th St. Milw., WI	PHONE NO. 272-3433
OWNER'S NAME Milwaukee Plating Co.	ADDRESS 175 Corporate Dr. Deerfield, WI	PHONE NO. 797-1242
ARCHITECT OR ENGINEER Simon Hydro-Search	ADDRESS 7055 N. 51st St. Milwaukee, WI	PHONE NO. 354-8877
CONTRACTOR U.S. Environmental Corp.	ADDRESS 7055 N. 51st St. Milwaukee, WI	ZIP CODE 53223
DATE 1/13/85	HISTORIC YES NO X	OCCUPANCY USE OF BLDG. (BE SPECIFIC) Industrial Electric Plant
USE GROUP (CIRCLE THE PROPER USE GROUP)		FOR DEPARTMENT USE ONLY
<input type="checkbox"/> 1 One family <input type="checkbox"/> 2 Two family <input type="checkbox"/> 3 3-4 family <input type="checkbox"/> 4 5-fam./gtr. <input type="checkbox"/> 5 Hotel/Motel <input type="checkbox"/> 6 Other residential <input type="checkbox"/> 7 Recreation bldg. <input type="checkbox"/> 8 Religious bldg. <input checked="" type="checkbox"/> 9 Industrial bldg. <input type="checkbox"/> 10 Public parking <input type="checkbox"/> 11 Service station <input type="checkbox"/> 12 Institutional bldg. <input type="checkbox"/> 13 Office building <input type="checkbox"/> 14 Education bldg. <input type="checkbox"/> 15 Utility <input type="checkbox"/> 16 Mercantile <input type="checkbox"/> 17 Other non-res. <input type="checkbox"/> 18 Structure/ not bldg. <input type="checkbox"/> 19 Res. garage		BOEA YES NO COST OF JOB 3205.00

TYPE OF PERMIT	PERMIT FEE	IS THIS BUILDING FIRE DAMAGED OR SUBJECT TO A CONDEMNATION ORDER?	YES	NO
120 ALTERATIONS		STATE IN DETAIL THE KIND OF WORK TO BE PERFORMED:		
710 SIDING		Abandon (1) one underground storage tank. - LETTER ON FILE.		
715 FENCE		Size - approx 10x20 gallons.		
760 FIRE DAMAGE		Contents - suspect gasoline.		
745 RAZING/DEMOLITION		Comply w/ LMC 10 & Chap. 236.3 of Code of Ordinances Vol II.		
515 GAS FURNACE				
BOILER	<input type="checkbox"/> 545 New <input type="checkbox"/> 555 Repair			
560 AIR CONDITIONING				
600 FIRE PROTECTION				
726 ON PREMISE SIGN		I Declare that an asbestos project (as defined in Chapter 66 of the Milwaukee Code of Ordinances) will not be included in the work performed under this permit.		
735 TANK REMOVAL	50 00	Signature of Applicant: <i>[Signature]</i>		
OTHER:		It is Herby Agreed between the undersigned, as owner, his agent or servant, and the City of Milwaukee, that for and in consideration of the premises and of the permit to construct, erect, alter or install and the occupancy of building as above described, to be issued and granted by the Commissioner of Building Inspection, that the work thereon will be done in accordance with the descriptions herein set forth in this statement, and it is further agreed to construct, erect, alter or install and occupy in strict compliance with Chapter 200 to Chapter 235 of the Milwaukee Code of Ordinances and all amendments thereto, and to obey any and all lawful orders of the Commissioner of Building Inspection of the City of Milwaukee, made or issued by virtue of the provisions of Chapter 179 of the laws of Wisconsin of the year 1919, and Chapter 9 of the Milwaukee City Charter of the year 1964, and all amendments thereto.		
TOTAL FEE	50 00	SIGNATURE OF APPLICANT <i>[Signature]</i>		

SEEN BY INSPECTION PERSONNEL
 C. KED
 BY *[Signature]*

FORM BI-19 (5-73)

DISTRIBUTION: YELLOW—INSPECTOR WHITE—81 OFFICE BLUE—APPLICANT

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

Information Required By Sec. 101.142, Wis. Stats.

For Office Use Only:

Tank ID # 4D201

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form? YES NO If yes, are you correcting/updating information only? Yes No

This registration applies to a tank that is (check one):

1. <input type="checkbox"/> In Use or	2. <input type="checkbox"/> Newly Installed	3. <input type="checkbox"/> Closed - Tank Removed	4. <input type="checkbox"/> Changed Ownership
5. <input type="checkbox"/> Abandoned With Product	6. <input checked="" type="checkbox"/> Closed - Filled With Inert Material	7. <input type="checkbox"/> Out of Service - Provide Date: _____	

Fire Department Providing Fire Coverage Where Tank Located: Milwaukee

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Milwaukee Plating CO Site Address: 1434 N 4 St Site Telephone No. _____

City Milwaukee Village Town of: _____ State: Wis Zip Code: 53223 County: Milw

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Same Owner Mailing Address (mail sent here unless indicated otherwise in #3): _____

City Village Town of: _____ State _____ Zip Code _____ County _____

3. Alternate Mailing Name If Different Than #2: Same Alternate Mailing Street Address If Different From #2: _____

City Village Town of: _____ State _____ Zip Code _____ County _____

4. Tank Age (date installed, if known: or years old): unknown 5. Tank Capacity (gallons): 1000 6. Tank Manufacturer's Name (if known): unknown

B. TYPE OF USER (check one):

1. <input type="checkbox"/> Gas Station	2. <input type="checkbox"/> Bulk Storage	3. <input checked="" type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile
5. <input type="checkbox"/> Industrial	6. <input type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential
9. <input type="checkbox"/> Agricultural	10. <input checked="" type="checkbox"/> Other (specify): <u>unknown</u>		

C. TANK CONSTRUCTION:

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____	6. <input type="checkbox"/> Relined - Date: _____
7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite	8. <input type="checkbox"/> Unknown	

Approval: 1. Nat'l Std. 2. UL 3. Other: _____

Is Tank Double Walled? Yes No

Overfill Protection Provided? Yes No If yes, identify type: _____

Spill Containment? Yes No

Tank leak detection method: 1. Automatic tank gauging 2. Vapor monitoring 3. Groundwater monitoring 4. Inventory control and tightness testing 5. Interstitial monitoring 6. Not required at present 7. Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____	6. <input type="checkbox"/> Unknown

Piping System Type: 1. Pressurized piping with: A. auto shutoff; B. alarm; or C. flow restrictor 2. Suction piping with check valve at tank 3. Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. Vapor monitoring 2. Interstitial monitoring 3. Groundwater monitoring 4. Tightness testing 5. Line Leak Detector 6. Not Required

Approval: 1. Nat'l Std 2. UL 3. Other: _____

Double Walled: Yes No

E. TANK CONTENTS

1. <input type="checkbox"/> Diesel	2. <input checked="" type="checkbox"/> Leaded	3. <input type="checkbox"/> Unleaded	4. <input type="checkbox"/> Fuel Oil
5. <input type="checkbox"/> Gasohol	6. <input type="checkbox"/> Other	7. <input type="checkbox"/> Empty	8. <input type="checkbox"/> Sand/Gravel/Slurry
9. <input type="checkbox"/> Unknown	10. <input type="checkbox"/> Premix	11. <input type="checkbox"/> Waste Oil	12. <input type="checkbox"/> Propane
13. <input type="checkbox"/> Chemical *	14. <input type="checkbox"/> Kerosene	15. <input type="checkbox"/> Aviation	

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Is Tank Closed, Give Date (mo/day/yr): 11-3-93 Has a site assessment been completed? (see reverse side for details) Yes No

If installation of a new tank is being reported, indicate who performed the installation inspection:

1. <input type="checkbox"/> Fire Department	2. <input type="checkbox"/> DILHR	3. <input type="checkbox"/> Other (identify) _____
---	-----------------------------------	--

Name of Owner or Operator (please print): _____ Indicate Whether: Owner or Operator

Signature of Owner or Operator: J.H. Maltacchi, President Date Signed: 12-6-93

APPENDIX D
FIELD FORM

Site: MILWAUKEE PLATING

Project No: 366115203

Date: Nov 1+2, 1993

Personnel: D. DAVIES

Meter No: 2

Probe ev: 11.7

FIELD PID DATA FORM

Sample Number	Location/Depth	Sample Media(1)	Moisture (2)	Time Sample Collected	Time Sample Analyzed	Volatilization Period Air Temp (8)	PID Readings (ppm)		Comments
							Background	Peak Response	
1	Center/2'	SO	MOIST	10:55	11:45	65°F	0.8	2.2	Silty Clay Fill above UST
2	UST/7'	WL		15:30	16:10	65°F	0.8	195.0	Liquid in UST (WASTE-UST-1000)
3	UST/7'	SO	WET	15:55	16:50	65°F	0.6	240.0	Soil in UST (B-WASTE-UST)
4	WW/6'	SO	MOIST	17:50	18:20	65°F	0.8	15.0	(WW-6.0) West UST Wall @ 6.0ft
5	EW/6'	SO	MOIST-WET	18:05	18:38	65°F	0.7	104.0	(EW-6.0) EAST UST WALL @ 6.0ft.
6	NW/4.5'	SO	MOIST-WET	8:55	10:35	65°F	0.7	90.0	(NW-4.5) NORTH UST WALL @ 4.5 ft
7	WF/7.5	SO	WET	9:50	10:36	65°F	0.7	180.0	(WF-7.5) WEST UST FLOOR @ 7.5 ft

- (1) SO - Soil
- SD - Sediment
- GW - Ground water
- SW - Surface water
- WS - Waste (Solid)
- WL - Waste (Liquid)

- (2) D - Dry
- M - Moist
- W - Wet