

**APPENDIX F**  
**Freedom of Information Act Documents**

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON  
MARLENE J. FLUHARTY  
GORDON E. GUYER  
KERRY KAMMER  
ELLWOOD A. MATTSON  
O. STEWART MYERS  
RAYMOND POUPORE

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

July 24, 1990

Mr. Kenneth Swisher  
MUSTFA Fund Administrator  
Department of Management and Budget  
Lewis Cass Building  
P.O. Box 30026  
Lansing, MI 48909

SUBJECT: Ann Arbor City Garage      MUSTFA Claim #  
          721 N. Main Street  
          Ann Arbor, Michigan

Dear Mr. Swisher:

1. Staff review of information available in our files shows the claimant to currently be in compliance with the record-keeping and reporting requirements of P.A. 478 of 1988, as amended.
2. Staff review of information available in our files shows the claimant is not in compliance with the record-keeping and reporting requirements of P.A. 478 of 1988, as amended for the following reason(s):
- a) Failure to submit an initial abatement report within twenty days after the confirmation of the release.
  - b) Failure to provide notice of removal, disposal or remediation of contaminated soils.
  - c) Failure to submit a site characterization report, as specified in Section 7(3)(a-d) of the Act, within 45 days of the confirmation of the release.
  - d) At a site where an investigation indicates the presence of free product, failure to submit a free product removal report, as specified in Section 7(5)(d)(i-vii) of the Act, within 45 days of the confirmation of the release.
  - e) Failure to submit a site investigation work plan, as specified in Section 7(6), within 45 days of confirmation of the release.

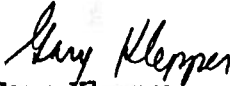


Kenneth Swisher  
Dept. Management & Budget  
Ann Arbor City Garage  
July 24, 1990  
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- \_\_\_ f) Failure to conduct investigation and submit the results in accordance with the schedule established in the approved work plan [Section 7(7)].
- \_\_\_ g) Failure to submit a corrective action plan upon request in accordance with the schedule established by the DNR [Section 9(1)].
- \_\_\_ h) Failure to conduct corrective action and submit results in accordance with the schedule established in the approved work plan [Section 8(4)].
- \_\_\_ i) Failure to submit additional information as requested, as specified in Section 8(1) and Section 14(1).

If you have any further questions or require additional file documentation, please contact Betty Michalski, the project manager for this site, at (517) 788-9598.

Sincerely,

  
Gary Klepper  
District Supervisor  
ENVIRONMENTAL RESPONSE DIVISION  
(517) 788-9598

cc: Tom Rohrer  
Dist. MUSTFA Coord  
Project Manager

Michigan Department of Natural Resources  
 Environmental Response Division  
 Jackson District Office  
 Phone (517) 788-9598

ACT 478 (LUST) COMPLIANCE WORKSHEET

Facility Name: *Ann Arbor City Garage* Master Site ID:  
 Location: *721 N. Main St.* County: *Washtenaw*  
*Ann Arbor* Date Affidavit Received: *4-27-90*  
 Date release reported: *12-15-89*

	Date Received	In Compliance		
		Y	N	NA
a) Initial abatement report submitted within 20 days after confirmed release	<i>1-3-90</i>	<input checked="" type="radio"/>	<input type="radio"/>	
b) Reasonable notice of removal, disposal or remediation of contaminated soils		<input checked="" type="radio"/>	<input type="radio"/>	
c) Site characterization report submitted within 45 days after confirmed release		<input checked="" type="radio"/>	<input type="radio"/>	
d) Free product removal report submitted within 45 days after confirmed release		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
e) Site investigation work plan submitted within 45 days after confirmed release		<input type="radio"/>	<input type="radio"/>	
f) Site investigation conducted and report submitted in accordance with the approved implementation schedule		<input type="radio"/>	<input type="radio"/>	
g) Corrective action plan submitted in accordance w/DNR schedule; if disapproved, revisions submitted on schedule		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
h) Corrective actions implemented and report/results submitted according to schedule in the corrective action plan		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
i) Additional information submitted as requested		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Comments:

ERD Reviewer: *B. Michelski* Date: *6-11-90*

ERD Project Manager:

Reviewer shows claimant compliant?  Y  N

LUST SITE WORK SUMMARY

SITE NAME: Ann Arbor City Garage MASTER SITE NO: \_\_\_\_\_  
SITE ADDRESS: 721 N. Main CONFIRMED RELEASE NO: C-1129-89  
Ann Arbor CLAIM NO: \_\_\_\_\_  
COUNTY: Washtenaw MDNR PROJECT MOR: Michalski  
INITIAL PREPARATION DATE: 6-11-90 REVISIONS: \_\_\_\_\_

INITIAL ABATEMENT, SITE CHARACTERIZATION, FREE PRODUCT REMOVAL

- TANK REMOVAL - NO 1 TANK TESTING
- SOIL REMOVAL + VOLUME? \_\_\_\_\_
- SOIL SAMPLING/ANALYSES - NO.: 3
- not MITIGATION OF FIRES/EXPLOSION THREATS - METHOD? \_\_\_\_\_
- not FREE PRODUCT REMOVAL - VOLUME? \_\_\_\_\_ METHOD? \_\_\_\_\_
- GROUNDWATER REMOVAL - VOLUME? \_\_\_\_\_ METHOD? \_\_\_\_\_
- GROUNDWATER SAMPLING/ANALYSES 1
- OTHER - SPECIFY \_\_\_\_\_

INVESTIGATION, REMEDIATION, MONITORING

- SOIL BORINGS - NO.: \_\_\_\_\_
- SOIL SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- MONITOR WELLS (INCLUDES SURVEYING) - NO.: \_\_\_\_\_
- GROUNDWATER SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- SURFACE WATER SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- GEOPHYSICAL SURVEY - SPECIFY METHOD(S): \_\_\_\_\_
- COMPREHENSIVE REPORT PREPARATION
- OTHER: \_\_\_\_\_

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> VAPOR EXTRACTION SYSTEM              | <input type="checkbox"/> CARBON FILTRATION           | <input type="checkbox"/> SANITARY SEWER  |
| <input type="checkbox"/> GROUNDWATER PURGE SYSTEM             | <input type="checkbox"/> AIR STRIPPER                | <input type="checkbox"/> PUMP & HAUL     |
| <input type="checkbox"/> PERFORMANCE MONITORING/<br>REPORTING | <input type="checkbox"/> BIOREACTOR                  | <input type="checkbox"/> NPDES DISCHARGE |
| <input type="checkbox"/> OPERATIONS/MAINTENANCE               | <input type="checkbox"/> IN-SITU BIO-<br>DEGRADATION | <input type="checkbox"/> LANDFILL        |
| <input type="checkbox"/> OTHER _____                          | <input type="checkbox"/> OTHER _____                 | <input type="checkbox"/> OTHER _____     |

- INVESTIGATION WORKPLAN(S) SUBMITTED?
- CORRECTIVE ACTION PLAN(S) SUBMITTED?

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Michigan Department of Natural Resources  
 Environmental Response Division  
 Jackson District Office  
 Phone (517) 788-9598

ACT 478 (LUST) COMPLIANCE WORKSHEET

Facility Name: *Ann Arbor City Garage* Master Site ID:  
 Location: *721 N. Main St.* County: *Washtenaw*  
*Ann Arbor* Date Affidavit Received: *4-27-90*  
 Date release reported: *12-15-89*

	Date Received	In Compliance		
	=====	=====	=====	=====
a) Initial abatement report submitted within 20 days after confirmed release	<i>1-3-90</i>	<input checked="" type="radio"/>	N	
b) Reasonable notice of removal, disposal or remediation of contaminated soils		<input checked="" type="radio"/>	N	
c) Site characterization report submitted within 45 days after confirmed release		<input checked="" type="radio"/>	N	
d) Free product removal report submitted within 45 days after confirmed release		Y	N	<input checked="" type="radio"/> NA
e) Site investigation work plan submitted within 45 days after confirmed release		Y	N	
f) Site investigation conducted and report submitted in accordance with the approved implementation schedule		Y	N	
g) Corrective action plan submitted in accordance w/DNR schedule; if disapproved, revisions submitted on schedule		Y	N	NA
h) Corrective actions implemented and report/results submitted according to schedule in the corrective action plan		Y	N	NA
i) Additional information submitted as requested		Y	N	NA

Comments:

ERD Reviewer:

*B. Michalski* Date: *6-11-90*

ERD Project Manager:

Reviewer shows claimant compliant?  Y N

LUST SITE WORK SUMMARY

SITE NAME: Ann Arbor City Garage MASTER SITE NO: \_\_\_\_\_  
SITE ADDRESS: 721 N. Main CONFIRMED RELEASE NO: C-1129-89  
Ann Arbor CLAIM NO: \_\_\_\_\_  
COUNTY: Washtenaw MDNR PROJECT MOR: Michalski  
INITIAL PREPARATION DATE: 6-11-90 REVISIONS: \_\_\_\_\_

INITIAL ABATEMENT, SITE CHARACTERIZATION, FREE PRODUCT REMOVAL

- TANK REMOVAL - NO 1 TANK TESTING
- SOIL REMOVAL + VOLUME? \_\_\_\_\_
- SOIL SAMPLING/ANALYSES - NO.: 3
- NA MITIGATION OF FIRES/EXPLOSION THREATS - METHOD? \_\_\_\_\_
- NA FREE PRODUCT REMOVAL - VOLUME? \_\_\_\_\_ METHOD? \_\_\_\_\_
- GROUNDWATER REMOVAL - VOLUME? \_\_\_\_\_ METHOD? \_\_\_\_\_
- GROUNDWATER SAMPLING/ANALYSES 1
- OTHER - SPECIFY \_\_\_\_\_

INVESTIGATION, REMEDIATION, MONITORING

- SOIL BORINGS - NO.: \_\_\_\_\_
- SOIL SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- MONITOR WELLS (INCLUDES SURVEYING) - NO.: \_\_\_\_\_
- GROUNDWATER SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- SURFACE WATER SAMPLING/ANALYSES - NO.: \_\_\_\_\_
- GEOPHYSICAL SURVEY - SPECIFY METHOD(S): \_\_\_\_\_
- COMPREHENSIVE REPORT PREPARATION
- OTHER: \_\_\_\_\_

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> VAPOR EXTRACTION SYSTEM              | <input type="checkbox"/> CARBON FILTRATION           | <input type="checkbox"/> SANITARY SEWER  |
| <input type="checkbox"/> GROUNDWATER PURGE SYSTEM             | <input type="checkbox"/> AIR STRIPPER                | <input type="checkbox"/> PUMP & HAUL     |
| <input type="checkbox"/> PERFORMANCE MONITORING/<br>REPORTING | <input type="checkbox"/> BIOREACTOR                  | <input type="checkbox"/> NPDES DISCHARGE |
| <input type="checkbox"/> OPERATIONS/MAINTENANCE               | <input type="checkbox"/> IN-SITU BIO-<br>DEGRADATION | <input type="checkbox"/> LANDFILL        |
| <input type="checkbox"/> OTHER _____                          | <input type="checkbox"/> OTHER _____                 | <input type="checkbox"/> OTHER _____     |

- INVESTIGATION WORKPLAN(S) SUBMITTED? \_\_\_\_\_
- CORRECTIVE ACTION PLAN(S) SUBMITTED? \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# MUSTAFA ELIGIBILITY AFFIDAVIT

This section should be completed only if you have a confirmed release. Section I should also be completed regardless of whether you have submitted it before.

The references indicated at the end of each question relate to the sections of Act 478 of the Public Acts of 1988 as amended.

## Section II - Confirmed Release Section (For Each Tank)

1.  Y  N  NA Did you report the release within twenty-four (24) hours of the confirmation of discovery of the release to the Michigan Department of State Police, Fire Marshal Division. Reports can be made by telephone to 1-800-MICHUST.  
[Sec. 6(1c)]  
  
[A site assessment report is acceptable if there is no visible evidence (sight or smell) of a release.]
2.  Y  N  NA Within twenty (20) days after the confirmation of a release, did you submit to the Director of the Department of Natural Resources, a report summarizing the initial abatement steps taken and any resulting information or data. [Sec. 7(2)]
3.  Y  N  NA Did you give the Director of the Department of Natural Resources reasonable notice of and an opportunity to monitor the removal, disposal, or remediation of contaminated soil. [Sec. 7(1)(d)]
4.  Y  N  NA Within forty-five (45) days after the confirmation of the release, did you submit to the Director of the Department of Natural Resources, a site characterization report which contains, at least a) data on the nature and estimated quantity of the release, b) demographic information relating to water use quality and location of wells, c) results of the site characterization, and d) results of the free product investigation. [Sec. 7(4)]
5.  Y  N  NA Within forty-five (45) days of the confirmation of a release, at a site where an investigation indicates the presence of free product, did you submit to the Director of the Department of Natural Resources a free product removal report as specified in [Sec. 7(5)(d)].
6.  Y  N  NA Within forty-five (45) days of the confirmation of a release, did you submit to the Director of the Department of Natural Resources a work plan for investigation of the site to determine the full extent and location of soils, ground water, and surface water contaminated by the release, and determine the presence and contamination of the regulated substance which cause the contamination. [Sec. 7(6)]
7.  Y  N  NA Upon approval of the site investigation plan, did you conduct the investigation and submit the results in accordance with the schedule established in the approved work plan. [Sec. 7(7)]
8.  Y  N  NA If a corrective plan is required by the Director of the Department of Natural Resources, did you submit the corrective action plan according to the schedule established by the Department of Natural Resources. If the plan is disapproved, did you submit the amended corrective action plan with deficiencies corrected according to the schedule specified. [Sec. 8(1-3)]
9.  Y  N  NA Was the implementation of the corrective action plan accomplished according to the schedule in the approved plan. Did you also monitor, evaluate, and report the results of implementing the plan in accordance with a schedule established by the Director.  
[Sec. 8(4)]
10.  Y  N  NA If required by the Director, did you submit additional information as requested. [Sec. 8(1)] The owner or operator must also be in compliance with all rules promulgated under the act.

(SIGN ON REVERSE SIDE)

SEND TO:

MUSTAFA Fund Administrator, DMB/Risk Management, Lewis Cass Building,  
P.O. Box 30026, Lansing, MI 48909.



MUSTFA ELIGIBILITY AFFIDAVIT

This Affidavit is to be completed if you are seeking eligibility for the Michigan Underground Storage Tank Financial Assurance (MUSTFA) Fund or if you have a confirmed release and are applying to MUSTFA for financial assistance. This Affidavit may be used to apply for the Certificate of Eligibility necessary to access the MUSTFA interest subsidy program.

Only Section I need be completed if you are applying for pre-release eligibility. You must complete both sections of the Affidavit whenever you have a confirmed release, even if you have submitted the pre-release section before.

The answers to this Affidavit should be complete and accurate. Falsification or misrepresentation of the information on this Affidavit shall cause you to be ineligible for the MUSTFA Fund and may prompt recovery action for any amounts you have received from the Fund.

If the question is not applicable to your situation, circle the NA portion of the answer. For example, in question #2 of the eligibility section, there are three options. Answer NA for those options which are not applicable to you and Y for the one that is applicable.

Section I - Eligibility Section (For Each Location)

- 1.  Y  N Is your underground storage tank (UST) system properly registered with the State Fire Marshal?
- 2. a.  Y  N  NA Do you have accurate inventory records for your UST for the previous 6 months? *NOT IN USE FOR PRIOR 6 MONTHS.*  
 or  
 b.  Y  N  NA Monitoring records pertaining to your release detection system?  
 or  
 c.  Y  N  NA Results of the latest precision tank test along with inventory records?
- 3.  Y  N  NA If the UST was a steel UST installed after December 22, 1988 with corrosion protection, do you have a corrosion expert's analysis of the site?
- 4.  Y  N  NA Do you have the latest cathodic protection monitoring records for your UST? (Applicable if your steel UST has cathodic protection).
- 5. a.  Y  N  NA If your UST was repaired since July 1983, did you test the repaired UST and forward a copy of the test to the State Fire Marshal?  
 or  
 b.  Y  N  NA Do you have records pertaining to a repair or test of your UST performed during the past year?
- 6.  Y  N  NA Did you notify the State Fire Marshal of a change in tank status (i.e., temporarily out of service)? *Registered with SFM in 1986 under same status as release date.*  
 or  
 b.  Y  N  NA Did you notify the State Fire Marshal 30 days prior to UST closure/removal?
- 7.  Y  N  NA Upon closure/removal of your UST, did you forward a copy of the site assessment report to the State Fire Marshal within 45 days?  
 NOTE: Not required if confirmed release was reported within 24 hours of discovery and a site assessment was not performed.
- 8.  Y  N  NA Do you meet the \$10,000 financial assurance requirements specified in Act 518 of the Public Acts of 1988, as amended? What mechanism are you using? *Self Ins.*

I affirm that the answers provided in this affidavit are true and correct to the best of my knowledge and that I am the responsible individual indicated below.

Daniel J. Cullen / City of Ann Arbor  
Name (Owner or Operator)  
*municipal garage*  
721 N. Main St. Ann Arbor, MI 48106  
Location Address  
*(313) 994-6696*  
Phone No.

Lisa A. Petrowske  
Notary  
10-20-92  
My commission expires  
02/16/90-128  
FEB 16 1990

'81000002'	AvFuel Bulk Facility	State and Ellsworth Rds.	Ann Arbor	48104 Washtenaw		Aviation fuel; Kerosene	21	6/3/2004 03S	06E	17 NW	SE	Interim Response conducted - No further activities antic
'81000003'	Ann Arbor Sanitary LF	PLATT & ELLSWORTH	Ann Arbor	48107 Washtenaw		4,4'-DDD; Benzene; Toluene	24	7/14/2004 03S	06E	15 NE	NE	Interim Response in progress
'81000005'	Armen Cleaners	630 S Ashley	Ann Arbor	48103 Washtenaw		PCE	48	8/18/2004 02S	06E	29 SW	SE	Interim Response in progress
'81000009'	Braun Charles Warehouse	4175 WHITMORE LAKE RD	Ann Arbor	48125 Washtenaw		Fertilizers; Pesticides	16	6/4/2004 02S	06E	5 SW	SE	Interim Response conducted - No further activities antic
'81000018'	Gelman Sciences Inc	600 South Wagner Road	Ann Arbor	48103 Washtenaw		1,4-Dioxane	38	6/8/2004 02S	05E	26 SE	NE	Remedial Action in Progress (may incl. use restrictions, C
'81000022'	Ann Arbor Biological	6780 JACKSON RD	Ann Arbor	48103 Washtenaw		Formaldehyde	28	6/8/2004 02S	05E	20 NE	SE	Inactive - no actions taken to address contamination
'81000024'	Mich Con Beakes St	BEAKES & SUMMIT STS	Ann Arbor	48104 Washtenaw		As; Benzene; Cd; Cr+6; Cu; CN; Ethylbenzene; Pb; Toluene; Hg	41	6/9/2004 02S	06E	20 SE	SE	Interim Response in progress
'81000025'	Mich Con Broadway St	841 Broadway Street	Ann Arbor	48105 Washtenaw	Petroleum & Coal Products	As; CN; Pb; Ni; Zn; Phthalates	44	7/14/2004 02S	06E	20 SW	SE	Interim Response in progress
'81000032'	Res Well Nancy Dr	70 NANCY DRIVE	Ann Arbor	48103 Washtenaw	Nonclassifiable Establishments	1,1,1 TCA; 1,2 DCA; TCM; VC	22	6/10/2004 02S	05E	26 NE	NW	Interim Response in progress
'81000036'	Staebler Road GW Contam	N. Staebler Rd & Jackson Rd	Ann Arbor	48103 Washtenaw	Nonclassifiable Establishments	1,1,1 TCA; 1,4-Dioxane; Benzene; TCE	28	6/10/2004 02S	05E	20		Interim Response conducted - No further activities antic
'81000039'	Thetford Corp	7101 JACKSON RD	Ann Arbor	48103 Washtenaw		Formaldehyde; Methylene chloride	14	6/14/2004 02S	05E	20 NW	SE	Inactive - no actions taken to address contamination
'81000041'	Univ of Mich Hospital Fuller Rd	Fuller Rd.	Ann Arbor	48103 Washtenaw		Nitrate	26	6/13/2005 02S	06E	28 NE	NW	Interim Response in progress
'81000043'	University of Mich LF No 1	WASHINGTON HEIGHTS	Ann Arbor	48104 Washtenaw		Benzene; Xylenes	30	6/15/2004 02S	06E	28 NE	NE	Interim Response in progress
'81000044'	UM North Campus Landfill Area	HURON PKWY	Ann Arbor	48104 Washtenaw		As; Methylene chloride	36	6/15/2004 02S	06E	27 NE	NW	Interim Response in progress
'81000045'	Washtenaw Co Rd Comm Zeeb Rd	500 North Zeeb Road	Ann Arbor	48103 Washtenaw	Road Commission	Ethylene glycol; Oil; Salt	34	6/16/2004 02S	05E	21 NE	NE	Interim Response in progress
'81000064'	1943 Jackson Avenue	1943 Jackson Ave	Ann Arbor	48104 Washtenaw		Cd; Cu; Pb; Ni; Zn	28	6/17/2004 02S	06E	30 NW	SE	Interim Response in progress
'81000066'	Anspec Company	122 Enterprise Drive	Ann Arbor	48103 Washtenaw		1,1,1 TCA; 1,1 DCA; 1,1 DCE; 1,4-Dioxane; As; Co; Toluene; Zn	26	5/15/1991 02S	05E	20 NW	NE	Deleted - available documentation does not support listi
'81000093'	Lansky Scrapyard	1100 N Main	Ann Arbor	Washtenaw		PCB's; Diesel fuel; Metals; PNAS	24	6/18/2004 02S	06E	20 SE	NW	Interim Response in progress
'81000094'	Allen Creek Drain	912 N Main St	Ann Arbor	Washtenaw		Benzene; Ethylbenzene; Toluene; Xylenes	28	6/18/2004 02S	06E	20 SE	SE	Interim Response in progress
'81000099'	Whispering Woods	5572 Lohr Rd.	Ann Arbor	48108 Washtenaw	Unknown	Toluene; TCE	28	7/13/2005 03S	06E	19 SE	NE	Remedial Action in Progress (may incl. use restrictions, C
'81000105'	U of M Argus Building	400 Fourth St	Ann Arbor	48103 Washtenaw			37	11/1/2006 02S	06E	29		See Leaking Underground Storage Tank Site Database
'81000126'	Shell Service Station 1800 Plymouth Rd	1800 Plymouth Rd	ann arbor	48105 Washtenaw	Gasoline Service Station		28	1/29/2010 02S	06E	22		See Leaking Underground Storage Tank Site Database
'81000161'	Cooch Drain	1717 South State	Ann Arbor	Washtenaw	Nonclassifiable Establishments	Gasoline; Petroleum	32	6/21/2004 02S	06E	33 SW	SW	Inactive - no actions taken to address contamination
'81000218'	Arbor Wash 213	3031 Washtenaw Ave	Ann Arbor	48104-511 Washtenaw			41	8/8/2006 03S	06E	2		See Leaking Underground Storage Tank Site Database
'81000405'	Growers Supply	33 N. Staebler	Ann Arbor	43103 Washtenaw	Plastics Products	TCE; Xylenes	32	6/22/2004 T2S	R5E	20 NE	SE	Interim Response in progress
'81000412'	Diehl's Auto Parts	1771 PLYMOUTH ROAD	Ann Arbor	48105 Washtenaw			23	6/23/2004 02S	06E	21 NE	SW	Inactive - no actions taken to address contamination
'81000442'	Washtenaw Comm Coll Powerhouse	4800 E. Huron River Drive	Ann Arbor	48106 Washtenaw	College & Universities	Benzene; PAHs	21	6/23/2004 02S	06E	36 NW	SE	Interim Response in progress
'81000447'	The Produce Station	1635 S. State St.	Ann Arbor	Washtenaw	Petroleum & Coal Products	Benzene; Ethylbenzene; Toluene; Xylenes	36	6/24/2004 02S	06E	33 SW	SW	Interim Response in progress
'81000491'	Platt Road Dump	formerly 5375 Platt Road	Ann Arbor	48108 Washtenaw	Refuse Systems	PCB's; PNAS	35	7/2/2004 03S	06E	23 NW	SW	Interim Response in progress
'81000492'	Arborland Mall	3693 Washtenaw	Ann Arbor	48104 Washtenaw	Dry Cleaning Plants	PCE; TCE	37	7/2/2004 3S	6E	2 NE		Interim Response in progress
'81000497'	Broadway Coin Laundry	1120 Broadway	Ann Arbor	Washtenaw			39	7/2/2004 02S	06E	21 SW	SW	Evaluation conducted
'81000534'	Georgetown Cleaners	2502-2568 Packard Road	Ann Arbor	Washtenaw			40	7/6/2004 03S	06E	4 SE	NE	Evaluation in progress
'81000540'	Eaton Corporation	315 South First Street	Ann Arbor	48103 Washtenaw			35	3/27/2007 02S	06E	29		Interim Response conducted
'81000542'	Hideaway Lane	2000 and 2018 Traver Road	Ann Arbor	48104 Washtenaw			23	5/24/2005 02S	06E	16		Evaluation conducted
'81000543'	H and K Campus Properties	212-216 South State Street	Ann Arbor	48104 Washtenaw			27	5/25/2005 02S	06E	29		Evaluation conducted
'81000544'	Ann Arbor Civic Theater	2275 Platt Road	Ann Arbor	48104 Washtenaw			32	5/25/2005 03S	06E	2		Evaluation conducted
'81000547'	1254 N. Main/ Lotus Engineering	1254 North Main Street	Ann Arbor	48197 Washtenaw			35	5/24/2005 02S	06E	20		Evaluation conducted
'81000549'	Valley Cleaners	2835-2931 Carpenter Road	Ann Arbor	48108 Washtenaw			36	5/26/2005 03S	06E	1		Evaluation conducted
'81000553'	3365 Washtenaw/Cueter Chrysler Jeep	3365 Washtenaw Ave	Ann Arbor	48104 Washtenaw			32	5/27/2005 03S	06E	2		Evaluation conducted
'81000554'	3853 Research Park Dr./NSK America	3853 Research Park Dr	Ann Arbor	48106 Washtenaw			18	6/16/2010 03S	06E	9		Evaluation conducted
'81000555'	396-424 W. Washington/AnnArbor YMCA	396-424 W. Washington St.	Ann Arbor	48103 Washtenaw			36	5/31/2005 02S	06E	29		Evaluation conducted
'81000556'	4180 Gleaner Hall Rd	4180 Gleaner Hall Rd	Ann Arbor	48105 Washtenaw			19	5/31/2005 02S	06E	4		Evaluation conducted
'81000560'	815 Wildt St	815 Wildt St.	Ann Arbor	48103 Washtenaw			29	6/2/2005 02S	06E	20		Evaluation conducted
'81000563'	3300 Plymouth	3300 Plymouth Rd	Ann Arbor	48105 Washtenaw			42	6/3/2005 02S	06E	14		Evaluation conducted
'81000567'	Ann Arbor Machine	78 Jackson Plaza	Ann Arbor	48103 Washtenaw			36	6/29/2006 02S	05E	26		Evaluation conducted



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Storage Tank Information Database

### Storage Tank Facilities List



#### Facility and Tank Details

**Facility Information:**

Facility ID:00008427  
City Garage  
721 N Main St, Ann Arbor, MI 48104  
Phone# : (734) 994-2744

**Owner Information:**

City of Ann Arbor  
PO Box 8647 100 N Fifth Ave, Ann Arbor, MI 48107  
Phone# : (734) 794-6000

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	500	4/3/1971 12:00:00 AM	Used Oil			Galvanized Steel		Asphalt Coated or Bare Steel	No
2	Removed from Ground	2000	4/2/1978 12:00:00 AM	Diesel			Galvanized Steel		Asphalt Coated or Bare Steel	No
3	Closed in Ground			UNK			Unknown		Unknown	No

#### Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-1129-89	City Of Ann Arbor Garage	12/15/1989		Closed	01/05/2000	Tier I Evaluation	NONE
C-2246-91	City Of Ann Arbor Garage	10/23/1991	Unknown	Closed	01/05/2000	Tier I Evaluation	NONE
C-0753-95	City Of Ann Arbor Garage	06/16/1995	Diesel	Closed	01/05/2000	Tier I Evaluation	NONE



JOHN ENGLER, Governor

**DEPARTMENT OF ENVIRONMENTAL QUALITY***"Better Service for a Better Environment"*

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

REPLY TO:

JACKSON DISTRICT OFFICE  
STATE OFFICE BUILDING  
301 E LOUIS GLICK HWY  
JACKSON MI 49201-1556

January 13, 2000

Ms. Elizabeth Rolla  
City of Ann Arbor  
100 North Fifth Avenue  
P. O. Box 8047  
Ann Arbor, Michigan 48107

Dear Ms. Rolla:

**SUBJECT:** Audit of Corrective Actions  
Confirmed Release Date: December 15, 1989, October 23, 1991 and June 16, 1995  
Location of Tank(s): City of Ann Arbor Maintenance Garage, 721 North Main Street,  
Ann Arbor, Washtenaw County, Michigan  
Facility ID: 0-008427

Under the authority of Section 21315 of Part 213, Leaking Underground Storage Tanks (LUST), of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), the Department of Environmental Quality (DEQ), Storage Tank Division (STD), has conducted an audit of the corrective actions undertaken as the result of a release from an underground storage tank system at the subject site. The audit was conducted following receipt of a Closure Report submitted by NTH Consultants, Ltd., Qualified Underground Storage Tank Consultant (QC), and certified by Mr. David Nona, Certified Underground Storage Tank Professional.

The audit consisted of a review of district file documents. Based on this audit, the STD agrees with the conclusion by the QC that corrective actions at the site have been completed in accordance with Part 213. Corrective action at the site has resulted in Unrestricted residential use of the site based on a Tier I evaluation.

Please note the following conditions:

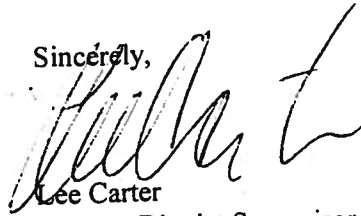
When contaminated soil and/or groundwater as a result of a release of a regulated substance remains on site consistent with site closure requirements, the owner/operator shall not remove or allow this soil and/or groundwater to be removed from the site to an off-site location without properly characterizing the soils and/or groundwater to determine that they can be lawfully relocated without posing a threat to the public health, safety, or welfare, or the environment. The determination shall consider whether the soil and/or groundwater is subject to regulations under Part 111, Hazardous Waste Management, of Act 451, and/or Part 115, Solid Waste Management, of Act 451.

Prospective purchasers or users of this property should conduct all appropriate inquiry to determine if their proposed land use might alter the conditions of the site closure and result in unacceptable risks to human health.

All groundwater monitoring wells and other similar devices installed as part of the corrective action activities at the site must be properly abandoned when they are no longer needed for their original purpose or modified purpose. Abandonment should be completed in accordance with American Society of Testing Materials Standard D 5299-92, "Standard Guide for Decommissioning Ground Water Wells, Vadose Zone Monitoring Devices, Boreholes, and Other Devices for Environmental Activities." Proper abandonment of groundwater monitoring wells and other potential conduits for contamination should be performed within 60 days after use has been discontinued.

If you have any questions, please contact Mr. Terry Hiske, Project Manager, at the Jackson District Office, DEQ, STD, 301 East Louis Glick Highway, Jackson, Michigan, or at telephone number 517-780-7928.

Sincerely,



Lee Carter

Jackson District Supervisor  
Storage Tank Division  
517-780-7920

LC:lkg

cc: NTH Consultants, Ltd.  
Mr. Terry Hiske, DEQ

**NTH Consultants, Ltd.**

Professional Engineering and  
Environmental Services



38955 Hills Tech Drive  
P.O. Box 9173  
Farmington Hills, MI 48333-9173  
(248) 553-6300  
(248) 489-0727 Fax

Mr. Terry Hiske  
Environmental Quality Specialist  
DEQ-STD  
301 East Louis Glick Hwy  
Jackson, Michigan 49201

December 9, 1999  
Proj. No. 13-500A-11

Dear Mr. Hiske:

Attached is the Underground Storage Tank Closure Report for the City of Ann Arbor Maintenance Garage for your review. This property is located at 721 North Main Street, Ann Arbor, Michigan. We are requesting an expedited review process, as the city is interested in finalizing plans for future use of the site.

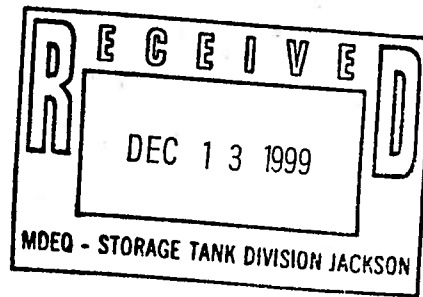
Feel free to contact either Jim Parsons or myself with any questions you may have. Thank you for your time.

Sincerely,

NTH Consultants, Ltd.

Brian C. Olesen  
Staff Engineer

James J. Parsons  
Senior Project Engineer



753-95 · 6-16-95  
1124-89 12-15-89  
2240-91 10-23-91

BCO/JJP/pb

Attachment

cc: Elizabeth Rolla, City of Ann Arbor



DEPARTMENT OF ENVIRONMENTAL QUALITY STORAGE TANK DIVISION  
LEAKING UNDERGROUND STORAGE TANK  
CLOSURE REPORT

1-5-99

INSTRUCTIONS: COMPLETION OF THIS REPORT WITH ALL APPLICABLE INFORMATION IS MANDATORY. The Certified Underground Storage Tank Professional (CP) MUST sign below. Failure to submit this report within the stated time period may result in administrative penalties as provided for in Part 213, Section 21313a of 1994 PA 451, as amended.

FACILITY NAME: City Maintenance Garage - City of Ann Arbor FACILITY ID NUMBER: 0-008427

ADDRESS: 721 N. Main Street

CITY: Ann Arbor, Michigan

ZIP: 48107

COUNTY: Washtenaw

DATE(S) RELEASE DISCOVERED: June 1995

CONFIRMED RELEASE NUMBER(S): G-753-95

O/O NAME: City of Ann Arbor

O/O ADDRESS: 100N Fifth Avenue, P.O. Box 8647

STATE: MI

ZIP: 48107

CONTACT PERSON: Elizabeth Rolla

PHONE NUMBER: (734) 994-2744

ANSWER ALL QUESTIONS (DO NOT LEAVE BLANKS):

1. a. Has the UST been emptied?  YES  NO (if no, explain why):  
b. Has the UST system been properly closed?  YES  NO (if no, explain why):
2. Free product present: a. Currently?  YES  NO If YES, total gallons recovered since last report: \_\_\_\_\_  
b. Previously?  YES  NO If YES, total gallons recovered to date: 1.65 gallons
3. Have vapors been identified in any confined spaces (basement, sewers, etc.)?  YES  NO
4. State the number of homes where drinking water is or was affected as a result of a release from this facility: Zero
5. Estimated distance and direction from point of release to nearest:  
a. Private well: 0.5 mile b. Municipal well: 0.5 mile c. Surface water/wetland: Huron River 1000'NE
6. Since last report: a. cubic yards of soil remediated: 0 b. gallons of groundwater remediated: 2.5 mil
7. Totals to date: a. cubic yards of soil remediated: 45 cy b. gallons of groundwater remediated: 2.5 mil
8. Michigan RBCA Site Classification (1-4): 4 Previous RBCA Site Classification (1-4): 4
9. Has contamination migrated off-site above Tier 1 Residential RBSLs  YES  NO  
If YES, have off-site impacted parties been notified (per Section 21309a(3) of Part 213)  YES  NO
10. Is an institutional control required for contamination that has migrated or will migrate off-site?  YES  NO
11. Was site closure based on eliminating any groundwater pathway?  YES  NO

CERTIFICATION OF REPORT COMPLETION

I, the undersigned CP, hereby attest to the best of my knowledge and belief that the statements in this document and all attachments are true, accurate and complete. I certify that it was submitted to the Storage Tank Division (STD) on 12-10-99 Date Submitted (REQUIRED)

David J. Adler  
CP Original Signature - (REQUIRED)

12-10-99 Date Dave Nona PRINT QC Project Manager's Name

David J. Adler  
PRINT CP's Name

NTH Consultants, Ltd.  
CONSULTANT

38955 Hills Tech Drive, Farmington Hills, MI  
ADDRESS

(248) 553-6300  
TELEPHONE NO.

(248) 324-5179  
FAX NO.

CERTIFICATION OF CLOSURE

1. Type of RBCA Evaluation:  Tier 1  Tier 2  Tier 3
2. Closure report based on which type of land use?:  Residential  Commercial III  Commercial IV  Industrial
3. Institutional Controls:  None  Notice of Corrective Action  Restrictive Covenant  Other

I certify under penalty of law that corrective actions associated with the above referenced release at this facility were completed in accordance with Part 213, Act 451, P.A. 1994 as amended, and current departmental guidance and procedures available at the time the work was completed.

I further certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

David J. Adler  
CP Signature - (REQUIRED)

12-10-99  
Date

PLEASE RETURN THIS COMPLETED REPORT AND ASSOCIATED ATTACHMENTS TO THE APPROPRIATE STD DISTRICT OFFICE, ACCORDING TO PAGE 2.

## STORAGE TANK DIVISION OFFICES AND LOCATIONS

Determine in which county/city the UST is located. Return this form and associated reports to the office listed next to that county/city in the following table.

COUNTY	STD OFFICE	COUNTY	STD OFFICE	COUNTY	STD OFFICE	COUNTY	STD OFFICE
Aicora	Gaylord	Dickinson	Marquette	Lake	Cadillac	Oceana	Grand Rapids
Alger	Marquette	Eaton	Shiawassee	Lapeer	Shiawassee	Ogemaw	Gaylord
Alegan	Plainwell	Emmet	Gaylord	Leelanau	Cadillac	Ontonagon	Marquette
Alpena	Gaylord	Genesee	Shiawassee	Lenawee	Jackson	Osceola	Cadillac
Antrim	Gaylord	Gladwin	Gaylord	Livingston	Shiawassee	Oscoda	Gaylord
Arenac	Gaylord	Gogebic	Marquette	Luce	Marquette	Otsego	Gaylord
Baraga	Marquette	Grand Traverse	Cadillac	Mackinac	Marquette	Ottawa	Grand Rapids
Barry	Plainwell	Gratiot	Shiawassee	Macomb	SE Michigan	Presque Isle	Gaylord
Bay	Saginaw-Bay	Hillsdale	Jackson	Manistee	Cadillac	Roscommon	Gaylord
Benzie	Cadillac	Houghton	Marquette	Marquette	Marquette	Saginaw	Saginaw-Bay
Berrien	Plainwell	Huron	Saginaw-Bay	Mason	Cadillac	Sanilac	Saginaw-Bay
Branch	Jackson	Ingham	Shiawassee	Mecosta	Grand Rapids	Schoolcraft	Marquette
Calhoun	Jackson	Ionia	Grand Rapids	Menominee	Marquette	Shiawassee	Shiawassee
Cass	Plainwell	Iosco	Gaylord	Midland	Saginaw-Bay	St Clair	SE Michigan
Charlevoix	Gaylord	Iron	Marquette	Missaukee	Cadillac	St Joseph	Plainwell
Cheboygan	Gaylord	Isabella	Saginaw-Bay	Monroe	SE Michigan	Tuscola	Saginaw-Bay
Chippewa	Marquette	Jackson	Jackson	Montcalm	Grand Rapids	Van Buren	Plainwell
Clare	Gaylord	Kalamazoo	Plainwell	Montmorency	Gaylord	Washtenaw	Jackson
Clinton	Shiawassee	Kalkaska	Cadillac	Muskegon	Grand Rapids	Wayne	SE Michigan
Crawford	Gaylord	Kent	Grand Rapids	Newaygo	Grand Rapids	Wexford	Cadillac
Delta	Marquette	Keweenaw	Marquette	Oakland	SE Michigan		
CITY	STD OFFICE	CITY	STD OFFICE	CITY	STD OFFICE		
Detroit	Detroit	Highland Park	Detroit	Hamtramck	Detroit		

<b><u>CADILLAC OFFICE</u></b> 120 W CHAPIN ST CADILLAC MI 49601-2158  616-775-3960 (PHONE) 616-775-1511 (FAX)	<b><u>DETROIT OFFICE</u></b> 300 RIVERPLACE, SUITE 3600 DETROIT MI 48207  313-392-6480 (PHONE) 313-392-6488 (FAX)	<b><u>PLAINWELL OFFICE</u></b> 1342 SR-89 WEST, SUITE B PLAINWELL MI 49080-1915  616-692-2120 (PHONE) 616-692-3050 (FAX)
<b><u>GAYLORD OFFICE</u></b> 1732 W M-32, PO BOX 667 GAYLORD MI 49735-0667  517-731-4920 (PHONE) 517-731-6181 (FAX)	<b><u>JACKSON OFFICE</u></b> 301 E LOUIS GLICK HIGHWAY JACKSON MI 49201-1556  517-780-7690 (PHONE) 517-780-7855 (FAX)	<b><u>SAGINAW-BAY OFFICE</u></b> 503 N EUCLID AVE SUITE 1 BAY CITY MI 48706-2965  517-686-8025 (PHONE) 517-684-9799 (FAX)
<b><u>GRAND RAPIDS OFFICE</u></b> 350 OTTAWA ST NW 6TH FLOOR GRAND RAPIDS MI 49503-2341  616-356-0500 (PHONE) 616-356-0202 (FAX)	<b><u>MARQUETTE OFFICE</u></b> 1990 US 41 SOUTH MARQUETTE MI 49855-9198  906-228-6561 (PHONE) 906-228-5245 (FAX)	<b><u>SHIAWASSEE OFFICE</u></b> 10650 BENNETT DR MORRICE MI 48857-9792  517-625-5515 (PHONE) 517-625-5000 (FAX)
<b><u>SE MICHIGAN OFFICE</u></b> 38980 SEVEN MILE RD LIVONIA MI 48152-1006  734-953-8905 (PHONE) 734-432-1295 (FAX)	<b><u>HEADQUARTERS</u></b> 333 S CAPITOL AVE PO BOX 30157 LANSING MI 48909-7657  517-373-8168 (PHONE) 517-335-2245 (FAX)	



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY - STORAGE TANK DIVISION  
CLOSURE REPORT (Continued)

**Instructions** - Utilize the following checklist to ensure that all required information is provided in the Closure Report. Include this checklist as the table of contents. The order in which the information is provided is at your discretion. Each page of the report (including the cover sheet, table of contents, appendices, figures, etc.) should be consecutively numbered. The location column should be completed with the appropriate page number for each item. You may reference previously submitted materials by specifying the location within that document. Maps, tables, figures, etc. should be combined as appropriate.

All information required by Part 213 to be included in the Closure Report **must** be provided, and all sections of the report must be completed. If any items are not applicable to the site, provide a justification regarding the absence of this information in the appropriate section of the report.

If an Initial Assessment Report (IAR) and/or a Final Assessment Report (FAR) have not been submitted for this release, provide all required information from the IAR and/or FAR not included below.

Section	Table of Contents	Page
<b>1.0</b>	<b><u>PROJECT CHRONOLOGY</u></b>	
	A. Provide the date and time the confirmed release(s) was/were discovered and reported.	<u>8</u>
	B. Provide the IAR submittal date.	<u>8</u>
	C. Provide the FAR submittal date.	<u>8</u>
	D. Provide dates for any other submittals.	<u>8</u>
<b>2.0</b>	<b><u>SUMMARY OF CORRECTIVE ACTION ACTIVITIES PERFORMED</u></b>	
<b>2.1</b>	<b>IMMEDIATE RESPONSE ACTION IMPLEMENTATION</b>	
	If an IAR has not been previously submitted, provide all information requested in Section 1.0 of the IAR	<u>8</u>
<b>2.2</b>	<b>FREE PRODUCT DISCOVERY AND REMOVAL</b>	
	If free product has not been discovered, then proceed to Section 2.3.	
	A. Describe initial response actions performed at this site to address the presence of free product as specified in Sections 21307(2)(c) and (f), and (3)(b) and (c), 21308a(1)(b)(xviii). Refer to the STD Operational Memorandum No. 7, <i>Identification, Reporting, and Recovery of Free Product at LUST Sites</i> .	<u>8</u>
	B. Attach a final STD Free Product Recovery Status Report (EQP 3850) if not previously submitted.	<u>8</u>
<b>2.3</b>	<b>SITE ASSESSMENT ACTIVITIES</b>	
	A. If an IAR has not been previously submitted, provide all information requested in Section 3.0 of the IAR.	<u>8</u>
	B. If a FAR has not been previously submitted, provide all information requested in Section 2.0 of the FAR.	<u>8</u>

Section	Table of Contents	Page
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**2.4 SITE CLASSIFICATION**

- A. Indicate the current Site Classification Level, in accordance with STD Operational Memorandum No. 5, *Leaking Underground Storage Tank (LUST) Site Classification System*. 8
- B. Provide a justification for this classification. Identify the current conditions that are the basis of the classification. 8
- C. Indicate whether the site classification has changed since the submission of the last report. 8

**2.5 TIERED EVALUATIONS AND CLEANUP GOALS**

- A. Indicate whether a site-specific Tier II or Tier III evaluation has been conducted for this site. 9
- B. If applicable, identify and justify where alternate assumptions or site-specific information were used in place of the default assumptions as defined in the STD Operational Memorandum No. 4, *Tier 1 Lookup Tables for Risk-Based Corrective Action at Leaking Underground Storage Tank (LUST) Sites*. 9

**NOTE: If a Tier II evaluation was performed and described in the IAR or the FAR, explicitly indicate where different assumptions or site-specific information were used in this Tier II or Tier III evaluation and why the change was justified.**

- C. Provide the calculations and reference citations supporting the development of the relevant Tier II or Tier III SSTLs. 9
- D. Provide a table which compares the maximum remaining contaminant concentrations for each required parameter for all media to the appropriate RBSLs (as provided in the STD Operational Memorandum No. 4), and/or the calculated SSTLs. Identify all applicable land use scenario(s). 9

**2.6 MODELING**

Provide all modeling documentation. Refer to the STD Operational Memorandum No. 10 *Presentation of Tier 2 and 3 Groundwater Modeling Evaluations*. 9

**2.7 NOTICES AND RESTRICTIONS**

**If the closure does not require the use of institutional controls to restrict land or resource use, then proceed to Section 2.8.**

**NOTE: Draft copies of all Restrictive Covenants and Notices of Corrective Action for off-site institutional controls must be submitted to the STD for approval prior to filing.** Refer to Operational Memorandum No. 12, *Institutional Controls and Public Notice Requirements and Procedures*.

Section	Table of Contents	Page
A.	Submit copies of all notices or restrictions which have been filed, and provide proof of filing these notices or restrictions. If the person filing is not the property owner, attach a copy of the written permission for the filing from the property owner.	<u>9</u>
B.	Identify the individuals or segments of the public which have been provided with notice of the proposed land use restrictions or limitations to be placed on resource use. Include the names and addresses of the affected parties (unless large segments of the public will be provided notice, e.g., users of a municipal water supply system). Include proof that notice was provided to the affected parties.	<u>9</u>
C.	Provide a map depicting the location(s) of the individuals or segments of the noticed public.	<u>9</u>
D.	Describe any alternate mechanism utilized to restrict exposure to regulated substances as defined in Section 324.21310a(3), and justify how this mechanism reliably restricts exposure to the regulated substances.	<u>9</u>
<b>2.8 PERMITS</b>		
	List all discharge permits and/or permit exemptions that were required for the corrective action, and include the type of permit, permit number, application date, approval date and termination date.	<u>9</u>
<b>2.9 CORRECTIVE ACTION PLAN</b>		
A.	Summarize the corrective action activities that resulted in release closure. Include the operating history of any active treatment systems.	<u>9</u>
B.	Summarize the types of monitoring activities performed, including the media and parameters monitored.	<u>9, 10</u>
C.	Attach performance monitoring data.	<u>10</u>
D.	Describe and justify changes to the previously submitted Corrective Action Plan.	<u>10</u>
E.	Provide the total volume of soil remediated, and include disposal location and proof of disposal (e.g., invoices, not load tickets) for all soils excavated subsequent to submittal of the last report, if appropriate.	<u>10</u>
F.	Provide the total volume of groundwater actively remediated to date, and include disposal documentation, if appropriate.	<u>10</u>
<b>3.0 CLOSURE VERIFICATION SAMPLING</b>		
<b>3.1 SOIL CLOSURE VERIFICATION</b>		
<b>NOTE: Verification sampling must be conducted whenever contaminated soils are identified but not remediated, including when contaminated soil is returned to an excavation after the removal of a UST.</b>		

Section	Table of Contents	Page
A. Describe the soil verification sampling strategy applied at the site by providing the following:		
1. A scaled site map which identifies the former extent of the soil contamination, and the soil verification sampling locations relative to existing site features. <i>(Multiple chemical contaminants and multiple sample depths should be addressed on the minimum number of site maps needed to convey the information with clarity and legibility.)</i>		10
2. For a corrective action involving excavation, a scaled drawing(s) showing the floor and walls of the excavation and the associated sampling locations. The drawing should also depict the subsurface stratigraphy, soil types, fractures, discolored soil locations, adjoining conduits or potential migration pathways, and locations of former and existing UST system components, as appropriate.		10
3. A description of how the number and location of samples collected for soil verification purposes was established. If your sampling strategy differs from the MDEQ <i>Verification of Soil Remediation Guidance Document</i> and STD Operational Memorandum No. 9, <i>Groundwater and Soil Closure Verification Guidance</i> , provide justification.		
4. A list of the analytical parameters used to verify the soil remediation.		10
5. A justification if all soil verification samples were not analyzed, preserved, and handled in accordance with the STD Operational Memorandum No. 14 <i>Analytical Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases</i> .		
B. Provide a table with laboratory data showing the results of all verification soil sampling performed to date for the required parameters. Refer to the STD Operational memorandum No. 14 <i>Analytical Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases</i> . The table should include the following:		10
1. Sample ID 2. Sample depth 3. Date of collection 4. Dates of extraction and analysis 5. Method Detection Limits 6. Analytical method		
<i>(NOTE: The STD may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.)</i>		
C. Provide copies of all soil boring logs not previously submitted.		10
<b>3.2 GROUNDWATER CLOSURE VERIFICATION</b>		
A. Describe the groundwater verification sampling strategy applied at the site by providing the following:		
1. A scaled site map which identifies the former extent of groundwater contamination, the groundwater verification sampling locations relative to existing site features, and the groundwater flow direction(s). <i>(Multiple chemical contaminants and multiple aquifer/sample depths should be addressed on the minimum number of site maps needed to convey the information with clarity and legibility.)</i>		10

Section	Table of Contents	Page
2.	A description of how the sampling frequency and duration of sampling for groundwater verification purposes was established. If your sampling strategy differs from the STD Operational Memorandum No. 9.	10
3.	A list of the analytical parameters used to verify groundwater closure	10
4.	A justification if all groundwater verification samples were not analyzed, preserved, and handled in accordance with the STD Operational Memorandum No. 14 <i>Analytical Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases.</i>	10
B.	Provide a table with laboratory data showing the results of all verification groundwater sampling performed to date for the required parameters. Refer to the STD Operational Memorandum No. 14 <i>Analytical Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases.</i> The table should include the following:	11
1.	Sample ID	
2.	Sampling depth or screened interval	
3.	Date of collection	
4.	Dates of extraction and analysis	
5.	Method Detection Limits	
6.	Analytical method	
<i>(NOTE: The STD may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.)</i>		
C.	Attach copies of the following:	
1.	Boring logs not previously submitted.	11
2.	Well construction diagrams not previously submitted.	11
3.	Potentiometric surface maps for each groundwater verification sampling event.	11
4.	Elevation data (USGS datum preferred), including top-of-casing and grade elevations, and depth to groundwater for each groundwater verification sampling event.	11
<b>3.3</b>	<b>CLOSURE VERIFICATION FOR OTHER MEDIA</b>	
A.	Describe the verification sampling strategy for other media applied at the site.	11
B.	Provide a scaled site map which identifies the verification sampling locations relative to existing site features and boundaries, if appropriate.	11
C.	Provide a table with the laboratory data showing the results of all verification sampling performed to date in the other specified environmental media.	11

*(NOTE: The STD may request copies of the laboratory data sheets, chain-of-custody forms, and all available QA/QC information.)*

**1.0 PROJECT CHRONOLOGY**

**A. Provide the date and time the confirmed release(s) was/were discovered and reported:**

A release from a 2,000-gallon gasoline tank was observed on December 14, 1989. Visual and olfactory evidence was noted at this time. A second release was reported in June 1995 from a 1,000-gallon diesel fuel UST.

**B. Provide the IAR submittal date:**

December 26, 1995

**C. Provide the FAR submittal date:**

N/A – Per discussion on November 24, 1999 with Terry Hiske, MDEQ Storage Tank Division, no FAR is needed for this site.

**D. Provide dates for any other submittals:**

Corrective Action Plan, April 19, 1996

**2.0 SUMMARY OF CORRECTIVE ACTION ACTIVITIES PERFORMED**

**2.1 IMMEDIATE RESPONSE ACTION IMPLEMENTATION**

See IAR submitted on December 26, 1995

**2.2 FREE PRODUCT DISCOVERY AND REMOVAL**

Free product was discovered in monitoring well No. MW-4 on April 25, 1995. A total of 1.65 gallons were removed from November 28, 1995 to December 6, 1995. No other free product was ever discovered or removed.

**2.3 SITE ASSESSMENT ACTIVITIES**

IAR was submitted on December 26, 1995. Per discussion on November 24, 1999 with Terry Hiske of MDEQ STD, no FAR is needed for this site.

**2.4 SITE CLASSIFICATION**

**A. Indicate the current Site Classification Level, in accordance with STD Operational Memorandum No. 5, *Leaking Underground Storage Tank (LUST) Site Classification System*.**

**Class 4 Site**

**B. Provide a justification for this classification. Identify the current conditions that are the basis of the classification.**

**Demonstrating no long-term threat to human health, safety, or sensitive environmental receptors.**

**C. Indicate whether the site classification has changed since the submission of the last report.**

**No**

**2.5 TIERED EVALUATIONS AND CLEANUP GOALS**

A. Indicate whether a site-specific Tier II or Tier III evaluation has been conducted for this site

No

B. If applicable, identify and justify where alternate assumptions or site specific information were used in place of the default assumptions as defined in the STD Operational Memorandum No. 4, *Tier I Lookup Tables for Risk-Based Corrective Action at Leaking Underground Storage Tank (LUST) Sites*.

Site has been remediated to satisfy Tier I criteria approved in Corrective Action Plan. The remedial efforts meet all current Tier I criteria except for MTBE. This value was changed from 240 µg/l to 40 µg/l in May 1999. Per discussion with Terry Hiske of MDEQ STD on November 5, 1999, the approved Corrective Action Plan criteria are acceptable for closure of this site.

**NOTE: If a Tier II evaluation was performed and described in the IAR or the FAR, explicitly indicate where different assumptions or site-specific information were used in this Tier II or Tier III evaluation and why the change was justified.**

C. Provide the calculations and reference citations supporting the development of the relevant Tier II or Tier III SSTLs.

N/A - Tier II/III evaluation not used.

D. Provide a table which compared the maximum remaining contaminant concentrations for each required parameter for all media to the appropriate RBSLs (as provided in the STD Operational Memorandum No. 4), and/or the calculated SSTLs. Identify all applicable land use scenario(s).

See Table 1

**2.6 MODELING**

Not Used

**2.7 NOTICES AND RESTRICTIONS**

Not Used

**2.8 PERMITS**

List all discharge permits and/or permit exemptions that were required for the corrective action, and include the type of permit, permit number, application date, approval date and termination date:

NPDES General Permit No. MIG080000	Applied 07/29/96
Certificate of Coverage No. MIG080507	Approved 09/13/96

**2.9 CORRECTIVE ACTION PLAN**

A. Summarize the corrective action activities that resulted in release closure. Include the operating history of any active treatment systems.

Pump and treat-groundwater, bioventing and soil vapor extraction, soil air sparging – groundwater.

B. Summarize the types of monitoring activities performed, including the media and parameters monitored.

**Groundwater monitored quarterly for BTEX, Benzene, MTBE, and PNAs.**

- C. Attach performance monitoring data.

**See Table 1.**

- D. Describe and justify changes to the previously submitted Corrective Action Plan.

**None**

- E. Provide the total volume of soil remediated, and include disposal location and proof of disposal (e.g., not load tickets) for all soils excavated subsequent to submittal of the last report, if appropriate.

Total volume of soil remediated is 45 cubic yards – None since last report submittal.

- F. Provide the total volume of groundwater actively remediated to date, and include disposal documentation, if appropriate.

**2,501,140 gallons**

**3.0 CLOSURE VERIFICATION SAMPLING**

**3.1 SOIL CLOSURE VERIFICATION**

**N/A - No other soil removed or remediated since IAR.**

**3.2 GROUNDWATER CLOSURE VERIFICATION**

- A. Describe the groundwater verification sampling strategy applied at the site by providing the following:

1. A scaled site map which identifies the former extent of groundwater contamination, the groundwater verification sampling locations relative to existing site features, and the groundwater flow direction(s). *(Multiple chemical contaminants and multiple aquifer/sample depths should be addressed on the minimum number of site maps needed to convey the information with clarity and legibility.)*

**See Plates 1 and 2**

2. A description of how the sampling frequency and duration of sampling for groundwater verification purposes was established. If your sampling strategy differs from the STD Operational Memorandum No. 9.

**Does not differ.**

3. A list of the analytical parameters used to verify groundwater closure.

**BTEX, Benzene, MTBE, PNAs**

4. A justification if all groundwater verification samples were not analyzed, preserved, and handled in accordance with the STD Operational Memorandum No. 14, *Analytical/Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases.*

**N/A**



B. Provide a table with laboratory data showing the results of all verification groundwater sampling performed to date for the required parameters. Refer to the STD Operational Memorandum No. 14, *Analytical/Parameters and Methods, Sample Handling, and Preservation for Petroleum Releases*.

- |   |   |                    |
|---|---|--------------------|
| <ol style="list-style-type: none"><li>1. Sample ID</li><li>2. Sampling depth or screened interval</li><li>3. Date of collection</li><li>4. Dates of extraction and analysis</li><li>5. Method Detection Limits</li><li>6. Analytical method</li></ol> | } | <b>See Table 1</b> |
|---|---|--------------------|

(NOTE: The STD may request copies of the laboratory data sheets, chain-of-custody form, and all available QAQC information.)

C. Attach copies of the following:

1. Boring logs not previously submitted
2. Well construction diagrams not previously submitted.
3. Potentiometric surface maps for each groundwater verification sampling event.
4. Elevation data (USGS datum preferred), including top-of-casing and grade elevations, and depth to groundwater for each groundwater verification sampling event.

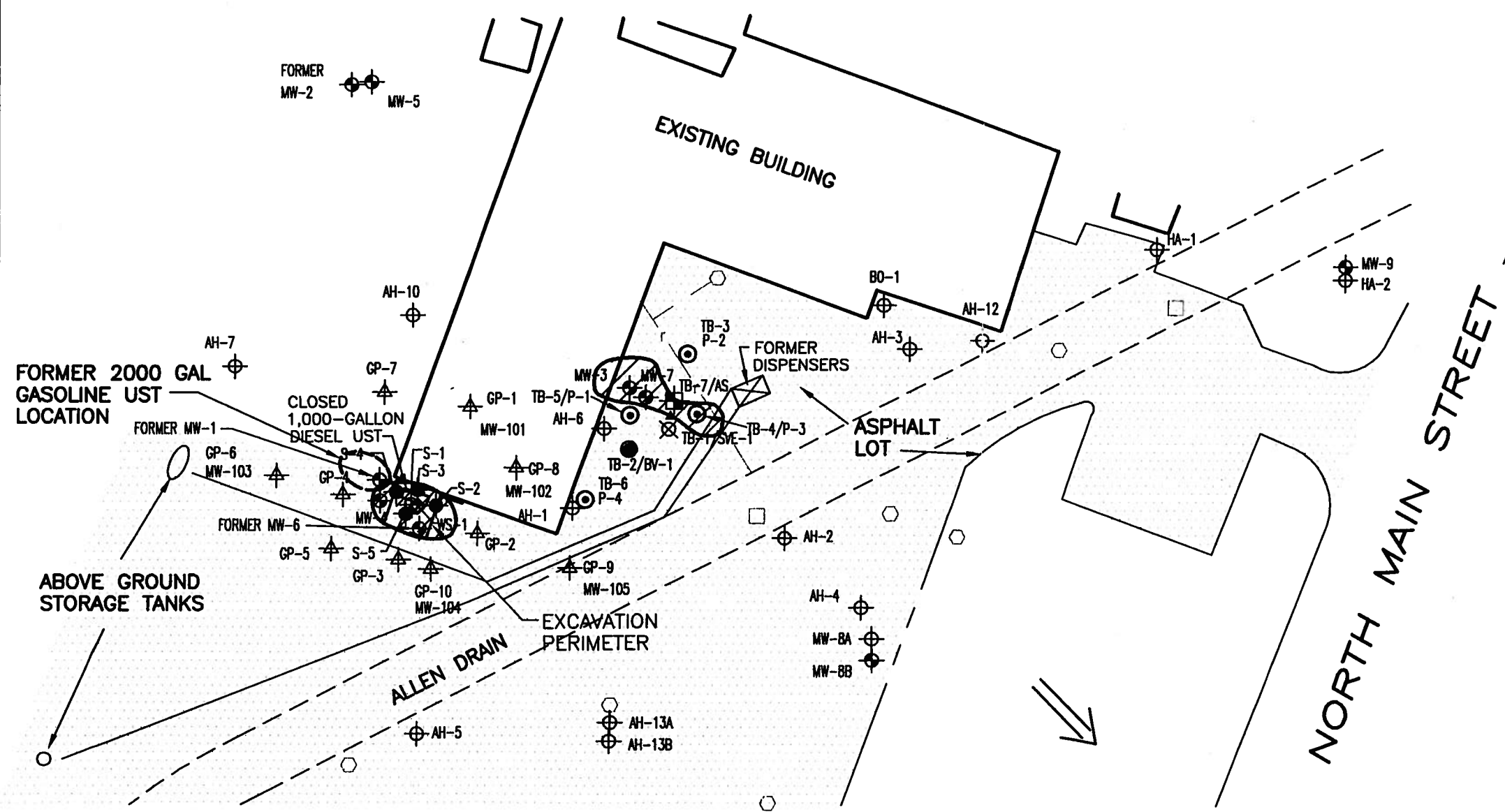
None

### 3.3 CLOSURE VERIFICATION FOR OTHER MEDIA

Not required as per CAP

**LEGEND:**

- ▲ BARREL/PURGE WELL
- ⊕ BOREHOLES ADVANCED BY THE TRAVERSE GROUP BETWEEN JUNE 1990 AND MARCH 1993.
- ⊕ MONITORING WELL INSTALLED BY THE TRAVERSE GROUP BETWEEN JUNE 1990 AND MARCH 1993
- ⊙ PIEZOMETER INSTALLED BY NTH CONSULTANTS, LTD. AS PART OF PILOT STUDY-APRIL 1995.
- ⊕ AIR SPARGING WELL INSTALLED BY NTH CONSULTANTS, LTD. AS PART OF PILOT STUDY-APRIL 1995.
- BIOVENTING WELL INSTALLED BY NTH CONSULTANTS, LTD. AS PART OF PILOT STUDY APRIL-1995.
- ⊗ SOIL VAPOR EXTRACTION (SVE)/GROUNDWATER RECOVERY WELL INSTALLED BY NTH CONSULTANTS, LTD. AS PART OF PILOT STUDY-APRIL 1995.
- ◆ DIESEL FUEL UST EXCAVATION SOIL SAMPLE COLLECTED BY NTH CONSULTANTS, LTD.-JUNE 16, 1995.
- ◇ DIESEL FUEL UST EXCAVATION WATER SAMPLE COLLECTED BY NTH CONSULTANTS, LTD.-JUNE 16, 1995.
- ▲ GEOPROBE BORINGS/MONITORING WELLS INSTALLED BY NTH CONSULTANTS, LTD.-AUGUST 29-31, 1995.
- s— EXISTING SANITARY SEWER
- r— EXISTING STORM SEWER
- EXISTING STORM SEWER CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- ◌ ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION IN EXCESS OF TIER I RESIDENTIAL GSI CLEANUP CRITERIA
- ⇒ APPROXIMATE GW FLOW DIRECTION (PER CAP, DECEMBER 1995)



FORMER 2000 GAL GASOLINE UST LOCATION

FORMER MW-2 MW-5

EXISTING BUILDING

FORMER DISPENSERS

ASPHALT LOT

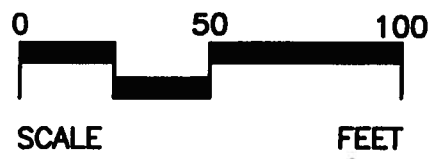
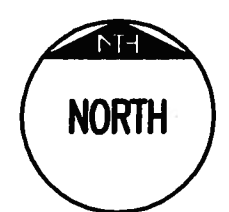
NORTH MAIN STREET

ABOVE GROUND STORAGE TANKS

CLOSED 1,000-GALLON DIESEL UST

ALLEN DRAIN

EXCAVATION PERIMETER



NOTE:  
EXTENT OF CONTAMINATION DERIVED FROM DATA COLLECTED BY THE TRAVERSE GROUP, INC. FROM AUGUST 1990 THROUGH MARCH 1993 AND FROM DATA COLLECTED BY NTH CONSULTANTS, LTD. FROM APRIL 1995 THROUGH SEPTEMBER 1995.

BASE MAP PROVIDED BY CITY OF ANN ARBOR AND WAS OBTAINED FROM THE TRAVERSE GROUP, INC. FEASIBILITY STUDY, DATED APRIL 15, 1994.

**FORMER EXTENT OF IMPACTED GROUNDWATER**

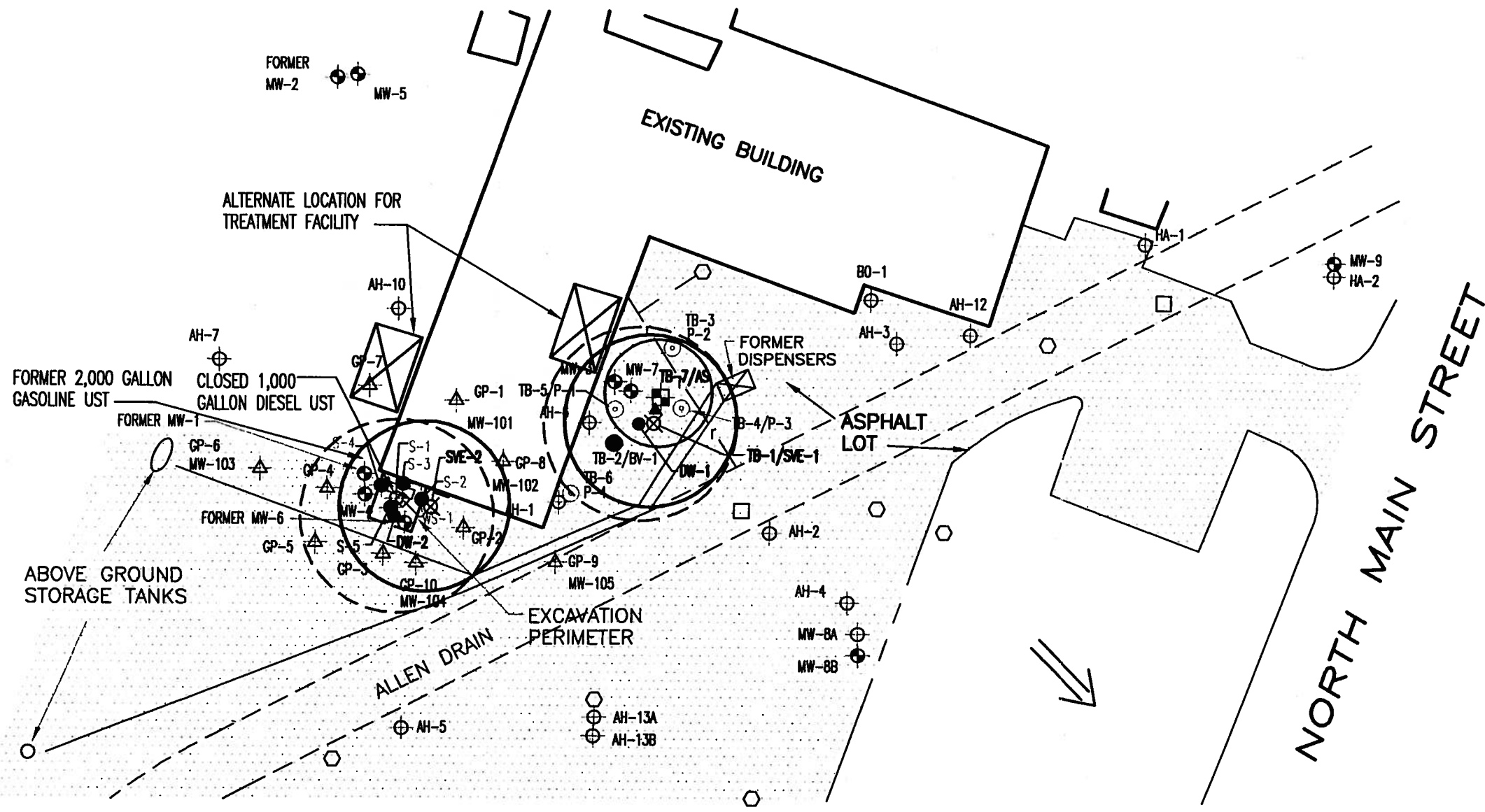
CITY MAINTENANCE GARAGE  
CITY OF ANN ARBOR  
721 NORTH MAIN STREET  
ANN ARBOR, MICHIGAN



**NTH CONSULTANTS, LTD.**  
Professional Engineering & Environmental Services  
Farmington Hills, Michigan

PROJECT NO. 13-5000-03	DRAWN BY: JD	DATE: 04-01-96	PLATE NO: 1
SCALE: AS SHOWN	CHECKED BY: HRH	SHEET 1 OF 1	

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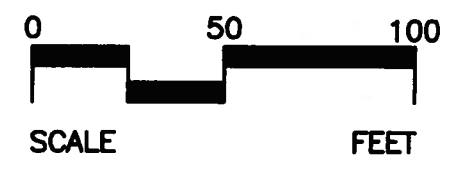
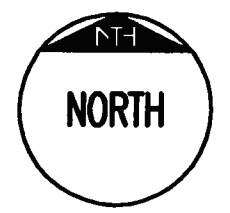


**LEGEND:**

- ▲ BARREL/PURGE WELL
- ⊕ BOREHOLES ADVANCED BY THE TRAVERSE GROUP BETWEEN JUNE 1990 AND MARCH 1993.
- ⊕ MONITORING WELL INSTALLED BY THE TRAVERSE GROUP BETWEEN JUNE 1990 AND MARCH 1993
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- ◆ DIESEL FUEL UST EXCAVATION SOIL SAMPLE COLLECTED BY NTH CONSULTANTS, LTD.-JUNE 16, 1995.
- ◇ DIESEL FUEL UST EXCAVATION WATER SAMPLE COLLECTED BY NTH CONSULTANTS, LTD.-JUNE 16, 1995.
- ▲ GEOPROBE BORINGS/MONITORING WELLS INSTALLED BY NTH CONSULTANTS, LTD.-AUGUST 29-31, 1995.
- s — EXISTING SANITARY
- r — EXISTING STORM SEWER
- EXISTING STORM SEWER CATCH BASIN
- EXISTING STORM SEWER MANHOLE
- ⇒ APPROXIMATE GW FLOW DIRECTION (PER CAP, DECEMBER 1995)

**LEGEND:**

- AS AIR SPARGING WELL
- DW DEWATERING WELL
- SVE SOIL VAPOR EXTRACTION WELL
- AIR SPARGING RADIUS OF INFLUENCE (ROI)
- - - DEWATERING WELL ROI
- SOIL VAPOR EXTRACTION WELL ROI



BASE MAP PROVIDED BY CITY OF ANN ARBOR AND WAS OBTAINED FROM THE TRAVERSE GROUP, INC. FEASIBILITY STUDY, DATED APRIL 15, 1994.

LAYOUT OF REMEDIATION SYSTEM			
CITY MAINTENANCE GARAGE CITY OF ANN ARBOR 721 NORTH MAIN STREET ANN ARBOR, MICHIGAN			
<b>NTH CONSULTANTS, LTD.</b> Professional Engineering & Environmental Services Farmington Hills, Michigan			
PROJECT NO. 13-5000-03	DRAWN BY: JD	DATE: 04-01-96	PLATE NO: 2
SCALE: AS SHOWN	CHECKED BY: HRH	SHEET 1 OF 1	

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12-03-99

TABLE 1  
LONG-TERM MONITORING GROUNDWATER ANALYTICAL RESULTS

CITY OF ANN ARBOR MAINTENANCE GARAGE REMEDIATION SYSTEM  
FACILITY ID NUMBER: 0-008427

Sample Location	Sample Date	Depth to Groundwater (Feet)	Depth to Free Product (Feet)	PARAMETER										Dissolved Oxygen (mg/L)	pH	BOD5 (mg/L)	COD (mg/L)	Depth to Top Bottom of Screen (Feet)	
				Benzene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Toluene (ug/L)	MTBE (ug/L)	PNAs (ug/L)	Naphthalene (ug/L)	2-Methylnaphthalene (ug/L)								
MW-3	08/10/97	0.76	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	7.3	ND	29	5.5 - 10.5
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	
	10/12/98	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	
	01/19/99	9.60	NONE	** No recharge in well - no sample collected															
	04/14/99	8.78	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	
	08/17/99	8.78	NONE	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	4.2	7.4	--	--	
	10/14/99	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-4	08/10/97	--	NONE	--	--	--	--	--	--	--	--	--	--	1.6	7.5	--	--		
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	4.5 - 9.5
MW-7	08/10/97	9.06	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	7.0	56.0	880	15.0 - 17.0
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	
	04/14/99	5.52	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	8.3	--	--	
	06/17/99	5.52	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	10/14/99	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-102	04/15/99	4.76	NONE	ND	ND	ND	ND	230	ND	ND	ND	ND	ND	--	7.3	ND	28	5.0 - 10.0	
	06/17/99	4.76	NONE	ND	ND	ND	ND	210	9	9	ND	ND	ND	--	--	--	--	--	
	10/13/99	--	NONE	ND	ND	ND	ND	54	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-103	08/10/97	3.58	NONE	15	77	300	37	ND	ND	ND	ND	ND	ND	2.38	7.3	--	--		
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND	5.5 - 10.5
	10/12/98	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	
	01/19/99	4.13	NONE	ND	ND	ND	ND	34	ND	ND	ND	ND	ND	--	--	--	--	--	
	04/15/99	3.58	NONE	ND	ND	ND	ND	51	ND	ND	ND	ND	ND	--	8.9	--	--	--	
	06/17/99	3.58	NONE	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	--	7.8	--	--	--	
	10/14/99	--	NONE	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-104	08/10/97	3.73	NONE	<5	ND	<3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.5 - 9.5
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	10/12/98	--	NONE	ND	ND	7	ND	120	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	
	01/19/99	6.44	NONE	ND	ND	ND	ND	83	ND	ND	ND	ND	ND	--	--	--	--	--	
	04/15/99	3.84	NONE	ND	ND	ND	ND	67	ND	ND	ND	ND	ND	--	7.7	--	--	--	
	06/17/99	3.84	NONE	ND	ND	ND	ND	85	ND	ND	ND	ND	ND	--	7.4	--	--	--	
	10/14/99	--	NONE	ND	ND	ND	ND	98	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-105	04/14/99	6.96	NONE	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	3.0	7.3	--	--	--	
	06/17/99	6.96	NONE	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	4	8	ND	ND	5.0 - 10.0	
	10/14/99	--	NONE	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	--	--	--	--	--	
PIEZ-1	08/10/97	7.14	NONE	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	7.9	6.9	--	--	--	
at 10'	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	8.8	72	5.0 - 10.0	
at 10'	01/19/99	7.73	NONE	ND	ND	ND	ND	130	ND	ND	ND	ND	ND	4.1	7.2	--	--	--	
at 15'	04/15/99	6.91	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	7.3	--	--	--	
	06/17/99	6.91	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	8.3	--	--	14.0 - 18.0	
	10/14/99	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	8.3	--	--	--	
PIEZ-2	08/10/97	5.92	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	7.4	--	--	--	
	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	7.4	5.1	8	15.5 - 17.5	
	06/17/99	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	--	
PIEZ-3	08/10/97	6.22	NONE	5	2	7	2	ND	--	--	--	--	--	4.1	7.2	--	--	--	
at 10'	05/23/98	7.14	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	7.4	ND	50	15.5 - 17.5	
at 10'	10/12/98	--	NONE	590	120	380	ND	ND	ND	ND	ND	ND	ND	4.1	7.2	--	--	5.0 - 10.0	
at 10'	01/19/99	7.42	NONE	290	83	130	ND	98	ND	ND	ND	ND	ND	--	--	--	--	--	
at 10'	04/15/99	6.77	NONE	68	7	7	ND	19	ND	ND	ND	ND	ND	1.2	7.8	--	--	--	
at 10'	06/17/99	--	NONE	24	21	42	27	--	--	--	--	--	--	--	6.9	--	--	--	
	07/08/99	--	NONE	50	45	17	2	ND	--	--	--	--	--	--	--	--	--	--	
	10/13/99	--	NONE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	6.9	--	--	--	
BV-1	10/12/98	--	NONE	ND	ND	ND	ND	260	ND	ND	ND	ND	ND	1.4	7.5	--	--	--	
	01/07/99	7.41	NONE	ND	ND	ND	ND	210	ND	ND	ND	ND	ND	--	--	--	--	3.5 - 5.5	
	04/14/99	6.37	NONE	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	--	7.3	--	--	--	
	06/17/99	6.37	NONE	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	2.5	7.8	--	--	--	
	10/13/99	--	NONE	ND	ND	ND	ND	190	ND	ND	ND	ND	ND	2.2	7.0	--	--	--	
P.A. 451 - PART 213 TIER 1 RESIDENTIAL GROUNDWATER RISK-BASED SCREENING LEVELS (DW)				5	74	280	790	240**	various	260	260	--	--	--	--	--	--	--	--

NOTES:  
(1) Samples collected by NTH Consultants and analyzed by Brighton Analytical Laboratories, Inc. of Brighton, Michigan.  
(2) ug/L - Micrograms per liter (parts per billion); mg/L - Milligrams per liter (parts per million).  
(3) ND - Not detected at or above the laboratory-reported method detection limit for indicated parameter.  
(4) \*\* - MTBE criteria for approved CAP (December, 1995).  
(5) "--" indicates no sample or measurement for this parameter