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TASK 8
EXTENT OF CONTAMINATION (EOC) STUDY REPORT

Textile Road Site
Ypsilanti Township, Washtenaw County, Michigan

FEBRUARY 1994
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CONESTOGA-ROVERS & ASSOCIATES

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incorporated into the Site geology database due to a lack of elevation control. Figure 3.6 indicates that the Site is located in an area where usable aquifers (e.g. lower sands aquifer) generally exist at depth in the glacial drift. Figure 3.7 presents the regional lower sands aquifer vulnerability to surface contamination. These figures indicate that the area in the vicinity of the Site is located in a zone where glacial tills and clay serve to protect the usable aquifers (e.g. the lower sands aquifer) from surface contamination events.

The upper sands of the area contains a shallow water table zone which is highly influenced by local drainage patterns and topography. This upper water table zone generally exists in the upper 10 to 20 feet of the overburden with a saturated thickness of approximately 5 to 10 feet. As a result of its shallow depth, unprotected nature, and limited yield, this zone is not used as a potable water source (in the vicinity of the Site) and would be generally prohibited from use as a drinking water source by Michigan Department of Health regulations (due to its shallow depth). Furthermore, the shallow water table zone, because of its low yield, does not meet the definition of an aquifer as defined in Michigan Act 307. Michigan Act 307 defines aquifer as "a geological formation, group of formations, or part of a formation capable of yielding a significant amount of groundwater to wells or springs" [Act 307, R299.5101 (c)]. It is expected that the upper water table zone discharges to the surface water drainage areas in the vicinity of the Site.

A confined lower sands aquifer generally exists below the glacial tills and clays (i.e. aquitard) immediately underlying the upper sands.

In the Site region and in much of Washtenaw County, the lower sands aquifer is suitable for use as a potable water supply. In the area of Ypsilanti Township a total of 37 glacial drift water supply wells were reported. These supply wells varied in depth from 25 to 268 feet and were reported as producing as much as 3,500 gallons per minute (gpm).

3.2.2 Bedrock Hydrogeology

The uppermost bedrock unit in the region of the Site is the Antrim Shale. The Antrim shale is not considered water bearing and as a result constitutes a lower aquitard located above lower bedrock aquifers. In the vicinity of the Site, the first usable bedrock aquifer exists in a Devonian carbonate formation of the Traverse Group. In Ypsilanti Township, this aquifer has been encountered in wells at depths of greater than 150 feet.

3.3 HYDROLOGY

The Site is located in the Huron River Basin just south of Ford and Belleville Lakes, which are impoundments formed by the damming of the Huron River. The Huron River Basin is presented on Figure 3.8. The Huron River Basin drains an area of 908 square miles lying in Ingham, Oakland, Monroe, Washtenaw and Wayne Counties. The Huron River ultimately discharges to Lake Erie with an average annual discharge rate of 590 cubic feet per second (cfs).

identified above the Type C groundwater cleanup levels. PCBs were identified to exceed Type B/C levels at MW-1U-93.

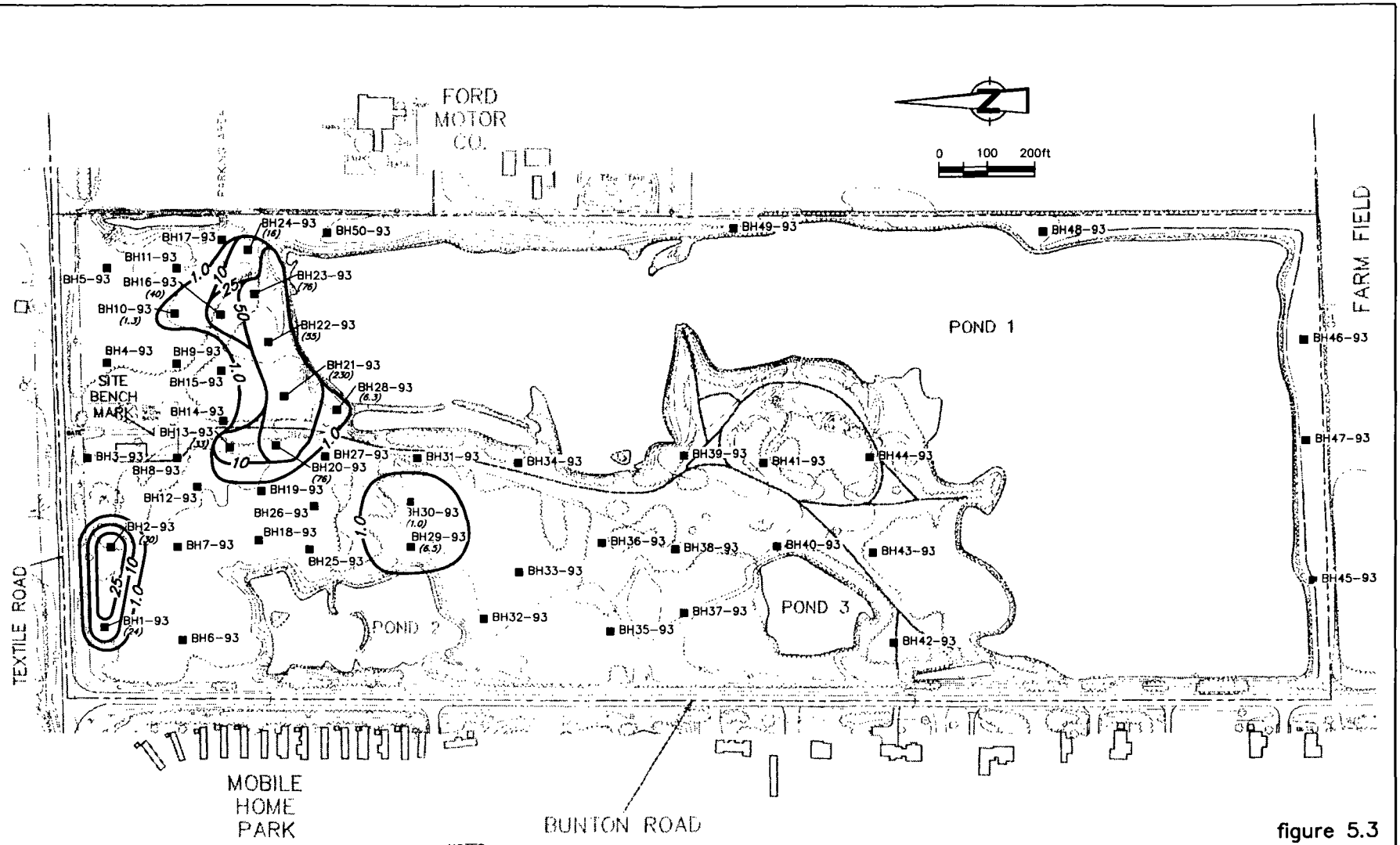
B.2 Groundwater - Lower Sands Aquifer

Tables 5.22 and 5.23 indicate that there were exceedances of acetone, chloroform, chromium, and lead above Michigan Type B groundwater cleanup criteria in the lower sands aquifer. It is unknown if these compounds are related to previous Site activities, off-Site sources or potential laboratory contamination. As a result, further investigation may be necessary. It should be noted that none of the compounds identified above were detected in the lower sands aquifer, above Michigan Type B cleanup levels, in both sampling rounds 1 and 2, and none of these compounds were identified above Michigan Type B cleanup levels in the groundwater samples from the upper water table zone. Also, although acetone and chloroform are common laboratory contaminants, the data validation memoranda presented in Appendix I do not qualify the presence of acetone and chloroform in the lower sands aquifer as being a result of laboratory contamination.

C. SEDIMENTS

Table 5.24 indicates that there are no exceedances of Type B/C soil cleanup levels in the pond sediments.

In general, the exceedances of Michigan Type B or C cleanup levels were identified in the upper sand/fill materials (and associated upper water table zone groundwater) located to the north and west of Pond 1. In addition, the general extent of contamination is defined by the zone identified to contain PCBs in excess of the Michigan Type B/C soil cleanup levels (i.e. the other constituents of potential concern are physically associated with the soils that were identified to contain PCBs at levels above Michigan Type B/C levels).



LEGEND

25 —— ISO CONCENTRATION LINE FOR 2–4' BGS

NOTES:

1) CONCENTRATIONS IN mg/kg.

2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.

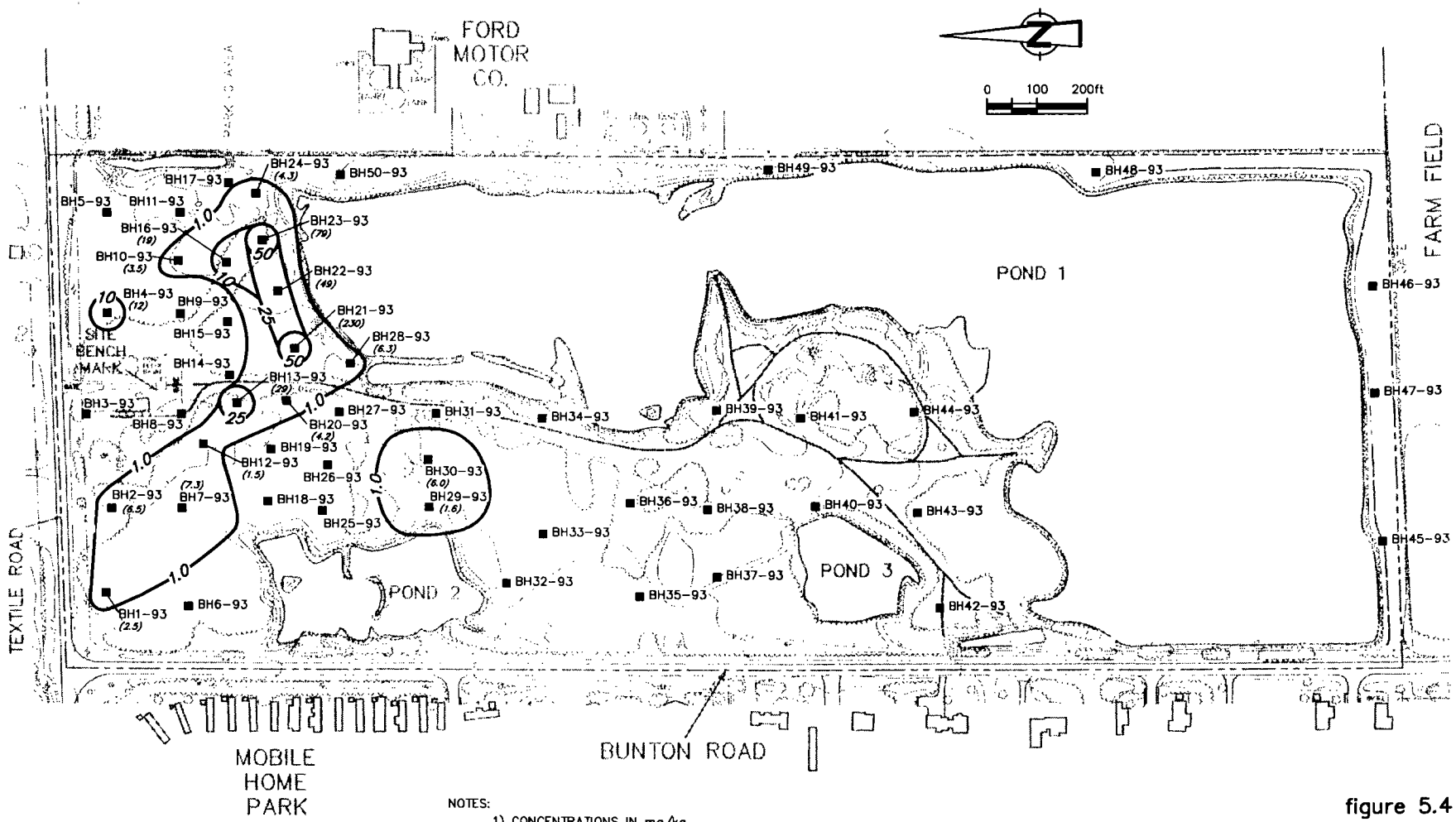
3) PCB CONCENTRATIONS IN SOIL ● 2–4' BGS.

figure 5.3

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOIL – 2–4' BGS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) MAY 11/94(W) REV.1 (P–56)



NOTES:

1) CONCENTRATIONS IN mg/kg.
2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.
3) PCB CONCENTRATIONS IN SOIL @ 6-8' BGS.
4) • – AROLOR 1260

LEGEND

25 —— ISO CONCENTRATION LINE FOR 6-8' BGS

figure 5.4

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOILS – 6-8' BGS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) MAY 11/94(W) REV.1 (P-57)

TABLE 5.6

ESTIMATED VOLUME OF PCB CONTAMINATED FILL/SOIL
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Depth (ft. BGS)	*Volume (CY)*			
	1-10 ppm	*10-25 ppm*	*25-50 ppm*	*50+ ppm*
0 - 5' (1)	16,387	4,554	2,775	7,784
5 - 10' (2)	32,509	1,931	2,615	1,148
Total	48,896	6,485	5,390	8,932

Notes:

CY - represents cubic yards.
(1) It is assumed that soil at a depth of 0 - 5 feet bgs is represented by samples collected from 2 - 4 feet bgs.
(2) It is assumed that soil at a depth of 5 - 10 feet bgs is represented by samples collected from 6 - 8 feet bgs.

TABLE 5.11

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	CAS	Rinsate		Duplicate				
Parameter	Number							
VOC								
Acetone	67-64-1	0.010(0.010)u	0.11(0.010)	0.13(0.010)	0.016(0.010)u	1.7 (0.20)	0.005 J(0.010)u	0.7
Benzene	71 43 2	NIX(0 010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.002 J(0.010)	0 0012
Carbon Disulfide	75 15 0	NIX(0 010)	0.001 J(0.010)	0.001 J(0.010)	NIX(0.010)	NIX(0.20)	NIX(0 010)	0 77
Chlorobenzene	108-90-7	0.002 J(0.010)	NIX(0.010)	NIX(0 010)	0.044(0.010)	NIX(0.20)	NIX(0 010)	0.13
Chloroform	67-66-3	NIX(0 010)	0.001 J(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	NIX(0.010)	0.0056
Trichloroethene	79-01-6	NIX(0.010)	NIX(0 010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.001 J(0.010)	0.0022
Vinyl chloride	75-01-4	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.014(0.010)	0 001
Xylenes (total)	1330-20-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0 010)	NIX(0.20)	0.005 J(0.010)	13
BNA								
Base/Neutral Compounds								
Anthracene	120 12 7	NIX(0 010)	NIX(0.010)	NIX(0 010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	7
Benz(a)anthracene	56 55 3	NIX(0 010)	NIX(0 010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0 010)	0 005
Benzo(b)fluoranthene	205-99-2	NIX(0.010)	NIX(0.010)	NIX(0 010)	NIX(0 010)	NIX(0.020)	NIX(0 010)	0 005
Benzo(a)pyrene	50-32-8	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0 010)	0 005
Bis(2 ethylhexyl)phthalate	117-81-7	0.003 J B (0.010)u	0.023 B (0.010)	0.031 B (0.010)	0.006 J B (0.010)u	0.24 B(0.020)	0.004 J B (0.010)u	0 005
Chrysene	218 01-9	NIX(0 010)	NIX(0 010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0 005
Di n butyl phthalate	84-74-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	0.002 J(0.010)	0.84
Fluoranthene	206-44-0	NIX(0.010)	NIX(0 010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.84
Fluorene	86-73-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.84
Naphthalene	91-20-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.25
Phenanthrene	85-01-8	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.10)	NIX(0.050)	0.025
Pyrene	129-00-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.52
PCB								
Aroclor-1254	11097-69-1	NIX(0.001)	NIX(0.001)	NIX(0.001)	0.012(0.001)	NIX(0.001)	NIX(0.001)	0.0002

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location	-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Rinsate		Duplicate				
Parameter							
Inorganics (Unfiltered)							
Aluminum	ND(0.200)	15.4(0.200)j	35.3(0.200)j	7.80(0.200)j	11.8(0.200)j	23.5(0.200)j	NA
Arsenic	ND(0.010)	0.027(0.010)	0.067(0.050)	0.017(0.010)	ND(0.010)	0.029(0.010)	0.00002/BKGRD
Barium	ND(0.200)	0.281(0.200)	0.458(0.200)	0.225(0.200)	0.453(0.200)	0.598(0.200)	2.4/BKGRD
Beryllium	ND(0.005)	ND(0.005)	0.0050(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	ND(5.000)	395(5.000)	667(50.00)	550(50.00)	241(5.000)	255(5.00)	NA
Chromium	ND(0.010)	0.046(0.010)	0.122(0.010)	0.029(0.010)	0.055(0.010)	0.041(0.010)	0.12/BKGRD
Cobalt	ND(0.050)	ND(0.050)	0.068(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Copper	ND(0.025)	0.104(0.025)	0.195(0.025)	0.106(0.025)	0.090(0.025)	0.087(0.025)	1.3/BKGRD
Iron	ND(0.100)	55.4(0.100)	113(0.100)	45.8(0.100)	29.2(0.100)	51.5(0.100)	NA
Lead	ND(0.003)	0.035(0.015)	0.069(0.015)	0.105(0.015)	0.023(0.003)	0.049(0.015)	0.004/BKGRD
Magnesium	ND(5.000)	67.3(5.000)	104(5.000)	142(5.000)	37.7(5.000)	58.6(5.000)	NA
Manganese	ND(0.015)	1.05(0.015)	2.04(0.015)	1.62(0.015)	0.450(0.015)	1.44(0.015)	0.170/BKGRD
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.00031(0.0002)	ND(0.0002)	ND(0.0002)	0.0021/BKGRD
Nickel	ND(0.040)	0.086(0.040)	0.183(0.040)	ND(0.040)	0.042(0.040)	0.064(0.040)	0.53/BKGRD
Potassium	ND(5.000)	7.53(5.000)	17.4(5.000)	50.6(5.000)	10.3(5.000)	13.7(5.000)	NA
Sodium	ND(5.000)	10.4(5.000)	13.5(5.000)	56.7(5.000)	10.8(5.000)	33.7(5.000)	150
Vanadium	ND(0.050)	ND(0.050)	0.085(0.050)	ND(0.050)	ND(0.050)	0.060(0.050)	NA
Zinc	ND(0.020)	0.197(0.020)	0.423(0.020)	0.172(0.020)	0.372(0.020)	0.179(0.020)	2.3/BKGRD
Inorganics (Filtered)							
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	0.0053(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	ND(5.00)	94.4(5.00)	92.8(5.00)	340(5.00)	94.4(5.00)	129(5.00)	NA
Iron	ND(0.100)	0.595(0.100)	0.407(0.100)	18.5(0.100)	1.67(0.100)	6.30(0.100)	NA
Magnesium	ND(5.000)	19.9(5.000)	21.2(5.000)	104(5.000)	18.7(5.000)	27.6(5.000)	NA
Manganese	ND(0.015)	0.077(0.015)	0.049(0.015)	0.726 (0.015)	0.081(0.015)	0.580(0.015)	0.170/BKGRD
Potassium	ND(5.000)	16.0(5.000)	8.32(5.000)	45.5(5.000)	6.20(5.000)	9.81(5.000)	NA
Sodium	ND(5.000)	14.4(5.000)	11.3(5.000)	52.3(5.000)	9.38(5.000)	30.5(5.000)	150
Zinc	0.038(0.020)	ND(0.020)	0.023(0.020)	0.021(0.020)	ND(0.020)	ND(0.020)	2.3/BKGRD

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location		MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	CAS Number						
VOC							
Acetone	67-64-1	0.63(0.050)	0.014(0.010)	0.014(0.010)	0.007 J(0.010)	0.060(0.010)	0.7
Benzene	71-43-2	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0012
Carbon Disulfide	75-15-0	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.77
Chlorobenzene	108-90-7	NIX(0.050)	NIX(0.010)	0.002 J(0.010)	NIX(0.010)	NIX(0.010)	0.13
Chloroform	67-66-3	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0056
Trichloroethene	79-01-6	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0022
Vinyl chloride	75-01-4	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.001
Xylenes (total)	1330-20-7	NIX(0.050)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	13
BNA							
Base/Neutral Compounds							
Anthracene	120-12-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	7
Benzo(a)anthracene	56-55-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.003 J (0.010)	0.005
Benzo(b)fluoranthene	205-99-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.003 J (0.010)	0.005
Benzo(a)pyrene	50-32-8	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	0.005
Bis(2-ethylhexyl)phthalate	117-81-7	0.083 B(0.010)	0.044 B(0.010)	0.006 J B (0.010)u	0.003 J B (0.010)u	0.004 J B (0.010)u	0.005
Chrysene	218-01-9	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.003 J (0.010)	0.005
Di-n-butyl phthalate	84-74-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.84
Fluoranthene	206-44-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.008 J (0.010)	0.84
Fluorene	86-73-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	0.84
Naphthalene	91-20-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.007 J (0.010)	0.25
Phenanthrene	85-01-8	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	0.011 J (0.050)	0.025
Pyrene	129-00-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.006 J (0.010)	0.52
PCB							
Aroclor-1254	11097-69-1	NIX(0.001)	NIX(0.001)	NIX(0.001)	NIX(0.001)	NIX(0.001)	0.0002

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.11

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location	MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter						
Inorganics (Unfiltered)						
Aluminum	5.64(0.200)j	3.14(0.200)j	3.44(0.200)j	3.71(0.200)j	3.37(0.200)j	NA
Arsenic	ND(0.010)	ND(0.010)	ND(0.010)	0.011(0.010)	ND(0.010)	0.00002/BKGRD
Barium	0.213(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	2.4/BKGRD
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	113(5.00)	263(5.000)	130(5.000)	92.4(5.000)	253(5.000)	NA
Chromium	0.044(0.010)	0.012(0.010)	0.012(0.010)	0.011(0.010)	0.016(0.010)	0.12/BKGRD
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Copper	0.070(0.025)	0.030(0.025)	0.025(0.025)	0.031(0.025)	0.035(0.025)	1.3/BKGRD
Iron	20.0(0.100)	15.4(0.100)	9.04(0.100)	10.2(0.100)	13.6(0.100)	NA
Lead	0.016(0.003)	0.010(0.003)	0.018(0.003)	0.012(0.003)	0.020(0.003)	0.004/BKGRD
Magnesium	20.5(5.000)	60.0(5.000)	30.4(5.000)	27(5.000)	64.4(5.000)	NA
Manganese	0.281(0.015)	0.526(0.015)	0.803(0.015)	0.313(0.015)	0.635(0.015)	0.170/BKGRD
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.0021/BKGRD
Nickel	0.045(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.53/BKGRD
Potassium	22.9(5.000)	ND(5.000)	6.19(5.000)	6.18(5.000)	16.3(5.000)	NA
Sodium	26.6(5.000)	19.1(5.000)	25.3(5.000)	34 4(5.000)	72.1(5.000)	150
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Zinc	0.127(0.020)	0.048(0.020)	0.040(0.020)	0.059(0.020)	0.065(0.020)	2.3/BKGRD
Inorganics (Filtered)						
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	56.7(5.00)	156(5.000)	68.4(5.00)	57.1(5.00)	146(5.000)	NA
Iron	0.279(0.100)	3.87(0.100)	0.434(0.100)	0.934(0.100)	2.48(0.100)	NA
Magnesium	14.3(5.000)	27.9(5.000)	14.8(5.000)	17(5.000)	34.5(5.000)	NA
Manganese	0.045(0.015)	0.136(0.015)	0.465(0.015)	0.129(0.015)	0.191(0.015)	0.170/BKGRD
Potassium	9.48(5.000)	ND(5.000)	5.16(5.000)	5.16(5.000)	14.8(5.000)	NA
Sodium	22.0(5.000)	15.6(5.000)	23.4(5.000)	38.0(5.000)	68.3(5.000)	150
Zinc	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	2.3/BKGRD

Notes:

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E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

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TABLE 5.13

BACKGROUND METAL CONCENTRATION FOR GROUNDWATER
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	Concentration (mg/L) Upper Water Table Zone (1)	Lower Sands Aquifer (2)
Metals (Unfiltered)		
Aluminum	43.544	69.50
Arsenic	0.021	0.029
Barium	3.075	4.90
Beryllium	0.0030	0.003
Calcium	421.62	341.90
Chromium	0.26	0.427
Cobalt	0.025	0.025
Copper	0.185	0.149
Iron	96.31	93.397
Lead	0.059	0.089
Magnesium	99.33	63.75
Manganese	1.672	1.43
Mercury	0.0001	0.0001
Nickel	0.161	0.163
Potassium	16.04	120.15
Sodium	48.37	87.94
Vanadium	0.121	0.025
Zinc	1.86	2.940
Metals (Filtered)		
Beryllium	0.0025	0.0025
Calcium	261.88	109.72
Chromium	0.049	0.123
Iron	7.123	0.65
Lead	0.002	0.013
Magnesium	37.79	33.43
Manganese	0.250	0.106
Potassium	8.20	102.60
Sodium	61.39	63.94
Zinc	0.01	0.01

Notes:

(1) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993). Sample locations: MW-3U-93, MU-6U-93 (Round 1 and Round 2).

(2) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993). Sample locations: MW-3D-93 (Round 1 and Round 2).

TASK 8
EXTENT OF CONTAMINATION (EOC) STUDY REPORT

Textile Road Site
Ypsilanti Township, Washtenaw County, Michigan

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) was retained by the Respondents for the Textile Road Site (Site) to complete an Extent of Contamination Study/Engineering Evaluation and Cost Analysis (EOC/EECA) at the Site. The activities being completed at this Site are being conducted pursuant to the requirements of an Administrative Order by Consent (Consent Order) entered into by General Motors Corporation (GM) and Holtzman-Silverman Realty Company (HS) (collectively GM and HS are referred to as the Respondents) with the United States Environmental Protection Agency (U.S. EPA). The Consent Order was executed by the U.S. EPA and became effective on March 10, 1993.

The specific activities to be completed in fulfillment of the requirements of the Consent Order were defined in the document entitled: ***Work Plan for Extent of Contamination Study/Engineering Evaluation and Cost Analysis (EOC/EECA) (Work Plan) (November 24, 1992)***.

The Work Plan was incorporated into the Consent Order to define project activities. Pursuant to the Consent Order, Work Plan activities were initiated within 14 days of the effective date of the Consent Order.

This document presents the EOC Study Report prepared for the Site in accordance with Task 8 of the Work Plan.

1.1 STATEMENT OF PURPOSE

The primary objective of the EOC study was to characterize the nature and extent of affected or potentially affected media at the Site. To effectively meet the stated objective for the EOC, a Work Plan was prepared and incorporated with the Consent Order. In addition, a Quality Assurance Project Plan (QAPP) and a Health and Safety Plan (HASP) were developed as Project Plans to aid in the effective implementation of the Work Plan.

The Work Plan and associated Project Plans were reviewed and commented upon by U.S. EPA prior to their inclusion with the Consent Order and the initiation of Site investigative activities.

1.2 SPECIFIC OBJECTIVES

Specific objectives of the EOC were defined in the Work Plan and included:

1. Investigating the nature and extent of contamination (including Target Compound List/Target Analyte List (TCL/TAL) chemical analysis) across the entire area of the Site including the sediments of Ponds 1, 2 and 3;

2. Investigating and further delineating the nature and extent of PCB contamination at the Site. Based upon previous investigations (see Section 1.5) the focus of this portion of the investigation was in the areas north of Pond 1 and east of Pond 2;

3. Investigating the hydrogeologic conditions at the Site, specifically with respect to the upper water table zone, the clay/till aquitard and the lower sands aquifer;

4. Investigating the groundwater quality of the upper water table zone and the lower sands aquifer at the Site; and

5. Investigating the nature and extent of the clay/till aquitard separating the upper water table zone and lower sands aquifer.

1.3 SITE DESCRIPTION

The Site is an inactive industrial property located to the southeast of the corner of Textile Road and Bunton Road in Ypsilanti Township, Washtenaw County, Michigan. The location of the Site is presented on Figure 1.1. The Site is bounded to the north by Textile Road, to the west by Bunton Road, to the east by a Ford Motor Company facility and to the south by an agricultural property. A Site plan is presented on Figure 1.2. A Site topographic plan is presented as Plan 1. An aerial photograph is presented as Plan 2.

The Site is generally flat with occasional fill mounds (also referred to as hummocks) located across the Site. Three man-made ponds are located on the Site as shown on Figure 1.2. The ponds were formed after sand and gravel was removed from beneath the groundwater table.

The surface materials at the Site consist of various amounts of earth fill, building rubble and native soils. The majority of the surface soils are covered with relatively heavy vegetation, including trees, shrubs and grass.

A gravel road traverses the Site from the entrance point off of Textile Road, southward to the area of the ponds. The gravel road forks at several locations to permit access to various parts of the Site. A cinder block building exists near the entrance point off of Textile Road.

Access to the Site is restricted by the presence of a security fence which completely encloses the Site. Entry to the Site is controlled at two locked truck gates located on each of the northern and southern fence lines.

1.4 SITE BACKGROUND

The Site was originally used for agricultural purposes. Ford Motor Company (Ford) sold the property to Elma and Lenor Schultz in

the 1940s. The Schultz's subsequently sold the property to Lamar Thumm in 1947. Lamar Thumm initiated gravel extraction operations in approximately 1947. Filling activities at the Site were ceased in May 1973. Gravel sales from existing stockpiles continued until September 1973.

Attention was drawn to the Site in March 1983 when a local resident informed the MDNR of the presence of 55-gallon drums. The drums were subsequently removed and a number of environmental investigations were completed.

The Site background is summarized in this report and presented in further detail in the report entitled ***"Summary of Prior Site Investigations and Identification of Data Gaps Report"*** (November 24, 1992) which is presented under separate cover.

1.5 LAND USE

The current local land use consists of industrial, gravel mining, agricultural and mixed rural residential land uses. The Site has been utilized for industrial purposes since the 1940s.

The current "Master Plan for Future Land Use" contemplates that the property will be utilized for "Light Industrial" purposes (Charter Township of Ypsilanti, Michigan Planning Commission, Adopted August 25, 1992). A copy of the "Master Plan for Future Land Use" is reproduced as Figure 1.3.

To the north across Textile Road there is some commercial development (e.g. gas station). Immediately east of the Site is a large manufacturing plant. Farther east the land is unused. South of the Site there is rural land use with some agricultural development. A residential trailer park and several houses exist on land reclaimed from a separate gravel mining operation to the west of the Site (west of Bunton Road). In addition, there are several houses west of Bunton Road and to the south of the trailer park.

1.6 PRIOR SITE INVESTIGATIONS

Several prior field investigations were conducted by, or under the direction of, the U.S. EPA, Michigan Department of Natural Resources (MDNR) and Freedman, Levy, Kroll and Simonds (on behalf of HS).

A large number of environmental samples from various environmental media were analyzed during the prior Site investigations. Most of the samples were from soil and sediment. The surface soil sampled during the MDNR investigations was removed from the Site during the drum removals in 1988 and 1991. Approximately one half of the samples collected during the prior Site investigations do not have locations specified or analytical laboratory quality control/assurance documentation. Consequently, the results cannot be used to assess a specific portion of the Site. It should be noted that the historical data from prior Site investigations and the data collected during the EOC Study are consistent. MDNR conducted four field investigations at the Site from April 12, 1983 through March 20, 1986. Samples were collected from various media, including surface soil, material inside 55-gallon drums, fish tissue, pond sediment, black waste, and wood blocks. No sample locations were provided for the analytical data. The analytical data collected by MDNR is presented in Table 1.1.

A U.S. EPA field investigation team (FIT) conducted field investigations from October 27, 1987 through December 11, 1990. During these investigations soil, pond sediment, surface water, and groundwater samples were collected and analyzed. Sample locations are presented on Figure 1.4. Analytical sample results for soil are presented in Table 1.2, for sediment in Table 1.3, for surface water in Table 1.4 and for groundwater in Table 1.5.

A U.S. EPA Technical Assistance Team (TAT) also conducted field investigations at the Site during March 1989. Soil samples were collected from nineteen (19) test pits and two (2) test trenches. Sample locations are presented in Figure 1.5. Analytical results for the soil samples are presented in Table 1.6.

VERSAR (an engineering and consulting firm) also conducted a field investigation at the Site in March, 1989. Samples were collected from various media including material inside drums, cloth/filter cake, wood debris, soil/sediment and cinder. Descriptions of media sampled are presented in Table 1.7. Sample locations are presented in Figure 1.6. Analytical results for the samples collected are presented in Table 1.8.

A variety of environmental samples from various environmental media were analyzed during the U.S. EPA and MDNR investigations. However, a review of available information developed during historical investigations indicated that a variety of data gaps still existed. The Work Plan was developed in a focused manner to specifically address identified data gaps. The summary of prior Site investigations is presented in further detail in the report titled "***Summary of Prior Site Investigations and Identification of Data Gaps Report***" (November 24, 1992) which is presented under separate cover. This EOC Study Report presents a summary of the historical information developed by U.S. EPA/MDNR in addition to information developed during the EOC Study.

1.7 REPORT ORGANIZATION

This report is presented in the following sections:

Section 2.0 Field Investigations Summary
Section 3.0 Regional Setting
Section 4.0 Site Setting
Section 5.0 Chemical Distribution
Section 6.0 Summary
Section 7.0 References

2.0 FIELD INVESTIGATION SUMMARY

The characterization of the nature and extent of affected or potentially affected media at the Site was achieved by conducting a variety of Site investigative activities. The purpose of this section is to provide a summary of the investigative activities which were completed. The field investigation at the Site included the following activities:

- aerial photography;
- Site survey and base map preparation;
- installation of fifty (50) boreholes;
- installation of nine (9) monitoring wells;
- single well response testing of selected monitoring wells - upper water table zone and lower sands aquifer;
- collection of soil, groundwater and pond sediment samples for laboratory analysis; and
- water level measurements in all monitoring wells and ponds.

The field investigations and subsequent follow-up activities are summarized in the following subsections:

Section 2.1 Task 1 - Procure Subcontractors/Construct Decontamination Facility
Section 2.2 Task 2 - Prepare a Topographic Plan and Survey Sampling Locations
Section 2.3 Task 3 - Soil Investigation
Section 2.4 Task 4 - Groundwater Investigation
Section 2.5 Task 5 - Sediment Investigation
Section 2.6 Task 6 - Data Validation
Section 2.7 Task 7 - Data Evaluation

2.1 TASK 1 - PROCURE SUBCONTRACTORS/CONSTRUCT DECONTAMINATION FACILITY

Prior to the initiation of field activities, CRA procured the following subcontractors in order to implement the Site investigative activities.

Subcontractor	*Activities*
• Darrell D. Hughes and Associates	Site Survey/Base Map Preparation
• Wisconsin Test Drilling	Boreholes/Monitoring Wells Installation
• Heaney's General Contracting, Inc.	Decon Pad Construction
• Environmental Control Technology Corporation (ENCOTEC)	Chemical Analyses
• Empire Soils Investigations, Inc.	Geotechnical Analyses

A decontamination facility was designed and constructed to facilitate the implementation of the EOC field investigation. The facility consists of a fenced enclosure with entrance and exit gates, a concrete decontamination pad with an impermeable concrete liner and sump. The facility is located within the fenced Contaminant Reduction Zone (CRZ) enclosure at the Textile Road entrance.

2.2 TASK 2 - PREPARE TOPOGRAPHIC PLAN AND SURVEY SAMPLING LOCATIONS

A Site topographic base plan (Figure 1.2) was prepared by Darrell Hughes and Associates of Fowlerville, Michigan under direct supervision of CRA. The Site plan is based on aerial mapping techniques which were verified utilizing traditional land surveying methods. The base plan developed through this activity is utilized throughout this report to present the results of the investigations. The following additional surveying activities were also conducted at the Site:

- surveyed all borehole locations;
- surveyed all monitoring well locations; and
- surveyed the water levels of the three on Site ponds as well as four off Site ponds.

2.3 TASK 3 - SOIL INVESTIGATION

In order to characterize the surface and subsurface conditions within and below the fill materials, surface soil was sampled at ten (10) locations and fifty (50) boreholes were drilled at the locations shown on Figure 2.1. Forty-seven of the boreholes were advanced to a depth of approximately one to two feet into the clay/till aquitard which underlies the surficial sands. Three of the boreholes, BH2-93, BH5-93, and BH47-93 were advanced through the clay/till to the underlying lower sands aquifer. Borehole stratigraphic logs are presented in Appendix A.

At each borehole, continuous soil samples were obtained using conventional 2-foot long, 2-inch inside diameter, split spoon samplers, to a depth of 10 feet. After advancing 10 feet, split spoon samples were taken at 5-foot intervals. Selected samples of the surficial sands (or fill) and lower sands were submitted for grain size analysis to allow an estimation of the Hazen hydraulic conductivity of the more permeable sandy soils.

Undisturbed samples of the glacial clay/till aquitard were obtained using thin-walled "Shelby Tube" samplers at two of the deep borehole locations. The Shelby Tube clay/till samples were submitted to Empire Soil Investigations, Inc. There the samples were extruded and analyzed. A falling head permeability test was conducted on an undisturbed portion of each sample in order to determine the vertical hydraulic conductivity of the glacial clay/till aquitard. The geotechnical testing report is presented as Appendix B.

Soil samples were also examined by a CRA field representative to identify soil type and any visible chemical staining or odors.

Field observations identified staining and odors to the north of Pond 1 and east of Pond 2. Black staining was identified at 4-6 feet below ground surface in boreholes BH-1, 2, 10, 12 and 28-93. Petroleum odor was identified in boreholes BH-1, 2, 9, 10, 12, 19, 27 and 28-93 at 6-8 feet below ground surface. Oily rags were identified at 2-4 feet below ground surface in BH-2. No staining or odors were detected in BH-3, 4, 5, 6, 7, 8, 11, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, and 29 through 50-93. These boreholes provide evidence to the fact that no staining or odors were identified on the southern most 3/4 of the property.

2.3.1 Fill/Soil Sampling

In order to provide a vertical profile of PCB contamination, fill/soil samples were collected at the 2 to 4 and 6 to 8-foot intervals from each of the 50 boreholes and analyzed for PCBs. Fill/soil samples were also submitted for TCL/TAL chemical analyses at a frequency of 1 in 10 in comparison to the PCB sampling identified above.

In addition, soil samples from the three deep boreholes in the clay/till aquitard and lower sands were submitted for TCL/TAL chemical analysis. Finally, additional inorganic analyses were completed on samples from BH-46, 47, 48, 49 and 50-92 to further define background inorganics levels.

Sample collection from the boreholes was conducted at the intervals identified in the Work Plan. The nature of the samples collected is described in the field log. The locations of the samples submitted for chemical analysis are identified on the borehole logs presented in Appendix A.

Surficial soil samples were collected at ten locations as identified on Figure 2.1. Nine of the surficial soil samples were analyzed for PCBs and one was analyzed for TCL/TAL analytes. The surficial soil samples were collected in areas in which data gaps had been identified based upon historical surficial soil sampling activities.

All equipment/machinery was decontaminated prior to moving to each boring location. Sampling equipment was decontaminated by steam cleaning or by an Alconox scrub followed by rinses with isopropyl alcohol and then deionized water. All water used during decontamination procedures was collected and containerized in 55-gallon drums.

Analytical results for all of the soil samples are presented in Appendix C. All samples were collected, preserved, documented and handled using procedures and protocols defined in the Work Plan, QAPP and HASP.

2.4 TASK 4 - GROUNDWATER INVESTIGATION

Six upper water table zone and three lower sands aquifer monitoring wells were installed at the locations identified on Figure 2.2. The three lower sands aquifer wells are located adjacent to upper water table zone wells forming three nested well pairs.

All monitoring wells installed at the Site consist of a two-inch diameter stainless steel riser pipe with a five-foot long stainless steel well screen. The screens are packed with a clean quartz sand where the natural formation did not collapse. The sand packs extend one to four feet above the top of the screen. A 2-foot bentonite pellet plug was placed on the sand pack. The remainder of the boring annulus was backfilled with a cement bentonite grout. A lockable protective casing was also installed over each monitoring well. Each monitoring well was provided with knockdown protection. The lower sands aquifer wells have a surface casing extending through the upper water table zone into the clay/till aquitard to minimize the potential for cross-contamination between permeable zones. The monitoring well installation details are outlined on monitoring well construction logs presented in Appendix A.

Each monitoring well was developed following the completion of the installation. This development was completed in

accordance with requirements defined in the QAPP. Each well was developed until three consecutive readings of pH, conductivity, and temperature were obtained. More than four (4) well volumes were removed from each well during development. Well development logs are presented in Appendix D and are dated June 2, 1993.

2.4.1 Groundwater Sampling

Two rounds of groundwater sampling were completed. A minimum of three well volumes were purged from each well prior to sampling. The pH and conductivity of the water were obtained following removal of each well volume to determine when groundwater quality stabilized (see well development logs dated June 9, 1993 and August 17, 1993 in Appendix D). Well purging was conducted utilizing a submersible pump in the three lower sand wells and by stainless steel bailers in the six upper water table zone wells. A dedicated stainless steel bailer was used to obtain samples from each of the wells following completion of purging. The QAPP provides additional details on the purging of wells, sample collection, preservation, documentation and handling. All QAPP quality control and decontamination procedures were followed. During the first round, all monitoring wells were sampled for unfiltered analysis of TCL/TAL analytes. In addition, samples were collected for filtered TAL inorganic analysis. The samples collected during the second round of groundwater sampling were analyzed for the same parameters as during the first round [TCL/TAL (filtered and unfiltered)]. Groundwater analytical results are presented in Appendix E.

Static water level measurements were obtained periodically from June to August 1993 from each monitoring well using an electronic water level measuring tape.

The results of the water level measurements were used to determine groundwater gradients and flow directions. The data was also used in conjunction with the aquifer testing to estimate groundwater flow velocities.

2.4.2 Aquifer Testing

Single well response tests (SWRTs) were conducted by both the insertion of a slug (Falling head test) and the removal of a slug (Rising head test). SWRTs were conducted in monitoring wells MW-2U, 2D, 3U, 3D-93. Water level measurements were obtained using a pressure transducer connected to an electronic data logger. All equipment was decontaminated prior to each test. Additional test details and decontamination procedures are provided in the QAPP. All QAPP procedures were followed.

The results of the SWRTs were used to estimate the horizontal hydraulic conductivity of the upper water table zone and the lower sands aquifer. The Bouwer and Rice method (Bouwer and Rice, 1976, and Bouwer, 1989) was used to calculate the hydraulic conductivity from the SWRT data. The SWRT results are presented in Appendix F.

Groundwater flow velocities were estimated based on the calculated hydraulic conductivities and hydraulic gradients. Additionally, as discussed in Section 2.3, upper and lower sands unit materials were analyzed for grain size distribution and the Hazen hydraulic conductivities were calculated. Water elevations were also surveyed for the three (3) on-Site ponds and four (4) off-Site ponds to help determine groundwater flow patterns.

2.5 TASK 5 - SEDIMENT INVESTIGATION

Two pond sediment samples were obtained from each of the nine locations identified on Figure 2.3, with the exception of SD-5-93 where only one sample was obtained. An aluminum boat was utilized for the collection of sediment samples. The samples were obtained using a stainless steel sampling tube. Samples were collected from the 0 to 6 and 6 to 24-inch depth intervals. Samples from locations SD-1, 7, 9-93 were submitted

and analyzed for TCL/TAL analytes. Samples from the other six locations were analyzed for PCBs.

No sediment depths greater than 24 inches (two feet) were identified. Generally, the sediment depth was between 8 and 16 inches. The sediment was underlain by gravel.

All sediment samples collected were preserved, documented and handled using procedures and protocols defined in the QAPP. All QAPP quality control and decontamination procedures were followed.

During the sediment sampling, the bottom of Pond 1 was depth sounded. The majority of the pond is generally 7 to 8 feet deep with scattered shallow areas. A large area of the southwest corner has a depth of 11 to 12 feet.

The sediment analytical results are presented in Appendix G.

2.6 TASK 6 - DATA VALIDATION

U.S. EPA Functional Guidelines for Evaluating Organic and Inorganic Analyses were utilized in the validation of all laboratory data. Validation ensured that all sampling and analytical protocols outlined in the QAPP were suitably adhered to. The Chain-of-Custody forms and data validation reports prepared by the project Quality Assurance Officer (QAO) are presented in Appendix H and Appendix I, respectively .

2.7 TASK 7 - DATA EVALUATION

Data compilation and evaluation was an ongoing task commencing upon the completion of the soil sampling. Data from each task

was compared to the investigation objectives. The following data evaluation activities were conducted:

- Data Reduction/Tabulation
  - A data base of validated data was prepared.
  - Data package tracking and data entry were completed following QAPP protocol.

- Chemical-Analytical Data Evaluation
  - Summaries were computed of the number of occurrences/number of samples, and concentration ranges.
  - Significant chemical results were plotted on figures to provide a graphical presentation of the results. Isoconcentration contours were developed to identify and define the areas (and estimated volumes) which contain PCBs.

- Hydrogeologic Data Evaluation
  - Site geology and hydrogeology were defined through the evaluation of borehole stratigraphic logs, monitoring well logs, groundwater levels, grain size analyses and SWRTs.
  - Groundwater contour maps and geologic cross-sections were prepared through the evaluation of water level data and borehole logs.
  - Approximate groundwater flow velocities were determined utilizing gradient and hydraulic conductivity data developed for the Site.

3.0 REGIONAL SETTING

The purpose of this section is to provide an overview of the geology, hydrogeology, and hydrology of the regional area surrounding the Site.

3.1 GEOLOGY

This section presents an overview of the overburden and bedrock geology present at and below the Site.

3.1.1 Overburden Geology

Pre-development topography and overburden soils are the result of glacial and post-glacial deposition and erosional processes. Continental glaciers advanced into this area of Michigan at least twice, once in each of the last two glacial stages of the Illinoian and Wisconsinan glacial advances. During the Wisconsinan stage, ice sheets of the Huron-Erie glacial lobe advanced across the area of the Site. During the advance and retreat of this ice sheet, a series of end moraines (Fort Wayne and Defiance) and a thick sequence of ground moraine (glacial till) comprised of clay, silt and rock was deposited in this area. As the ice sheet retreated, large volumes of melt water formed the glacial Lake Maumee between the Fort Wayne Moraine and the retreating glacier. The ice again advanced, forming the Defiance Moraine and subsequently retreated, forming glacial Lake Arkona. The ancient Huron River then eroded through the Fort Wayne moraines to enter Lake Arkona. This resulted in the release of large amounts of sand and gravel over the thick deposits of glacial clay/till forming the surficial deltaic deposits which cover most of the area today. This sand and gravel is the source material for the sand and gravel extraction that occurs in the area.

The surficial overburden geology of the regional area is presented on Figure 3.1. Local surficial geology is presented on Figure 3.2. As indicated on Figures 3.1 and 3.2, the Site is located in an area of deltaic sands.

Across the area surrounding the Site the deltaic sands range in thickness from 10 to 20 feet.

Regionally, the deltaic surficial sands are underlain by a series of glacial clays and tills. These in turn may overlie a lower sands unit which in some locations may overlie a series of lower clays. The lower clays rest directly on the bedrock of the area. The glacial drift thickness in the regional area surrounding the Site is expected to be on the order of 100 to 200 feet in thickness.

3.1.2 Bedrock Geology

The Antrim Shale is the first bedrock formation encountered below the Site. This shale is dark brown to black, bituminous, fissile and finely laminated and generally found at a depth of 100 to 200 feet. Figure 3.3 presents the regional bedrock geology. The Antrim Shale is between 50 and 100 feet in thickness. Located below the Antrim Shale are carbonate (limestone) formations of the Traverse Group.

3.2 HYDROGEOLOGY

In the regional area surrounding the Site, the following water bearing zones are generally present:

1. upper sand water table zone;
2. lower sands confined aquifer; and
3. confined bedrock aquifer(s).

3.2.1 Overburden Hydrogeology

Regional well logs available for the well locations identified on Figure 3.4 were used to construct an approximate east-west geologic cross-section (Figure 3.5). This stratigraphic information was not

incorporated into the Site geology database due to a lack of elevation control. Figure 3.6 indicates that the Site is located in an area where usable aquifers (e.g. lower sands aquifer) generally exist at depth in the glacial drift. Figure 3.7 presents the regional lower sands aquifer vulnerability to surface contamination. These figures indicate that the area in the vicinity of the Site is located in a zone where glacial tills and clay serve to protect the usable aquifers (e.g. the lower sands aquifer) from surface contamination events.

The upper sands of the area contains a shallow water table zone which is highly influenced by local drainage patterns and topography. This upper water table zone generally exists in the upper 10 to 20 feet of the overburden with a saturated thickness of approximately 5 to 10 feet. As a result of its shallow depth, unprotected nature, and limited yield, this zone is not used as a potable water source (in the vicinity of the Site) and would be generally prohibited from use as a drinking water source by Michigan Department of Health regulations (due to its shallow depth). Furthermore, the shallow water table zone, because of its low yield, does not meet the definition of an aquifer as defined in Michigan Act 307. It is expected that the upper water table zone discharges to the surface water drainage areas in the vicinity of the Site.

A confined lower sands aquifer generally exists below the glacial tills and clays (i.e. aquitard) immediately underlying the upper sands.

In the Site region and in much of Washtenaw County, the lower sands aquifer is suitable for use as a potable water supply. In the area of Ypsilanti Township a total of 37 glacial drift water supply wells were reported. These supply wells varied in depth from 25 to 268 feet and were reported as producing as much as 3,500 gallons per minute (gpm).

3.2.2 Bedrock Hydrogeology

The uppermost bedrock unit in the region of the Site is the Antrim Shale. The Antrim shale is not considered water bearing and as a result constitutes a lower aquitard located above lower bedrock aquifers. In

the vicinity of the Site, the first usable bedrock aquifer exists in a Devonian carbonate formation of the Traverse Group. In Ypsilanti Township, this aquifer has been encountered in wells at depths of greater than 150 feet.

3.3 HYDROLOGY

The Site is located in the Huron River Basin just south of Ford and Belleville Lakes, which are impoundments formed by the damming of the Huron River. The Huron River Basin is presented on Figure 3.8. The Huron River Basin drains an area of 908 square miles lying in Ingham, Oakland, Monroe, Washtenaw and Wayne Counties. The Huron River ultimately discharges to Lake Erie with an average annual discharge rate of 590 cubic feet per second (cfs).

4.0 SITE SETTING

The purpose of this section is to provide a Site-specific description of the geology, hydrogeology and hydrology identified at the Site.

4.1 SITE GEOLOGY

The Site geology presented in this section is based upon the regional geologic information presented in Section 3.1 and the stratigraphic information obtained from fifty (50) boreholes and nine (9) monitoring wells installed at the Site as part of this investigation.

Utilizing the Site-specific information, two cross-sections were prepared for the alignments identified on Figure 4.1. The cross-sections identified on Figure 4.1 are presented on Figures 4.2 (B-B') and 4.3 (C-C'), respectively. The cross-sections were prepared based on the stratigraphic logs presented in Appendix A of this report.

The geology at the Site is divided into the overburden and bedrock. These are in turn sub-divided to classify five stratigraphic units:

1. Overburden
   - upper sand/fill - comprised of: topsoil, fill, sand, gravel, clay
   - glacial clay
   - lower sands - comprised of: sand, gravel, silt

2. Bedrock
   - Antrim shale
   - limestone

4.1.1 Overburden

The overburden is divided into three stratigraphic layers. The upper most layer consists of mixed sands, gravels, clays and fill. This

layer extends to a depth of 15 feet below ground surface (BGS) at the north end and approximately 22 feet BGS at the south end of the Site.

A glacial clay deposit exists immediately below the fill material in the area. This clay unit is continuous across the Site (see Figure 4.2 and 4.3). Borehole stratigraphic logs indicate this clay layer extends to a depth of approximately 28 feet BGS at the north end of the Site and 40 feet BGS at the south end of the Site. The thickness of this clay unit ranges from approximately 14 feet at BH5-93 to 18 feet at BH46-93. No evidence of glacial till was identified at the Site.

The lower sands unit is comprised of glacially derived sand, gravel and silt, located below the clay layer. This unit is areally extensive. It extends from depths of approximately 30 to 130 feet BGS and was observed to be approximately 90 feet thick at BH46-93.

4.1.2 Bedrock

The Antrim shale was the first bedrock unit encountered below the Site (at a depth of 130 feet BGS at BH46-93). As discussed in Section 3.1.2, limestone bedrock is expected to underlie this shale.

4.2 SITE HYDROGEOLOGY

The Site hydrogeology has been characterized through the installation of six (6) shallow and three (3) deep monitoring wells, static water level measurements (in the monitoring wells and the ponds), single well response tests, and laboratory geotechnical tests. In general, the hydrostratigraphic units encountered at the Site are summarized as follows:

1. upper water table zone;
2. clay aquitard;
3. lower sands aquifer; and
4. bedrock shale aquitard.

The upper water table zone exists in the permeable unconsolidated upper sand/fill unit which has been identified to exist from ground surface to a depth of approximately 15 to 22 feet BGS.

During the drilling of the boreholes, a clay stratum was encountered at a depth of 15 to 22 feet BGS with a thickness of 14 to 18 feet. This clay stratum, lacustrine clay, exists across the entire Site and has been identified throughout Wayne and Washtenaw Counties. Lacustrine clay typically exhibits a hydraulic conductivity of 10^{-7} - 10^{-10} cm/sec. (Groundwater, Freeze/Cherry, 1979). A U.S. EPA Field Investigation Team (FIT) identified an unconsolidated lacustrine clay deposit approximately two miles north of the Site. The FIT, in a report titled, "Extent of Contamination Study, Willow Run Site, Washtenaw and Wayne Counties, Michigan", and dated February 1984, determined the hydraulic conductivity to be on the order of 10^{-8} cm/sec. The hydraulic conductivity of samples collected from the clay stratum on Site were also determined to be on the order of 10^{-8} cm/sec. The thickness and low hydraulic conductivity of this clay stratum effectively serves to limit the downward migration of groundwater from the upper water table zone to the lower sands aquifer.

The lower sands aquifer exists beneath the clay aquitard in the lower sands unit. In the vicinity of the Site, this aquifer is non-Artesian, although it is generally Artesian in the Site region. The local non-Artesian nature of the aquifer may be due to the influence of groundwater extraction in the vicinity of the Site, or possibly, a locally-higher elevation of the stratigraphic contact of the lower sands and overlying glacial clay.

The thickness of the unsaturated lower sands zone ranges from approximately 14 feet at MW3D-93 (BH46-93) to 31 feet at MW2D-93 (BH5-93). The saturated lower sands aquifer zone was observed to be 77 feet thick at MW3D-93.

Underlying the lower sands aquifer is the bedrock shale aquitard formed by the Antrim shale. The Antrim shale was identified at a depth of approximately 130 feet BGS at MW3D-93 (BH46-93).

4.2.1 Groundwater Flow - Upper Water Table Zone

Groundwater elevation data collected during June, July and August 1993 are summarized in Table 4.1. Water table contours for the July and August 1993 water level data are respectively presented on Figures 4.4 and 4.5.

The groundwater elevation contours for the upper water table zone indicate a general groundwater flow direction of northwest. The westerly component of flow is likely due to the influence of the on-Site ponds. Without the ponds' influence, the flow direction would be expected to be north. Based on the observed flow direction, it is expected that the shallow groundwater will ultimately discharge to Ford Lake.

The hydraulic conductivity of the upper water table zone was evaluated utilizing the following methods:

1) Single Well Response Tests (SWRTs); and
2) Hazen Equation.

These two methods and their results are discussed in the following subsections.

4.2.1.1 Single Well Response Tests (SWRTs) - Upper Water Table Zone

The SWRT test, which was outlined in Section 2.4.2, involved inducing a change in the water level in a well by the introduction or removal of a slug of known volume. As the water level returned to its static level, measurements were made using a pressure transducer and an electronic data logger.

Multiple SWRTs were performed on wells MW2U-93 and MW3U-93. The time required for the water levels to recover to their static

elevation was approximately 1 to 3 minutes. A summary of SWRT results (estimated using the Bower and Rice method (1976, 1989) as implemented in the computer program AQTESOLV) is presented in Table 4.2. The mean values of hydraulic conductivity determined were 1.3×10^{-3} cm/s (1.1×10^{-4} feet/sec) and 3.3×10^{-3} cm/s (4.2×10^{-5} feet/sec) for wells MW2U-93 and MW3U-93, respectively. The single well response test results are presented in Appendix F.

4.2.1.2 Hazen Equation - Upper Water Table Zone

The hydraulic conductivity calculated using the Hazen estimation method provides an estimate of the average value over a specific sampling interval. Soil samples from 2 to 4-foot and 6 to 8-foot BGS interval were collected using split spoons and analyzed for grain size by the geotechnical laboratory. The results of the grain size analyses were plotted on grain size distribution curves and are presented in Appendix B. Grain size analyses were completed in accordance with ASTM C136.

The Hazen equation is presented as follows:

$$K = C(D_{10})^2$$

where:

K = hydraulic conductivity (cm/s);
C = a constant between 0.4 and 1.2, assumed to be 1.0; and
D_{10} = grain size diameter (mm) at which 10% by mass of the soil particles are finer.

This relationship is used to estimate the hydraulic conductivity of the soil based on its grain size distribution. The Hazen estimates are utilized as a benchmark for comparison with the in-situ hydraulic testing results.

A hydraulic conductivity (K) value of 10^{-4} cm/s (3×10^{-6} feet/sec) is approximately the boundary between pervious and poorly drained soils under low gradients (Holtz, 1981). The Hazen equation provides a reasonable estimate when the hydraulic conductivity is greater than 10^{-3} cm/s (3×10^{-5} feet/sec). That is, the equation is most accurate when determining the hydraulic conductivity of clean sands and gravels. This limit corresponds to a D_{10} grain size of 0.032 mm for a coefficient (c) equal to unity (1.0).

The calculated hydraulic conductivity values over the specified depth intervals, as determined by the Hazen Method, are presented in Table 4.3. All samples taken for grain size analysis were taken from depth intervals corresponding to the well screen interval for each of the monitoring wells, thus providing an estimate of the hydraulic conductivities of the soils in the zone in which the wells screens are completed. The values of the D_{10} grain size required for the calculation of hydraulic conductivity were obtained from the grain size results presented in Appendix B. The grain size results for BH5-93 were not used to estimate a hydraulic conductivity as neither the shallow or deep sample data extends to the 10 percent passing level. The hydraulic conductivity was calculated using a C constant equal to unity (1.0).

The calculated Hazen hydraulic conductivities for the upper water table zone (Table 4.3) range from 8.7×10^{-3} to 2.6×10^{-2} cm/s (3.2×10^{-4} to 9.6×10^{-4} feet/sec) with a geometric mean value of 1.6×10^{-2} cm/s (5.2×10^{-4} feet/sec). These values are approximately one order of magnitude greater than those estimated using the SWRTs.

4.2.1.3 Groundwater Velocities - Upper Water Table Zone

The groundwater velocity provides an indication of the potential rate of contaminant migration. The velocity (v) is a function of hydraulic conductivity (K), hydraulic gradient (i) and effective porosity (n), as described by the following adaptation of Darcy's law:

$$v = Ki/n$$

For the purposes of this study, the maximum potential groundwater velocity was determined in order to provide a conservative estimate of the potential rate of contaminant migration.

The maximum groundwater velocity in the upper water table zone is in the northeast corner of the Site which exhibits the highest observed hydraulic gradient (Figure 4.4 and 4.5) and the highest calculated hydraulic conductivity (Table 4.2).

The hydraulic gradient was calculated between the northern limit of Pond No. 1 and MW2U-93 (a distance of approximately 400 feet) for the August 17/19, 1993 water level data (Figure 4.5). It was assumed that Pond No. 1 was in full hydraulic connection with the upper water table zone. This basis provided the highest estimate of hydraulic gradient. The observed water levels were 700.4 and 699.4 feet AMSL for the pond and MW2U-93, respectively. The calculated hydraulic gradient based on these numbers was 0.0025 [i = (700.4-699.4)/400 = 0.0025].

The hydraulic conductivity was selected to be equal to 3.3×10^{-3} cm/s (1.1×10^{-4} feet/sec), which corresponds to the SWRT value for MW2U-93 (also the maximum hydraulic conductivity value calculated from the SWRTs). The Hazen hydraulic conductivity mean values were not used as the SWRT values are considered to be more representative of actual in-situ conditions.

The effective porosity was assumed to be equal to 0.30 (30 percent).

The calculated maximum potential groundwater velocity using the above information was 29 feet/year. The groundwater velocity in other areas of the Site is expected to be significantly lower than 29 feet/year.

4.2.2 Groundwater Flow - Lower Sands Aquifer

Groundwater elevation data were collected during June, July and August 1993 and are summarized in Table 4.5. Lower sands aquifer contours for the July and August water level data are respectively presented on Figures 4.6 and 4.7. The groundwater in the lower sands aquifer flows north with a slight eastward component indicated in the northern part of the Site.

The hydraulic conductivity of the lower sands aquifer was evaluated utilizing the following methods:

1) Single Well Response Tests (SWRTs); and
2) Hazen Equation.

These two methods and their results are presented in the following subsections.

4.2.2.1 Single Well Response Test (SWRTs) - Lower Sands Aquifer

Multiple SWRTs were performed at MW2D-93 and MW3D-93 in the lower sands aquifer using the same procedure as outlined for the upper water table zone (Section 4.2.1.1). A summary of the SWRT results is presented in Table 4.2. The values of hydraulic conductivity determined from the SWRTs were 2.5×10^{-3} cm/s (8.1×10^{-5} feet/sec) at MW2D-93 and 6.9×10^{-3} cm/s (2.3×10^{-4} feet/sec) at MW3D-93.

4.2.2.2 Hazen Equation - Lower Sands Aquifer

The hydraulic conductivity of the lower sands aquifer was also estimated using the Hazen Equation. The Hazen Equation is discussed in detail in Section 4.2.1.2. Grain size analysis results used to calculate the Hazen hydraulic conductivity for the lower sands aquifer are presented in Appendix B. Table 4.3 presents the calculated Hazen hydraulic conductivities

for the lower sands aquifer. The calculated values are 6.4×10^{-2} cm/s (2.1×10^{-3} feet/sec) at BH2D-93 and 1.8×10^{-2} cm/s (5.7×10^{-4} feet/sec) at BH46D-93. These are somewhat greater than those estimated using the SWRTs

4.2.2.3 Groundwater Velocities - Lower Sands Aquifer

The maximum potential groundwater velocity, based on the available Site data, was calculated in order to provide a conservative estimate of the groundwater velocity in the lower sand aquifer. The groundwater velocity was calculated using the relationship presented in Section 4.2.1.3.

The groundwater velocity calculation was based upon a northerly flow direction, approximately from MW3D-93 to MW2D-93. The hydraulic gradient was calculated to be approximately 0.0016, based on a separation distance of 2,500 feet and the July 28, 1993 water levels as presented on Figure 4.6 (i = (651.87 - 647.79)/2500 = 0.0016).

The hydraulic conductivity was selected to be equal to 6.9×10^{-3} cm/s (2.3×10^{-4} feet/sec) which is the highest mean value determined the SWRTs. The hydraulic conductivity was based upon the SWRT results rather than the Hazen equations results as they are considered to be more highly representative of actual in-situ conditions.

The effective porosity was assumed to be equal to 0.30 (30 percent).

The calculated maximum potential groundwater velocity using the above information was 38 feet/year towards the north. This velocity is approximately 30 percent higher than that estimated for the upper water table zone.

4.2.3 Groundwater Flow - Clay Aquitard

The clay aquitard is a low permeability unit which hydraulically separates the upper water table zone from the lower sands aquifer. The movement of groundwater within the aquitard is orders of magnitude lower than that in the more permeable sand zones.

The vertical hydraulic conductivity of the aquitard clay was determined by performing permeameter tests on the two (2) "Shelby Tube" samples. The test results indicated vertical hydraulic conductivity values of 1.0×10^{-8} cm/s (3.3×10^{-10} feet/sec) at BH5-93 and 2.9×10^{-8} cm/s (9.2×10^{-10} feet/sec) at BH46-93. These values indicate that the clay layer has a very low hydraulic conductivity and therefore would serve as an aquitard to the downward movement of groundwater from the shallow water table zone. The hydraulic conductivity of the clay layer at this Site is approximately one order of magnitude lower than the value generally required for a landfill liner comprised of compacted clay (e.g. 10^{-7}cm/sec).

4.3 HYDROLOGY

Precipitation and runoff remains on Site, draining into the existing low areas (such as ditches or depressions) and ponds. As a result, surface drainage waters do not flow directly off Site but become part of the ponds or upper water table zone flow regime. The following identifies the pond elevations on August 19, 1993:

Pond 1	700.4 feet AMSL
Pond 2	699.8 feet AMSL
Pond 3	700.3 feet AMSL

Off-Site ponds had the following elevations (see Figure 1.1):

Pond to southwest of Pond 1	701.2 feet AMSL
Pond to west of Pond 2	700.7 feet AMSL
Pond to north west of Pond 2	700.2 feet AMSL

Pond west of Pond 3	699.0 feet AMSL

The elevations of these ponds are consistent with the groundwater flow directions identified on Figures 4.4 and 4.5.

5.0 CHEMICAL DISTRIBUTION

The purpose of this section is to present the results of the chemical distribution identified in the various environmental media sampled at the Site. The chemical analytical data for collected samples of surface and borehole soil, groundwater and pond sediment are presented respectively in Appendices C, F and G. Chain-of-Custody forms are presented in Appendix H. The data validation memorandums are presented in Appendix I. The chemical distribution in various on-Site environmental media is presented in the following subsections:

Section 5.1 Surface and Borehole Soils;
Section 5.2 Groundwater;
Section 5.3 Pond Sediment; and
Section 5.4 Summary.

5.1 SURFACE AND BOREHOLE SOILS

During the field activities, ten (10) surface and 106 subsurface borehole soils samples were collected from the locations identified on Figure 2.1. A summary of soil samples collected is presented in Table 5.1. Soil samples were collected as discussed in Section 2.3.1. The number of occurrences and range of concentrations for chemicals detected are presented in Table 5.2 The analytical results are presented in Appendix C and discussed in the following subsections.

5.1.1 VOCs

One (1) surface and seventeen (17) subsurface borehole samples were collected and analyzed for VOCs. A summary of detected VOCs in surface and borehole soils is presented in Table 5.3. Total VOC concentrations identified in surface and subsurface borehole soils are schematically presented on Figure 5.1.

5.1.2 BNAs

One (1) surface and seventeen (17) subsurface borehole samples were collected and analyzed for BNAs. A summary of detected BNAs in surface and borehole soils is presented in Table 5.4. Total BNA concentrations identified in surface and subsurface borehole soils are schematically presented on Figure 5.2.

5.1.3 PCBs/Pesticides

Ten (10) surface and 106 subsurface borehole samples were collected and analyzed for PCBs. One (1) surface and sixteen (16) borehole samples were collected and analyzed for pesticides. A summary of detected PCBs/Pesticides is presented in Table 5.5. PCB concentrations detected at the 2 to 4 and 6 to 8-foot intervals are schematically presented on Figures 5.3 and 5.4. Isoconcentration contours for PCBs at the 1 ppm, 10 ppm, 25 ppm and 50 ppm level are presented on Figures 5.3 and 5.4.

The isoconcentration lines were determined using the data developed during the EOC Study and select historic data from locations not sampled during the EOC Study. The specific historic data used are samples P13, P14, P15, P17 and P19 from the 1989 TAT field study and S3 from the 1990 FIT field study. The historic data is used in the area located south of EOC Study boreholes BH-21, 22, 23, 24-93 and north of Pond 1.

The volume of PCB contaminated soil was estimated and is presented in Table 5.6. Volumes were estimated using areas calculated from the isoconcentration lines at both the 2 to 4 feet BGS and 6 to 8 feet BGS intervals. These areas were then multiplied by depths of 0 to 5 feet BGS or 5 to 10 feet BGS in order to obtain an estimate of the volume of PCB-containing material.

5.1.4 Inorganics

Inorganic parameters are naturally occurring in soils, therefore it is important to establish background levels for comparison purposes. Based on knowledge of past operations at the Site, it was concluded that soil samples from BH-46, 47, 48, 49-93 are most representative of background conditions. Background inorganics data are summarized in Table 5.7. A summary of detected inorganics in surface and subsurface borehole soil is presented in Table 5.8.

5.2 GROUNDWATER - ROUNDS 1 AND 2

5.2.1 Groundwater Analytical Results

Groundwater samples were collected during two sampling rounds as discussed in Section 2.4.1. Samples were collected from nine (9) monitoring wells identified on Figure 2.2. Analytical results for these samples are presented in Appendix E.

A summary of samples collected for both rounds is presented in Table 5.9. All monitoring wells were sampled for the same parameters in Round 1 and Round 2. Summaries of detected parameters for Round 1 and Round 2 are presented in Tables 5.10 and 5.11, respectively. The number of occurrences and range of detected chemicals are presented in Table 5.12.

5.2.1.1 VOCs

Samples were collected and analyzed from the six (6) upper water table zone and three (3) lower sands aquifer monitoring wells identified on Figure 2.2. Several VOCs were detected in both Round 1 and Round 2. Detected concentrations of VOCs are presented in Tables 5.10 and 5.11. The number of occurrences and range of concentrations are presented in Table 5.12.

5.2.1.2 BNAs

Samples were collected and analyzed from the six (6) upper water table zone and three (3) lower sands aquifer monitoring wells identified on Figure 2.2. Detected concentrations of BNAs are presented in Tables 5.10 and 5.11. The number of occurrences and range of concentrations detected are presented in Table 5.12.

5.2.1.3 PCBs/Pesticides

Samples were collected and analyzed from the six (6) upper water table zone and three (3) lower sands aquifer monitoring wells identified on Figure 2.2. Detected concentrations of PCBs/Pesticides are presented in Tables 5.10 and 5.11. No pesticides were detected. PCB concentrations of 8.4 µg/L (Round 1) and 12 µg/L (Round 2) were detected in MW-1U-93. PCBs were not detected in any other monitoring well.

5.2.1.4 Filtered Inorganics

Samples were collected and analyzed from the six (6) upper water table zone and three (3) lower sands aquifer monitoring wells identified on Figure 2.2. Samples were collected for filtered inorganics and unfiltered inorganics. Detected concentrations are presented in Table 5.10 and Table 5.11. The number of occurrences and range of concentrations are presented in Table 5.12.

Inorganic parameters are naturally occurring, therefore it is important to establish background levels for comparison purposes. Based on the direction of ground water flow, monitoring wells MW-3U-93/MW-6U-93 and MW-3D-93 are probably most representative of background conditions. Background inorganics data are presented in Table 5.13 for both the upper water table zone and lower sands aquifer.

5.3 POND SEDIMENT

Seventeen (17) pond sediment samples were collected from nine (9) locations identified on Figure 2.3. A summary of pond sediment samples collected is presented in Table 5.14. Samples were collected as discussed in Section 2.5. A summary of detected chemicals in pond sediment is presented in Table 5.15. The number of occurrences and range of concentrations for detected chemicals are presented in Table 5.16. Analytical results are presented in Appendix G and discussed in the following subsections.

5.3.1 VOCs

Six (6) samples were collected and analyzed for VOCs. A summary of detected VOCs is presented in Table 5.14.

5.3.2 BNAs

Six (6) samples were collected and analyzed for BNAs. A summary of detected BNAs is presented in Table 5.14.

5.3.3 PCBs/Pesticides

Seventeen (17) samples were collected and analyzed for PCBs/Pesticides. No PCBs or pesticides were detected in any of the sediment samples analyzed.

5.3.4 Inorganics

Six (6) samples were collected and analyzed for metals. A summary of detected inorganics is presented in Table 5.14.

5.4 SUMMARY

The purpose of this section is to provide a summary of the analytical results presented in this report. The summary is presented on a media by media basis as follows:

A. Soil
   - A.1 Upper Sand
   - A.2 Clay
   - A.3 Lower Sand

B. Groundwater
   - B.1 Water Table Zone
   - B.2 Lower Sands Aquifer

C. Sediments

A summary of the detected constituents which exceed Michigan Type B or C cleanup levels is presented in Tables 5.17 through 5.24 and discussed below. The comparison of detected constituents to Michigan Type B and C cleanup levels are for comparison purposes only. Cleanup levels for the Site have not yet been determined. Michigan Type B cleanup levels are from MERA Operational Memorandum #8, Revision 2 (dated July 16, 1993). Michigan Type C cleanup levels are from MERA Operational Memorandum #14, dated September 23, 1993.

A. SOIL

A.1 Soil - Upper Sand/Fill

A summary of the constituents which exceed the Michigan Type B soil cleanup levels is presented in Table 5.17. As identified in Table 5.17, there are no VOCs or inorganics which exceed the Type B soil cleanup levels. Benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, chrysene and hexachlorobenzene exceed the Type B cleanup levels. In addition, Table 5.17 indicates that PCBs exceed Type B and C cleanup levels in four areas to the north and west of Pond 1 (as identified on Figure 5.3 and 5.4).

A.2 Soil - Clay Layer

Table 5.18 indicates that there are no exceedances of the Type B soil cleanup levels in the clay layer located below the upper sand/fill.

A.3 Soil - Lower Sands

Table 5.19 indicates that there are no exceedances of the Type B soil cleanup levels in the lower sands unit located below the clay aquitard layer.

B. GROUNDWATER

B.1 Groundwater - Upper Water Table Zone

Tables 5.20 and 5.21 present a summary of the constituents which exceeded the Type B groundwater cleanup levels during Rounds 1 or 2. Constituents identified to exceed the Type B groundwater cleanup levels include benzene, vinyl chloride, PCBs and manganese. It should be noted that benzene was not

identified above the Type C groundwater cleanup levels. PCBs were identified to exceed Type B/C levels at MW-1U-93.

B.2 Groundwater - Lower Sands Aquifer

Tables 5.22 and 5.23 indicate that there are no exceedances of Site-related constituents in the lower sands aquifer. This was ascertained by comparing the constituents identified in the upper water table zone to those identified for the lower sands aquifer groundwater. Acetone, chloroform, chromium and lead were detected in the lower sands aquifer at concentrations above Michigan Type B groundwater cleanup criteria. None of the compounds identified above were detected in the lower sands aquifer, above Michigan Type B cleanup levels, in both sampling rounds 1 and 2. In addition, none of these compounds were identified above Michigan Type B cleanup levels in the groundwater samples from the upper water table zone. Therefore, the presence of these compounds in the lower sands aquifer is not considered Site-related. It should be noted that acetone and chloroform are common laboratory contaminants and their identification at the relatively low levels may be associated with the project laboratory.

C. SEDIMENTS

Table 5.24 indicates that there are no exceedances of Type B/C soil cleanup levels in the pond sediments.

In general, the exceedances of Michigan Type B or C cleanup levels were identified in the upper sand/fill materials (and associated upper water table zone groundwater) located to the north and west of Pond 1. In addition, the general extent of contamination is defined by the zone identified to contain PCBs in excess of the Michigan Type B/C soil cleanup levels (i.e. the other constituents of potential concern are physically associated with the soils that were identified to contain PCBs at levels above Michigan Type B/C levels).

6.0 SUMMARY

The purpose of this section is to present a summary of the information which has been presented in this EOC report.

Site Description

The Site description is summarized as follows:

- The Site is an inactive industrial property located to the southeast of the corner of Textile Road and Bunton Road in Ypsilanti Township, Washtenaw County, Michigan.

- Future land use plans contemplate the continued light industrial use of the property.

- The Site is bordered by Ford Motor Company to the east, by an agricultural property to the south, by Bunton road to the west and by Textile road to the north.

- The Site is generally flat and covered with relatively heavy vegetation (including trees and scrub brush).

- Three man-made ponds (as a result of gravel extraction) exist on Site.

Field Investigation

The field investigation at the Textile Road Site included the following activities:

- Site survey and base map preparation;
- installation of fifty (50) boreholes;
- installation of nine (9) monitoring wells;
- single well response testing of selected monitoring wells - upper water table zone and lower sands aquifer;

- collection of soil, groundwater and pond sediment samples for laboratory analysis; and
- water level measurements in all monitoring wells as well as the three (3) on-Site ponds.

Regional Setting

The regional setting is summarized as follows:

- The Site is located in southeastern Michigan.

- Overburden
  - deltaic surficial sands ranging from 10 - 20 feet thick.
  - glacially derived tills and clays.
  - lower sand unit.

- Bedrock
  - regional bedrock geology consists of Antrim Shale underlain by limestone formations.

- Hydrogeology
  - water table zone underlain by a continuous clay/till aquitard.
  - the clay aquitard has a very low hydraulic conductivity on the order of 10^{-8} cm/sec.
  - lower sands aquifer confined by a clay/till aquitard above and the Antrim Shale bedrock below.
  - limestone bedrock aquifer confined above by the Antrim Shale.

Site Setting

The geologic units at the Site are divided into two primary units as follows:

- Overburden
  - upper sand/fill - comprised of: topsoil, fill, sand, gravel, clay
  - glacial clay
  - lower sands - comprised of: sand, gravel, silt

- Bedrock
  - Antrim Shale
  - limestone

The hydrostratigraphic units encountered at the Site are summarized as follows:

- upper water table zone
- clay aquitard
- lower sands aquifer and
- bedrock shale aquitard.

Chemical Distribution

The chemical distribution at the Textile Road Site is summarized as follows:

Soil

- VOCs, BNAs and inorganic chemicals were identified at relatively low concentrations in the upper sands.
- There were no exceedances of the Michigan Type B soil cleanup levels in the clay aquitard or lower sands.
- PCBs were identified in four (4) areas at the north end of the Site at levels below 310 ppm (generally detected in the 5 to 100 ppm range).

Groundwater

- VOCs, BNAs and inorganic chemicals were identified at relatively low concentrations.
- PCBs were identified at 8.4J/12 µg/L (R1/R2) in monitoring well MW-1U-93 at the north end of the Site.

Pond Sediment

- No exceedances of Michigan Type B soil cleanup levels.
- PCBs were not detected.

In general, the shallow fill/sand to the north and west of Pond 1 was identified to contain PCBs (and associated constituents) at concentrations above the Michigan Type B/C cleanup levels. Groundwater in the affected soil/fill zone (i.e. upper water table zone) to the north and west of Pond 1 was also identified to contain constituents at concentrations above the Michigan Type B/C cleanup levels. The clay aquitard soils, lower sands soil and groundwater and pond sediments were identified to be unimpacted by Site related constituents.

7.0 REFERENCES

Bouwer, H. and R.C. Rice, A slug test for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, V.12, pp. 423 - 428, 1976.

Bouwer, H., The Bouwer and Rice slug test - an update, Groundwater, V.27, No. 3, pp. 304 - 309, 1989.

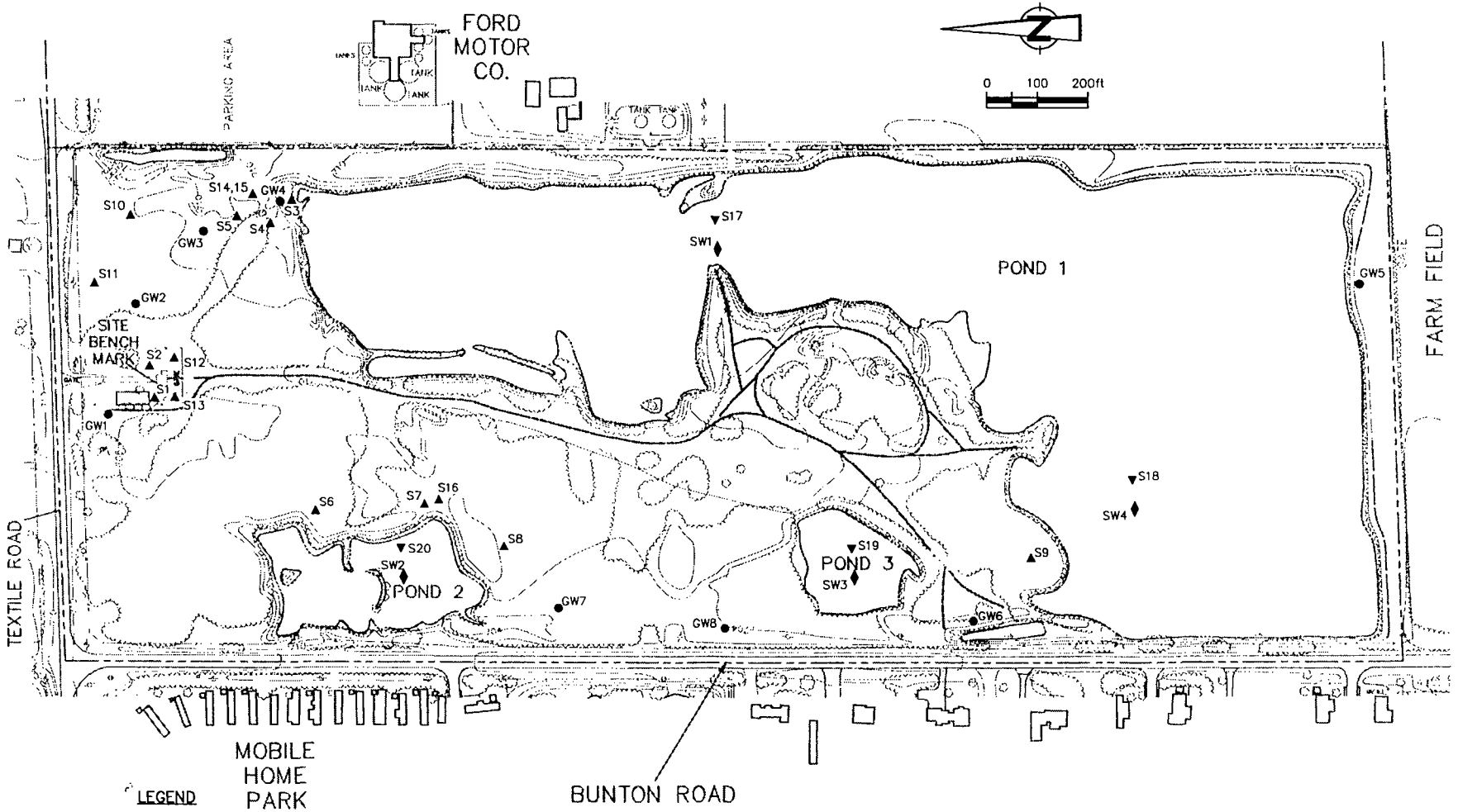


figure 1.4
1990 FIT SAMPLE LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) FEB 15/94(W) REV.0 (P-67)

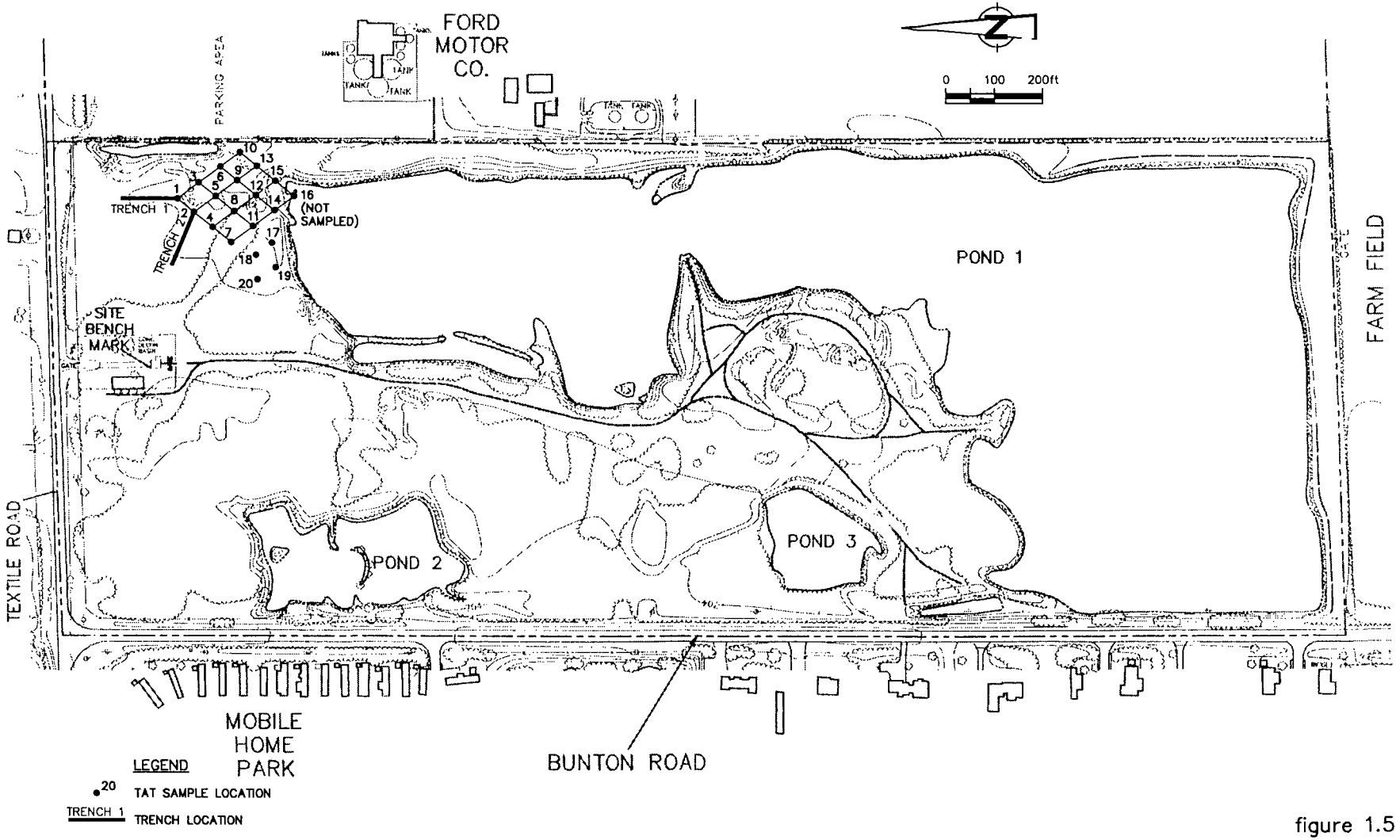


figure 1.5
1989 TAT SAMPLE LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) FEB 15/94(W) REV.0 (P-68)

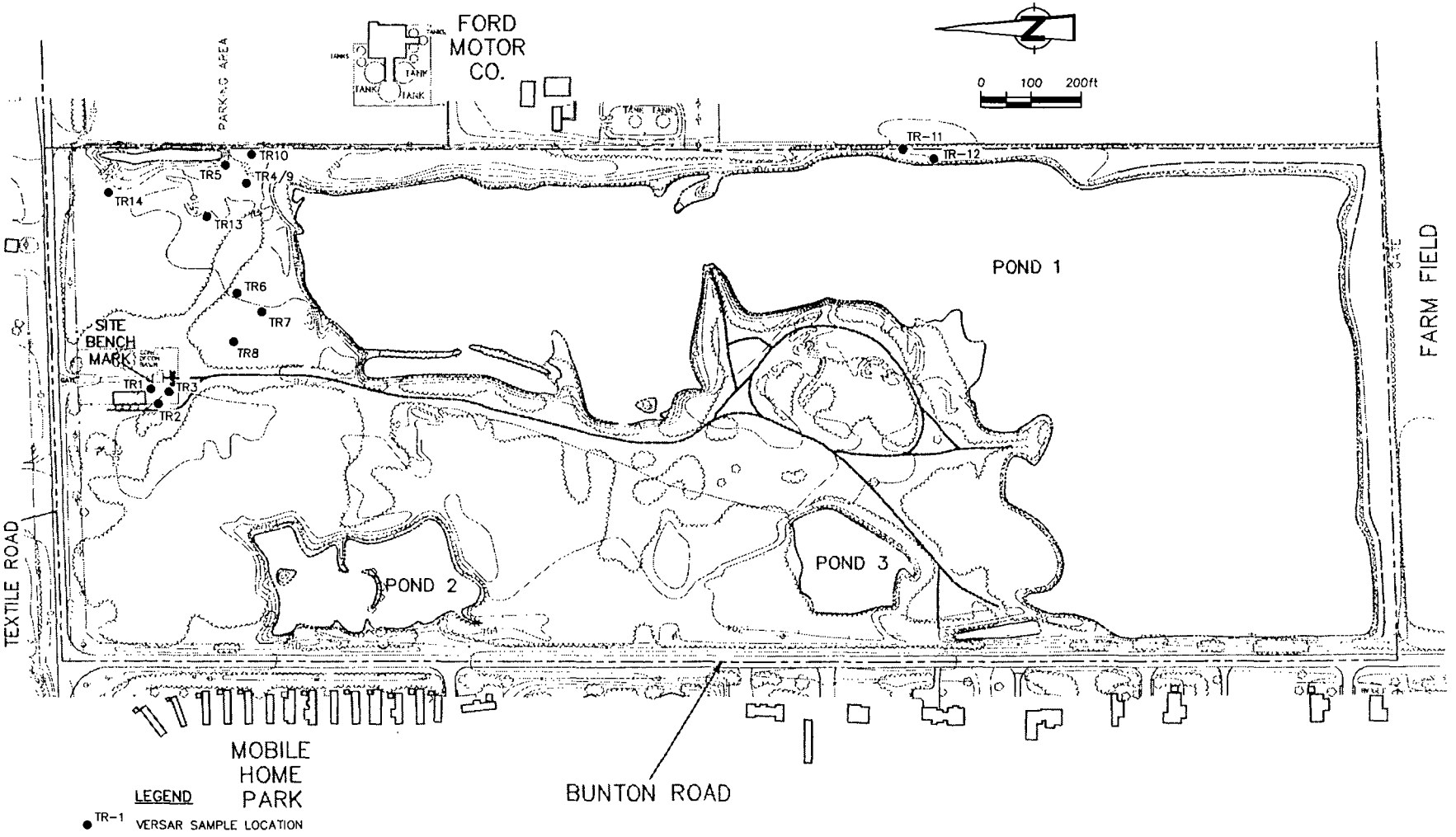


figure 1.6

1989 VERSAR SAMPLE LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) FEB 16/94(W) REV.0 (P-69)

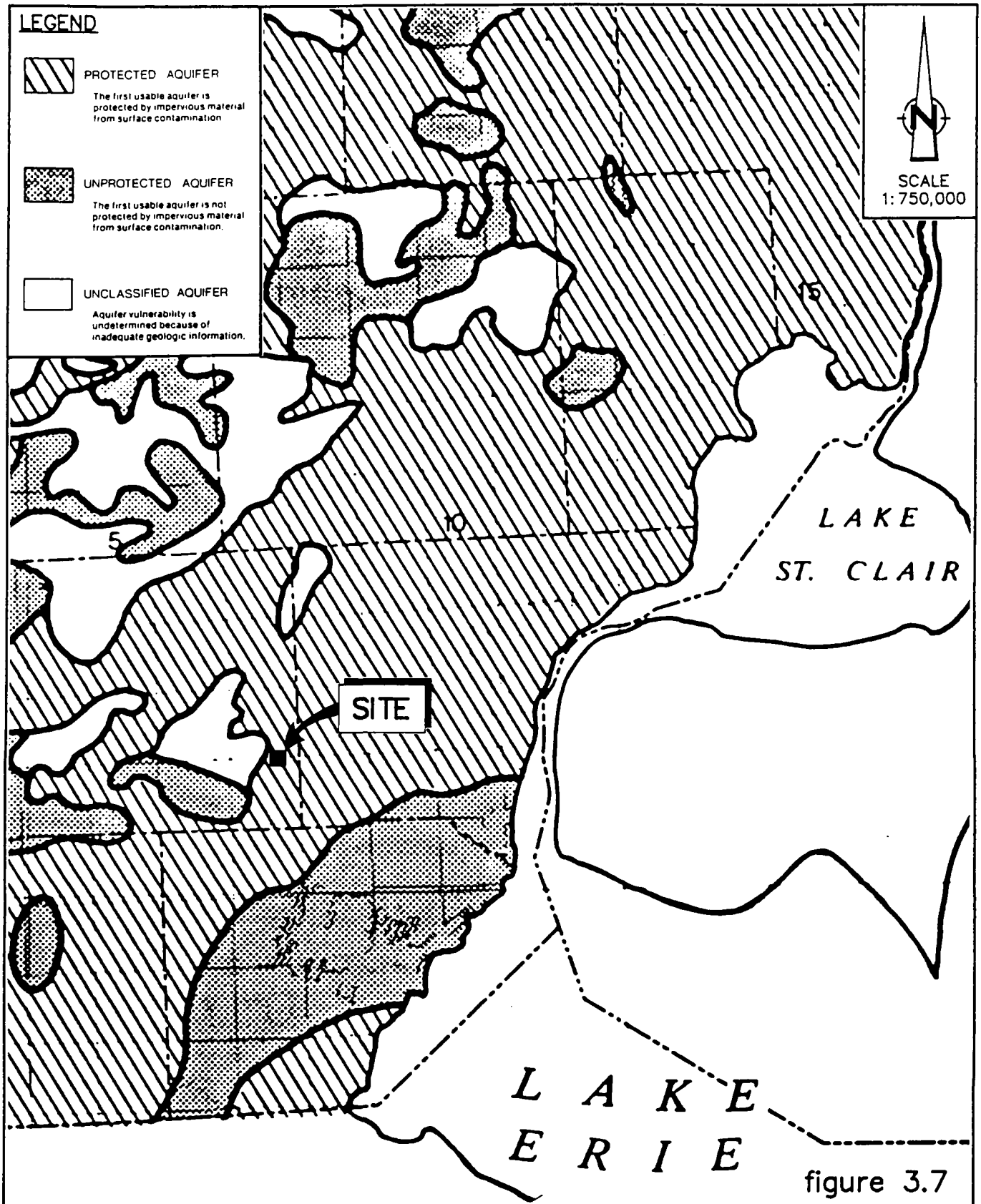


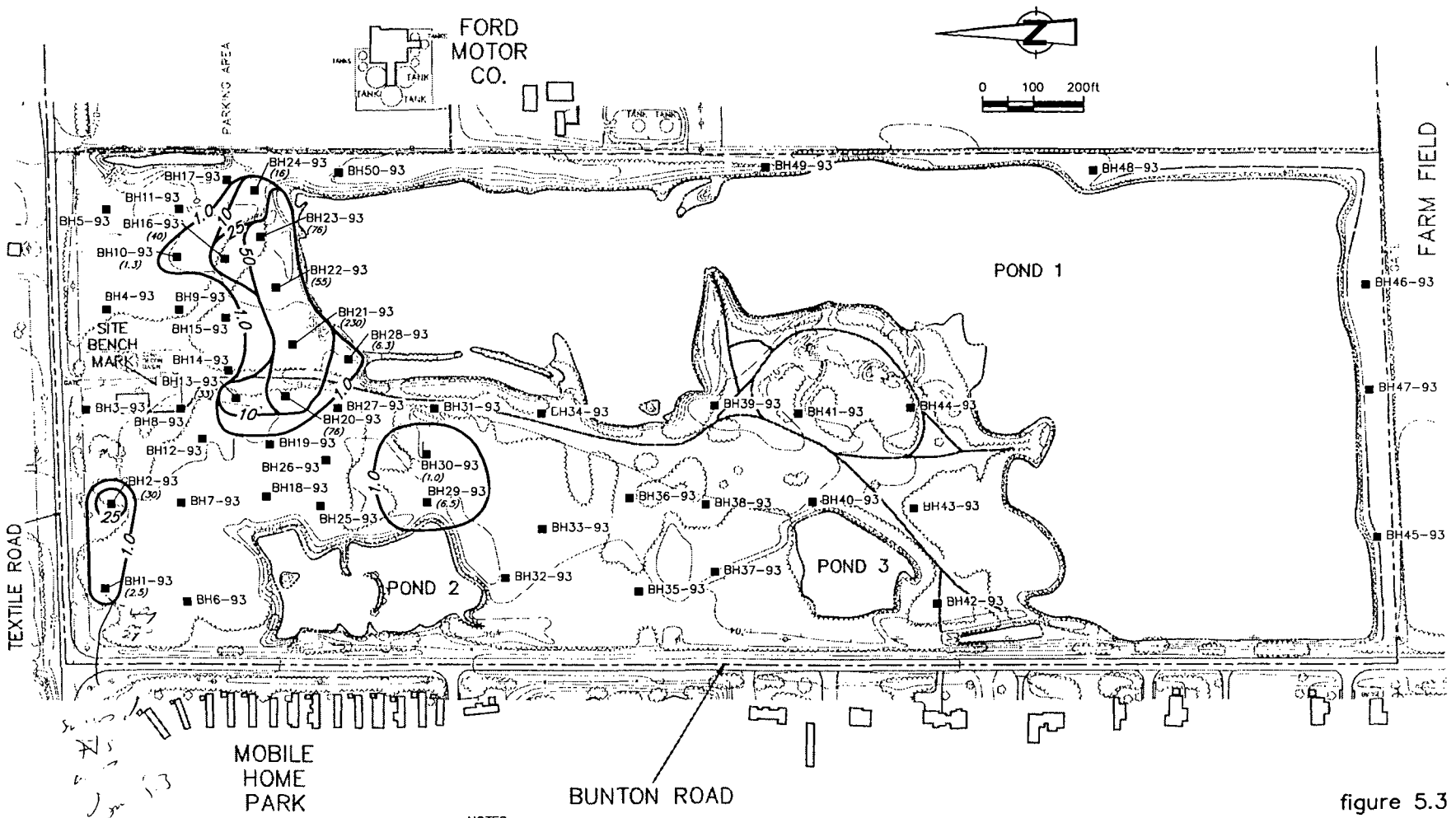
figure 3.7

AQUIFER VULNERABILITY TO SURFACE CONTAMINATION
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN
WESTERN MICHIGAN UNIVERSITY
DEPARTMENT OF GEOLOGY

CRA

4770 (11) FEB 16/94(W) REV.0



LEGEND

25 —— ISO CONCENTRATION LINE FOR 2–4' BGS

NOTES:

1) CONCENTRATIONS IN mg/kg.

2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.

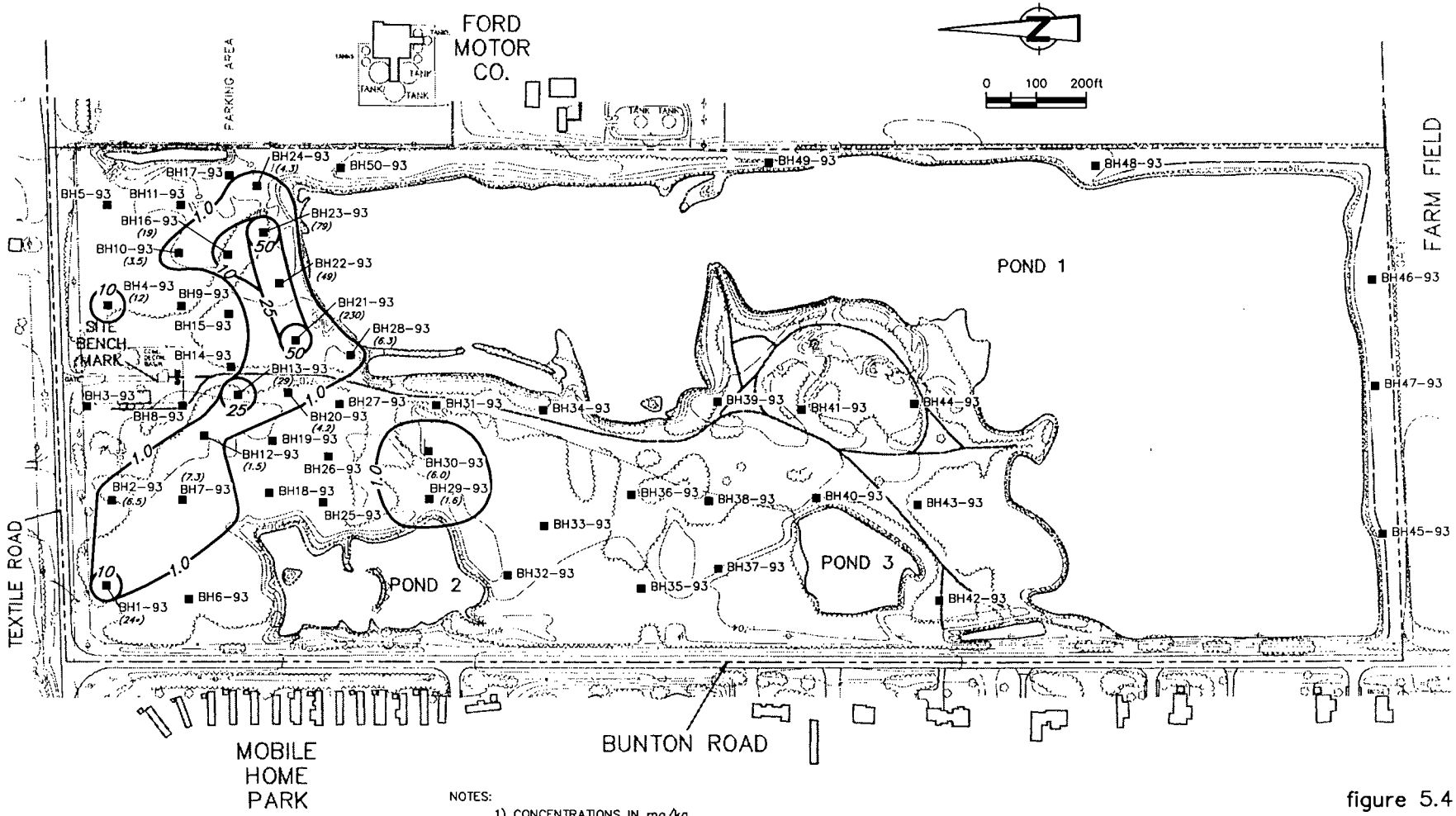
3) PCB CONCENTRATIONS IN SOIL @ 2–4' BGS.

figure 5.3

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOIL – 2–4' BGS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) FEB 21/94(W) REV.1 (P-56)



NOTES:

1) CONCENTRATIONS IN mg/kg.
2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.
3) PCB CONCENTRATIONS IN SOIL @ 6–8' BGS.
4) * – AROLOR 1260

LEGEND

25 —— ISO CONCENTRATION LINE FOR 6–8' BGS

CRA

figure 5.4

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOILS – 6–8' BGS
TEXTILE ROAD SITE
Washtenaw County, Michigan

TABLE 1.1

SUMMARY OF ANALYTICAL RESULTS
MDNR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Date	*Medium*	*Parameter*	*Concentration (ppm)*
April 12, 1983	Drum	PCB	8.1
	Drum	PCB	61.0
	Drum	PCB	210
	Soil (surface)	PCB	500
	Soil (surface)	PCB	160
June 8, 1983	Fish Tissue (5 samples)	PCB	ND (0.1)
	Fish Tissue (5 samples)	Pesticides	ND (0.01)
	Pond Sediment	PCB	1.1
	Pond Sediment	PCB	8.3
	Pond Sediment	DDD	0.048
	Pond Sediment	DDD	0.110
	Pond Sediment	DDE	0.070
	Pond Sediment	DDE	0.051
June 29, 1983	Soil (surface)	PCB	14.0
	Soil (surface)	PCB	360.0
	Soil (surface)	PCB	1.3
	Soil (2.5 ft)	PCB	6.1
	Soil (8 ft) @ water table	PCB	22.0
	Pond Sediment	PCB	100.0
	Pond Water	PCB	ND (0.0002)
	Black Material	PCB	4.5
	Black Waste	PCB	28.0
	Wood Block	PCB	11.0
March 20, 1986	Drum	PCB	32
	Drum	PCB	43
	Drum	PCB	17
	Soil	PCB	230

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S1*	*S2*	*S3*	*S4*	*S5*	*S6*	*S7*	*S8*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*
Time	*935*	*930*	*1005*	*1005*	*1005*	*1100*	*1105*	*1110*
CLP Organic Traffic Report Number	*EMK74*	*EMK75*	*EMK76*	*EMK77*	*EMK78*	*EMK79*	*EMK80*	*EMK81*
CLP Inorganic Traffic Report Number	*MEMQ54*	*MEMQ55*	*MEMQ56*	*MEMQ57*	*MEMQ58*	*MEMQ59*	*MEMQ60*	*MEMQ61*
Parameter								
Volatile Organics (ug/kg)								
methylene chloride	--	--	2J	--	4J	--	2J	
acetone	--	--	--	--	--	--	--	
carbon disulfide	--	--	--	--		--		
2-butanone	--	--	--	--		--	--	
benzene	--	--	--	--	--	1J	--	
toluene	1J	4J	3J	3J	12J	8J		
ethylbenzene	--					--		
styrene	--							
xylenes (total)	--	2J	2J	--	--	4J		
Semi-volatile Organics (ug/kg)								
phenol	--	71J	--	--	--	--	--	
2-methylnaphthalene	--	--	1,500J	--	--	--	--	--
pentachlorophenol	16,000J	--	--	--	--	--	--	--
phenanthrene	--	240J	--	--	--	--	--	2,100J
anthracene	--	--	--	--	1,500J	--	--	--
fluoranthene	--	230J	--	--	--	--	--	2,800J
pyrene	--	470	--	--	--	--	--	2,700J
butylbenzylphthalate	--	--	--	--	--	--	--	--
benzo(a)anthracene	--	180J	--	--	--	--	--	1,400J
chrysene	--	240J	--	--	--	--	--	1,900J
bis(2-ethylhexyl)phthalate	--	--	3,600J	--	--	--	--	--
benzo(b)fluoranthene	--	210J	--	--	--	--	--	7,100J
benzo(k)fluoranthene	--	190J	--	--	--	--	--	3,100J
benzo(a)pyrene	--	360J	--	--	--	--	--	8,300J
indeno(1,2,3-cd)pyrene	--	210J	--	--	--	--	--	7,800J
dibenzo(a,h)anthracene	--	81J	--	--	--	--	--	2,000J
benzo(g,h,i)perylene	--	190J	--	--	--	--	--	5,600J

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S1*	*S2*	*S3*	*S4*	*S5*	*S6*	*S7*	*S8*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*
Time	*935*	*930*	*1005*	*1005*	*1005*	*1100*	*1105*	*1110*
CLP Organic Traffic Report Number	*EMK74*	*EMK75*	*EMK76*	*EMK77*	*EMK78*	*EMK79*	*EMK80*	*EMK81*
CLP Inorganic Traffic Report Number	*MEMQ54*	*MEMQ55*	*MEMQ56*	*MEMQ57*	*MEMQ58*	*MEMQ59*	*MEMQ60*	*MEMQ61*
Pesticides/PCBs (ug/kg)								
beta BHC	--	--	--	--	--	--	--	13P
gamma BHC (Lindane)	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Endosulfan I	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--
4,4'-DDE	4.5JP	--	--	--	--	--	--	--
Endrin	24J	--	--	--	--	--	--	--
Endosulfan sulfate	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--
Methoxychlor (Mariate)	--	--	--	--	--	--	--	NL
Endrin ketone	9.0JP	--	--	--	--	--	--	NL
Aroclor 1254	--	800	59,000	120,000	140,000	34,000	5,400	--
Endrin aldehyde	54	--	--	--	--	--	--	160P

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	S1	S2	S3	S4	S5	S6	S7	S8
Date	12/11/90	12/11/90	12/11/90	12/11/90	12/11/90	12/11/90	12/11/90	12/11/90
Time	935	930	1005	1005	1005	1100	1105	1110
CLP Organic Traffic Report Number	EMK74	EMK75	EMK76	EMK77	EMK78	EMK79	EMK80	EMK81
CLP Inorganic Traffic Report Number	MEMQ54	MEMQ55	MEMQ56	MEMQ57	MEMQ58	MEMQ59	MEMQ60	MEMQ61
Inorganics (mg/kg)								
aluminum	2,110AEJ	3,110AEJ	11,100AEJ	10,500AEJ	18,400AEJ	123,000AEJ	28,600AEJ	6,180AEJ
antimony	--	--	--	19.7N	--	10.88N	10BN	
arsenic	4.6	5.6	25	37.7J	32.8	21.6	31.3	8.7
barium	267NAJ	350NAJ	201NAJ	1,130NAJ	319NAJ	23.7BNAJ	24.9BNAJ	10,100NAJ
beryllium	--	--	1.3B	--	0.59B	--		
cadmium	--	--	--	--	--	--		5.5
calcium	88,500AJ	28,100AJ	3,940AJ	2,440AJ	2,260AJ	800BAJ	6,350AJ	24,200AJ
chromium	8.5AJ	43.3AJ	314AJ	1,030AJ	531AJ	478AJ	289AJ	298AJ
cobalt	2.2B	3.4B	12.4B	89.9	23.3	31.1	26.1	14.3
copper	17.7	20.5	946	2950	329	13400	699	22.3
iron	6,280AEJ	14,200AEJ	81,800AEJ	388,000AEJ	158,000AEJ	300,000AEJ	247,000AEJ	14,300AEJ
lead	59.2	40.8	148	644	400	2,990	80.6	120
magnesium	46,700AJ	7,940AJ	1,610AJ	608BAJ	831BAJ	132BAJ	2,760AJ	9,880AJ
manganese	193NEJ	241NEJ	504NEJ	2,830NEJ	1,310NEJ	2,460NEJ	3,110NEJ	296NEJ
nickel	4.6B	14.3	75.4	282	120	362	177	15.2
potassium	389B	456B	399B	136B	284B	53.9B	324B	959B
selenium	--	--	--	--	--	--	--	0.79BEJ
sodium	72.8BJ	99.1B	142B	84.9BJ	134B	73.2BJ	80.5BJ	76.4BJ
thallium	8	--	--	--	--	--	--	--
vanadium	6B	6.2B	2B	--	2.9B	--	--	13.2
zinc	105NAEJ	47.3NAEJ	88.2NAEJ	141NAEJ	132NAEJ	1,540NAEJ	101NAEJ	450NAEJ
cyanide	--	--	--	--	--	--	--	2.6

Notes:

-- not detected
J indicates an estimated value
E indicates non-detection or semiquantitative
NL indicates not legible on document provided
A duplicate value outside QC protocols which indicates a possible matrix problem
N indicates value may be quantitative or semi-quantitative
B indicates value may be quantitative or semi-quantitative
W indicates value is semiquantitative

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S9*	*S10*	*S11*	*S12*	*S13*	*S14*	*S15*	*S16*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*
Time	*1150*	*1405*	*1450*	*1440*	*1445*	*1540*	*1600*	*1630*
CLP Organic Traffic Report Numl	*EMK82*	*EMK83*	*EMK84*	*EMK85*	*EMK86*	*EMK87*	*EMK88*	*EMK89*
CLP Inorganic Traffic Report Num	*MEMQ62*	*MEMQ63*	*MEMQ64*	*MEMQ65*	*MEMQ66*	*MEMQ67*	*MEMQ68*	*MEMQ69*
Parameter								
Volatile Organics (ug/kg)								
methylene chloride	--	--	3J	--	--	--	--	44
acetone	--	--	--	--	--	1,700B	1,600	970E
carbon disulfide	--	--	--	--	--	--	14	24
2-butanone	--	--	--	--	--	580BJ	170	210
benzene	--	--	--	--	--	--	28	75
toluene	7J	--	2J	--	--	--	63	29
ethylbenzene	2J	--	--	--	--	--	11J	7J
styrene	130	--	--	--	--	--	7J	--
xylenes (total)	2J	--	--	--	--	--	26	19
Semi-volatile Organics (ug/kg)								
phenol	--	--	--	--	--	--	--	--
2-methylnaphthalene	--	--	--	--	--	3,000J	--	1,700J
pentachlorophenol	--	--	--	--	--	--	--	--
phenanthrene	--	42J	--	--	--	--	2,300J	--
anthracene	--	--	--	--	--	--	2,500J	--
fluoranthene	--	93J	--	--	--	--	--	--
pyrene	--	71J	--	--	--	--	--	--
butylbenzylphthalate	--	71J	--	--	--	--	--	--
benzo(a)anthracene	--	--	--	--	--	--	--	--
chrysene	--	58J	--	--	--	--	--	--
bis(2-ethylhexyl)phthalate	--	89J	120J	--	38J	--	3,500J	--
benzo(b)fluoranthene	--	87J	--	--	--	--	--	--
benzo(k)fluoranthene	--	44J	--	--	--	--	--	--
benzo(a)pyrene	--	45J	--	--	--	--	--	--
indeno(1,2,3-cd)pyrene	--	44J	--	--	--	--	--	--
dibenzo(a,h)anthracene	--	--	--	--	--	--	--	--
benzo(g,h,i)perylene	--	51J	--	--	--	--	--	--

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S9*	*S10*	*S11*	*S12*	*S13*	*S14*	*S15*	*S16*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*
Time	*1150*	*1405*	*1450*	*1440*	*1445*	*1540*	*1600*	*1630*
CLP Organic Traffic Report Numl	*EMK82*	*EMK83*	*EMK84*	*EMK85*	*EMK86*	*EMK87*	*EMK88*	*EMK89*
CLP Inorganic Traffic Report Num	*MEMQ62*	*MEMQ63*	*MEMQ64*	*MEMQ65*	*MEMQ66*	*MEMQ67*	*MEMQ68*	*MEMQ69*
Pesticides/PCBs (ug/kg)								
beta BHC	--	--	--	--	--	--	--	
gamma BHC (Lindane)	--	--	--	1.7JP	--	-	--	
Heptachlor epoxide	--	--	--	0.9J	-	-	-	
Endosulfan I	0.7JP	--	-	0.3JP	--	--	-	
Dieldrin	--			0.6JP	--	-	--	
4,4'-DDE	1.6JP	--	--	0.3JP	--	--	--	
Endrin	--	--	--	--	--	--	-	
Endosulfan sulfate	--		0.4JP	-			-	
4,4' DDT	10P		0.8JP	0.9JP		-		
Methoxychlor (Mariate)	-		--	--				
Endrin ketone	--	--	--	--	--	-		
Aroclor 1254	-	74P	--	--		62, 000	110,000	7,200
Endrin aldehyde	--	--	-	--	--		-	

SUMMARY OF ANALYTICAL RESULTS
FIT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S9*	*S10*	*S11*	*S12*	*S13*	*S14*	*S15*	*S16*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*	*12/11/90*
Time	*1150*	*1405*	*1450*	*1440*	*1445*	*1540*	*1600*	*1630*
CLP Organic Traffic Report Numl	*EMK82*	*EMK83*	*EMK84*	*EMK85*	*EMK86*	*EMK87*	*EMK88*	*EMK89*
CLP Inorganic Traffic Report Num	*MEMQ62*	*MEMQ63*	*MEMQ64*	*MEMQ65*	*MEMQ66*	*MEMQ67*	*MEMQ68*	*MEMQ69*
Inorganics (mg/kg)								
aluminum	3,480AEJ	4,870AEJ	3,890AEJ	4,900AEJ	3,400AEJ	14,800AEJ	8,760AEJ	1,070AEJ
antimony	--	--	--	--	--	15.5N	--	26.8N
arsenic	6.1	3.9	5.9	4.6	5	45.4	51	71.6J
barium	49.4NAJ	26.1BNA	67.3NAJ	25.2BNAJ	11.6BNAJ	663NAJ	714NAJ	12.7BNAJ
beryllium	--	--	0.47B	--	--	0.56B	2.2	--
cadmium	11.2	--	--	--	--	--	--	--
calcium	21,400AJ	3,580AJ	8,160AJ	10,100AJ	76,700AJ	1,130AJ	1,910AJ	432BAJ
chromium	7.3AJ	12.6AJ	6.9AJ	8.2AJ	5.9AJ	771AJ	398AJ	664AJ
cobalt	2.5B	4.4B	3.3B	3.9B	3.4B	37.1	18.6	44.8
copper	42.7	20.9	20.6	13.8	16.7	1,970	341	773
iron	7,110AEJ	10,500AEJ	5,050AEJ	10,700AEJ	8,900AEJ	340,000AEJ	99,000AEJ	452,000AE
lead	32.6	18.5	7.3	11.1	8.3	472	58.2	5.3
magnesium	4,670AJ	2,040AJ	1,750AJ	4,840AJ	15,600AJ	224BAJ	440BAJ	40.5BAJ
manganese	189NEJ	96.6NEJ	57.1NEJ	194NEJ	349NEJ	2,280NEJ	717NEJ	8,030NEJ
nickel	7.1B	11.1	7.6B	7.9B	7.3B	250	87.8	281
potassium	455B	652B	261B	243B	302B	153B	583B	55.5B
selenium	--	--	--	--	--	--	2.9	--
sodium	76.7BJ	48.4BJ	54.4BJ	37BJ	65.9BJ	154B	383B	58.4B
thallium	--	--	--	--	--	--	1.1B	--
vanadium	7.7B	13.7	10B	10.7B	8.5B	--	11.7B	--
zinc	75.1NAEJ	46.5NAE	19.9NAEJ	26.5NAEJ	25.5NAEJ	157NAEJ	52.7NAEJ	--
cyanide	--	--	--	--	--	--	--	--

Notes:

-- not detected
J indicates an estimated value
E indicates non-detection or semiquantitative
NL indicates not legible on document provided
A duplicate value outside QC protocols which indicates a possible matrix problem
N indicates value may be quant indicates value is semiquantitative
B indicates value may be quantitative or semi-quantitative
W indicates value is semiquantitative

TABLE 1.3

SUMMARY OF ANALYTICAL RESULTS
FIT SEDIMENT INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S17*	*S18*	*S19*	*S20*
Date	*12/12/90*	*12/12/90*	*12/12/90*	*12/12/90*
Time	*1200*	*1250*	*1340*	*1410*
CLP Organic Traffic Report Number	*EMK90*	*EMK91*	*EMK92*	*EMK93*
CLP Inorganic Traffic Report Number	*MEMQO70*	*MEMQ71*	*MEMQ72*	*MEMQ73*
Parameter				
Volatile Organics (ug/kg)				
methylene chloride	–	–	2J	2J
acetone	–	32	72	16J
benzene	–	2J	–	–
Semi-volatile Organics (ug/kg)				
naphthalene	–	–	–	93J
phenanthrene	–	–	250J	140J
fluoranthene	69J	–	510J	280J
pyrene	82J	–	500J	230J
butylbenzylphthalate	–	–	–	78J
benzo(a)anthracene	–	–	230J	83J
chrysene	–	–	300J	110J
bis(2-ethylhexyl)phthalate	150J	–	–	–
benzo(b)fluoranthene	–	–	370J	140J
benzo(k)fluoranthene	–	–	280J	91J
benzo(a)pyrene	–	–	290J	180J
benzo(g,h,i)perylene	–	–	–	200J
Pesticides/PCBs (ug/kg)				
alpha BHC	–	1.2JP	–	–
Endosulfan I	–	–	2.4JP	–
4,4'-DDE	–	1.1JP	4.5JP	–
Endosulfan sulfate	–	–	1.5JP	–
4,4' DDT	–	1.2JP	5.35P	–
Endrin ketone	2.1JP	–	–	–
Aroclor 1254	–	–	–	140

TABLE 1.3

SUMMARY OF ANALYTICAL RESULTS
FIT SEDIMENT INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*S17*	*S18*	*S19*	*S20*
Date	*12/12/90*	*12/12/90*	*12/12/90*	*12/12/90*
Time	*1200*	*1250*	*1340*	*1410*
CLP Organic Traffic Report Number	*EMK90*	*EMK91*	*EMK92*	*EMK93*
CLP Inorganic Traffic Report Number	*MEMQO70*	*MEMQ71*	*MEMQ72*	*MEMQ73*
Inorganics (mg/kg)				
aluminum	3,060*EJ	2,090*EJ	5,840*EJ	6,210*EJ
arsenic	5.3	5.7	16.3	15
barium	25BN*J	18.6BN*J	86.4BN*J	86.8BN*J
beryllium	--	--	--	0.53B
calcium	65,500*J	52,400*J	99,400*J	43,100*J
chromium	8.8*J	3.6B*J	11.8*J	12.1*J
cobalt	4.6B	2.6B	7.3B	7.2B
copper	16	8.5B	28.4	25.3
iron	10,000*EJ	7,200*EJ	15,100*EJ	13,400*EJ
lead	14.8	8.3	64	32.2
magnesium	17,200*J	9,110*J	14,800*J	10,700*J
manganese	317NEJ	293NEJ	434NEJ	318NEJ
nickel	8.9B	5.6B	17.1B	15.8
potassium	477B	364B	970B	1,320B
selenium	--	--	--	2.4+J
sodium	161B	109B	211B	181B
vanadium	9B	5.6B	17.8B	17.3B
zinc	50.5N*EJ	28.1N*EJ	76.9N*EJ	55.8N*EJ

Notes:

- -- not detected
- + indicates data value may be biased
- J indicates an estimated value
- P duplicate value outside QC protocols for two GC columns
- N indicates value may be quantitative or semi-quantitative
- *,B indicates value is semiquantitative
- E indicates a non detect or value may be semiquantiative

TABLE 1.4

SUMMARY OF ANALYTICAL RESULTS
FIT SURFACE WATER INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*SW1*	*SW2*	*SW3*	*SW4*	*Duplicate*	*Blank*
Date	12/12/90	12/12/90	12/12/90	12/12/90	12/12/90	12/12/90
Time	*1200*	*1410*	*1340*	*1250*	*1250*	*1000*
CLP Organic Traffic Report Number	*EMK69*	*EMK70*	*EMK71*	*EMK72*	*ENA11*	*EMK99*
CLP Inorganic Traffic Report Number	*MEMQ79*	*MEMQ80*	*MEMQ81*	*MEMQ82*	*MEMQ88*	*MEMQ90*
Temperature (deg. C)	*10.4*	*11.5*	*9.9*	*9.4*	*9.4*	*6.7*
Specific Conductivity (µmhos/cm)	*732*	*1180*	*680*	*721*	*721*	*4.4*
pH	*8.25*	*7.66*	*7.80*	*8.50*	*8.50*	*6.30*
Parameter						
Volatile Organics (ug/L)						
methylene chloride	–	–	3J	2J	–	–
chloroform	–	–	–	–	–	2J
Inorganics (mg/L)						
aluminum	–	65.60BJ	–	–	–	–
arsenic	4.10B	–	–	9.50B	–	–
barium	37.10B	107B	40.90B	147B	34.80B	–
calcium	44,600	45,600	38,500	45,600	46,900	29.5BJ
copper	4.20BJ	3.20BJ	–	5.40BJ	–	*19.60B*
iron	89.40BJ	162	69.60BJ	49.50BJ	211.86BJ	–
lead	–	–	–	8.50J	5.00J	–
magnesium	16,900	18,300	13,500	17,100	17,400	–
manganese	9.40B	15.5	17.6	10.20B	9.30B	–
mercury	0.43NJ	–	–	–	–	–
potassium	5,170	64,400	11,300	4,650B	4,590B	–
selenium	4.40B	–	–	–	–	–
sodium	23,700	39,700	21,100	24,000	24,100	66.50BJ
thallium	–	–	–	2.00NW	–	–
zinc	15.00BJ	7.20BJ	10.00BJ	8.9BJ	–	9.50BJ
cyanide	–	19.2	–	–	–	–

Notes:

– not detected
J indicates an estimated value
N,B indicates value may be quantitative or semi-quantitative
W indicates value is semiquantitative

TABLE 1.5

SUMMARY OF ANALYTICAL RESULTS
FIT GROUNDWATER INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*GW1*	*GW2*	*GW3*	*Duplicate*	*GW4*	*GW5*	*GW6*	*GW7*	*GW8*	*Blank*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/12/90*	*12/12/90*	*12/11/90*	*12/11/90*	*12/12/90*	*12/12/90*	*12/11/90*
Time	*1310*	*1415*	*1615*	*1615*	*900*	*1100*	*1145*	*1005*	*1055*	*1100*
CLP Organic Traffic Report Number	*ENA01*	*ENA02*	*ENA03*	*ENA09*	*ENA04*	*ENA05*	*ENA06*	*ENA07*	*ENA08*	*ENA10*
CLP Inorganic Traffic Report Number	*MEMQ91*	*MEMQ92*	*MEMQ93*	*MEMQ86*	*MEMQ94*	*MEMQ95*	*MEMQ96*	*MEMQ84*	*MEMQ85*	*MEMQ87*
Temperature (deg. C)	*8.4*	*9.1*	*3.9*	*5.8*	*7.6*	*8.5*	*7.9*	*8.9*	*9.4*	*5.8*
Specific Conductivity (umhos/cm)	*1810*	*1620*	*9040*	*9040*	*920*	*1630*	*1760*	*1375*	*1030*	*4.69*
pH	*7.18*	*7.14*	*7.16*	*6.97*	*6.4*	*7.16*	*7.17*	*7.25*	*12.5*	*6.97*
depth to groundwater (ft)	*9.5*	*9.9*	*10.1*		*8.9*	*5.5*	*5.1*	*6.0*	*3.7*	
Parameter										
Volatile Organics (µg/L)										
chloromethane	--	120	--	--	--	--	--	--	--	--
acetone	--	--	--	--	--	--	--	--	--	12
chlorobenzene	--	--	--	--	1J	--	--	--	--	--
ethylbenzene	--	8J	--	--	--	--	--	--	--	--
xylene's(total)	--	9J	1J	4J	--	--	--	--	--	--
Semi-volatile Organics (ug/L)										
naphthalene	--	--	--	--	--	--	--	2J	--	--
phenanthrene	--	--	--	--	--	--	--	4J	--	--
anthracene	--	--	--	--	--	--	--	0.9	--	--
fluoranthene	--	--	--	--	--	--	--	3J	--	--
pyrene	--	--	--	--	--	--	--	3J	--	--
Pesticides/PCBs (ug/L)										
beta BHC	--	0.030JP	--	--	--	--	--	--	--	--
delta BHC	--	0.024J	--	--	--	--	--	0.015JP	--	--
Heptachlor epoxide	--	0.019JP	--	--	--	--	--	0.012JP	--	--
Dieldrin	--	--	--	--	0.031JP	--	--	0.012JP	--	--
4,4' DDE	--	0.022JP	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	0.006JP	--	--	--	--	--

TABLE 1.5

SUMMARY OF ANALYTICAL RESULTS
FIT GROUNDWATER INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*GW1*	*GW2*	*GW3*	*Duplicate*	*GW4*	*GW5*	*GW6*	*GW7*	*GW8*	*Blank*
Date	*12/11/90*	*12/11/90*	*12/11/90*	*12/12/90*	*12/12/90*	*12/11/90*	*12/11/90*	*12/12/90*	*12/12/90*	*12/11/90*
Time	*1310*	*1615*	*1615*	*1615*	*900*	*1100*	*1145*	*1005*	*1055*	*1100*
CLP Organic Traffic Report Number	*ENA01*	*ENA02*	*ENA03*	*ENA09*	*ENA04*	*ENA05*	*ENA06*	*ENA07*	*ENA08*	*ENA10*
CLP Inorganic Traffic Report Number	*MEMQ91*	*MEMQ92*	*MEMQ93*	*MEMQ86*	*MEMQ94*	*MEMQ95*	*MEMQ96*	*MEMQ84*	*MEMQ85*	*MEMQ87*
Temperature (deg. C)	*8.4*	*9.1*	*3.9*	*5.8*	*7.6*	*8.5*	*7.9*	*8.9*	*9.4*	*5.8*
Specific Conductivity (umhos/cm)	*1810*	*1620*	*9040*	*9040*	*920*	*1630*	*1760*	*1375*	*1030*	*4.69*
pH	*7.18*	*7.14*	*7.16*	*6.97*	*6.4*	*7.16*	*7.17*	*7.25*	*12.5*	*6.97*
depth to groundwater (ft)	*9.5*	*9.9*	*10.1*		*8.9*	*5.5*	*5.1*	*6.0*	*3.7*	
Pesticides/PCBs (ug/L) (cont'd)										
Endosulfan II	--	--		--	0.027JP	--	--	0.014JP	--	
Endrin ketone	--	--	--	--	0.013JP	--	--	--	--	--
gamma chlordane	--	--	--	--	--	--	--	0.0083JP		--
Inorganics (mg/L)										
aluminum	--	--	--	--	131B	--	--	--	1,480	--
arsenic	--	18.1	--	4.00B	3.00B	--	--	9.50B	61.6	--
barium	83.70B	80.10B	61.70B	64.90B	139.00B	82.80B	65.20B	147.00B	8.50B	--
calcium	109,000	153,000	74,200	77,000	94,600	116,000	87,800	81,300	30,000	34.60BJ
copper	--	--	--	--	--	--	--	4.40BJ	--	41.4
iron	1,020	20,800	4,620	5,010	3,960	104J	3,460	62.60BJ	64.60BJ	--
lead	--	--	--	--	4.60J	5.30J	--	4.10J	--	--
magnesium	26,900	24,100	17,600	18,300	17,000	25,200	20,100	48,500	257B	--
manganese	170	71.80	530	549	449	285	183	112	--	--
mercury	--	--	--	--	--	--	--	--	1.70NJ	--
potassium	20,600	4900B	9,080	9,510	9,020	2,560B	1,830B	2,500	25,900	--
sodium	12,700	14,300	29,200	30,500	24,200	9,730	25,100	43,500	36,600	--
zinc	22.20J	31.60J	16.80BJ	24.50J	--	35.20J	23.00J	46.9	16.20BJ	6.00BJ
cyanide	--	--	--	--	--	--	--	26.7	--	--

Notes:

-- not detected
J indicates an estimated value
B,P indicates value may be quantitative or semi-quantitative

TABLE 1.6

SUMMARY OF ANALYTCAL RESULTS
TAT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*P1*	*P2*	*P3*	*P4*	*P5*	*P6*	*P7*	*P8*	*P9*	*P10*
Parameter: Total PCBs										
Depth										
1 foot	1.3	12.9	4.6	.96	19	0.55	154	2.8	ND	38
2 feet	29	24	5.1	19	2.4	13	ND	484	33	83
4 feet	1.4	10	ND	0.95	530	82	ND	120	220	31
8 feet	1.2	1.5	1.8	ND	180	ND	ND	ND	ND	6.4

Sample Number	*P11*	*P12*	*P13*	*P14*	*P15*	*P17*	*P18*	*P19*	*P20*	*Composite Trench #1*	*Composite Trench #2*
Parameter: Total PCBs											
Depth											
1 foot	130	1.7	110	145	86	93	100	138	37	–	–
2 feet	130	0.7	27	33	ND	17	34	20	ND	ND	12
4 feet	79	45	ND	50	–	210	2.2	11	11	–	–
8 feet	650	17	38	1.6	–	1.8	ND	ND	39	–	–

Notes:

* Analysis performed by Canton Analytical Laboritories, Ypsilanti, Michigan.
Concentrations in mg/kg or ppm.

ND Not detected at method detection limits (0.5 ppm) except Composite Trench #1: ND(1.0).

TABLE 1.6

SUMMARY OF ANALYTCAL RESULTS
TAT SOIL INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number / *Parameter*	*P2-1'*	*P2-2'*	*P2-4'*	*P2-6'*	*P2-8'*	*P5-1'*	*P5-2'*	*P5-4'*	*P5-8'*	*Composite Trench #1*	*Composite Trench #2*
Volatile Organics											
Benzene	ND	ND	0.13	ND	0.04	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	1.9	ND	0.86	ND	ND	ND	0.09	ND	ND
Ethylbenzene	ND	ND	0.21	ND	0.77	ND	ND	ND	0.05	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	0.35	1.89	ND	ND	ND	ND	2.1	1.9	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	124
Semi-Volatile Organics											
Napthalene	ND	0.89	2.6	ND	1.7	ND	ND	1.89	2.29	ND	ND
Fluorene	ND	2.44	4.97	ND	0.55	ND	ND	5.11	ND	ND	ND
Phenanthrene	ND	1.73	20.8	ND	4.87	ND	ND	20.08	ND	ND	ND
Pyrene	ND	1.25	ND	0.69	0.60	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	1.73	ND	ND	0.48	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-Ethylhexyl)phthalate	ND	ND	ND	5.17	1.61	ND	0.08	ND	ND	1.84	ND
Chrysene	ND	ND	ND	0.51	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	0.60	ND	ND	3.38	ND	ND	ND
Benzo (b&k) Fluoranthene	ND	ND	ND	ND	ND	ND	ND	0.38	0.03	ND	ND
Benzo (a)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43	ND
EP TOX Metals											
Arsenic	ND	5.9	6.0	ND	ND	ND	ND	6.3	5.7	ND	ND

Notes:

- Analysis performed by Canton Analytical Laboritories, Ypsilanti, Michigan. Concentrations in mg/kg or ppm.

ND Not detected at method detection limits (0.5 ppm) except Composite Trench #1: ND(1.0).

TABLE 1.7

SAMPLE MATRICES AND DESCRIPTIONS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*Matrix*	*Description*
TR-1*	Drum	Waste oil. Black grease and metal fibers.
TR-2*	Drum	Waste oil. Black grease on top. Tan/orange oil 4 in. below surface.
TR-3*	Drum	Waste oil. Dark brown grease on top. Tan/orange 3 in. below surface.
TR-4	Cloth	Long sheet of white cloth discolored by filter cake.
TR-5	Cloth	Long sheet of white cloth discolored by filter cake.
TR-6	Wood	Approximately 2" x 3" x 6" block, discolored by black oil, taken from center of small pile away from oil-saturated area.
TR-7	Wood	Approximately 2" x 3" x 6" block, discolored by black oil, taken from center of small pile away from oil-saturated area.
TR-8	Filter cake	Fine grained, silvery, metallic.
TR-9	Filter cake	Dark brown, granular.
TR-10*	Filter cake	Black pasty sludge.
TR-11	Soil/Sediment	Tan/orange sandy soil. Adjacent to Ford fence where oil spill occurred, at 3-foot depth.
TR-12	Soil/Sediment	Gravel from lake shore where Ford spill flowed into lake, at 3-foot depth.
TR-13*	Soil	Black oily soil from center of oil-saturated area at 3-foot depth.
TR-14*	Buried Cinder	Black oily cinders and gravel taken from 50 yards south of Textile Road and 75 yards west of Ford fence, at 3-foot depth.

Note:

* Samples also underwent fingerprint analysis.

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*TR-1*	*TR-2*	*TR-3*	*TR-4*	*TR-4 MS*	*TR-4 MSD*
Sample Description	*Drum #10*	*Drum #17 City Services*	*Drum #19*	*Cloth*	*Cloth*	*Cloth*
Parameter						
Volatile Organics (µg/kg)						
Methylene Chloride			250 *			
Acetone				1,500	1,500	870
Carbon Disulfide						
1,1-Dichloroethane						
1,2-Dichloroethene (total)						
1,2-Dichloroethane						
2-Butanone						
Carbon Tetrachloride						
Benzene						
4-Methyl-2-Pentanone						
Tetrachloroethene						
1,1,2,2-Tetrachloroethane				1,300		
Toluene						
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylenes (total)						
Tentatively Identified Compounds (µg/kg)						
Alpha-Pinene (ACN)						
Beta-Pinene						
Methyl-Cyclopentane						
3-Methyl-Pentane						
Trichlorofluoromethane						
2-Propanol (ACN)						
Pentane (ACN) (DOT)						
Hexane (DOT)						
2,4-Dimethyl Pentane						
5,5-Dimethyl-2-Hexane						
Hexamethyl Cyclotrisiloxane						
PCBs (µg/kg)						
Ar-1248						
Ar-1254	13,000			49,000	51,000	44,000

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*TR-1*	*TR-2*	*TR-3*	*TR-4*	*TR-4 MS*	*TR-4 MSD*
Sample Description	*Drum #10*	*Drum #17 City Services*	*Drum #19*	*Cloth*	*Cloth*	*Cloth*
Parameter						
Inorganics (mg/kg)						
Aluminum	3,680	[6.2]	[5.5]	2,130		
Antimony	[7.8]			107		
Arsenic	25			10		
Barium	415			[13]		
Beryllium	[0.70]					
Cadmium	19	1.4		1.8		
Calcium	16,900	1,560	1,100	[143]		
Chromium	70	[1.8]	[1.7]	129		
Cobalt	[8.5]			12		
Copper	1,070	[1.4]		180		
Iron	29,400	41	32	20,400		
Lead	1,580	38	4.6	7.7		
Magnesium	4,060	[11]	[14]	[40]		
Manganese	347	[1.2]	[0.49]	753		
Mercury	0.17		0.1			
Nickel	48	[2.5]		55		
Potassium	1,930	[148]	[189]	[244]		
Selenium	3.8					
Silver	[1.7]		[0.62]			
Sodium	1,160	[661]	4,410	[145]		
Thallium						
Vanadium	20	[0.93]	[0.85]	20		
Zinc	1,260	[2.6]	[1.4]	7.1		
Cyanide (µg/kg)	1.22					

Notes:

MS	Matrix Spike
MSD	Matrix Spike Duplicate
*	compound present below detection limit
+	presence strongly suspected, not confirmed
no entry	non-detect
NL ( )	indicates not legible on document provided. ( ) indicates estimated value.

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number / *Sample Description*	*TR-5* *Cloth*	*TR-6* *Wood*	*TR-6 MS* *Wood*	*TR-6-MSD* *Wood*	*TR-7* *Wood*	*TR-7 MS* *Wood*
Parameter						
Volatile Organics (µg/kg)						
Methylene Chloride						
Acetone		3,000			240,000 *+	150,000 *+
Carbon Disulfide						
1,1-Dichloroethane						
1,2-Dichloroethene (total)						
1,2-Dichloroethane						
2-Butanone						
Carbon Tetrachloride						
Benzene						
4-Methyl-2-Pentanone						
Tetrachloroethene						
1,1,2,2-Tetrachloroethane						
Toluene						
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylenes (total)						
Tentatively Identified Compounds (µg/kg)						
Alpha-Pinene (ACN)					1,000,000 *	
Beta-Pinene		37,000 *			130,000 *	
Methyl-Cyclopentane						
3-Methyl-Pentane						
Trichlorofluoromethane						
2-Propanol (ACN)						
Pentane (ACN) (DOT)						
Hexane (DOT)						
2,4-Dimethyl Pentane						
5,5-Dimethyl-2-Hexane						
Hexamethyl Cyclotrisiloxane						
PCBs (µg/kg)						
Ar-1248					6,900	
Ar-1254	2,900	740	1,400	1,600		

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number / *Sample Description*	*TR-5* *Cloth*	*TR-6* *Wood*	*TR-6 MS* *Wood*	*TR-6-MSD* *Wood*	*TR-7* *Wood*	*TR-7 MS* *Wood*
Parameter						
Inorganics (mg/kg)						
Aluminum	2,010	97			125	
Antimony	92					
Arsenic	6.8					
Barium	[6.1]	[8.7]			[21]	
Beryllium						
Cadmium		1.3			1.3	
Calcium	[87]	1,670			1,300	
Chromium	1,050	19			[1.5]	
Cobalt	16					
Copper	8,450	8.3			7.1	
Iron	162,000	300			431	
Lead	10,000	84			5.6	
Magnesium	[37]	[291]			[242]	
Manganese	1,700	36			62	
Mercury	0.14					
Nickel	281					
Potassium					[189]	
Selenium						
Silver	[1.5]					
Sodium	[45]	[22]			[51]	
Thallium						
Vanadium	[4.3]					
Zinc	230	40			20	
Cyanide (µg/kg)	1.04					

Notes:

MS	Matrix Spike
MSD	Matrix Spike Duplicate
*	compound present below detection limit
+	presence strongly suspected, not confirmed
no entry	non-detect
NL ( )	indicates not legible on document provided. ( ) indicates estimated value.

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number / *Sample Description*	*TR-8* *Filter Cake*	*TR-8 MS* *Filter Cake*	*TR-8 Rt* *Filter Cake*	*TR-9* *Filter Cake*	*TR-9 Rt* *Filter Cake*	*TR-10* *Filter Cake Sludge*
Parameter						
Volatile Organics (µg/kg)						
Methylene Chloride	22					
Acetone				100	14	320
Carbon Disulfide						
1,1-Dichloroethane	4*					
1,2-Dichloroethene (total)						15*+
1,2-Dichloroethane						
2-Butanone						130
Carbon Tetrachloride	7		11	5*	2*	
Benzene				3*	2*	
4-Methyl-2-Pentanone						
Tetrachloroethene						
1,1,2,2-Tetrachloroethane						
Toluene	6		12	4*+	2*+	29
Chlorobenzene						
Ethylbenzene			9*			
Styrene						
Xylenes (total)	9		34*			46*
Tentatively Identified Compounds (µg/kg)						
Alpha-Pinene (ACN)						
Beta-Pinene						
Methyl-Cyclopentane	22*			39*		
3-Methyl-Pentane	130*			260*	160*	
Trichlorofluoromethane				17*	10*	
2-Propanol (ACN)						
Pentane (ACN) (DOT)						
Hexane (DOT)						
2,4-Dimethyl Pentane						
5,5-Dimethyl-2-Hexane						
Hexamethyl Cyclotrisiloxane						
PCBs (µg/kg)						
Ar-1248						
Ar-1254	14,000	16,000		210,000		2,500

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number *Sample Description*	*TR-8* *Filter Cake*	*TR-8 MS* *Filter Cake*	*TR-8 Rt* *Filter Cake*	*TR-9* *Filter Cake*	*TR-9 Rt* *Filter Cake*	*TR-10* *Filter Cake Sludge*
Parameter						
Inorganics (mg/kg)						
Aluminum	322,000			8,590		3,610
Antimony	NL (33)			277		103
Arsenic	NL (36)			39		47
Barium	NL (85)			105		8,320
Beryllium						
Cadmium	9.8			2.6		21
Calcium	[232]			[329]		[658]
Chromium	518			860		136
Cobalt	NL (62)			38		77
Copper	NL (3570)			339		3,620
Iron	198,000			4,880		93,000
Lead	168			15		4,890
Magnesium	[296]			[85]		[78]
Manganese	NL (2,330)			3,200		578
Mercury						1.1
Nickel	332			244		136
Potassium						[330]
Selenium						
Silver	3.1			[1.5]		49
Sodium	[97]			[419]		[108]
Thallium	[1.1]					
Vanadium	43			50		56
Zinc	1,620			45		246
Cyanide (µg/kg)						1.1

Notes:

MS	Matrix Spike
MSD	Matrix Spike Duplicate
*	compound present below detection limit
+	presence strongly suspected, not confirmed
no entry	non-detect
NL ( )	indicates not legible on document provided. ( ) indicates estimated value.

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number *Sample Description* *Parameter*	*TR-10 MS* *Filter Cake Sludge*	*TR-10 MSD* *Filter Cake Sludge*	*TR-11* *Soil/Sed Ford Fence*	*TR-12* *Soil/Sed Lake Shore*	*TR-12Rt* *Soil/Sed Lake Shore*	*TR-13* *Soil Oil Soaked*
Volatile Organics (µg/kg)						
Methylene Chloride		32				
Acetone	300	260		38 B		190
Carbon Disulfide		31				
1,1-Dichloroethane						
1,2-Dichloroethene (total)						
1,2-Dichloroethane						
2-Butanone	120	100				49
Carbon Tetrachloride						
Benzene						
4-Methyl-2-Pentanone						12*
Tetrachloroethene						
1,1,2,2-Tetrachloroethane						
Toluene						17 +
Chlorobenzene						
Ethylbenzene						
Styrene						
Xylenes (total)	50	40				7 +
Tentatively Identified Compounds (µg/kg)						
Alpha-Pinene (ACN)						
Beta-Pinene						
Methyl-Cyclopentane						
3-Methyl-Pentane						
Trichlorofluoromethane						
2-Propanol (ACN)						11 *
Pentane (ACN) (DOT)						11 *
Hexane (DOT)						11 *
2,4-Dimethyl Pentane						12 *
5,5-Dimethyl-2-Hexane						25 *
Hexamethyl Cyclotrisiloxane						24 *B
PCBs (µg/kg)						
Ar-1248						
Ar-1254						140,000

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number / *Sample Description* / *Parameter*	*TR-10 MS* *Filter Cake Sludge*	*TR-10 MSD* *Filter Cake Sludge*	*TR-11* *Soil/Sed* *Ford Fence*	*TR-12* *Soil/Sed* *Lake Shore*	*TR-12Rt* *Soil/Sed* *Lake Shore*	*TR-13* *Soil* *Oil Soaked*
Inorganics (mg/kg)						
Aluminum			4,540	2,230		18,000
Antimony			14			98
Arsenic			6.2	4.9		11
Barium			[13]	[5.5]		73
Beryllium			[0.26]			
Cadmium						1.6
Calcium			44,500	101,000		17,000
Chromium			13	4.9		776
Cobalt			[4.3]	[0.97]		19
Copper			NL (12)	6.8		1,760
Iron			32,000	5,890		200,000
Lead			4.9	3.4		339
Magnesium			17,600	22,600		3,830
Manganese			NL (653)	326		2,090
Mercury						
Nickel			13	[4.8]		174
Potassium			[606]	[348]		[373]
Selenium						
Silver						[1.3]
Sodium			[344]	[203]		[192]
Thallium						
Vanadium			22	[8.2]		24
Zinc			85	26		243
Cyanide (µg/kg)						

Notes:

MS	Matrix Spike
MSD	Matrix Spike Duplicate
*	compound present below detection limit
+	presence strongly suspected, not confirmed
no entry	non-detect
NL ( )	indicates not legible on document provided. ( ) indicates estimated value.

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*TR-13Rt*	*TR-14*	*TR-14 MS*	*TR-14 MSD*
Sample Description	*Soil*	*Soil*	*Soil*	*Soil*
	Oil Soaked	*Cinders*	*Cinders*	*Cinders*
Parameter				
Volatile Organics (µg/kg)				
Methylene Chloride	4 °+			
Acetone	600 E			
Carbon Disulfide				
1,1-Dichloroethane				
1,2-Dichloroethene (total)				
1,2-Dichloroethane				
2-Butanone				
Carbon Tetrachloride				
Benzene				
4-Methyl-2-Pentanone	20			
Tetrachloroethene				
1,1,2,2-Tetrachloroethane				
Toluene	15 +	320 °+		
Chlorobenzene	9 +			
Ethylbenzene	6°+			
Styrene				
Xylenes (total)	14 +	320 °		
Tentatively Identified Compounds (µg/kg)				
Alpha-Pinene (ACN)				
Beta-Pinene				
Methyl-Cyclopentane				
3-Methyl-Pentane				
Trichlorofluoromethane				
2-Propanol (ACN)				
Pentane (ACN) (DOT)				
Hexane (DOT)				
2,4-Dimethyl Pentane				
5,5-Dimethyl-2-Hexane		1100 °		
Hexamethyl Cyclotrisiloxane				
PCBs (µg/kg)				
Ar-1248				
Ar-1254		36,000	25,000	34,000

TABLE 1.8

SUMMARY OF ANALYTICAL RESULTS
VERSAR INVESTIGATION
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample Number	*TR-13Rt*	*TR-14*	*TR-14 MS*	*TR-14 MSD*
Sample Description	*Soil*	*Soil*	*Soil*	*Soil*
	Oil Soaked	*Cinders*	*Cinders*	*Cinders*
Parameter				
Inorganics (mg/kg)				
Aluminum		4,210		
Antimony		218		
Arsenic		24		
Barium		126		
Beryllium		[0.32]		
Cadmium		8.3		
Calcium		18,700		
Chromium		710		
Cobalt		33		
Copper		686		
Iron		40,400		
Lead		141		
Magnesium		NL (3.96)		
Manganese		2,710		
Mercury				
Nickel		NL (887)		
Potassium				
Selenium				
Silver				
Sodium		[522]		
Thallium				
Vanadium		42		
Zinc		20		
Cyanide (µg/kg)				

Notes:

MS	Matrix Spike
MSD	Matrix Spike Duplicate
*	compound present below detection limit
+	presence strongly suspected, not confirmed
no entry	non-detect
NL ( )	indicates not legible on document provided. ( ) indicates estimated value.

TABLE 4.1

GROUNDWATER ELEVATIONS
UPPER WATER TABLE ZONE/LOWER SANDS AQUIFER
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

			6/02/93		7/28/93		8/17/93		8/19/93
Location	*Ground Surface Elevation (ft. AMSL)*	*Top of Casing Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Water Elevation (ft. AMSL)*
MW-1U-93	709.11	710.45	6.21	704.24	10.74	699.71	11.23	699.22	
MW-2U-93	708.6	709.99	9.47	700.52	10.27	699.72	10.63	699.36	—
MW-3U-93	706.11	707.43	5.98	701.45	6.67	700.76	7	700.43	
MW-4U-93	708.58	710.04	9.3	700.74	9.83	700.21	10.56	699.48	
MW-5U-93	706.11	707.65	6.6	701.05	7.42	700.23	6.35	701.3	
MW-6U-93	705.09	706.49	5.1	701.39	5.86	700.63	6.19	700.3	—
MW1D-93	709.07	710.39	57.8	652.59	62.26	648.13	61.99	648.40	—
MW2D-93	708.73	710.05	59.55	650.5	62.26	647.79	62.21	648.18	—
MW3D-93	706.33	707.65	52.87	654.78	55.78	651.87	56.43	651.22	—
POND 1	—	—	—	—	—	—	—	—	700.4
POND 2	—	—	—	—	—	—	—	—	699.8
POND 3	—	—	—	—	—	—	—	—	700.3

TABLE 4.2

SUMMARY OF HYDRAULIC CONDUCTIVITY RESULTS
SINGLE WELL RESPONSE TESTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Test Well/Number	*Base of Screen (ft AMSL)*	*Falling Head Test Hydraulic Conductivity*		*Rising Head Test Hydraulic Conductivity*		*Geometric Mean Values*	
		(cm/sec)	*(ft/sec)*	*(cm/sec)*	*(ft/sec)*	*(cm/sec)*	*(ft/sec)*
Upper Water Table Zone							
MW2U-93/1	694.2	3.4 E-03	1.1 E-04	3.3 E-03	1.1 E-04		
MW2U-93/2	694.2	3.1 E-03	1.0 E-04	3.5 E-03	1.2 E-04		
			MW2U-93 Mean Value			**3.3 E-03**	**1.1 E-04**
MW3U-93/1	684.7	1.3 E-03	4.2 E-05	1.3 E-03	4.3 E-05		
MW3U-93/2	684.7	1.3 E-03	4.3 E-05	1.2 E-03	4.1 E-05		
			MW3U-93 Mean Value			**1.3 E-03**	**4.2 E-05**
Lower Sands Aquifer							
MW2D-93/1	638.6	2.6 E-03	8.4 E-05	2.5 E-03	8.1 E-05		
MW2D-93/2	638.6	2.4 E-03	8.0 E-05	2.4 E-03	8.0 E-05		
			MW2D-93 Mean Value			**2.5 E-03**	**8.1 E-05**
MW3D-93/1	639.2	6.3 E-03	2.1 E-04	7.4 E-03	2.4 E-04		
MW3D-93/2	639.2	6.7 E-03	2.2 E-04	7.3 E-03	2.4 E-04		
			MW3D-93 Mean Value			**6.9 E-03**	**2.3 E-04**

Notes:

The Bouwer-Rice method of hydraulic conductivity calculation in the AQTESOLV program was used to produce all results.
Analysis details are presented in Appendix F.
All data was collected using Telog dataloggers attached to pressure transducers.
ft AMSL - feet Above Mean Sea Level
ft/sec - feet/second
cm/sec - centimetres/second

TABLE 4.3

HAZEN HYDRAULIC CONDUCTIVITY RESULTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Soil Sample Location	*Sample Depth (ft BGS)*	*D10 (1) of Soil (mm)*	*Hydraulic Conductivity (2)*	
			cm/s	*ft/s*
Upper Sand/Fill Unit				
BH2A-93	8 - 10	0.1708	2.9 E-02	9.6 E-04
BH17A-93	2 - 4	0.0986	9.7 E-03	3.2 E-04
BH46A-93	2 - 4	0.0933	8.7 E-03	2.9 E-04
BH49A-93	2 - 4	0.162	2.6 E-02	8.6 E-04
		Geometric Mean:	**1.6 E-02**	**5.2 E-04**
		Observed Range:	**8.7 E-03 - 2.6 E-02**	**3.2 E-04 - 9.6 E-04**
Lower Sands Unit (3)				
BH2D-93	70 - 72	0.2526	6.4 E-02	2.1 E-03
BH46D-93	83 - 85	0.1323	1.8 E-02	5.7 E-04
		Observed Range:	**1.8 E-02 - 6.4 E-02**	**5.7 E-04 - 2.1 E-03**

Notes:

(1) D10 represents the grain size (diameter where ten percent by mass of the soil sample is more fine. Values obtained from grain size analysis data in Appendix B.
(2) Hydraulic conductivities are calculated using the Hazen equation, K = C(D10)^2 where C = coefficient, assumed equal to 1.0.
(3) No geometric mean was calculated due to insufficient data points.
ft BGS feet Below Ground Surface
mm millimetres
cm/s centimetres/second
ft/s feet/second

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Identification*	*Chemical Analysis*	*Sample Interval (ft BGS)*
BH-1-92	BH-1A-93	PCB	2-4
BH-1-92	BH-1B-93	PCB	6-8
BH-1-92	SS-1-93	PCB	0-1
BH-2-92	BH-2A-93	PCB	2-4
BH-2-92	BH-2B-93	TCL/TAL	6-8
BH-2-92	BH-2C-93	TCL/TAL	27.5-29.5
BH-2-92	BH-2D-93	TCL/TAL	70-72
BH-2-92	SS-2-93	PCB	0-1
BH-3-92	BH-3A-93	PCB	2-4
BH-3-92	BH-3B-93	PCB	6-8
BH-4-92	BH-4A-93	PCB	2-4
BH-4-92	BH-4B-93	PCB	6-8
BH-5-92	BH-5A-93	PCB	2-4
BH-5-92	BH-5B-93	PCB	6-8
BH-5-92	BH-60C-93	TCL/TAL	21-23.5
BH-5-92	BH-5D-93	TCL/TAL	68.5-70.5
BH-6-92	BH-6A-93	PCB	2-4
BH-6-92	BH-6B-93	TCL/TAL	6-8
BH-6-92	SS-3-93	PCB	0-1
BH-7-92	BH-7A-93	PCB	2-4
BH-7-92	BH-7B-93	PCB	6-8
BH-7-92	SS-4-93	PCB	
BH-8-92	BH-8A-93	PCB	2-4
BH-8-92	BH-8B-93	PCB	6-8
BH-9-92	BH-9A-93	PCB	2-4
BH-9-92	BH-9B-93	PCB	6-8
BH-10-92	BH-10A-93	PCB	2-4
BH-10-92	BH-10B-93	PCB	6-8
BH-11-92	BH-11A-93	TCL/TAL	2-4
BH-11-92	BH-11B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Identification*	*Chemical Analysis*	*Sample Interval (ft BGS)*
BH-12-92	BH-12A-93	PCB	2-4
BH-12-92	BH-12B-93	PCB	6-8
BH-13-92	BH-13A-93	PCB	2-4
BH-13-92	BH-13B-93	PCB	6-8
BH-14-92	BH-14A-93	PCB	2-4
BH-14-92	BH-14B-93	PCB	6-8
BH-14-92	SS-5-93	PCB	0-1
BH-15-92	BH-15A-93	PCB	2-4
BH-15-92	BH-15B-93	PCB	6-8
BH-16-92	BH-16A-93	PCB	2-4
BH-16-92	BH-16B-93	TCL/TAL	6-8
BH-17-92	BH-17A-93	PCB	2-4
BH-17-92	BH-17B-93	PCB	6-8
BH-17-92	SS-6-93	TCL/TAL	0-1
BH-18-92	BH-18A-93	PCB	2-4
BH-18-92	BH-18B-93	PCB	6-8
BH-19-92	BH-19A-93	PCB	2-4
BH-19-92	BH-19B-93	PCB	6-8
BH-20-92	BH-20A-93	PCB	2-4
BH-20-92	BH-20B-93	PCB	6-8
BH-21-92	BH-21A-93	TCL/TAL	2-4
BH-21-92	BH-21B-93	PCB	6-8
BH-22-92	BH-22A-93	PCB	2-4
BH-22-92	BH-22B-93	PCB	6-8
BH-23-92	BH-23A-93	PCB	2-4
BH-23-92	BH-23B-93	PCB	6-8
BH-24-92	BH-24A-93	PCB	2-4
BH-24-92	BH-24B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Identification*	*Chemical Analysis*	*Sample Interval (ft BGS)*
BH-25-92	BH-25A-93	PCB	2-4
BH-25-92	BH-25B-93	PCB	6-8
BH-26-92	BH-26A-93	PCB	2-4
BH-26-92	BH-26B-93	TCL/TAL	6-8
BH-27-92	BH-27A-93	PCB	2-4
BH-27-92	BH-27B-93	PCB	6-8
BH-28-92	BH-28A-93	PCB	2-4
BH-28-92	BH-28B-93	PCB	6-8
BH-29-92	BH-29A-93	PCB	2-4
BH-29-92	BH-29B-93	PCB	6-8
BH-30-92	BH-30A-93	PCB	2-4
BH-30-92	BH-30B-93	PCB	6-8
BH-31-92	BH-31A-93	TCL/TAL	2-4
BH-31-92	BH-31B-93	PCB	6-8
BH-32-92	BH-32A-93	PCB	2-4
BH-32-92	BH-32B-93	PCB	6-8
BH-33-92	BH-33A-93	PCB	2-4
BH-33-92	BH-33B-93	PCB	6-8
BH-34-92	BH-34A-93	PCB	2-4
BH-34-92	BH-34B-93	PCB	6-8
BH-35-92	BH-35A-93	PCB	2-4
BH-35-92	BH-35B-93	PCB	6-8
BH-35-92	SS-7-93	PCB	0-1
BH-36-92	BH-36A-93	PCB	2-4
BH-36-92	BH-36B-93	TCL/TAL	6-8
BH-36-92	SS-8-93	PCB	0-1
BH-37-92	BH-37A-93	PCB	2-4
BH-37-92	BH-37B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Identification*	*Chemical Analysis*	*Sample Interval (ft BGS)*
BH-38-92	BH-38A-93	PCB	2-4
BH-38-92	BH-38B-93	PCB	6-8
BH-39-92	BH-39A-93	PCB	2-4
BH-39-92	BH-39B-93	PCB	6-8
BH-40-92	BH-40A-93	PCB	2-4
BH-40-92	BH-40B-93	PCB	6-8
BH-41-92	BH-41A-93	TCL/TAL	2-4
BH-41-92	BH-41B-93	PCB	6-8
BH-42-92	BH-42A-93	PCB	2-4
BH-42-92	BH-42B-93	PCB	6-8
BH-42-92	SS-9-93	PCB	0-1
BH-43-92	BH-43A-93	PCB	2-4
BH-43-92	BH-43B-93	PCB	6-8
BH-44-92	BH-44A-93	PCB	2-4
BH-44-92	BH-44B-93	PCB	6-8
BH-44-92	SS-10-93	PCB	0-1
BH-45-92	BH-45A-93	PCB	2-4
BH-45-92	BH-45B-93	PCB	6-8
BH-46-92	BH-46A-93	PCB	2-4
BH-46-92	BH-46B-93	TCL/TAL	6-8
BH-46-92	BH-46C-93	TCL/TAL	24-40
BH-46-92	BH-46D-93	TCL/TAL	83.5-88.5
BH-47-92	BH-47A-93	PCB/TAL	2-4
BH-47-92	BH-47B-93	PCB/TAL	6-8
BH-48-92	BH-48A-93	PCB/TAL	2-4
BH-48-92	BH-48B-93	PCB/TAL	6-8
BH-49-92	BH-49A-93	PCB/TAL	2-4
BH-49-92	BH-49B-93	PCB/TAL	6-8
BH-50-92	BH-50A-93	PCB/TAL	2-4
BH-50-92	BH-50B-93	PCB/TAL	6-8

TABLE 5.2

RANGE OF SURFACE AND BOREHOLE SOILS DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	*# Occurrences/Analyses*	*Range (mg/kg)*
PCB/PEST (106/17)		
4, 4' DDE	1/17	0.053
4,4' DDT	1/17	0.023
Aroclor-1254	42/95	0.041 - 310
Aroclor-1260	10/95	0.044 - 24
VOC (17)		
Acetone	10/14	0.012 - 6.2
Benzene	1/14	0.003
Bromomethane	1/14	0.50JB
2-Butanone	4/14	0.004 - 0.041
Carbon Disulfide	3/14	0.001 - 0.27
Chlorobenzene	1/14	0.003
Ethylbenzene	3/14	0.002 - 0.46
Methylene chloride	6/14	0.001J - 0.21
4-Methyl-2-pentanone	1/14	0.003J
Toluene	2/14	0.026J - 0.46J
Xylenes (total)	4/14	0.001J - 0.20J
BNA (17)		
Acenaphthene	3/14	0.003J - 0.22J
Anthracene	1/14	0.024J - 0.027J
Benz(a)anthracene	6/14	0.036 - 3.0
Benz(b)fluoranthene	6/14	0.022J - 1.6J
Benz(g,h,i)perylene	3/14	0.038J - 0.11J
Benz(a)pyrene	3/14	0.055 - 0.65
Bis(2-ethylhexyl)phthatate	8/14	0.026J - 0.26J
Butyl benzyl phthalate	2/14	0.055J - 1.2
Chrysene	5/14	0.019J - 1.9J
Dibenz(a,H)anthracene	1/14	0.11J
Dibenzofuran	2/14	0.05J - 0.12J
Di-n-butyl phthalate	1/14	0.048J
Fluoranthene	4/14	0.02J - 3.3
Fluorene	5/14	0.044J - 1.8J
Hexachlorobenzene	2/14	0.024J - 0.85
Hexachlorobutadiene	1/14	0.190J

TABLE 5.2

RANGE OF SURFACE AND BOREHOLE SOILS DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	*# Occurrences/Analyses*	*Range (mg/kg)*
BNA (17) Cont'd		
Indeno(1,2,3-cd)pyrene	1/14	0.070
2-Methylnaphthalene	*7/14*	*0.012J - 2.1J*
Naphthalene	7/14	0.030 - 105J
N-Nitrosodiphenylamine	1/14	0.031J
Phenanthrene	12/14	0.018 - 38J
Pyrene	6/14	0.028 - 2.8
INORGANICS (25)		
Aluminum	16/16	601 - 41600
Antimony	1/16	14 - 24
Arsenic	16/16	3.6J - 65
Barium	10/16	46 - 498
Beryllium	3/16	1.3 - 2.9
Cadmium	3/16	1.3 - 2.9
Calcium	14/16	1370 - 169000
Chromium	14/16	2.3 - 1750
Cobalt	3/16	16 - 70
Copper	16/16	6.2 - 1800
Iron	16/16	3770 - 604000
Lead	16/16	7.7 - 290
Magnesium	13/16	1560 - 16700
Manganese	16/16	148 - 4170
Mercury	2/16	0.19 - 0.28
Nickel	11/16	10 - 443
Potassium	3/16	1260 - 1320
Selenium	1/16	1.9
Silver	1/16	2.6 - 4.8
Vanadium	10/16	12 - 105
Zinc	16/16	12 - 448
Total Cyanide	6/14	0.24 - 14

Note:

Samples from BH-46, 47, 48 and 49-93 are used as background and are not included in this table.

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	Michigan
Date Analyzed		5/21/93	5/25/93	5/21/93	5/21/93	5/21/93	5/21/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	*CAS Number*							
Acetone	67-64-1	0.017 B(0.012)u	0.22(0.023)	0.012 (0.011)	0.11(0.012)	ND(0.011)	2.2(0.12)	7,800
Benzene	71-43-2	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	13
Bromomethane	74-83-9	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	110
2-Butanone	78-93-3	ND(0.012)	ND(0.023)	ND(0.011)	0.007 J(0.012)	0.003 JB(0.011)u	0.038 J(0.12)	3,600
Carbon Disulfide	75-15-0	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	8,600
Chlorobenzene	108-90-7	0.003 J(0.012)j	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	1,500
Ethylbenzene	100-41-4	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	7,500
Methylene chloride	75-09-2	ND(0.012)	0.005 J(0.023)u	0.002 JB(0.011)u	0.004 JB(0.012)u	0.002 J(0.011)	ND(0.12)	51
4-Methyl-2-pentanone	108-10-1	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	3,900
Toluene	108-88-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	17,000
1,1,1-Trichloroethane	71-55-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	2,200
Xylenes (total)	1330-20-7	0.005 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	140,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-11A-93	BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	
Sample Location		BH-11-93	BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-21-93	
Sample Interval (BGS)		2'-4'	2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/17/93	5/18/93	Michigan
Date Analyzed		5/21/93	6/6/93	5/25/93	5/26/93	5/22/93	5/26/93	Type B
Units		(mg/kg)	(mg/l) Rinsate	(mg/kg)	(mg/kg) Duplicate	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	*CAS Number*							
Acetone	67-64-1	0.047 (0.011)	0.006 J(0.010)j	0.56(0.087)	6.2(2.1)	0.22(0.012)	ND(1.4)	7,800
Benzene	71-43-2	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	13
Bromomethane	74-83-9	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	110
2-Butanone	78-93-3	0.004 J(0.011)	0.003 JB(0.010)	ND(0.087)	ND(2.1)	0.005 JB(0.012)u	1.4 B(1.4)u	3,600
Carbon Disulfide	75-15-0	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	0.27 J(1.4)	8,600
Chlorobenzene	108-90-7	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	1,500
Ethylbenzene	100-41-4	ND(0.011)	ND(0.010)uj	ND(0.087)	0.46 J(2.1)	ND(0.012)	ND(1.4)	7,500
Methylene chloride	75-09-2	0.002 JB(0.011)u	0.004 JB(0.010)u	ND(0.087)	ND(2.1)	0.002 JB(0.012)	ND(1.4)	51
4-Methyl-2-pentanone	108-10-1	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	3,900
Toluene	108-88-3	ND(0.011)	ND(0.010)uj	0.026 J(0.087)	ND(2.1)uj	ND(0.012)	ND(1.4)	17,000
1,1,1-Trichloroethane	71-55-6	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	2,200
Xylenes (total)	1330-20-7	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	0.20 J(1.4)	140,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
Michigan Type B cleanup levels are from MERA Op[illegible]

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		**BH-71A-93**	**BH-26B-93**	**BH-31A-93**	**BH-36B-93**	**BH-55B-93**	**BH-36R-93**	
Sample Location		**BH-21-93**	**BH-26-93**	**BH-31-93**	**BH-36-93**	**BH-36-93**	**BH-36-93**	
Sample Interval (BGS)		**2'-4'**	**6'-8'**	**2'-4'**	**6'-8'**	**6'-8'**	**6'-8'**	
Date Sampled		**5/18/93**	**5/16/93**	**5/14/93**	**5/13/93**	**5/13/93**	**5/14/93**	**Michigan**
Date Analyzed		**5/26/93**	**5/21/93**	**5/21/93**	**5/20/93**	**5/20/93**	**6/6/93**	**Type B**
Units		**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/l)**	**(mg/kg)**
		Duplicate				**Duplicate**	**Rinsate**	
Parameter	***CAS Number***							
Acetone	67-64-1	**1.7(1.4)**	**0.072 (0.011)**	**0.85 B(0.055)**	**0.015(0.012)**	**0.031(0.012)**	**0.005 J(0.010)j**	7,800
Benzene	71-43-2	ND(1.4)	ND(0.011)	ND(0.055)	**0.003 J(0.012)**	**0.003 J(0.012)**	ND(0.010)uj	13
Bromomethane	74-83-9	**0.50 JB(1.4)**	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	110
2-Butanone	78-93-3	**0.23 J(1.4)u**	**0.002 JB(0.011)u**	**0.011 JB(0.055)u**	**0.041 (0.012)**	**0.004 J(0.012)**	**0.003 JB(0.010)u**	3,600
Carbon Disulfide	75-15-0	ND(1.4)	ND(0.011)	ND(0.055)	**0.001 J(0.012)**	ND(0.012)	ND(0.010)uj	8,600
Chlorobenzene	108-90-7	ND(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	1,500
Ethylbenzene	100-41-4	ND(1.4)	ND(0.011)	ND(0.055)	**0.002 J(0.012)**	**0.002 J(0.012)**	ND(0.010)uj	7,500
Methylene chloride	75-09-2	**0.21 J(1.4)**	**0.004 J(0.011)**	**0.016 J(0.055)**	**0.005 JB(0.012)u**	**0.005 JB(0.012)u**	**0.004 JB(0.010)u**	51
4-Methyl-2-pentanone	108-10-1	ND(1.4)	ND(0.011)	ND(0.055)	**0.003 J(0.012)**	ND(0.012)	ND(0.010)uj	3,900
Toluene	108-88-3	**0.46 J(1.4)**	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	17,000
1,1,1-Trichloroethane	71-55-6	ND(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	**0.001 J(0.010)j**	2,200
Xylenes (total)	1330-20-7	**0.20 J(1.4)**	**0.001 J(0.011)**	ND(0.055)	**0.004 J(0.012)**	**0.004 J(0.012)**	ND(0.010)uj	140,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
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SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-41A-93	BH-46B-93	BH-46C-93	BH-46D-93	DW-1-93	
Sample Location		BH-41-93	BH-46-93	BH-46-93	BH-46-93	WATER TRUCK	
Sample Interval (BGS)		2'-4'	6'-8'	24'-40'	83.5'-88.5'	-	
Date Sampled		5/12/93	5/12/93	5/15/93	5/15/93	5/18/93	Michigan
Date Analyzed		5/21/93	5/21/93	5/21/93	5/21/93	6/6/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)	(mg/kg)
Parameter	*CAS Number*						
Acetone	67-64-1	ND(0.011)	ND(0.011)	0.014 B(0.012)u	0.014 B(0.012)u	0.003 J(0.010)	7,800
Benzene	71-43-2	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)uj	13
Bromomethane	74-83-9	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	110
2-Butanone	78-93-3	0.003 JB(0.011)u	ND(0.011)	0.004 JB(0.012)u	0.002 JB(0.012)u	0.002 JB(0.010)	3,600
Carbon Disulfide	75-15-0	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	8,600
Chlorobenzene	108-90-7	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	1,500
Ethylbenzene	100-41-4	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	7,500
Methylene chloride	75-09-2	0.001 J(0.011)	0.001 J(0.011)	0.004 J(0.012)	0.005 J(0.012)	0.004 JB(0.010)	51
4-Methyl-2-pentanone	108-10-1	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	3,900
Toluene	108-88-3	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	17,000
1,1,1-Trichloroethane	71-55-6	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	2,200
Xylenes (total)	1330-20-7	ND(0.011)	ND(0.011)	ND(0.012)	0.001 J(0.012)	ND(0.010)	140,000

Notes:

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u Non-detect, with the associated value becoming the quantitation limit.
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E Estimated value.
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SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93	
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	Michigan
Date Analyzed		6/2/93	6/6/93	6/6/93	6/6/93	6/2/93	6/4/93	6/4/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.22 J(0.410)	ND(0.330)	45,000
Acenaphthylene	208-96-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	930
Anthracene	120-12-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	260,000
Benz(a)anthracene	56-55-3	3.0 J(12)	ND(0.780)	0.036 J(0.350)	ND(0.380)	ND(0.370)	0.55(0.410)	ND(0.330)	0.18
Benzo(b)fluoranthene	205-99-2	1.6 J(12)	ND(0.780)	0.022 J(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.022 J(0.330)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	930
Benzo(a)pyrene	50-32-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.41(0.410)	ND(0.330)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	ND(12)	0.14 J(0.780)	0.21 J(0.350)	ND(0.380)	0.26 J(0.370)	0.11 J(0.410)	0.035 J(0.330)	92
Butylbenzyl phthalate	85-68-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	41,000
Chrysene	218-01-9	1.9 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	0.18
Dibenzofuran	132-64-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.12 J(0.410)	ND(0.330)	NA
Di-n-butyl phthalate	84-74-2	ND(12)	0.061 JB(0.780)u	0.035 JB(0.350)u	0.030 JB (0.380)u	ND(0.370)	ND(0.410)	0.085 J(0.330)u	3,100
Fluoranthene	206-44-0	3.3 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	31,000
Fluorene	86-73-7	1.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.044 J(0.370)	0.27 J(0.410)	ND(0.330)	31,000
Hexachlorobenzene	118-74-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.024 J(0.360)	0.8
Hexachlorobutadiene	87-68-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.19 J(0.410)	ND(0.360)	17
Indeno(1,2,3-cd)pyrene	193-39-5	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	0.18
2-Methylnaphthalene	91-57-6	2.1 J(12)	0.078 J(0.780)	0.14 J(0.350)	ND(0.380)	ND(0.370)	0.060 J(0.410)	ND(0.360)	410
Naphthalene	91-20-3	1.2 J(12)	0.16 J(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.055 J(0.410)	ND(0.360)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.031 J(0.370)	ND(0.410)	ND(0.360)	78
Phenanthrene	85-01-8	8.1 J(12)	0.080 J(0.780)	0.10 J(0.350)	0.022 J(0.380)	0.018 J(0.370)	1.3(0.410)	ND(0.360)	930
Pyrene	129-00-0	2.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.9(0.410)	0.028 J(0.360)	19,000

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SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	BH-71A-93	BH-26B-93	
Sample Location		BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-21-93	BH-21-93	BH-26-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	6'-8'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/17/93	5/18/93	5/18/93	5/16/93	Michigan
Date Analyzed		6/4/93	6/4/93	6/4/93	6/6/93	6/6/93	6/6/93	6/2/93	Type B
Units		(mg/l)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		Rinsate		Duplicate			Duplicate		
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(0.010)	ND(0.570)	0.031 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	45,000
Acenaphthylene	208-96-8	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	930
Anthracene	120-12-7	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	260,000
Benz(a)anthracene	56-55-3	ND(0.010)	ND(0.570)	ND(0.570)	0.090 J(0.380)	ND(200)	ND(190)	ND(11)	0.18
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.570)	ND(0.570)	0.22 J(0.380)	ND(200)	ND(190)	ND(11)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.570)	ND(0.570)	0.080 J(0.380)	ND(200)	ND(190)	ND(11)	930
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.570)	ND(0.570)	0.10 J(0.380)	ND(200)	ND(190)	ND(11)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	0.002 JB(0.010)u	ND(0.570)	0.16 J(0.570)	0.050 J(0.380)	ND(200)	ND(190)	1.5 JB(11)u	92
Butylbenzyl phthalate	85-68-7	ND(0.010)	ND(0.570)	0.055 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	41,000
Chrysene	218-01-9	ND(0.010)	ND(0.570)	ND(0.570)	0.15 J(0.380)	ND(200)	ND(190)	ND(11)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	0.18
Dibenzofuran	132-64-9	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	NA
Di-n-butyl phthalate	84-74-2	0.001 JB(0.010)u	ND(0.570)	0.050 JB(0.570)u	0.048 J(0.380)	ND(200)	ND(190)	ND(11)	3,100
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.570)	0.070 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	4,700
Fluoranthene	206-44-0	ND(0.010)	ND(0.570)	ND(0.570)	0.17 J(0.380)	ND(200)	ND(190)	ND(11)	31,000
Fluorene	86-73-7	ND(0.010)	ND(0.570)	0.22 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	31,000
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	0.8
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	17
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.570)	ND(0.570)	0.070 J(0.380)	ND(200)	ND(190)	ND(11)	0.18
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.570)	0.012 J(0.570)	ND(0.380)	ND(470)	ND(470)	ND(11)	410
Naphthalene	91-20-3	ND(0.010)	0.20 J(0.570)	0.055 J(0.570)	ND(0.380)	28 J(470)	105 J(470)	ND(11)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	78
Phenanthrene	85-01-8	ND(0.050)	ND(0.570)	0.080 J(0.570)	0.065 J(0.380)	ND(200)	38 J(190)	ND(11)	930
Pyrene	129-00-0	ND(0.010)	ND(0.570)	ND(0.570)	0.23 J(0.380)	ND(200)	ND(190)	ND(11)	19,000

Notes:

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SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-31A-93	BH-36B-93	BH-55B-93	BH-36R-93	BH-41A-93	BH-46B-93	BH-46C-93	
Sample Location		BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93	BH-46-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8"	24'-40'	
Date Sampled		5/14/93	5/13/93	5/13/93	5/13/93	5/12/93	5/12/93	5/15/93	Michigan
Date Analyzed		6/2/93	6/2/93	6/2/93	6/11/93	6/2/93	6/2/93	6/2/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg) Duplicate	(mg/l) Rinsate	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(0.360)	ND(0.410)	0.090 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	45,000
Acenaphthylene	208-96-8	ND(0.360)	ND(0.410)	0.028 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	930
Anthracene	120-12-7	ND(0.360)	0.027 J(0.410)	0.024 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	260,000
Benz(a)anthracene	56-55-3	0.080 J(0.360)	0.12 J(0.410)	1.4(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Benzo(b)fluoranthene	205-99-2	0.048 J(0.360)	ND(0.410)	1.4(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(0.360)	0.038 J(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	930
Benzo(a)pyrene	50-32-8	ND(0.360)	0.055 J(0.410)	0.65(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	ND(0.360)	ND(0.410)	0.031 J(0.410)	ND(0.010)	0.026 J(0.360)	0.032 J(0.370)	0.035 J(0.380)	92
Butylbenzyl phthalate	85-68-7	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	41,000
Chrysene	218-01-9	0.055 J(0.360)	0.085 J(0.410)	0.80(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Dibenzofuran	132-64-9	ND(0.360)	ND(0.410)	0.050 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	NA
Di-n-butyl phthalate	84-74-2	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	3,100
Fluoranthene	206-44-0	0.12 J(0.360)	0.020 J(0.410)	1.8(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	31,000
Fluorene	86-73-7	ND(0.360)	ND(0.410)	0.085 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	31,000
Hexachlorobenzene	118-74-1	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.8
Hexachlorobutadiene	87-68-3	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	17
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
2-Methylnaphthalene	91-57-6	0.042 J(0.360)	0.047 J(0.410)	0.050 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	410
Naphthalene	91-20-3	0.032 J(0.360)	0.030 J(0.410)	0.042 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	78
Phenanthrene	85-01-8	0.037 J(0.360)	0.13 J(0.410)	1.1(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	0.020 J(0.380)	930
Pyrene	129-00-0	0.15 J(0.360)	0.19 J(0.410)	1.1(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	19,000

Notes:

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SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		**BH-46D-93**	
Sample Location		**BH-46-93**	
Sample Interval (BGS)		**83.5'-88.5'**	
Date Sampled		**5/15/93**	**Michigan**
Date Analyzed		**6/2/93**	**Type B**
Units		**(mg/kg)**	**(mg/kg)**
Base/Neutral Compounds	**CAS Number**		
Acenaphthene	83-32-9	NIX(0.390)	45,000
Acenaphthylene	208-96-8	NIX(0.390)	930
Anthracene	120-12-7	NIX(0.390)	260,000
Benz(a)anthracene	56-55-3	NIX(0.390)	0.18
Benzo(b)fluoranthene	205-99-2	NIX(0.390)	0.18
Benzo(g,h,i)perylene	191-24-2	NIX(0.390)	930
Benzo(a)pyrene	50-32-8	NIX(0.390)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	0.027 J(0.390)	92
Butylbenzyl phthalate	85-68-7	NIX(0.390)	41,000
Chrysene	218-01-9	0.019 J(0.390)	0.18
Dibenz(a,h)anthracene	53-70-3	NIX(0.390)	0.18
Dibenzofuran	132-64-9	NIX(0.390)	NA
Di-n-butyl phthalate	84-74-2	NIX(0.390)	3,100
Fluorene	86-73-7	NIX(0.390)	31,000
Hexachlorobenzene	118-74-1	NIX(0.390)	0.8
Hexachlorobutadiene	87-68-3	NIX(0.390)	17
Indeno(1,2,3-cd)pyrene	193-39-5	NIX(0.390)	0.18
2-Methylnaphthalene	91-57-6	NIX(0.390)	410
Naphthalene	91-20-3	NIX(0.390)	9,300
N-Nitrosodiphenylamine	86-30-6	NIX(0.390)	78
Phenanthrene	85-01-8	0.030 J(0.390)	930
Pyrene	129-00-0	NIX(0.390)	19,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-1A-93	BH-1B-93	SS-1-93	BH-2A-93	BH-2B-93	BH-2C-93	
Sample Location		BH-1-93	BH-1-93	BH-1-93	BH-2-93	BH-2-93	BH-2-93	
Sample Interval (BGS)		2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	27.5'-29.5'	
Date Sampled		5/17/93	5/17/93	5/18/93	5/11/93	5/11/93	5/17/93	Michigan
Date Analyzed		6/10/93	6/9/93	6/10/93	5/27/93	5/26/93	6/7/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(3300)	ND(670)	88(33)	30000(3300)	6500(200)	ND(38)uj	1,000
Aroclor-1260	11096-82-5	24000 (3300)	2500(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	1,000

Sample ID		BH-2D-93	SS-2-93	BH-3A-93	BH-3B-93	BH-4A-93	BH-4B-93	
Sample Location		BH-2-93	BH-2-93	BH-3-93	BH-3-93	BH-4-93	BH-4-93	
Sample Interval (BGS)		70'-72'	0'-1'	2'-4'	6-8'	2'-4'	6-8'	
Date Sampled		5/17/93	5/18/93	5/17/93	5/17/93	5/17/93	5/17/93	Michigan
Date Analyzed		6/7/93	6/8/93	6/9/93	6/9/93	6/9/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(35)uj	120(67)	ND(33)	ND(33)	ND(33)	12000(1700)	1,000
Aroclor-1260	11096-82-5	ND(35)uj	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-5A-93	BH-5B-93	BH-60C-93	BH-5D-93	BH-5R-93	BH-6A-93	
Sample Location		BH-5-93	BH-5-93	BH-5-93	BH-5-93	BH-5B-93	BH-6-93	
Sample Interval (BGS)		2'-4'	6-8'	21'-23.5'	6-8'	6-8'	2'-4'	
Date Sampled		5/13/93	5/13/93	5/17/93	5/16/93	5/13/93	5/17/93	Michigan
Date Analyzed		6/3/93	6/3/93	6/7/93	5/26/93	5/26/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	1,000

Sample ID		BH-6B-93	SS-3-93	BH-7A-93	BH-7B-93	SS-4-93	BH-8A-93	
Sample Location		BH-6-93	BH-6-93	BH-7-93	BH-7-93	BH-7-93	BH-8-93	
Sample Interval (BGS)		6-8'	0'-1'	2'-4'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/17/93	5/18/93	5/17/93	5/17/93	5/18/93	5/17/93	Michigan
Date Analyzed		6/7/93	6/8/93	6/10/93	6/9/93	6/8/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	45(41)j	ND(33)	270(33)	7300(1700)	41(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(41)uj	ND(33)	160(33)	ND(1700)	ND(33)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u *Non-detect, with the associated value becoming the quantitation limit.*
uj The parameter was analyzed for but was not detected.
The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- *Michigan Type B cleanup levels are from* MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-8B-93	BH-9A-93	BH-9B-93	BH-10A-93	BH-10B-93	BH-11A-93	
Sample Location		BH-8-93	BH-9-93	BH-9-93	BH-10-93	BH-10-93	BH-11-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/17/93	5/17/93	5/17/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/9/93	6/9/93	6/9/93	6/9/93	6/6/93	6/7/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	170(33)	870(170)	ND(33)	1300(170)	3500(2500)	ND(36)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(170)	ND(33)	ND(170)	ND(2500)	ND(36)	1,000

Sample ID		BH-11B-93	BH-11R-93	BH-12A-93	BH-12B-93	BH-13A-93	BH-13B-93	
Sample Location		BH-11-93	BH-11A-93	BH-12-93	BH-12-93	BH-13-93	BH-13-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6-8'	2'-4'	6-8'	
Date Sampled		5/18/93	5/18/93	5/17/93	5/17/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/6/93	6/7/93	6/9/93	6/7/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(1.0)	81(33)	1500(330)	33000(3300)	29000(3300)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)	ND(3300)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected.
The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-14A-93	BH-14B-93	SS-5-93	BH-15A-93	BH-15B-93	BH-16A-93	
Sample Location		BH-14-93	BH-14-93	BH-14-93	BH-15-93	BH-15-93	BH-14-93	
Sample Interval (BGS)		2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/10/93	6/8/93	6/8/93	6/8/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	920(330)	320(33)	190(67)	42(33)	40000(3300)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300))	1,000

Sample ID		BH-16B-93	BH-72B-93	BH-17A-93	BH-17B-93	SS-6-93*	BH-18A-93	
Sample Location		BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-17-93	BH-18-93	
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/14/93	5/14/93	5/18/93	5/16/93	Michigan
Date Analyzed		6/7/93	6/7/93	6/4/93	6/6/93	6/7/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	19000(2800)	3600(570)j	ND(33)	ND(33)	ND(38)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(2800))	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
* 4,4' DDE @ 53(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
4,4' DDT @ 23(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-18B-93	BH-19A-93	BH-19B-93	BH-20A-93	BH-20B-93	BH-70B-93	
Sample Location		BH-18-93	BH-19-93	BH-19-93	BH-20-93	BH-20-93	BH-20-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	6'-8'	
Date Sampled		5/16/93	5/17/93	5/17/93	5/18/93	5/18/93	5/18/93	
Date Analyzed		6/5/93	6/9/93	6/9/93	6/8/93	6/8/93	6/8/93	Michigan
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	Type B (µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(170)	ND(33)	730(170)	76,000(3300)	4200(670)	1000(330)	1,000
Aroclor-1260	11096-82-5	510(170)	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	1,000

Sample ID		BH-21A-93	BH-71A-93	BH-21B-93	BH-55B-93	BH-22A-93	BH-22B-93	
Sample Location		BH-21-93	BH-21-93	BH-21-93	BH-21-93	BH-22-93	BH-22-93	
Sample Interval (BGS)		2'-4'	2'-4'	6'-8'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/7/93	6/7/93	6/10/93	6/10/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	230,000(3900)	44,000(3800)	230,000(17000)	310,000(17000)	55,000(3300)	49,000(3300)	1,000
Aroclor-1260	11096-82-5	ND(3900)	ND(3800)	ND(17000)	ND(17000)	ND(3300)	ND(3300)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-56B-93	BH-23A-93	BH-23B-93	BH-57B-93	BH-24A-93	BH-58A-93	
Sample Location		BH-22-93	BH-23-93	BH-23-93	BH-23-93	BH-24-93	BH-24-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	6'-8'	2'-4'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/8/93	6/8/93	6/8/93	6/8/93	6/8/93	6/10/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
		Duplicate			Duplicate		Duplicate	
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	50,000(3300)	76,000(3300)	79,000(3300)	69,000(3300)	16,000(3300)	130,000(17000)	1,000
Aroclor-1260	11096-82-5	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(17000)	1,000

Sample ID		BH-24B-93	BH-25A-93	BH-25B-93	BH-26A-93	BH-26B-93	BH-27A-93	
Sample Location		BH-24-93	BH-25-93	BH-25-93	BH-26-93	BH-26-93	BH-27-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/18/93	5/16/93	5/16/93	5/16/93	5/16/93	5/16/93	Michigan
Date Analyzed		6/8/93	6/5/93	6/5/93	6/5/93	5/26/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	4300(170)	ND(33)	ND(33)	ND(33)	ND(37)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(170)	ND(33)	ND(33)	ND(33)	ND(37)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected.
The associated value is an estimate and may be
inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-27B-93	BH-28A-93	BH-28B-93	BH-29A-93	BH-29B-93	BH-30A-93	
Sample Location		BH-27-93	BH-28-93	BH-28-93	BH-29-93	BH-29-93	BH-30-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/16/93	5/16/93	5/16/93	5/14/93	5/14/93	5/14/93	Michigan
Date Analyzed		6/8/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	130(33)	6300(1700)	ND(33)	6500 E(1700)	1600 E(330)	1000(170)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(1700)	ND(33)	8000(1700)	2200(330)	ND(170)	1,000

Sample ID		BH-30B-93	BH-31A-93	BH-31B-93	BH-32A-93	BH-32B-93	BH-33A-93	
Sample Location		BH-30-93	BH-31-93	BH-31-93	BH-32-93	BH-32-93	BH-33-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	Michigan
Date Analyzed		6/5/93	5/26/93	6/5/93	6/6/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	6000(330)	ND(36)	470(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(330)	ND(36)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-33B-93	BH-34A-93	BH-34B-93	BH-34R-93	BH-35A-93	BH-35R-93	
Sample Location		BH-33-93	BH-34-93	BH-34-93	BH-34A-93	BH-35-93	BH-35A-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	2'-4'	2'-4'	2'-4'	
Date Sampled		5/14/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/5/93	6/3/93	6/3/93	5/26/93	6/3/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Rinsate	(µg/kg)	(µg/kg) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	1,000

Sample ID		BH-35B-93	SS-7-93	BH-36A-93	BH-36B-93	BH-55B-93*	BH-36R-93	
Sample Location		BH-35-93	BH-35-93	BH-36-93	BH-36-93	BH-36-93	BH-36B-93	
Sample Interval (BGS)		6'-8'	0'-1'	2'-4'	6'-8'	6'-8'	6'-8'	
Date Sampled		5/13/93	5/18/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/3/93	6/8/93	5/3/93	5/26/93	5/26/93	6/11/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/l) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	320(33)	ND(41)uj	ND(41)uj	ND(1.0)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
* 4,4' DDE @ 53(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
4,4' DDT @ 23(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-8-93	BH-37A-93	BH-37B-93	BH-37R-93	BH-38A-93	BH-38R-93	
Sample Location		BH-36-93	BH-37-93	BH-37-93	BH-37B-93	BH-38-93	BH-38A-93	
Sample Interval (BGS)		0'-1'	2'-4'	6'-8'	6'-8'	2'-4'	2'-4'	
Date Sampled		5/18/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/9/93	6/3/93	6/3/93	5/27/93	6/3/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/l) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(1.0)uj	44(33)	ND(1.0)	1,000

Sample ID		BH-38B-93	BH-39A-93	BH-51A-93	BH-39B-93	BH-40A-93	BH-40B-93	
Sample Location		BH-38-93	BH-39-93	BH-39-93	BH-39-93	BH-40-93	BH-40-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/13/93	5/12/93	5/11/93	5/12/93	5/12/93	5/12/93	Michigan
Date Analyzed		6/3/93	5/27/93	6/3/93	6/3/93	5/28/93	5/28/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	680(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	110(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be *inaccurate or imprecise.*
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-41A-93	BH-41B-93	BH-52B-93	SS-9-93	BH-42A-93	BH-53A-93	
Sample Location		BH-41-93	BH-41-93	BH-41-93	BH-42-93	BH-42-93	BH-42-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	
Date Sampled		5/12/93	5/12/93	5/12/93	5/18/93	5/12/93	5/12/93	Michigan
Date Analyzed		5/26/93	6/3/93	5/28/93	6/9/93	5/27/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(35)	ND(33)	ND(33)uj	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(35)	ND(33)	ND(33)uj	280(33)	ND(33)	ND(33)	1,000

Sample ID		BH-42B-93	BH-43A-93	BH-54A-93	BH-43B-93	BH-44A-93	BH-44B-93	
Sample Location		BH-42-93	BH-43-93	BH-43-93	BH-43-93	BH-44-93	BH-44-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/12/93	5/11/93	5/11/93	5/11/93	5/11/93	5/11/93	Michigan
Date Analyzed		5/27/93	5/28/93	5/28/93	5/27/93	5/28/93	5/28/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-10-93	BH-45A-93	BH-45B-93	BH-46A-93	BH-46B-93	BH-46C-93	
Sample Location		BH-44-93	BH-45-93	BH-45-93	BH-46-93	BH-46-93	BH-46-93	
Sample Interval (BGS)		0'-1'	2'-4'	6'-8'	2'-4'	6'-8'	24' - 40'	
Date Sampled		5/18/93	5/15/93	5/15/93	5/12/93	5/12/93	5/15/93	Michigan
Date Analyzed		6/11/93	6/5/93	6/5/93	5/27/93	5/26/93	5/26/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj	1,000

Sample ID		BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93	
Sample Location		BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93	
Sample Interval (BGS)		83.5' - 88.5'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/14/93	Michigan
Date Analyzed		5/26/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(39)uj	ND(33)uj	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(39)uj	ND(33)uj	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected.
The associated value is an estimate and may be
inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-56A-93	BH-49B-93	BH-50A-93	BH-50A-93	BH-50B-93	
Sample Location		BH-49-93	BH-49-93	BH-50-93	BH-50-93	BH-50-93	
Sample Interval (BGS)		2'-4'	6'-8'	2'-4'	2'-4'	6'-8'	
Date Sampled		5/14/93	5/14/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/5/93	6/5/93	6/10/93	6/10/93	6/10/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
		Duplicate			Duplicate		
Parameter	**CAS Number**						
Aroclor-1254	11097-69-1	ND(33)	ND(33)	49(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	*Analyte not detected.*
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.6

ESTIMATED VOLUME OF PCB CONTAMINATED FILL/SOIL
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Depth (ft. BGS)	*Volume (CY)*			
	1-10 ppm	*10-25 ppm*	*25-50 ppm*	*50+ ppm*
0 - 5' (1)	16,917	2,659	1,795	7,784
5 - 10' (2)	31,935	1,796	2,615	1,947
Total	48,852	4,455	4,410	9,731

Notes:

CY - represents cubic yards.
(1) It is assumed that soil at a depth of 0 - 5 feet bgs is represented by samples collected from 2 - 4 feet bgs.
(2) It is assumed that soil at a depth of 5 - 10 feet bgs is represented by samples collected from 6 - 8 feet bgs.

TABLE 5.7

BACKGROUND INORGANICS CONCENTRATIONS
FOR SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	*Range (1)*		*Mean (2)* (mg/kg)	*Michigan Type A (3)* (mg/kg)
	Minimum (mg/kg)	*Maximum* (mg/kg)		
Aluminum	1,600	8,290	10,552.47	6,900
Antimony	ND (13)	ND (14)	7.58	NA (4)
Arsenic	ND (2)	6.6	9.57	5.8
Barium	ND (40)	58	62.22	75
Beryllium	ND (1.1)	ND (1.2)	0.66	NA (4)
Cadmium	ND (1.1)	ND (1.2)	0.66	1.2
Calcium	7,200	118,000	168,299.7	NA (4)
Chromium	3.4	12	16.36	18
Cobalt	ND (10)	ND (10)	5	6.8
Copper	5.2	24	29.22	32
Iron	3,200	18,300	21,531	12,000
Lead	4.1	13	17.55	21
Magnesium	3,470	18,200	27,128	NA
Manganese	77	430	609.38	NA
Mercury	ND (0.1)	ND (0.12)	0.07	0.13
Nickel	ND (8)	23	26.86	20
Potassium	ND (1,000)	1,790	1,933	NA
Selenium	ND 1.1)	ND (2.2)	1.16	0.41
Silver	ND (2.2)	ND (2.4)	1.24	1.0
Sodium	ND (1,000)	ND (1,000)	500	NA
Thallium	ND (2)	ND (2)	1	NA
Vanadium	ND (10)	19	27.73	NA
Zinc	13	63	74.59	47
Cyanide	ND (.20)	ND (.23)	0.12	NA

Notes:

(1) Taken from samples from BH-46, 47, 48, 49.
(2) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993).
(3) MERA Operation Memorandum #15: Default Type A Cleanup Criteria (September 30,
(4) Not Available.
ND Analyte not detected.
( ) Quantitation limit.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93	
Sample Location	BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	
Sample Interval (BGS)	6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	
Date Sampled	5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	Michigan
Date Analyzed	5/24 - 6/10/93	6/3 - 6/14/93	6/2 - 6/14/93	6/3 - 6/14/93	5/26 - 6/15/93	6/4 - 6/14/93	6/3 - 6/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	42500(48)	7550(47)	601(43)	5620(46)	1840(45)	6200(50)	3240(44)	NA
Antimony	ND(15)r	ND(14)r	ND(13)r	ND(14)r	ND(14)r	ND(15)r	ND(13)r	91
Arsenic	15(2.0)j	8.9(2.0)j	5.8(2.0)j	7.5(2.0)j	6.2(2.0)j	16(2.0)j	5.6(2.0)j	BKGRD
Barium	235(40)	55(40)	ND(4.0)	59(40)	ND(40)	108(40)	ND(40)	91,000
Beryllium	1.7(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	NA
Cadmium	1.4(1.0)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	130
Calcium	64300(1000)j	74600(1000)	169000(1000)	76900(1000)	91000(1000)j	63100(1000)	28100(1000)	NA
Chromium	86(2.4)j	11(2.3)	ND(2.1)	9.4(2.3)	7.5(2.3)j	ND(2.5)	4.9(2.2)	4,400
Cobalt	ND(10)	32(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	495(5.0)j	38(5.0)	15(5.0)	18(5.0)	18(5.0)j	21(5.0)	8.3(5.0)	9,800
Iron	61900(20)	18500(20)	6420(20)	12600(20)	9050(20)	11100(20)	4860(20)	NA
Lead	166(9.7)j	13(1.2)j	8.2(0.6)j	13(1.2)Jj	7.7(0.6)	55(2.5)j	12(1.1)j	400
Magnesium	13000(1000)	16100(1000)	16700(1000)	12800(1000)	13000(1000)	13800(1000)	3670(1000)	NA
Manganese	1180(3.0)j	353(3.0)j	391(3.0)j	336(3.0)j	222(3.0)j	412(3.0)Jj	378(3.0)j	6,200
Mercury	0.19(0.1)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)	78
Nickel	68(8.0)	41(8.0)	ND(8.0)	14(8.0)	10(8.0)	12(8.0)	ND(8.0)	20,000
Potassium	ND(1000)	1320(1000)	ND(1000)	1260(1000)	ND(1000)	1270(1000)	ND(1000)	NA
Selenium	ND(1.2)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)uj	ND(1.2)	ND(1.1)	1,300
Silver	ND(2.4)	ND(2.3)	ND(2.1)	ND(2.3)	ND(2.3)	ND(2.5)	ND(2.2)	1,200
Vanadium	20(10)	13(10)	ND(10)	12(10)	ND(10)	17(10)	ND(10)	NA
Zinc	346(4.8)	64(4.7)	13(4.3)	37(4.6)	58(4.5)	61(5.0)	15(4.4)	86,000
Total Cyanide	1.3(.20)	ND(2.0)uj	ND(0.20)uj	ND(0.20)r	ND(0.20)uj	ND(0.20)uj	ND(0.20)uj	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	SS-6R-93	BH-21A-93	BH-71A-93	
Sample Location	BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-21-93	BH-21-93	
Sample Interval (BGS)	2'-4'	6'-8'	6'-8'	0'-1'	0'-1'	2'-4'	2'-4'	
Date Sampled	5/18/93	5/18/93	5/18/93	5/17/93	5/17/93	5/18/93	5/18/93	Michigan
Date Analyzed	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93	Type B
Units	(mg/L)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/Kg)	(mg/Kg)	(mg/kg)
	Rinsate		Duplicate		Rinsate		Duplicate	
Parameter								
Aluminum	ND(0.200)	9310(69)	3040(69)	4090(46)	ND(0.200)	27800(47)	27500(47)	NA
Antimony	ND(0.060)	ND(21)r	ND(21)r	ND(14)r	ND(0.060)	24(14)j	14(14)j	91
Arsenic	ND(0.010)	29(8.7)j	19(8.6)j	20(5.8)j	ND(0.010)	65(5.9)j	37(5.8)j	BKGRD
Barium	ND(0.200)	498(60)	410(60)	51(60)	ND(0.200)	66(60)	83(60)	91,000
Beryllium	ND(0.005)	2.9(1.7)	2.7(1.7)	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)	NA
Cadmium	ND(0.005)	1.3 J(1.7)	ND(1.7)	ND(1.2)	ND(0.005)	2.9(1.2)	2.5(1.2)	130
Calcium	ND(5.000)	2140(1000)	1370(1000)	8410(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Chromium	ND(0.010)	193(3.5)	32(3.5)	7.4(2.3)	ND(0.010)	1750(2.4)	1240(2.3)	4,400
Cobalt	ND(0.050)	16(10)	ND(10)	ND(10)	ND(0.050)	70(10)	61(10)	NA
Copper	ND(0.025)	671(6.9)	72(6.9)	17(6.9)	ND(0.025)	1800(5.0)	1570(5.0)	9,800
Iron	ND(0.100)	101000(20)	19500(20)	6900(20)	ND(0.100)	604000(47)	489000(47)	NA
Lead	ND(0.003)	31(1.7)j	16(1.7)j	139(12)j	ND(0.003)	74(4.7)j	64(4.7)j	400
Magnesium	ND(5.000)	ND(1000)	ND(1000)	2350(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Manganese	ND(0.015)	818(3.0)j	148(3.0)j	665(3.0)j	ND(0.015)	4170(12)j	3080(12)j	6,200
Mercury	ND(0.0002)	ND(0.17)	ND(0.17)	ND(0.12)	ND(0.0002)	ND(0.12)	ND(0.12)	78
Nickel	ND(0.040)	99(8.0)	19(8.0)	ND(8.0)	ND(0.040)	443(47)	288(47)	20,000
Potassium	ND(5.000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Selenium	ND(0.005)	1.9(1.7)	ND(1.7)	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)	1,300
Silver	ND(0.010)	ND(3.5)	ND(3.5)	ND(2.3)	ND(0.010)	4.8(2.4)	2.6(2.3)	1,200
Vanadium	ND(0.050)	26(10)	20(10)	ND(10)	ND(0.050)	105(10)	88(10)	NA
Zinc	ND(0.020)	82(6.9)	16(6.9)	46(4.6)	ND(0.020)	448(47)	412(47)	86,000
Total Cyanide	NA	0.55(0.20)j	ND(0.20)uj	0.24(0.20)j	NA	1.2(0.50)j	14(10)j	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-26B-93	BH-31A-93	BH-36B-93	BH-55B-93	BH-36R-93	BH-41A-93	BH46B-93	
Sample Location	BH-26-93	BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93	
Sample Interval (BGS)	6'-8'	2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8'	
Date Sampled	5/16/93	5/14/93	5/13/93	5/13/93	5/13/93	5/12/93	5/12/93	Michigan
Date Analyzed	5/26 - 6/10/93	5/26 - 6/17/93	5/26 - 6/17/93	5/19 - 6/10/93	5/24-6/16/93	5/24-6/16/93	5/24-6/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg) Rinsate	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	6600(46)	4690(44)	5910(50)	6720(50)	ND(0.200)	5110(43)	5020(45)	NA
Antimony	ND(14)r	ND(13)r	ND(15)r	ND(15)r	ND(0.060)	ND(15)	ND(14)r	91
Arsenic	4.1(2.0)j	4.2(2.0)j	9.9(2.0)j	5.0(2.0)j	ND(0.010)	3.6(2.0)j	6.1(2.0)j	BKGRD
Barium	108(40)	124(40)	254(40)	122(40)	ND(0.200)	ND(40)	ND(40)	91,000
Beryllium	ND(1.1)	ND(1.1)	1.3(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)	NA
Cadmium	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)	130
Calcium	19000(1000)j	38100(1000)j	14900(1000)j	38000(1000)j	ND(5.000)	13800(1000)j	19600(1000)j	NA
Chromium	13(2.3)j	13(2.2)j	14(2.5)j	21(2.5)j	ND(0.010)	11(2.2)j	8.3(2.3)j	4,400
Cobalt	ND(1.0)	ND(0.11)	ND(10)	ND(10)	ND(0.050)	ND(10)	ND(10)	NA
Copper	58(5.0)j	34(5.0)j	36(5.0)j	109(5.0)j	ND(0.025)	14(5.0)j	11(5.0)j	9,800
Iron	10500(20)	8250(20)	8970(20)	16300(20)	ND(0.100)	11200(20)	11400(20)	NA
Lead	8.8(1.4)	23(1.1)	14(5.0)	290(10)j	ND(0.003)	7.7(1.0)	13(1.1)	400
Magnesium	5360(1000)	6130(1000)	4790(1000)	9020(1000)	ND(5.000)	5500(1000)	3470(1000)	NA
Manganese	230(3.0)j	222(3.0)j	235(3.0)j	591(3.0)j	ND(0.015)	280(3.0)	347(3.0)j	6,200
Mercury	ND(0.11)	ND(0.11)	ND(0.12)	0.28(0.12)	ND(0.0002)	ND(0.1)	ND(0.1)	78
Nickel	12(8.0)	10(8.0)	15(8.0)	15(8.0)	ND(0.040)	11(8.0)	8.3(8.0)	20,000
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.1)uj	ND(1.1)uj	ND(1.2)uj	ND(1.2)uj	ND(0.005)	ND(1.1)j	ND(1.1)uj	1,300
Silver	ND(2.3)	ND(2.2)	ND(2.5)	ND(2.5)	ND(0.010)	ND(2.2)	ND(2.3)	1,200
Vanadium	23(10)	15(10)	22(10)	23(10)	ND(0.050)	17(10)	16(10)	NA
Zinc	58(4.6)	41(4.4)	57(5.0)	470(5.0)	ND(0.020)	30(4.3)	32(4.5)	86,000
Total Cyanide	0.27(0.20)j	ND(0.20)uj	ND(0.20)	0.27(0.20)	ND(0.010)	ND(0.20)	ND(0.20)	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-46C-93	BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93	
Sample Location	BH-46-93	BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93	
Sample Interval (BGS)	24'-39.5'	83.5'-88.5'	2'-4'	6'-8'	2'-4'	6' - 8'	2'-4'	
Date Sampled	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	Michigan
Date Analyzed	5/26-6/15/93	5/26-6/17/93	7/13-7/15/93	7/12 - 7/15/93	7/13 - 7/15/93	7/13 - 7/15/93	7/12 - 7/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	8290(47)	1740(48)	2100(44)	3100(46)	6000(46)	1900(46)	1600(44)	NA
Antimony	ND(14)r	ND(14)r	ND(13)uj	ND(14)uj	ND(14)uj	ND(14)uj	ND(13)uj	91
Arsenic	6.6(2.0)j	4.3(2.0)j	ND(2.0)uj	2.1(2.0)j	ND(2.0)uj	3.2(2.0)j	2.1(2.0)j	BKGRD
Barium	58(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	91,000
Beryllium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	NA
Cadmium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	130
Calcium	94200(1000)j	118000(1000)	13000(1000)	61000(1000)	7200(1000)	37000(1000)	75000(1000)	NA
Chromium	12(2.3)j	4.9(2.4)j	6.8(2.2)	9.2(2.3)	12(2.3)	6.2(2.3)	3.4(2.2)	4,400
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	24(5.0)j	15(5.0)j	12(5.0)	8.7(5.0)	ND(5.0)	5.2(5.0)	6.9(5.0)	9,800
Iron	18300(20)	7290(20)	5100(20)	6100(20)	7500(20)	3200(20)	4900(20)	NA
Lead	12(1.2)	8.5(1.4)	4.1(0.6)	8.9(1.2)j	4.8(0.6)j	5.4(0.6)j	3.0(0.6)j	400
Magnesium	18200(1000)	12000(1000)	15000(1000)	13000(1000)	3800(1000)	8200(1000)	10000(1000)	NA
Manganese	430(3.0)j	245(3.0)j	370(3.0)	170(3.0)	77(3.0)	87(3.0)	210(3.0)	6,200
Mercury	ND(0.12)	ND(0.12)	ND(0.11)uj	ND(0.12)uj	ND(0.12)uj	ND(0.12)uj	ND(0.11)uj	78
Nickel	23(8.0)	9.3(8.0)	ND(8.0)	ND(8.0)	9.2(8.0)	ND(8.0)	ND(8.0)	20,000
Potassium	1790(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.2)uj	ND(1.2)uj	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	1,300
Silver	ND(2.3)	ND(2.4)	ND(2.2)	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.2)	1,200
Vanadium	19(10)	ND(10)	ND(10)	ND(10)	14(10)	ND(10)	ND(10)	NA
Zinc	63(4.7)	39(4.8)	20(4.4)	20(4.6)	34(4.6)	32(4.6)	13(4.4)	86,000
Total Cyanide	ND(0.20)uj	ND(0.20)uj	ND(0.21)uj	ND(0.23)uj	ND(0.23)uj	ND(0.22)uj	ND(0.21)uj	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-56A-93	BH-49B-93	BH-50A-93	BH-59A-93	BH-50B-93	
Sample Location	BH-49-93	BH-49-93	BH-50-93	BH-50-93	BH-50-93	
Sample Interval (BGS)	2'-4'	6'-8'	2'-4'	2'-4'	6'-8'	
Date Sampled	5/15/93	5/15/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed	7/12 - 7/15/93	7/13 - 7/16/93	6/2 - 6/14/93	6/2 - 6/14/93	6/2 - 6/14/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
	Duplicate			Duplicate		
Parameter						
Aluminum	4700(44)	1800(45)	2350(45)	3250(46)	2620(46)	NA
Antimony	ND(13)uj	ND(13)uj	ND(13)r	ND(14)r	ND(14)r	91
Arsenic	3.2(2.0)j	ND(2.0)uj	15(2.0)j	15(2.0)j	19(5.8)j	BKGRD
Barium	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	91,000
Beryllium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	NA
Cadmium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	130
Calcium	35000(1000)	78000(1000)	ND(1000)	ND(1000)	7000(1000)	NA
Chromium	9.7(2.2)	4.3(2.2)	2.3(2.2)	4.5(2.3)	4.8(2.3)	4,400
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	11(5.0)	8.3(5.0)	8.6(5.0)	8.2(5.0)	6.2(5.0)	9,800
Iron	10000(20)	4500(20)	3770(20)	4750(20)	4660(20)	NA
Lead	4.9(1.2)j	6.1(0.6)j	69(2.2)j	80(4.6)j	68(4.6)j	400
Magnesium	8200(1000)	17000(1000)	ND(1000)	ND(1000)	1560(1000)	NA
Manganese	190(3.0)	160(3.0)	328(3.0)	488(3.0)	366(3.0)	6,200
Mercury	ND(0.11)uj	ND(0.11)uj	ND(0.11)	ND(0.12)	ND(0.12)	78
Nickel	11(8.0)	ND(8.0)	ND(8.0)	ND(8.0)	ND(8.0)	20,000
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.1)	ND(2.2)	ND(1.1)	ND(1.2)	ND(1.2)	1,300
Silver	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.3)	ND(2.3)	1,200
Vanadium	15(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Zinc	23(4.4)	16(4.5)	12(4.5)	28(4.6)	14(4.6)	86,000
Total Cyanide	ND(0.21)uj	ND(0.21)uj	NA	NA	NA	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.9

SUMMARY OF GROUNDWATER SAMPLES
ROUNDS 1 AND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Identification Round 1*	*Sample Identification Round 2*	*Chemical Analysis*
MW-1U-93	L-060993-JL-005	GW-081793-JM-104	TCL/TAL
MW-1D-93	L-060993-JL-004	GW-081793-JM-102	TCL/TAL
MW-2U-93	L-060993-JL-008	GW-081793-JM-106	TCL/TAL
MW-2D-93	L-060993-JL-007	GW-081793-JM-105	TCL/TAL
MW-3U-93	L-060993-JL-001	GW-081793-JM-108	TCL/TAL
MW-3D-93	L-060993-JL-003	GW-081793-JM-107	TCL/TAL
MW-4U-93	L-060993-JL-010	GW-081793-JM-109	TCL/TAL
MW-5U-93	L-060993-JL-011	GW-081793-JM-111	TCL/TAL
MW-6U-93	L-060993-JL-009	GW-081793-JM-110	TCL/TAL

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006	
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				Duplicate	
Parameter	CAS Number							
VOC								
Acetone	67-64-1	ND(0.010)	ND(0.010)	0.017(0.010)	0.014(0.010)	ND(0.010)	ND(0.010)	0.7
Benzene	71-43-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0012
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	ND(0.010)	ND(0.010)	0.001
Chlorobenzene	108-90-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.032(0.010)	0.032(0.010)	0.13
Chloroform	67-66-3	ND(0.010)	ND(0.010)	ND(0.010)	0.010(0.010)	ND(0.010)	ND(0.010)	0.0056
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.077
Methylene chloride	75-09-2	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	ND(0.010)	0.001 J (0.010)	0.0046
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	ND(0.010)	ND(0.010)	1.5
Trichloroethene	79-01-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0022
Vinyl chloride	75-01-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001
BNA								
Base/Neutral Compounds								
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	1.2
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	7.0
Benz(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005
Bis(2-ethylhexyl)phthalate	117-81-7	0.007 J B (0.010) u	0.005 J B (0.010) u	0.099 B (0.010)	0.42 B (0.010)	ND(0.010)	0.004 J B (0.010) u	0.005
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.002 J (0.010)	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.003 J (0.050)	0.003 J (0.050)	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.002 J (0.010)	0.52
PCB								
Aroclor-1254	11097-69-1	ND(0.0010) uj	ND(0.0010)	ND(0.0010) uj	ND(0.0010) uj	0.0084(0.0010) j	0.0089(0.0010) j	0.0002

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006	
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				*Duplicate*	
Parameter	**CAS Number**							
Inorganics (Unfiltered)								
Aluminum		13(0.200)	NIX(0.200)	30(0.200)	1.4(0.200)	23(0.200)	21(0.200)	NA
Arsenic		NIX(0.010) u)	NIX(0.010) u)	0.014(0.010) j	NIX(0.010)u)	0.032(0.010) j	0.031(0.010) j	0.02/BKGRD)
Barium		1.8(0.200)	NIX(0.200)	2.0(0.200)	1.8(0.200)	2.1(0.200)	2.1(0.200)	2.4
Beryllium		NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NA
Calcium		230(5.000)	NIX(5.000)	200(5.000)	73(5.000)	770(5.000)	710(5.000)	NA
Chromium		0.07(0.010)	0.03(0.010)	0.19(0.010)	0.08(0.010)	0.09(0.010)	0.10(0.010)	0.12/BKGRD)
Copper		0.05(0.025)	NIX(0.025)	0.10(0.025)	0.03(0.025)	0.23(0.025)	0.23(0.025)	1.3/BKGRD)
Iron		31(0.100)	NIX(0.100)	48(0.100)	3.4(0.100)	73(0.100)	67(0.100)	NA
Lead		0.017(0.003)	NIX(0.003)	0.044(0.003)	0.005(0.003)	0.22(0.003)	0.21(0.003)	0.004/BKGRD)
Magnesium		54(5.000)	NIX(5.000)	37(5.000)	17(5.000)	220(5.000)	200(5.000)	NA
Manganese		0.73(0.015)	NIX(0.015)	0.72(0.015)	0.077(0.015)	2.4(0.015)	2.2(0.015)	0.17/BKGRD)
Mercury		NIX(0.0002)	NIX(0.0002)	NIX(0.0002)	ND(0.0002)	0.0005(0.0002)	0.0006(0.0002)	0.0021/BKGRD)
Nickel		0.05(0.040)	NIX(0.040)	0.09(0.040)	NIX(0.040)	0.09(0.040)	0.09(0.040)	0.53/BKGRD)
Potassium		7.7(5.000)	NIX(5.000)	65(5.000)	36(5.000)	57(5.000)	58(5.000)	NA
Sodium		22(5.000)	NIX(5.000)	50(5.000)	27(5.000)	77(5.000)	77(5.000)	150
Vanadium		NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	0.07(0.050)	0.06(0.050)	NA
Zinc		1.1(0.020)	NIX(0.020)	1.2(0.020)	1.1(0.020)	1.3(0.020)	1.2(0.020)	2.3/BKGRD)
Inorganics (Filtered)								
Calcium	-	140(5.000)	NIX(5.000)	24(5.000)	49(5.000)	360(5.000)	360(5.000)	NA
Chromium	-	0.03(0.010)	0.03(0.010)	0.05(0.010)	0.12(0.010)	0.08(0.010)	0.04(0.010)	0.12/BKGRD)
Iron	-	2.8(0.100)	NIX(0.100)	NIX(0.100)	0.25(0.100)	10(0.100)	9.1(0.100)	NA
Lead	-	NIX(0.003)	NIX(0.003)	0.006(0.003)	NIX(0.003)	NIX(0.003)	NIX(0.003)	0.004/BKGRD)
Magnesium	-	27(5.000)	NIX(5.000)	NIX(5.000)	12(5.000)	130(5.000)	130(5.000)	NA
Manganese	-	0.19(0.015)	NIX(0.015)	NIX(0.015)	0.020(0.015)	0.82(0.015)	0.81(0.015)	0.17/BKRGD)
Potassium	-	2.6(5.000)	NIX(5.000)	45(5.000)	43(5.000)	50(5.000)	51(5.000)	NA
Sodium	-	13(5.000)	NIX(5.000)	38(5.000)	24(5.000)	69(5.000)	69(5.000)	150

Notes:
ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected.
The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011	
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	**CAS Number**						
VOC							
Acetone	67-64-1	**0.075(0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	**0.038(0.010)**	0.7
Benzene	71-43-2	ND(0.010)	**0.003 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	0.0012
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001
Chlorobenzene	108-90-7	ND(0.010)	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	ND(0.010)	0.13
Chloroform	67-66-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0056
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	**0.010(0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	0.077
Methylene chloride	75-09-2	**0.001 J (0.010)**	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	ND(0.010)	0.0046
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	1.5
Trichloroethene	79-01-6	ND(0.010)	**0.001 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	0.0022
Vinyl chloride	75-01-4	ND(0.010)	**0.009 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	0.001
BNA							
Base/Neutral Compounds							
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.002 J (0.010)**	1.2
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.002 J (0.010)**	7.0
Benz(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.002 J (0.010)**	0.005
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.005 j (0.010)**	0.005
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	0.005
Bis(2-ethylhexyl)phthalate	117-81-7	**0.18 B (0.010)**	ND(0.010)	**0.004 J B (0.010) u**	**0.003 J B (0.010) u**	**0.022 B (0.010)**	0.005
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.003 J (0.010)**	0.005
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.008 J (0.010)**	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.002 J (0.010)**	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.004 J (0.010)**	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	**0.009 J (0.050)**	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.005 J (0.010)**	0.52
PCB							
Aroclor-1254	11097-69-1	ND(0.0010)uj	ND(0.0010)uj	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.0002

Notes:

ND Analyte not detected.
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J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER -- ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011	
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	**CAS Number**						
Inorganics (Unfiltered)							
Aluminum		16(0.200)	31(0.200)	26(0.200)	9.9(0.200)	17(0.200)	NA
Arsenic		0.021(0.010) j	0.021(0.010) j	0.013(0.010) j	NI)(0.010) uj	0.010(0.010) j	0.02/BKGRD
Barium		0.37(0.200)	0.92(0.200)	NI)(0.200)	NI)(0.200)	0.23(0.200)	2.4
Beryllium		NI)(0.005)	0.007(0.005)	NI)(0.005)	NI)(0.005)	NI)(0.005)	NA
Calcium		310(5.000)	320(5.000)	210(5.000)	190(5.000)	290(5.000)	NA
Chromium		0.11(0.010)	0.04(0.010)	0.15(0.010)	0.04(0.010)	0.12(0.010)	0.12/BKGRD
Copper		0.11(0.025)	0.13(0.025)	0.12(0.025)	0.05(0.025)	0.08(0.025)	1.3/BKGRD
Iron		40(0.100)	66(0.100)	60(0.100)	22(0.100)	41(0.100)	NA
Lead		0.033(0.003)	0.062(0.003)	0.039(0.003)	0.042(0.003)	0.042(0.003)	0.004/BKGRD
Magnesium		55(5.000)	77(5.000)	62(5.000)	47(5.000)	85(5.000)	NA
Manganese		0.65(0.015)	2.0(0.015)	1.1(0.015)	1.3(0.015)	1.2(0.015)	0.17/BKGRD
Mercury		NI)(0.0002)	NI)(0.0002)	NI)(0.0002)	NI)(0.0002)	NI)(0.0002)	0.0021/BKGRD
Nickel		0.06(0.040)	0.08(0.040)	0.10(0.040)	NI)(0.040)	0.08(0.040)	0.53/BKGRD
Potassium		29(5.000)	14(5.000)	10(5.000)	9.1(5.000)	25(5.000)	NA
Sodium		42(5.000)	37(5.000)	31(5.000)	24(5.000)	66(5.000)	150
Vanadium		NI)(0.050)	0.10(0.050)	0.08(0.050)	NI)(0.050)	NI)(0.050)	NA
Zinc		0.52(0.020)	0.28(0.020)	0.28(0.020)	0.11(0.020)	0.17(0.020)	2.3/BKGRD
Inorganics (Filtered)							
Calcium		110(5.000)	130(5.000)	56(5.000)	120(5.000)	140(5.000)	NA
Chromium		0.03(0.010)	NI)(0.010)	NI)(0.010)	NI)(0.010)	NI)(0.010)	0.12/BKGRD
Iron		0.14(0.100)	6.5(0.100)	NI)(0.100)	0.28(0.100)	1.1(0.100)	NA
Lead		NI)(0.003)	NI)(0.003)	NI)(0.003)	NI)(0.003)	NI)(0.003)	0.004/BKGRD
Magnesium		29(5.000)	27(5.000)	18(5.000)	24(5.000)	41(5.000)	NA
Manganese		0.036(0.015)	0.68(0.015)	0.102(0.015)	0.80(0.015)	0.22(0.015)	0.17/BKGRD
Potassium		24(5.000)	9.7(5.000)	5.0(5.000)	7.8(5.000)	21(5.000)	NA
Sodium		40(5.000)	36(5.000)	32(5.000)	25(5.000)	68(5.000)	150

Notes:
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- ( ) Quantitation limit.
- J Analyte present at less than the quantitation limit.
- B Analyte present in method blank.
- R The associated data is unusable.
- j The associated value is an estimated quantity.
- u Non-detect, with the associated value becoming the quantitation limit.
- uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E Estimated value.
- - Michigan Type B cleanup levels are from MERA Operational Memorandum #

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		Rinsate		Duplicate				
Parameter	CAS Number							
VOC								
Acetone	67-64-1	**0.010(0.010)u**	**0.11(0.010)**	**0.13(0.010)**	**0.016(0.010)u**	**1.7 (0.20)**	**0.005 J(0.010)u**	0.7
Benzene	71-43-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	**0.002 J(0.010)**	0.0012
Carbon Disulfide	75-15-0	ND(0.010)	**0.001 J(0.010)**	**0.001 J(0.010)**	ND(0.010)	ND(0.20)	ND(0.010)	0.77
Chlorobenzene	108-90-7	**0.002 J(0.010)**	ND(0.010)	ND(0.010)	**0.044(0.010)**	ND(0.20)	ND(0.010)	0.13
Chloroform	67-66-3	ND(0.010)	**0.001 J(0.010)**	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)	0.0056
Trichloroethene	79-01-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	**0.001 J(0.010)**	0.0022
Vinyl chloride	75-01-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	**0.014(0.010)**	0.001
Xylenes (total)	1330-20-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	**0.005 J(0.010)**	13
BNA								
Base/Neutral Compounds								
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	7
Benz(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.005
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.005
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.005
Bis(2-ethylhexyl)phthalate	117-81-7	**0.003 J B (0.010)u**	**0.023 B (0.010)**	**0.031 B (0.010)**	**0.006 J B (0.010)u**	**0.24 B(0.020)**	**0.004 J B (0.010)u**	0.005
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.005
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	**0.002 J(0.010)**	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	0.52
PCB								
Aroclor-1254	11097-69-1	ND(0.001)	ND(0.001)	ND(0.001)	**0.012(0.001)**	ND(0.001)	ND(0.001)	0.0002

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location	-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Rinsate		Duplicate				
Parameter							
Inorganics (Unfiltered)							
Aluminum	NIX(0.200)	15.4(0.200)J	35.3(0.200)J	7.80(0.200)J	11.8(0.200)J	23.5(0.200)J	NA
Arsenic	NIX(0.010)	0.027(0.010)	0.067(0.050)	0.017(0.010)	NIX(0.010)	0.029(0.010)	0.0002/BKGRD
Barium	NIX(0.200)	0.281(0.200)	0.458(0.200)	0.225(0.200)	0.453(0.200)	0.598(0.200)	2.4/BKGRD
Beryllium	NIX(0.005)	NIX(0.005)	0.0050(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NA
Calcium	NIX(5.000)	395(5.000)	667(50.00)	550(50.00)	241(5.000)	255(5.00)	NA
Chromium	NIX(0.010)	0.046(0.010)	0.122(0.010)	0.029(0.010)	0.055(0.010)	0.041(0.010)	0.12/BKGRD
Cobalt	NIX(0.050)	NIX(0.050)	0.068(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NA
Copper	NIX(0.025)	0.104(0.025)	0.195(0.025)	0.106(0.025)	0.090(0.025)	0.087(0.025)	1.3/BKGRD
Iron	NIX(0.100)	55.4(0.100)	113(0.100)	45.8(0.100)	29.2(0.100)	51.5(0.100)	NA
Lead	NIX(0.003)	0.035(0.015)	0.069(0.015)	0.105(0.015)	0.023(0.003)	0.049(0.015)	0.004/BKGRD
Magnesium	NIX(5.000)	67.3(5.000)	104(5.000)	142(5.000)	37.7(5.000)	58.6(5.000)	NA
Manganese	NIX(0.015)	1.05(0.015)	2.04(0.015)	1.62(0.015)	0.450(0.015)	1.44(0.015)	0.170/BKGRD
Mercury	NIX(0.0002)	NIX(0.0002)	NIX(0.0002)	0.00031(0.0002)	NIX(0.0002)	NIX(0.0002)	0.0021/BKGRD
Nickel	NIX(0.040)	0.086(0.040)	0.183(0.040)	NIX(0.040)	0.042(0.040)	0.064(0.040)	0.53/BKGRD
Potassium	NIX(5.000)	7.53(5.000)	17.4(5.000)	50.6(5.000)	10.3(5.000)	13.7(5.000)	NA
Sodium	NIX(5.000)	10.4(5.000)	13.5(5.000)	56.7(5.000)	10.8(5.000)	33.7(5.000)	150
Vanadium	NIX(0.050)	NIX(0.050)	0.085(0.050)	NIX(0.050)	NIX(0.050)	0.060(0.050)	NA
Zinc	NIX(0.020)	0.197(0.020)	0.423(0.020)	0.172(0.020)	0.372(0.020)	0.179(0.020)	2.3/BKGRD
Inorganics (Filtered)							
Beryllium	NIX(0.005)	NIX(0.005)	NIX(0.005)	0.0053(0.005)	NIX(0.005)	NIX(0.005)	NA
Calcium	NIX(5.00)	94.4(5.00)	92.8(5.00)	340(5.00)	94.4(5.00)	129(5.00)	NA
Iron	NIX(0.100)	0.595(0.100)	0.407(0.100)	18.5(0.100)	1.67(0.100)	6.30(0.100)	NA
Magnesium	NIX(5.000)	19.9(5.000)	21.2(5.000)	104(5.000)	18.7(5.000)	27.6(5.000)	NA
Manganese	NIX(0.015)	0.077(0.015)	0.049(0.015)	0.726 (0.015)	0.081(0.015)	0.580(0.015)	0.170/BKGRD
Potassium	NIX(5.000)	16.0(5.000)	8.32(5.000)	45.5(5.000)	6.20(5.000)	9.81(5.000)	NA
Sodium	NIX(5.000)	14.4(5.000)	11.3(5.000)	52.3(5.000)	9.38(5.000)	30.5(5.000)	150
Zinc	0.038(0.020)	NIX(0.020)	0.023(0.020)	0.021(0.020)	NIX(0.020)	NIX(0.020)	2.3/BKGRD

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location		MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	CAS Number						
VOC							
Acetone	67-64-1	0.63(0.050)	0.014(0.010)	0.014(0.010)	0.007 J(0.010)	0.060(0.010)	0.7
Benzene	71-43-2	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0012
Carbon Disulfide	75-15-0	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.77
Chlorobenzene	108-90-7	ND(0.050)	ND(0.010)	0.002 J(0.010)	ND(0.010)	ND(0.010)	0.13
Chloroform	67-66-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0056
Trichloroethene	79-01-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0022
Vinyl chloride	75-01-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001
Xylenes (total)	1330-20-7	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	13
BNA							
Base/Neutral Compounds							
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	7
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.005
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.005
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.005
Bis(2-ethylhexyl)phthalate	117-81-7	0.083 B(0.010)	0.044 B(0.010)	0.006 J B (0.010)u	0.003 J B (0.010)u	0.004 J B (0.010)u	0.005
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.005
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.008 J (0.010)	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.007 J (0.010)	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.011 J (0.050)	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.006 J (0.010)	0.52
PCB							
Aroclor-1254	11097-69-1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.0002

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.
-	Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.1

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location	MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter						
Inorganics (Unfiltered)						
Aluminum	5.64(0.200)J	3.14(0.200)J	3.44(0.200)J	3.71(0.200)J	3.37(0.200)J	NA
Arsenic	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.011(0.010)	NIX(0.010)	0.00002/BKGRD
Barium	0.213(0.200)	NIX(0.200)	NIX(0.200)	NIX(0.200)	NIX(0.200)	2.4/BKGRD
Beryllium	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NA
Calcium	113(5.00)	263(5.000)	130(5.000)	92.4(5.000)	253(5.000)	NA
Chromium	0.044(0.010)	0.012(0.010)	0.012(0.010)	0.011(0.010)	0.016(0.010)	0.12/BKGRD
Cobalt	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NA
Copper	0.070(0.025)	0.030(0.025)	0.025(0.025)	0.031(0.025)	0.035(0.025)	1.3/BKGRD
Iron	20.0(0.100)	15.4(0.100)	9.04(0.100)	10.2(0.100)	13.6(0.100)	NA
Lead	0.016(0.003)	0.010(0.003)	0.018(0.003)	0.012(0.003)	0.020(0.003)	0.004/BKGRD
Magnesium	20.5(5.000)	60.0(5.000)	30.4(5.000)	27(5.000)	64.4(5.000)	NA
Manganese	0.281(0.015)	0.526(0.015)	0.803(0.015)	0.313(0.015)	0.635(0.015)	0.170/BKGRD
Mercury	NIX(0.0002)	NIX(0.0002)	NIX(0.0002)	NIX(0.0002)	NIX(0.0002)	0.0021/BKGRD
Nickel	0.045(0.040)	NIX(0.040)	NIX(0.040)	NIX(0.040)	NIX(0.040)	0.53/BKGRD
Potassium	22.9(5.000)	NIX(5.000)	6.19(5.000)	6.18(5.000)	16.3(5.000)	NA
Sodium	26.6(5.000)	19.1(5.000)	25.3(5.000)	14.4(5.000)	72.1(5.000)	150
Vanadium	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NA
Zinc	0.127(0.020)	0.048(0.020)	0.040(0.020)	0.059(0.020)	0.0[illegible]5(0.020)	2.3/BKGRD
Inorganics (Filtered)						
Beryllium	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NIX(0.005)	NA
Calcium	56.7(5.00)	156(5.000)	68.4(5.00)	57.1(5.00)	146(5.000)	NA
Iron	0.279(0.100)	3.87(0.100)	0.434(0.100)	0.934(0.100)	2.48(0.100)	NA
Magnesium	14.3(5.000)	27.9(5.000)	14.8(5.000)	17(5.000)	34.5(5.000)	NA
Manganese	0.045(0.015)	0.136(0.015)	0.465(0.015)	0.129(0.015)	0.191(0.015)	0.170/BKGRD
Potassium	9.48(5.000)	NIX(5.000)	5.16(5.000)	5.16(5.000)	14.8(5.000)	NA
Sodium	22.0(5.000)	15.6(5.000)	23.4(5.000)	38.0(5.000)	68.3(5.000)	150
Zinc	NIX(0.020)	NIX(0.020)	NIX(0.020)	NIX(0.020)	NIX(0.020)	2.3/BKGRD

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).

TABLE 5.12

RANGE OF GROUNDWATER DETECTED ANALYTES - ROUND 1 AND ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses		Range (mg/L)
		Round 1	Round 2	
VOC (9)				
Acetone	67-64-1	4/6	8/6	0.014 - 1.7
Benzene	71-43-2	1/6	1/6	0.002 - 0.003
Bromodichloromethane	75-27-4	1/6	-	0.002
Carbon Disulfide	75-15-0	-	1/6	0.001
Chlorobenzene	108-90-7	2/6	2/6	0.002 - 0.044
Chloroform	67-66-3	1/6	1/6	0.001 - 0.010
1,2-Dichloroethene (total)	540-59-0	1/6	-	0.010
Methylene chloride	75-09-2	4/6	-	0.001
Toluene	108-88-3	1/6	-	0.001
Trichloroethene	79-01-6	1/6	1/6	0.001
Vinyl chloride	75-01-4	1/6	1/6	0.009 - 0.014
Xylenes (total)	1330-20-7	-	1/6	0.005
BNA (9)				
Base/Neutral Compounds				
Acenaphthene	83-32-9	1/6	-	0.002
Anthracene	120-12-7	2/6	1/6	0.001 - 0.002
Benz(a)anthracene	56-55-3	1/6	1/6	0.002 - 0.003
Benzo(b)flouranthene	205-99-2	-	1/6	0.003
Benzo(k)fluoranthene	207-08-9	1/6	-	0.005
Benzo(a)pyrene	50-32-8	1/6	1/6	0.001 - 0.002
Bis(2-ethylhexyl)phthalate	117-81-7	1/6	1/6	0.006JB - 0.42B
Chrysene	218-01-9	1/6	1/6	0.003J
Di-n-butyl phthalate	84-74-2	1/6	1/6	0.001J - 0.002J
Fluoranthene	206-44-0	2/6	1/6	0.002J - 0.008J
Fluorene	86-73-7	1/6	1/6	0.002J
Naphthalene	91-20-3	1/6	1/6	0.004J - 0.007J
Phenanthrene	85-01-8	2/6	1/6	0.003J - 0.011J
Pyrene	129-00-0	2/6	1/6	0.002J - 0.006J
PCB (9)				
Aroclor-1254	11097-69-1	1/6	1/6	0.0084 - 0.012

TABLE 5.12

RANGE OF GROUNDWATER DETECTED ANALYTES - ROUND 1 AND ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses		Range (mg/L)
		Round 1	Round 2	
Metals (Unfiltered) (9)				
Aluminum	-	3/6	6/6	1.4 - 35.3
Arsenic	-	4/6	3/6	0.010 - 0.067
Barium	-	5/6	4/6	0.213 - 2.1
Beryllium	-	1/6	1/6	0.005 - 0.007
Calcium	-	6/6	6/6	73 - 770
Chromium	-	6/6	6/6	0.011 - 0.19
Cobalt		-	1/6	0.068
Copper	-	6/6	6/6	0.03 - 0.23
Iron	-	6/6	6/6	3.4 - 113
Lead	-	6/6	6/6	0.005 - 0.22
Magnesium	-	6/6	6/6	17 — 220
Manganese	-	6/6	6/6	0.077 - 2.4
Mercury	-	1/6	1/6	0.00031 - 0.0006
Nickel	-	4/6	4/6	0.042 - 0.183
Potassium	-	6/6	6/6	6.19 - 60
Sodium	-	6/6	6/6	10.4 - 77
Vanadium	-	2/6	2/6	0.06 - 0.10
Zinc	-	6/6	6/6	0.04 - 1.3
Metals (Filtered) (9)				
Beryllium	-	-	1/6	0.0053
Calcium	-	6/6	6/6	49 - 360
Chromium	-	6/6	-	0.04 - 0.12
Iron	-	6/6	6/6	0.25 - 10
Lead	-	-	-	-
Magnesium	-	6/6	6/6	12 - 130
Manganese	-	6/6	6/6	0.020 - 0.82
Potassium	-	6/6	6/6	5.2 - 51
Sodium	-	6/6	6/6	94 - 69
Zinc	-	-	2/6	0.021 - 0.023

Note:

Samples from MW-3U, 3D and 6U are used as background and are not included in this table.

TABLE 5.13

BACKGROUND METAL CONCENTRATION FOR GROUNDWATER
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	Concentration (mg/L) Upper Water Table Zone (1)	Lower Sands Aquifer (2)
Metals (Unfiltered)		
Aluminum	43.544	69.50
Arsenic	0.021	0.029
Barium	3.075	4.90
Beryllium	0.0030	0.003
Calcium	421.62	341.90
Chromium	0.26	0.427
Cobalt	0.025	0.025
Copper	0.185	0.149
Iron	96.31	93.397
Lead	0.059	0.089
Magnesium	99.33	63.75
Manganese	1.672	1.43
Mercury	0.0001	0.0001
Nickel	0.161	0.163
Potassium	16.04	120.15
Sodium	48.37	87.94
Vanadium	0.121	0.025
Zinc	1.86	2.940
Metals (Filtered)		
Beryllium	0.0025	0.0025
Calcium	261.88	109.72
Chromium	0.049	10.123
Iron	7.123	0.65
Lead	0.002	0.013
Magnesium	37.79	33.43
Manganese	0.250	0.106
Potassium	8.20	102.60
Sodium	61.39	63.94
Zinc	0.01	0.01

Notes:

(1) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993). Sample locations: MW-3U-93, MU-6U-93 (Round 1 and Round 2).

(2) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993). Sample locations: MW-3D-93 (Round 1 and Round 2).

TABLE 5.14

SUMMARY OF POND SEDIMENT SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	Sample ID	Sample Interval (inches below sediment surface)	Chemical Analysis
SD-1-93	SD-061893-4770-01	0-6	TCL/TAL
	SD-061893-4770-02	6-24	TCL/TAL
SD-2-93	SD-061893-4770-04	0-6	PCB
	SD-061893-4770-05	6-24	PCB
SD-3-93	SD-061893-4770-07	0-6	PCB
	SD-061893-4770-08	6-24	PCB
SD-4-93	SD-061893-4770-10	0-6	PCB
	SD-061893-4770-11	6-24	PCB
SD-5-93	SD-061893-4770-12	0-6	PCB
SD-6-93	SD-061893-4770-14	0-6	PCB
	SD-061893-4770-15	6-24	PCB
SD-7-93	SD-061893-4770-16	0-6	TCL/TAL
	SD-061893-4770-17	6-24	TCL/TAL
SD-8-93	SD-061893-4770-18	0-6	PCB
	SD-061893-4770-19	6-24	PCB
SD-9-93	SD-061893-4770-20	0-6	TCL/TAL
	SD-061893-4770-21	6-24	TCL/TAL

SUMMARY OF DETECTED ANALYTES IN POND SEDIMENTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-61893-4770-02	SD-61893-4770-03	SD-62193-4770-16	SD-62193-4770-17	SD-62193-4770-20	SD-62193-4770-21
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	**CAS Number**			Duplicate				
VOC								
Acetone	67-64-1	0.38(0.026)	0.074(0.013)	0.074(0.012)	1.3(0.057)	0.12(0.011)	0.26(0.013)	0.14(0.011)
Methylene chlorid	75-09-2	0.016 J (0.026)	0.003 J (0.013)	0.006 J (0.012)	0.022 J B (0.057)	0.004 J (0.011)	0.004 J (0.013)	0.003 J (0.011)
Toluene	108-88-3	ND(0.026)	0.002 J (0.013)	0.002 J (0.012)	ND(0.057)	0.002 J (0.011)	0.002 J (0.013)	ND(0.011)
BNA								
Bis(2-ethylhexyl)pl	117-81-7	0.039 J B (0.330) u	0.058 J B (0.330) u	0.042 J B (0.330) u	0.093 J B (0.330) u	0.057 J B (0.330) u	0.096 J B (0.330) u	0.046 J B (0.330) u
Di-n-butyl phthala	84-74-2	ND(0.330)	0.049 J (0.330)	ND(0.330)	0.40(0.330)	0.22 J (0.330)	0.035 J (0.330)	ND(0.330)
Metals								
Aluminum	-	1100(53) j	1200(51) j	770(50) j	2300(46) j	1700(46) j	2200(51) j	1200(45)j
Arsenic	-	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.1(2.0)	5.4(2.0)	ND(2.0)
Calcium	-	36000(1000)	46000(1000)	44000(1000)	64000(1000)	65000(1000)	64000(1000)	108000(1000)
Chromium	-	ND(2.7) uj	3.8(2.5) j	3.7(2.5) j	7.3(2.3) j	5.4(2.3) j	7.1(2.6) j	8.8(2.2) j
Copper	-	ND(5.0)	ND(5.0)	ND(5.0)	17(5.0)	8.1(5.0)	11(5.0)	9.6(5.0)
Iron	-	3200(20) j	3100(20) j	2100(20) j	6300(20) j	3700(20) j	6500(20) j	4100(20) j
Lead	-	4.3(0.6)	2.9(0.6)	1.9(0.6)	4.2(0.6)	4.5(0.6)	11(0.6)	4.0(0.6)
Magnesium	-	6900(1000)	9400(1000)	8200(1000)	10600(1000)	13000(1000)	9800(1000)	20000(1000)
Manganese	-	98(3.0) j	110(3.0) j	97(3.0) j	130(3.0) j	120(3.0) j	240(3.0) j	170(3.0)
Nickel	-	ND(8.0)	ND(8.0)	ND(8.0)	10(8.0)	ND(8.0)	ND (8.0)	ND (8.0)
Zinc	-	17(5.3)	16(5.1)	12(5.0)	29(4.6)	17(4.6)	26(5.1)	18(4.5)

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

TABLE 5.16

RANGE OF POND SEDIMENT DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses	Range (mg/kg)
VOC (6)			
Acetone	67-64-1	6/6	0.074 - 1.3
Methylene chloride	75-09-2	6/6	0.003 - 0.022
Toluene	108-88-3	3/6	0.002
BNA (6)			
Di-n-butyl phthalate	84-74-2	4/6	0.035 - 0.40
Metals (6)			
Aluminum	-	6/6	770 - 2300
Arsenic	-	2/6	2.1 - 5.4
Calcium	-	6/6	36000 - 108000
Chromium	-	5/6	3.7 - 8.8
Copper	-	4/6	8.1 - 17
Iron	-	6/6	2100 - 6500
Lead	-	6/6	1.9 - 11
Magnesium	-	6/6	6900 - 20000
Manganese	-	6/6	98 - 240
Nickel	-	1/6	10
Zinc	-	6/6	12 - 29

TABLE 5.17

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - UPPER SAND
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration (µg/kg)*	*Michigan Type B (µg/kg)(1)*	*Michigan Type C (µg/kg)*
1.	**VOC Analytes**				
	None				
2.	**SVOCs**				
	Benz(a)anthracene	BH-2-93 (6'-8')	3,000 J	330(2)	2,100
		BH-6-93 (6'-8')	550	330(2)	2,100
		BH-36-93 (6'-8') Dup.	1,400	330(2)	2,100
	Benzo(b)fluoranthene	BH-2-93 (6'-8')	1,600 J	330(2)	2,100
		BH-6-93 (6'-8')	850	330(2)	2,100
		BH-17-93 (0'-1')	220 J	330(2)	2,100
		BH-36-93 (6'-8')	1,400	330(2)	2,100
	Benzo(a)pyrene	BH-6-93 (6'-8')	410	330(2)	2,100
		BH-36-93 (6'-8')	650	330(2)	2,100
	Chrysene	BH-2-93 (6'-8')	1,900 J	330(2)	2,100
		BH-6-93 (6'-8')	1,200	330(2)	2,100
	Hexachlorobenzene	BH-6-93 (6'-8')	850	800	9,400
3.	**Pesticides/PCBs**				
	Aroclor-1254	BH-2-93 (2'-4')	30,000	1,000	7,500
		BH-2-93 (6'-8')	6,500	1,000	7,500
		BH-4-93 (6'-8')	12,000	1,000	7,500
		BH-7-93 (6'-8')	7,300	1,000	7,500
		BH-10-93 (2'-4')	1,300	1,000	7,500
		BH-10-93 (6'-8')	3,500	1,000	7,500
		BH-12-93 (6'-8')	1,500	1,000	7,500
		BH-13-93 (2'-4')	33,000	1,000	7,500
		BH-13-93 (6'-8')	29,000	1,000	7,500

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Michigan Type B/C Acceptable Method Detection Limit (utilized as Type B/C Cleanup Level if greater than Type B/C value).
J Analyte present at level less than the quantitation limit.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.17

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - UPPER SAND
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (µg/kg)*	*Michigan Type B (µg/kg)(1)*	*Michigan Type C (µg/kg)*
Pesticides/PCBs				
Aroclor-1254 (Cont'd.)	BH-14-93 (2'-4')	40,000	1,000	7,500
	BH-16-93 (6'-8')	19,000	1,000	7,500
	BH-16-93 (6'-8') Dup.	3,600 J	1,000	7,500
	BH-20-93 (2'-4')	76,000	1,000	7,500
	BH-20-93 (6'-8')	4,200	1,000	7,500
	BH-20-93 (6'-8') Dup.	1,000	1,000	7,500
	BH-21-93 (2'-4')	230,000	1,000	7,500
	BH-21-93 (2'-4') Dup.	44,000	1,000	7,500
	BH-21-93 (6'-8')	230,000	1,000	7,500
	BH-21-93 (6'-8') Dup.	310,000	1,000	7,500
	BH-22-93 (2'-4')	55,000	1,000	7,500
	BH-22-93 (6'-8')	49,000	1,000	7,500
	BH-22-93 (6'-8') Dup.	50,000	1,000	7,500
	BH-23-93 (2'-4')	76,000	1,000	7,500
	BH-23-93 (6'-8')	79,000	1,000	7,500
	BH-23-93 (6'-8') Dup.	69,000	1,000	7,500
	BH-24-93 (2'-4')	16,000	1,000	7,500
	BH-24-93 (2'-4') Dup.	130,000	1,000	7,500
	BH-24-93 (6'-8')	4,300	1,000	7,500
	BH-28-93 (2'-4')	6,300	1,000	7,500
	BH-29-93 (2'-4')	6,500 E(1,700)	1,000	7,500
	BH-29-93 (6'-8')	1,600 E(33)	1,000	7,500
	BH-30-93 (2'-4')	1,000	1,000	7,500
	BH-30-93 (6'-8')	6,000	1,000	7,500
Aroclor-1260	BH-1-93 (2'-4')	24,000	1,000	7,500
	BH-1-93 (6'-8')	2,500	1,000	7,500
	BH-29-93 (2'-4')	8,000	1,000	7,500
	BH-29-93 (6'-8')	2,200	1,000	7,500

4. **Inorganics**

None

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
( ) Quantitation limit.
J Analyte present at level less than the quantitation limit.
E Estimated value.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.18

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - CLAY
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (mg/kg)*	*Michigan Type B (µg/kg)*	*Michigan Type C (µg/kg)*
1. **VOC Analytes**				
None				
2. **SVOCs**				
None				
3. **Pesticides/PCBs**				
None				
4. **Inorganics**				
None				

Notes:

- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.19

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - LOWER SANDS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (mg/kg)*	*Michigan Type B (µg/kg)*	*Michigan Type C (µg/kg)*
1. **VOC Analytes**				
None				
2. **SVOCs**				
None				
3. **Pesticides/PCBs**				
None				
4. **Inorganics**				
None				

Notes:

- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.20

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - WATER TABLE ZONE
ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration (µg/L)*	*Michigan Type B (µg/L) (1)*	*Michigan Type C (µg/L)*	*Federal MCL (µg/L)*	*Background Concentration (µg/L)*
1.	**VOC Analytes**						
	Benzene	MW-2U-93	3.0 J	1.2	12	5	--
	Vinyl Chloride	MW-2U-93	9.0 J	1 (2)	1 (2)	2	--
2.	**SVOC Analytes**						
	Benzo(k)fluoranthene	MW-5U-93	5.0 J	5 (2)	5 (2)	--	--
3.	**Pesticides/PCBs**						
	Aroclor-1254	MW-1U-93	8.4 J	0.2 (2)	0.2 (2)	0.5	--
		MW-1U-93 (Dup.)	8.9 J	0.2 (2)	0.2 (2)	0.5	--
4.	**Inorganics (Filtered) (3)**						
	Manganese	MW-3U-93 (5)	190	170/BKGRD (4)	500	--	250
		MW-1U-93	820	170/BKGRD	500	--	250
		MW-1U-93 (Dup.)	810	170/BKGRD	500	--	250
		MW-2U-93	680	170/BKGRD	500	--	250
		MW-4U-93	800	170/BKGRD	500	--	250
		MW-5U-93	220	170/BKGRD	500	--	250

Notes:

(1) Michigan Type B health based cleanup level.
(2) Michigan Type B Acceptable Method Detection Limit (utilized as Type B Cleanup Level if greater than Type B value).
(3) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(4) BKGRD = Background
(5) MW-3U-93 is the background well (eg. upgradient of the Site)
J Analyte present at level less than the quantitation limit.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5-21

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - WATER TABLE ZONE
ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration (µg/L)*	*Michigan Type B (µg/L) (1)*	*Michigan Type C (µg/L)*	*Federal MCL (µg/L)*	*Background Concentration (µg/L)*
1.	**VOC Analytes**						
	Benzene	MW-2U-93	2.0 J	1.2	12	5	–
	Vinyl Chloride	MW-2U-93	14	1 (2)	1 (2)	2	–
2.	**SVOC Analytes**						
	None						
3.	**Pesticides/PCBs**						
	Aroclor-1254	MW-1U-93	12	0.2 (2)	0.2 (2)	0.5	–
4.	**Inorganics (Filtered) (3)**						
	Manganese	MW-1U-93	726	170/BKGRD (4)	500	-	250
		MW-2U-93	580	170/BKGRD	500	-	250
		MW-4U-93	465	170/BKGRD	500	-	250
		MW-5U-93	191	170/BKGRD	500	-	250

Notes:

(1) Michigan Type B health based cleanup level.
(2) Michigan Type B/C Acceptable Method Detection Limit (utilized as Type B/C Cleanup Level if greater than Type B value).
(3) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(4) BKGRD = Background
J Analyte present at level less than the quantitation limit.
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.22

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - LOWER SANDS AQUIFER
ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration* (µg/L)	*Michigan Type B* (µg/l) (1)	*Michigan Type C* (µg/L)	*Federal MCL* (µg/L)	*Background Concentration* (µg/L)
1. **VOC Analytes**						
Chloroform	MW-1D-93	10.0	5.6	57	–	–
2. **SVOC Analytes**						
None						
3. **Pesticides/PCBs**						
None						
4. **Inorganics (Filtered) (2)**						
Chromium	MW-1D-93	120	120/BKGRD (3)	350	100	123
Lead	MW-3D-93(4)	6	4/BKGRD	4	–	13

Notes:

(1) Michigan Type B health based cleanup levels.
(2) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(3) BKGRD = Background
(4) MW-3D-93 is the background well (eg. upgradient of the Site).
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.23

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - LOWER SANDS AQUIFER
ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration* (µg/L)	*Michigan Type B* (µg/L) (1)	*Michigan Type C* (µg/L)	*Federal MCL* (µg/L)	*Background Concentration* (µg/L)
1.	**VOC Analytes**						
	Acetone	MW-2D-93	1,700	700	2,100	--	--
2.	**SVOC Analytes**						
	None						
3.	**Pesticides/PCBs**						
	None						
4.	**Inorganics (Filtered) (2)**						
	None						

Notes:

(1) Michigan Type B health based cleanup level.
(2) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
- Michigan Type B cleanup levels are from MERA Operational Memorandum #8 (dated July 16, 1993).
- Michigan Type C cleanup levels are from MERA Operational Memorandum #14 (dated September 23, 1993).

TABLE 5.24

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SEDIMENTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

1. VOC Analytes

   None

2. SVOCs

   None

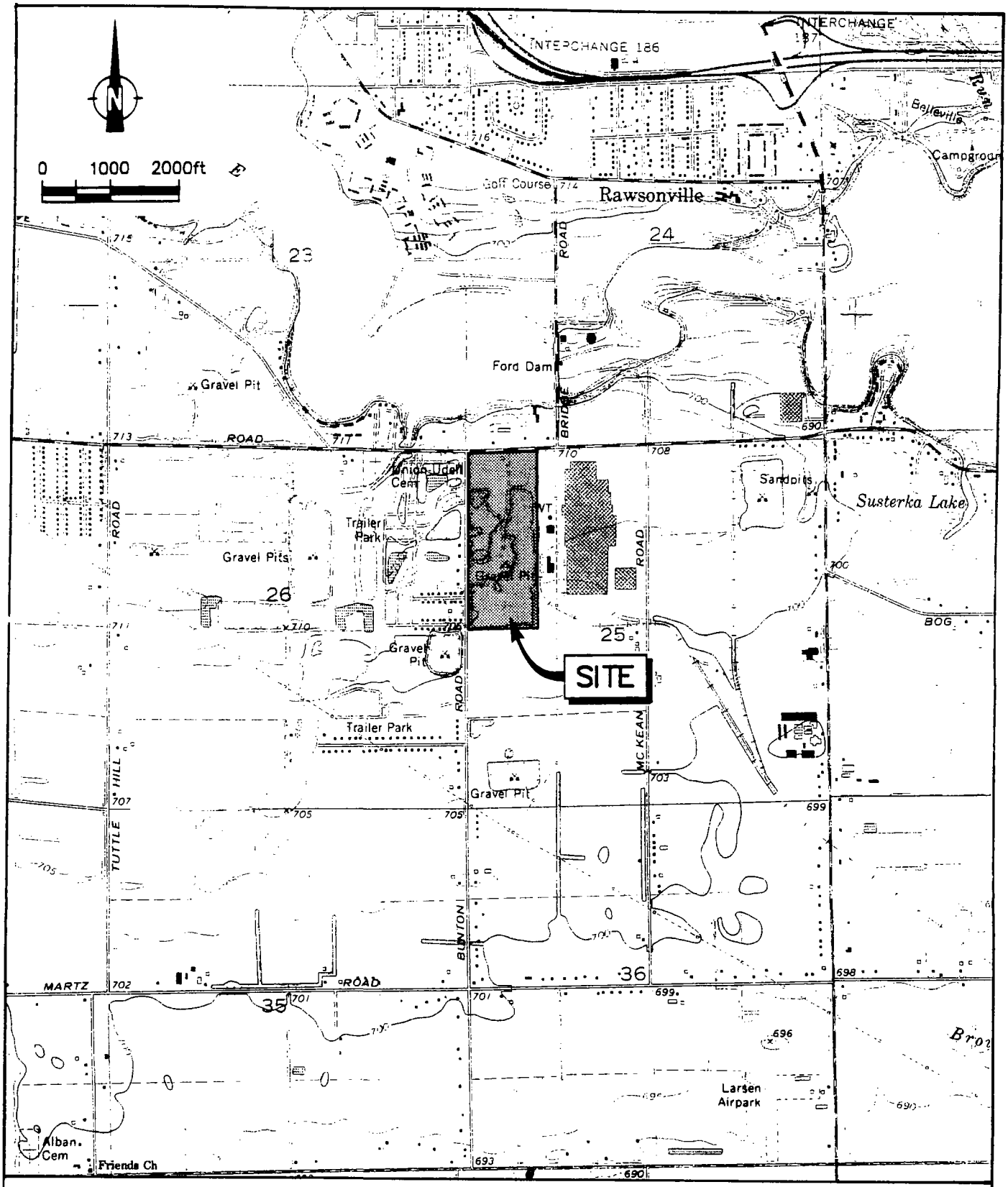
3. Pesticides/PCBs

   None

4. Inorganics

   None

FIGURES



SOURCE: USGS QUADRANGLE MAP,
YPSILANTI EAST, MICHIGAN

CRA MICHIGAN

figure 1.1

SITE LOCATION
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

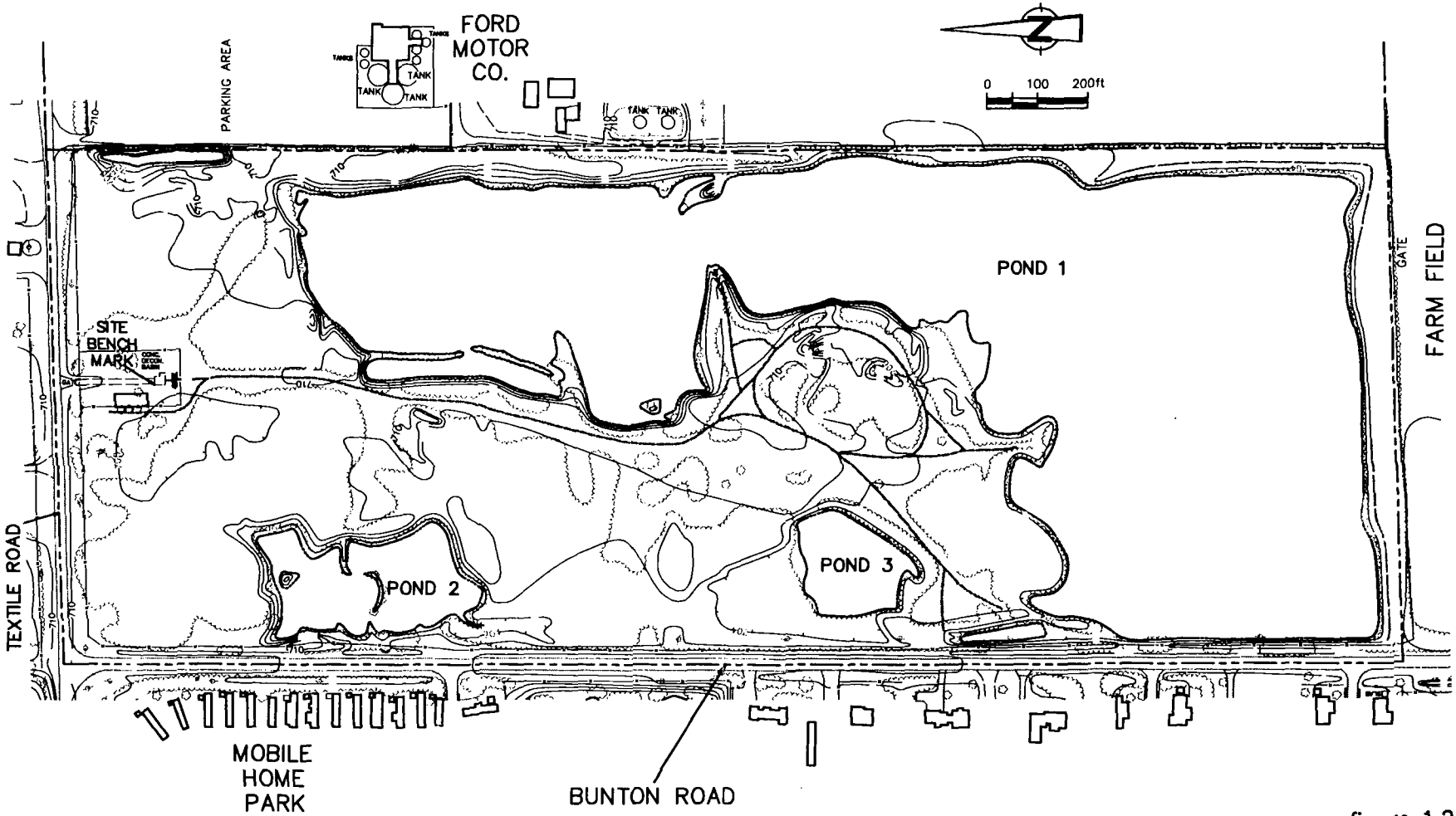
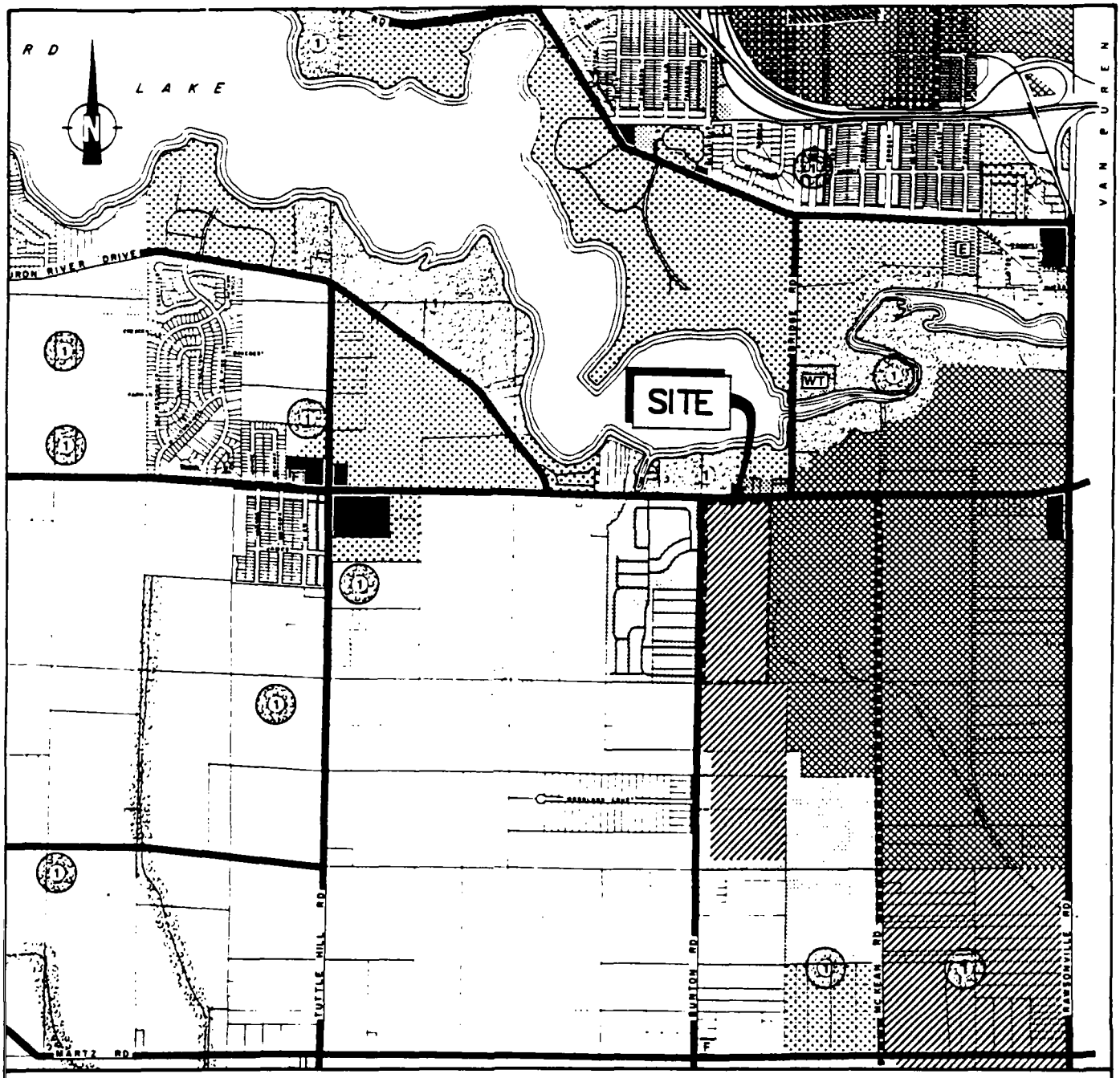


figure 1.2
SITE PLAN
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-50)



RESIDENTIAL
- Single - Family
- Multiple - Family
- Mobile Home

COMMERCIAL
- Comparison Commercial
- Convenience Commercial
- General Commercial
- Expressway Commercial
- Office
- Parking
- Greenbelt

INDUSTRIAL
- Research Office
- Light Industrial
- General Industrial
- Heavy Industrial

COMMUNITY FACILITIES

Public
- CCC Community Center Complex
- CC Civic Center Complex
- F Fire Station
- DPW Department of Public Works
- WT Water Treatment
- L Library
- P Police

Schools
- E Elementary School
- J Junior High School
- S Senior High School
- A Administrative Office

Parks
- 1 Township
- 2 County
- 3 Semi - Public
- Proposed

THOROFARES
- Expressway
- Major Thorofare
- Collector

0 1000 2000ft

REFERENCE: CHARTER TOWNSHIP OF YPSILANTI MICHIGAN PLANNING COMMISSION ADOPTED AUGUST 25, 1992.

CRA

figure 1.3

MASTER PLAN FOR FUTURE LAND USE YPSILANTI TWP. TEXTILE ROAD SITE

Washtenaw County, Michigan

4770 (11) OCT 20/93 (W) REV.0

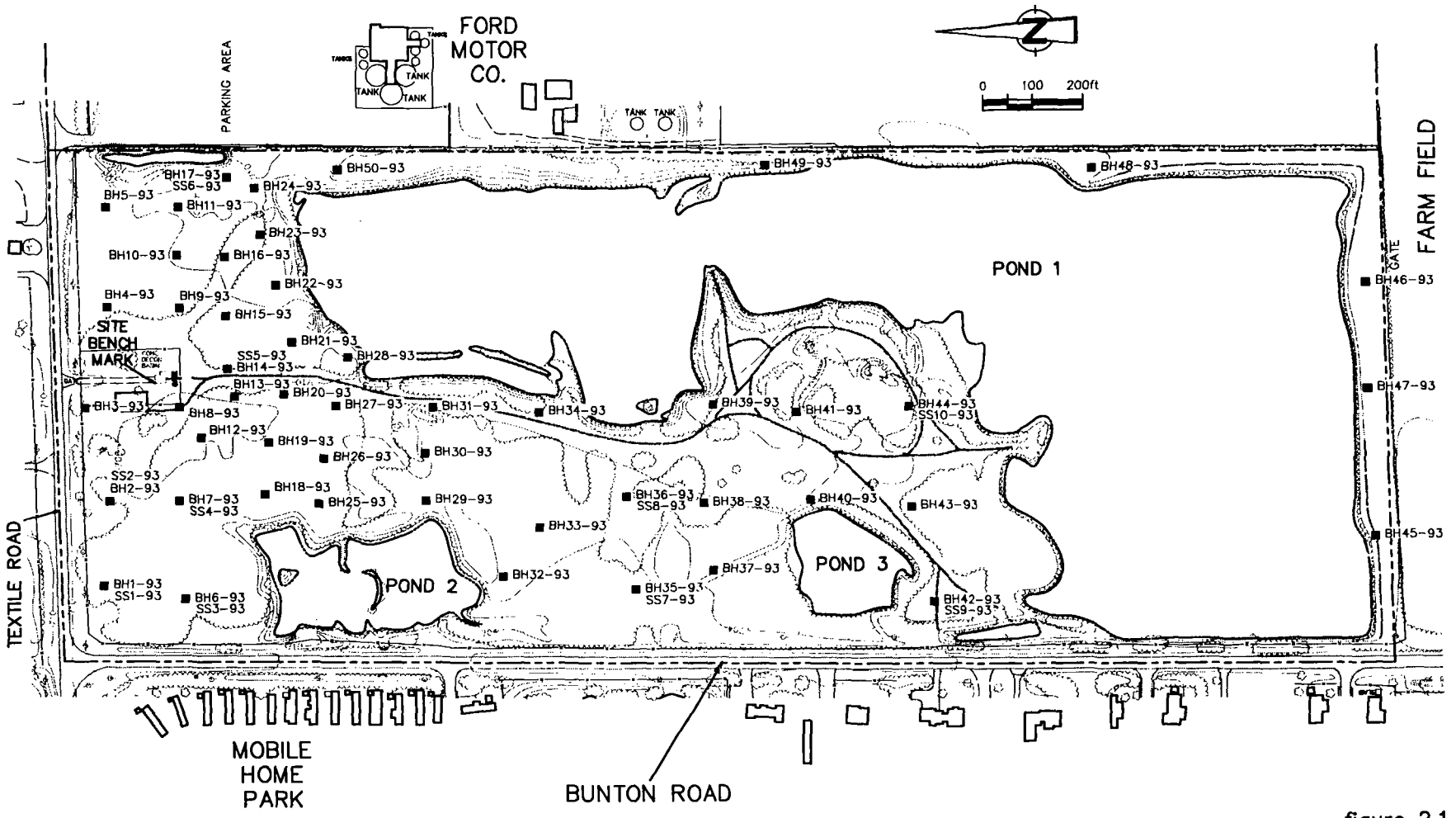


figure 2.1

SURFACE AND BOREHOLE SOIL SAMPLING LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-51)

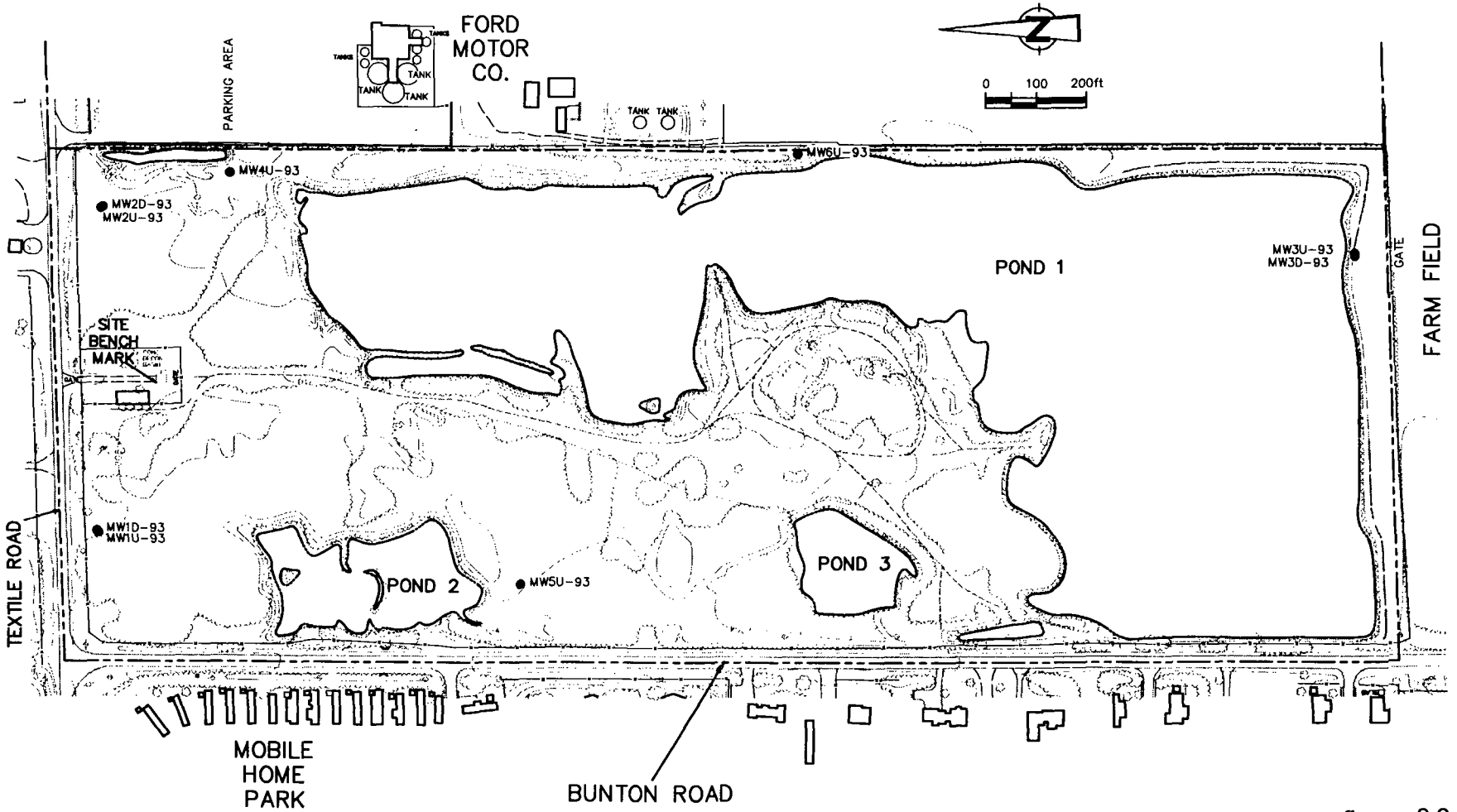


figure 2.2
MONITORING WELL LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-52)

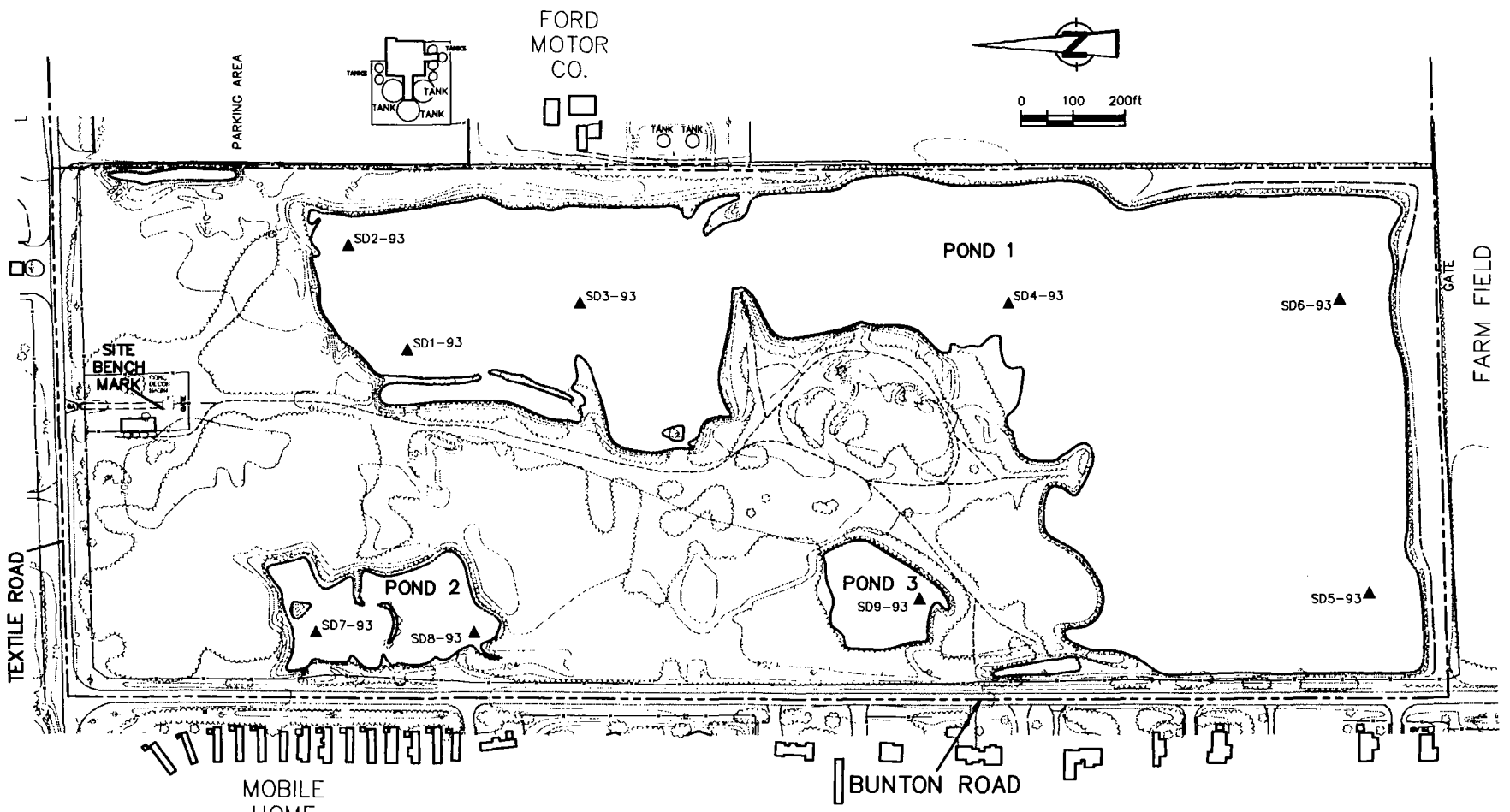
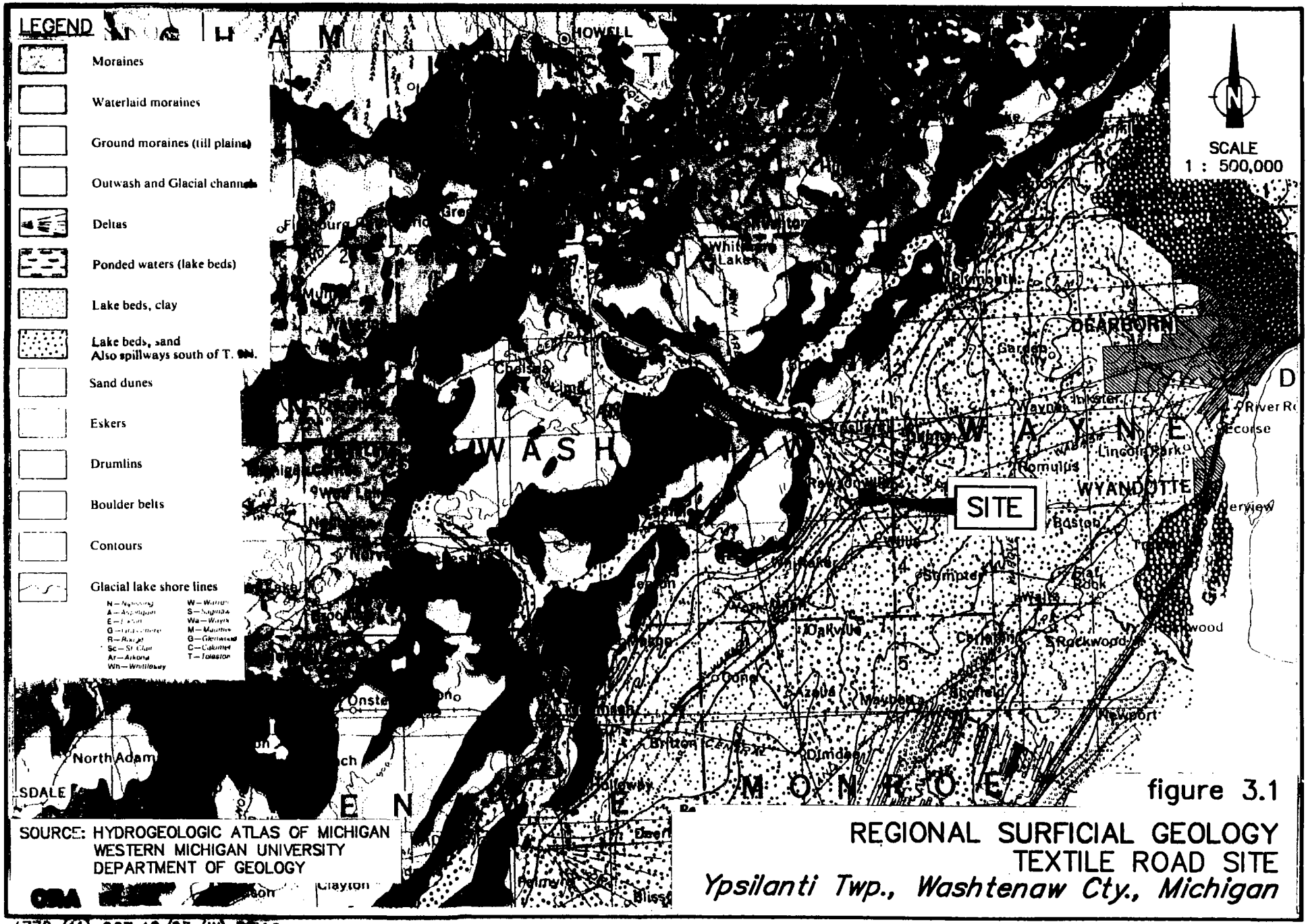


figure 2.3
SEDIMENT SAMPLE LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-65)


LEGEND
Moraines
Waterlaid moraines
Ground moraines (till plains)
Outwash and Glacial channels
Deltas
Ponded waters (lake beds)
Lake beds, clay
Lake beds, sand
Also spillways south of T. 9N.
Sand dunes
Eskers
Drumlins
Boulder belts
Contours
Glacial lake shore lines
N
SCALE
1 : 500,000
SITE
DEARBORN
WAYNE
WYANDOTTE
Romulus
Lincoln Park
Taylor
Garden City
Inkster
Dearborn Heights
Westland
Wayne
Livonia
Redford
Plymouth
Northville
Novi
Farmington
Oak Park
Southfield
Rochester
Pontiac
Waterford
Howell
Whitmore Lake
Ann Arbor
Ypsilanti
Saline
Milan
Dexter
Chelsea
Manchester
Clinton
Tecumseh
Adrian
Blissfield
Deerfield
Britton
Clayton
Onsted
North Adams
Hillsdale
Jonesville
Litchfield
Camden
Somerset
Jackson
Grass Lake
Napoleon
Concord
Springport
Parma
Spring Arbor
Albion
Marshall
Battle Creek
Augusta
Kalamazoo
Portage
Vicksburg
Schoolcraft
Three Rivers
Centreville
Sturgis
Constantine
Mendon
Colon
Burr Oak
Coldwater
Bronson
Quincy
Union City
Girard
Bloomingdale
Paw Paw
Lawton
Decatur
Hartford
Watervliet
Coloma
Benton Harbor
St. Joseph
Stevensville
Berrien Springs
Niles
Buchanan
Dowagiac
Cassopolis
Edwardsburg
Sturgis
Three Rivers
Centreville

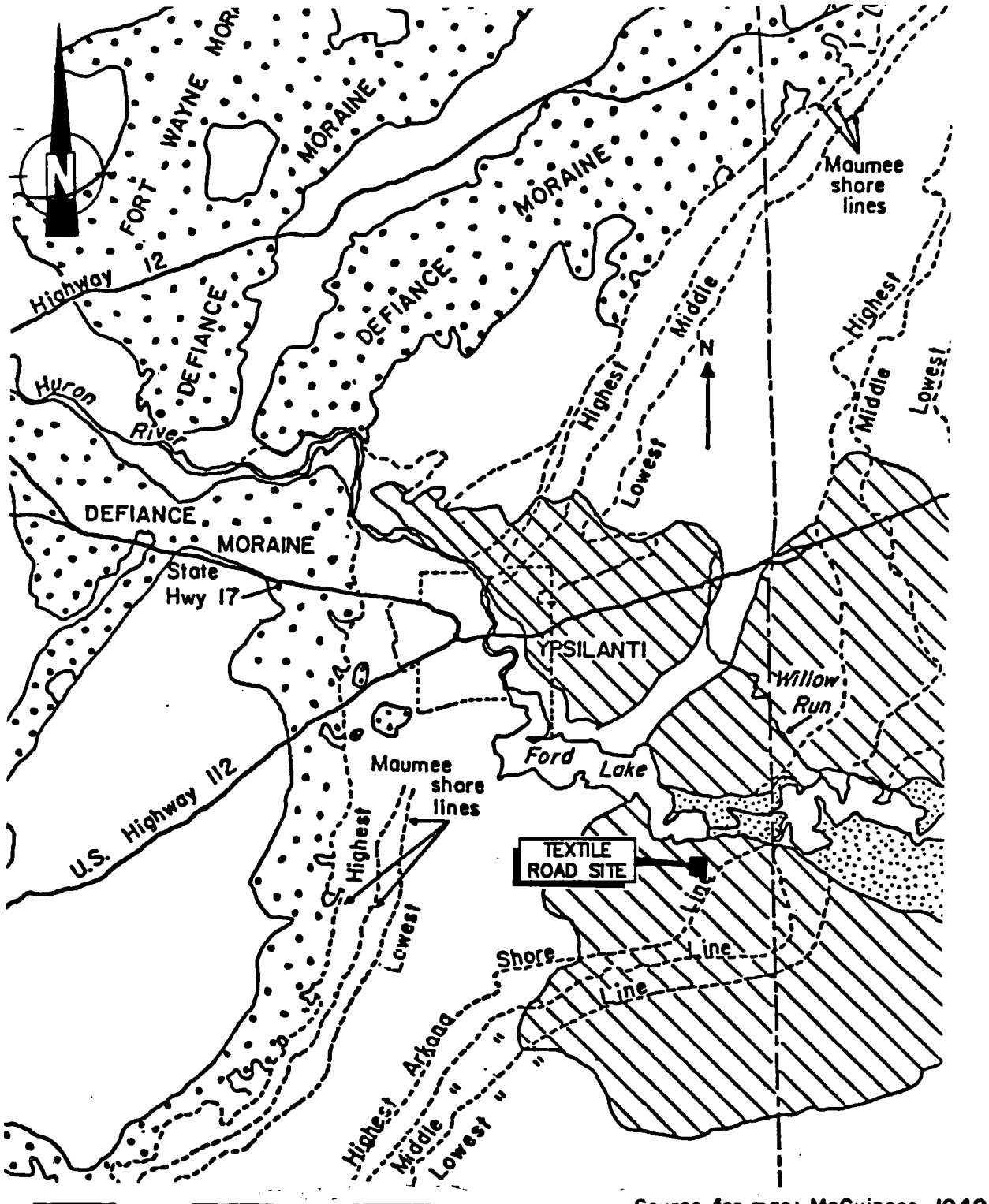
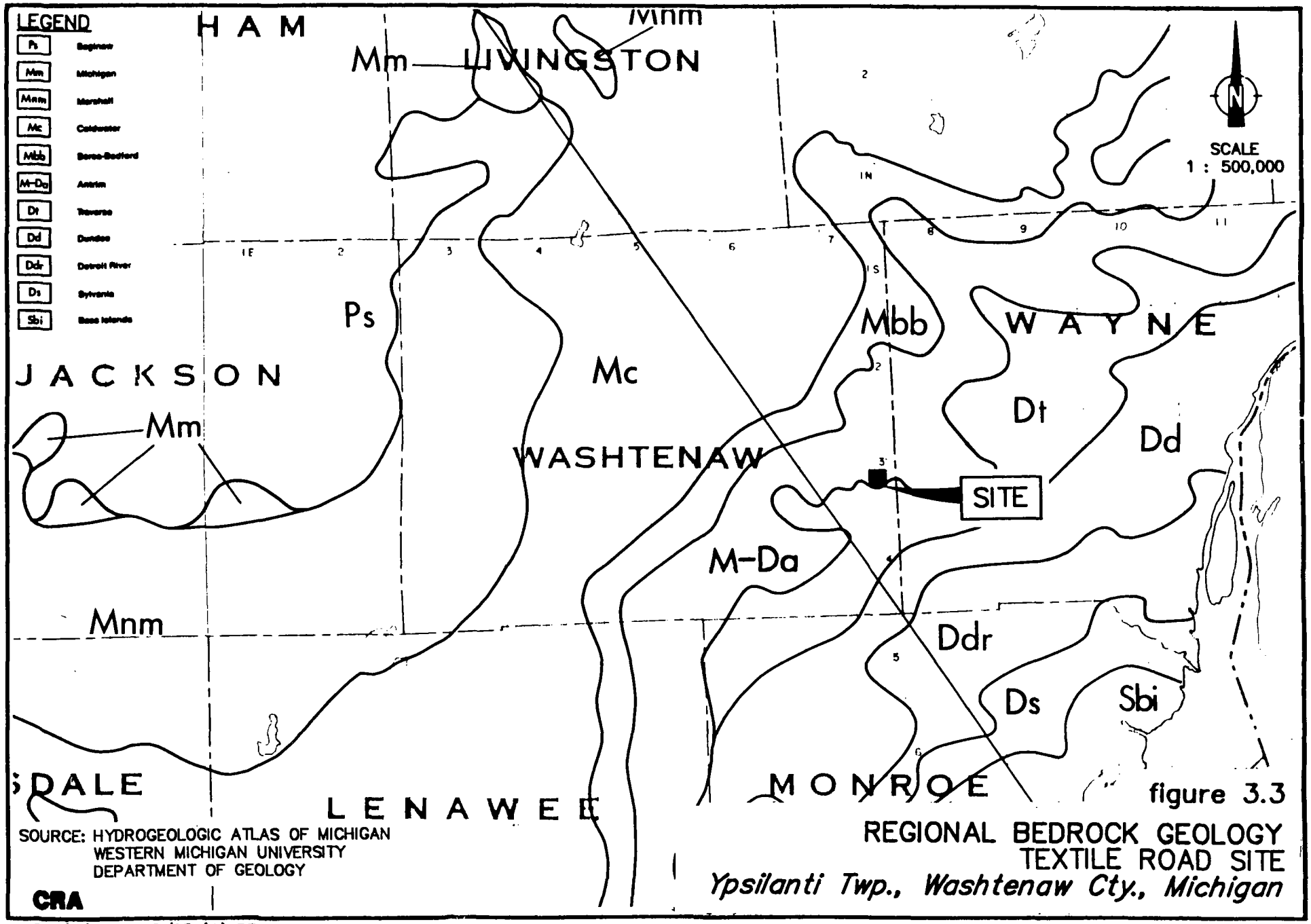


figure 3.2

LOCAL SURFICIAL GEOLOGY
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

CRA



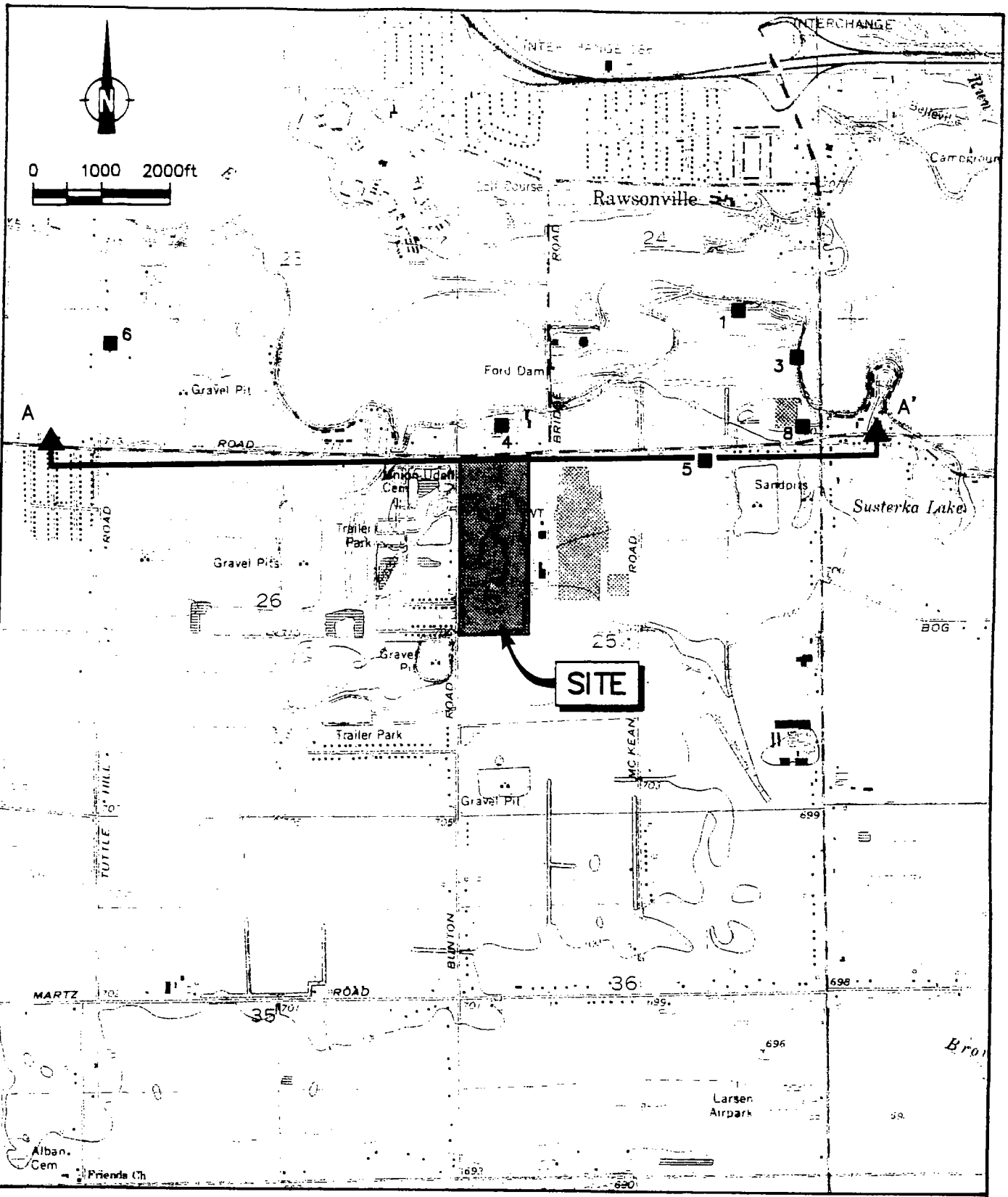
SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN
WESTERN MICHIGAN UNIVERSITY
DEPARTMENT OF GEOLOGY

CRA

figure 3.3

REGIONAL BEDROCK GEOLOGY
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

4770 (11) OCT 18/93 (W) REV.0



SOURCE: USGS QUADRANGLE MAP, YPSILANTI EAST, MICHIGAN

NOTE: WELL LOGS ARE PRESENTED IN APPENDIX J

LEGEND

1 ■ WELL LOCATION

A ▲—— CROSS-SECTION LOCATION

CRA

figure 3.4

OFF-SITE WELL LOCATION PLAN
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

4770 (11) OCT 18/93 (W) REV.0

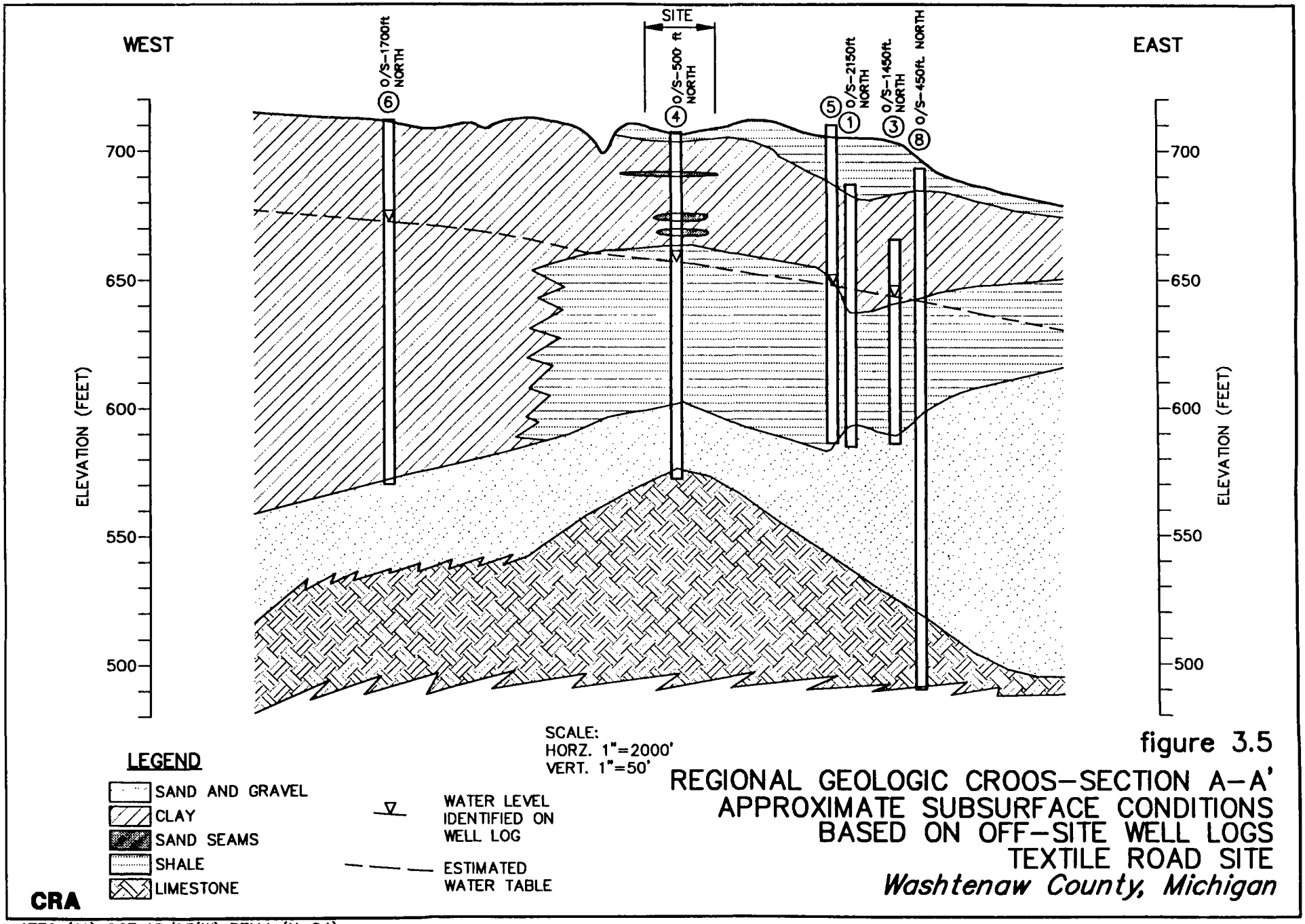
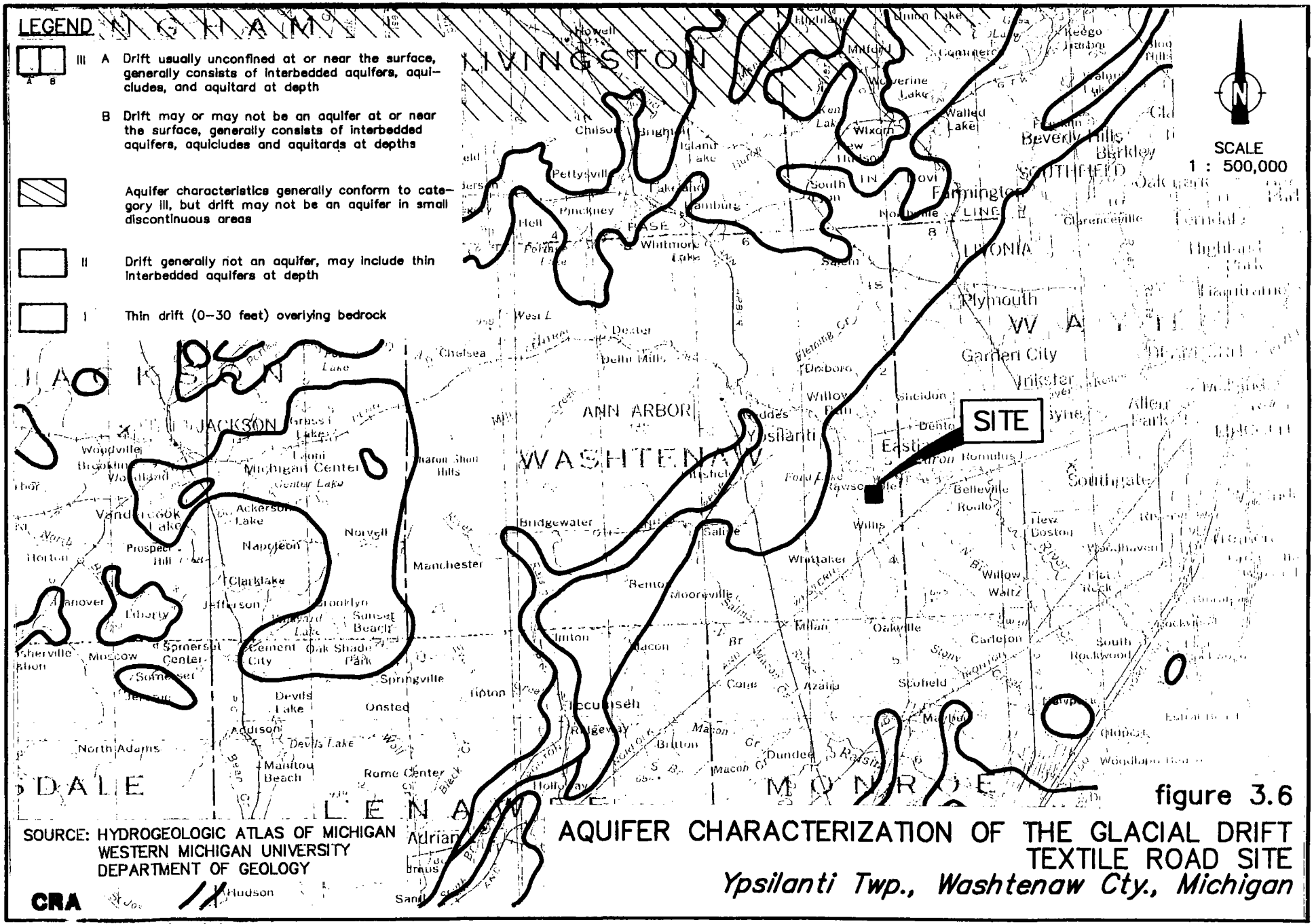


figure 3.5

REGIONAL GEOLOGIC CROOS-SECTION A-A'
APPROXIMATE SUBSURFACE CONDITIONS
BASED ON OFF-SITE WELL LOGS
TEXTILE ROAD SITE
Washtenaw County, Michigan

4770 (11) OCT 18/93(W) REV.1 (X-04)



SOURCE: HYDROGEOLOGIC ATLAS OF MICHIGAN
WESTERN MICHIGAN UNIVERSITY
DEPARTMENT OF GEOLOGY

figure 3.6

AQUIFER CHARACTERIZATION OF THE GLACIAL DRIFT
TEXTILE ROAD SITE

Ypsilanti Twp., Washtenaw Cty., Michigan

CRA

4770 (1) OCT 18/93 (W) REV.0

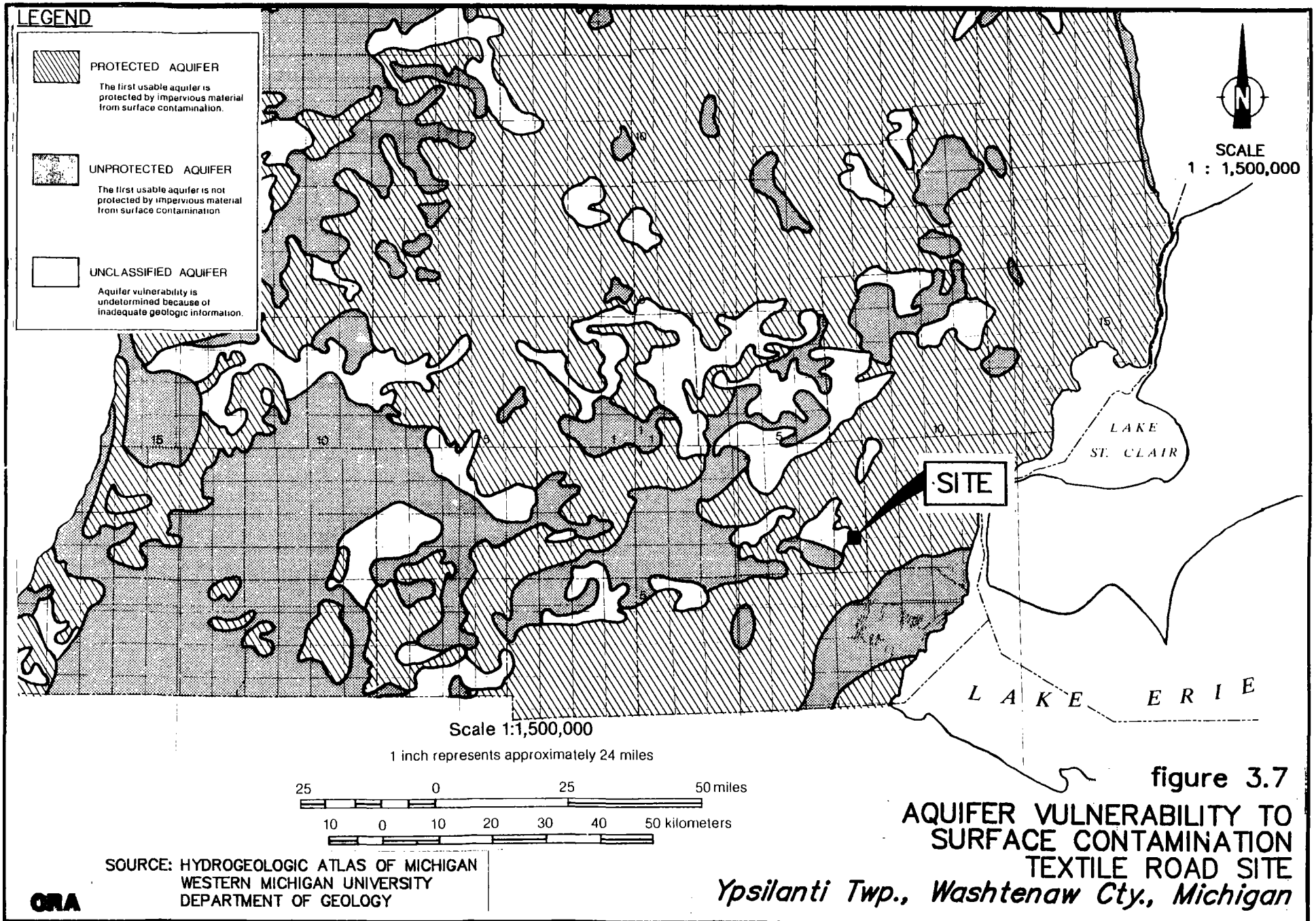


figure 3.7

AQUIFER VULNERABILITY TO SURFACE CONTAMINATION
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

4770 (11) OCT 18/93 (W) REV.0

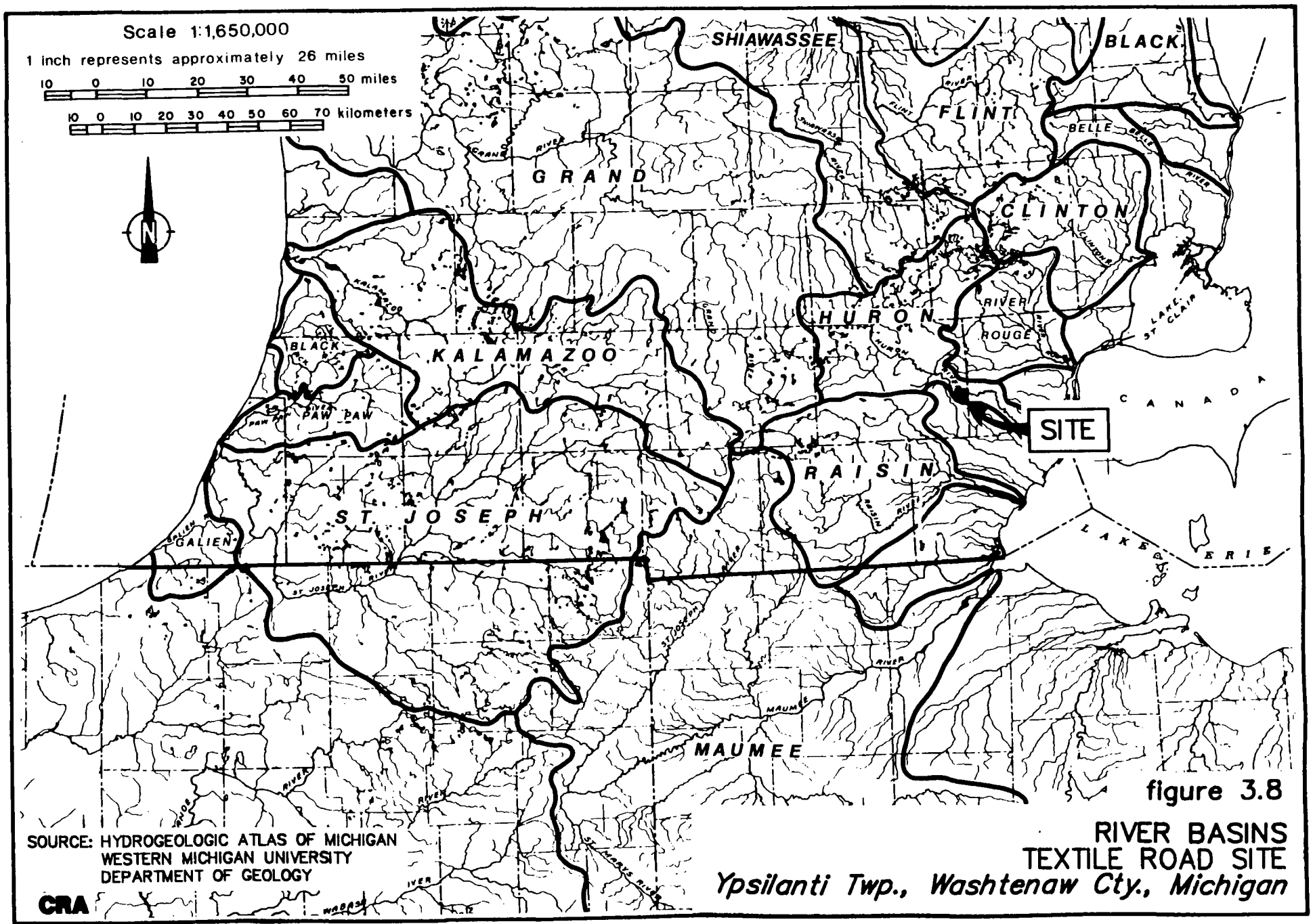


figure 3.8

RIVER BASINS
TEXTILE ROAD SITE
Ypsilanti Twp., Washtenaw Cty., Michigan

4770 (11) OCT 18/93 (W) REV.0

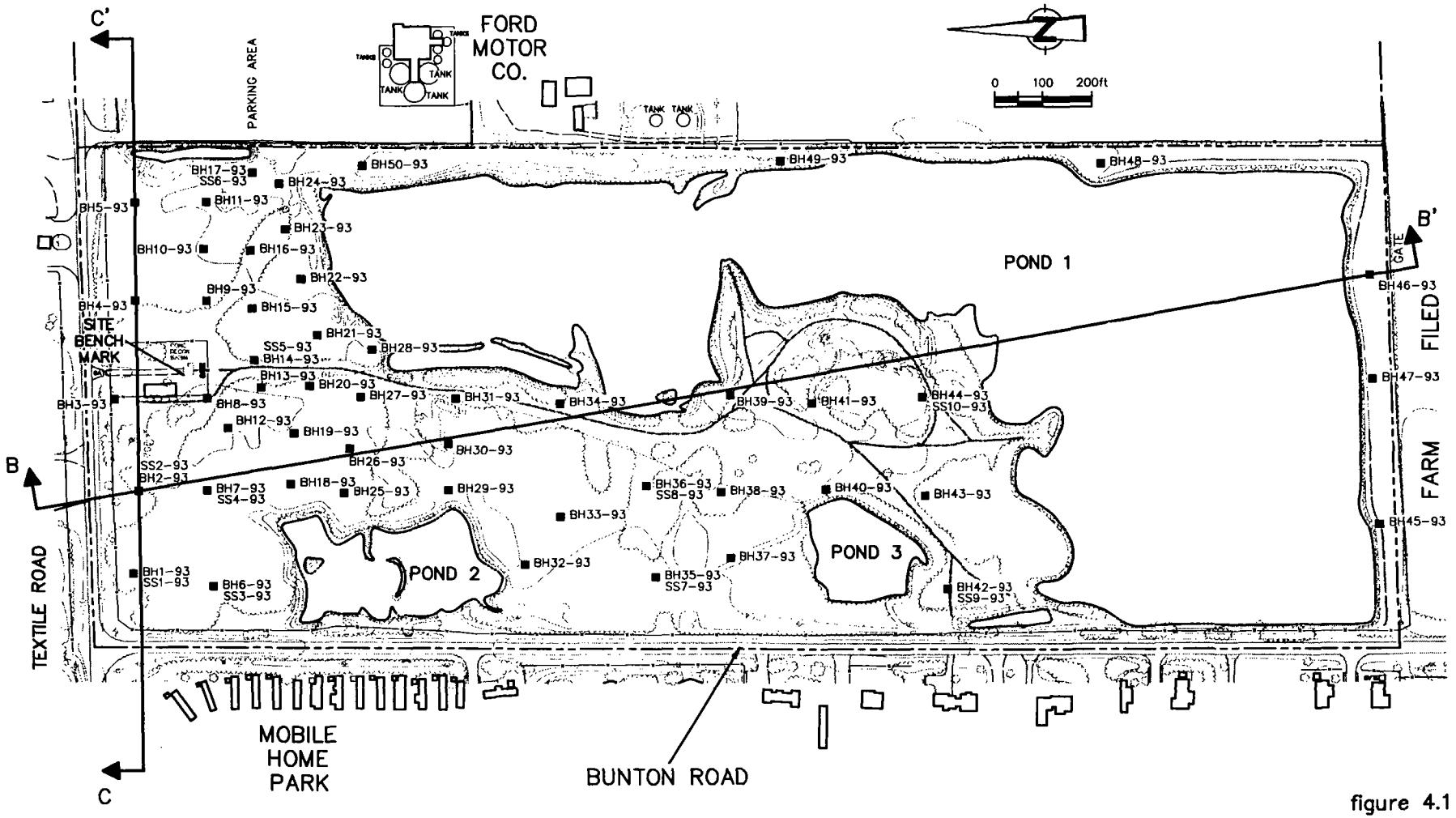
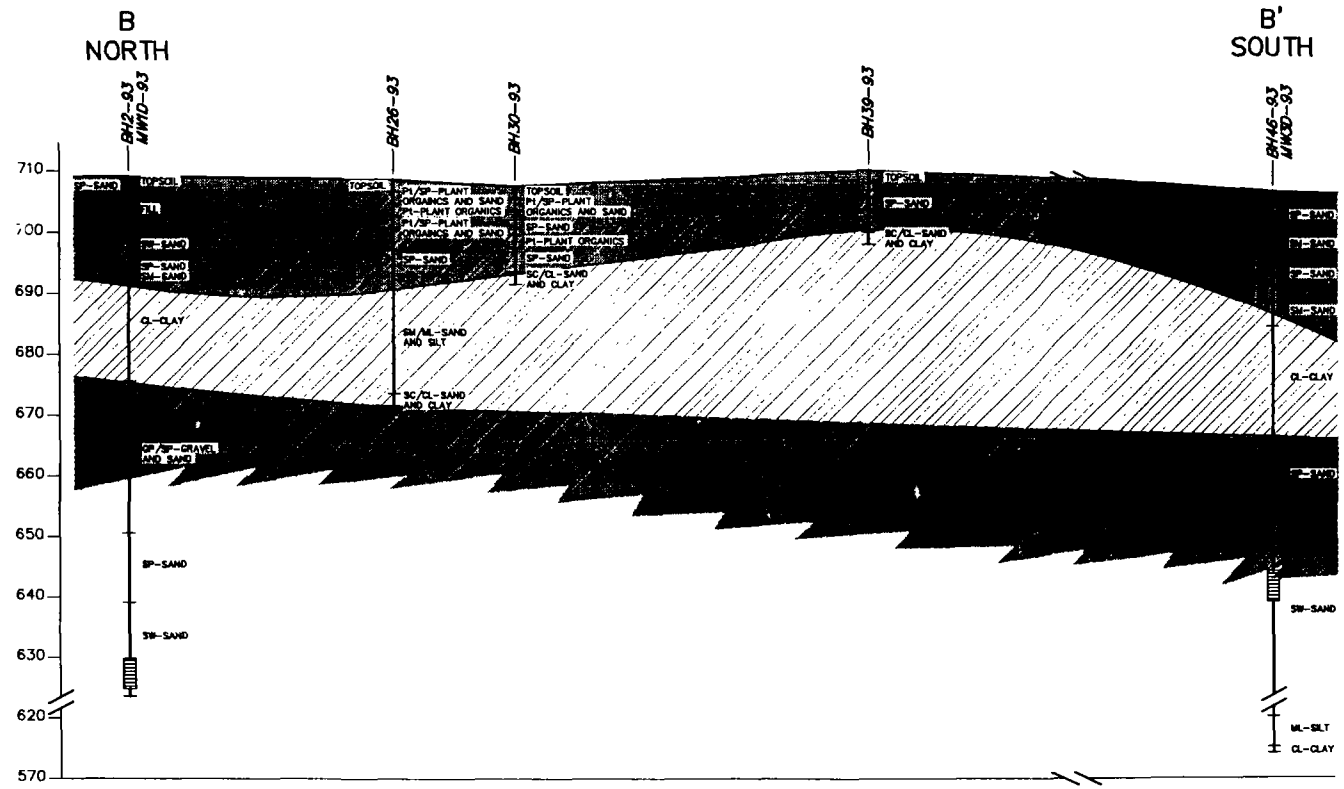


figure 4.1
CROSS SECTION LOCATIONS
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-53)



LEGEND

BH2-93 — WELL IDENTIFICATION

GROUND SURFACE

STRATIGRAPHY

SCREEN

CLAY

SAND SEAMS

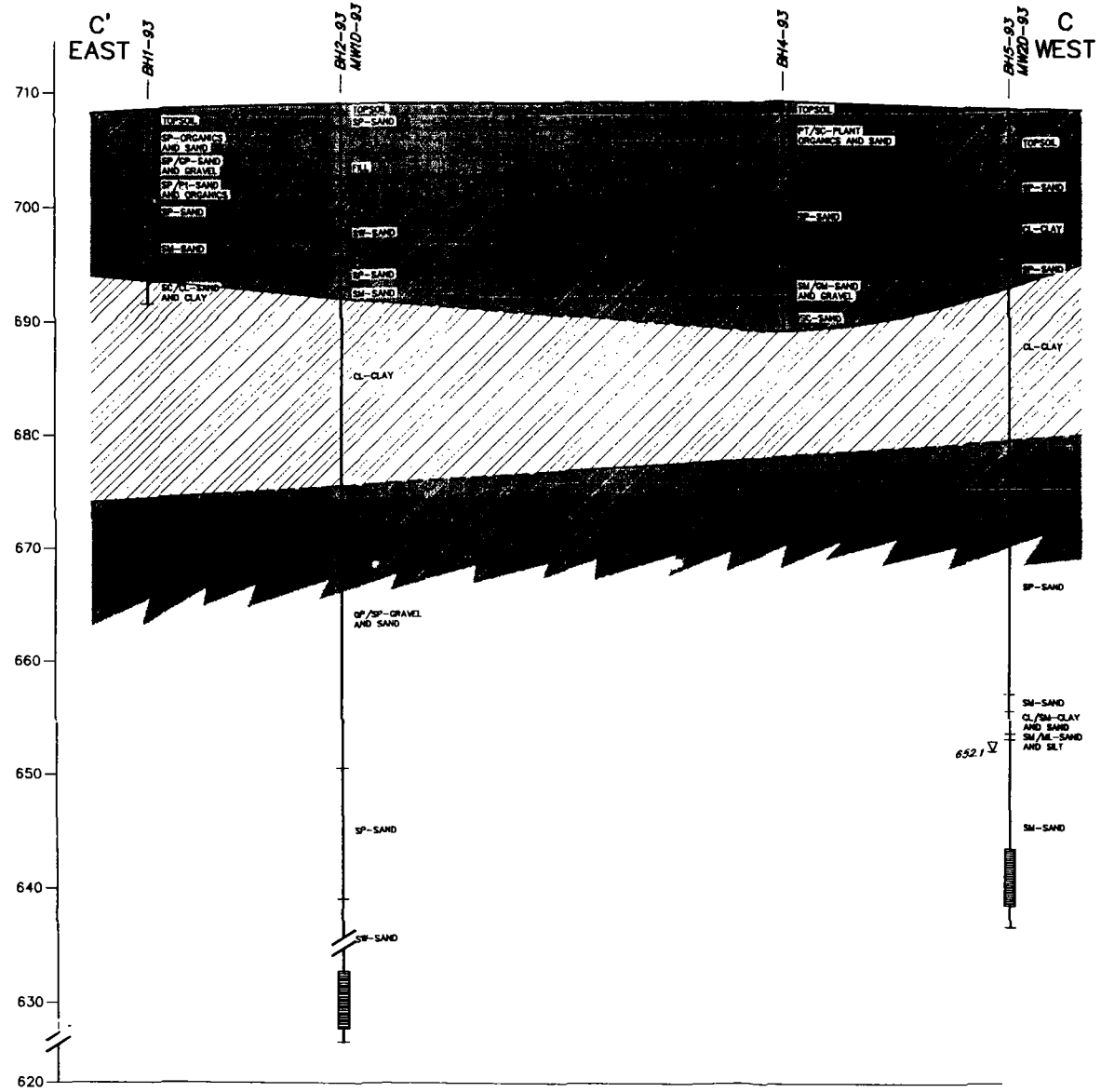
SCALE:
VERT. 1"=200'
HORZ. 1"=2000'

NOTE: ALL ELEVATIONS MEASURED IN (ft/AMSL)

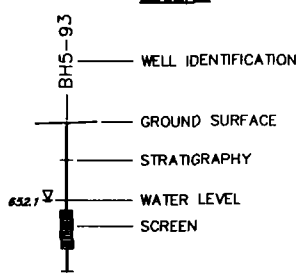
figure 4.2
GEOLOGIC CROSS-SECTION B-B'
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (X-06)



LEGEND



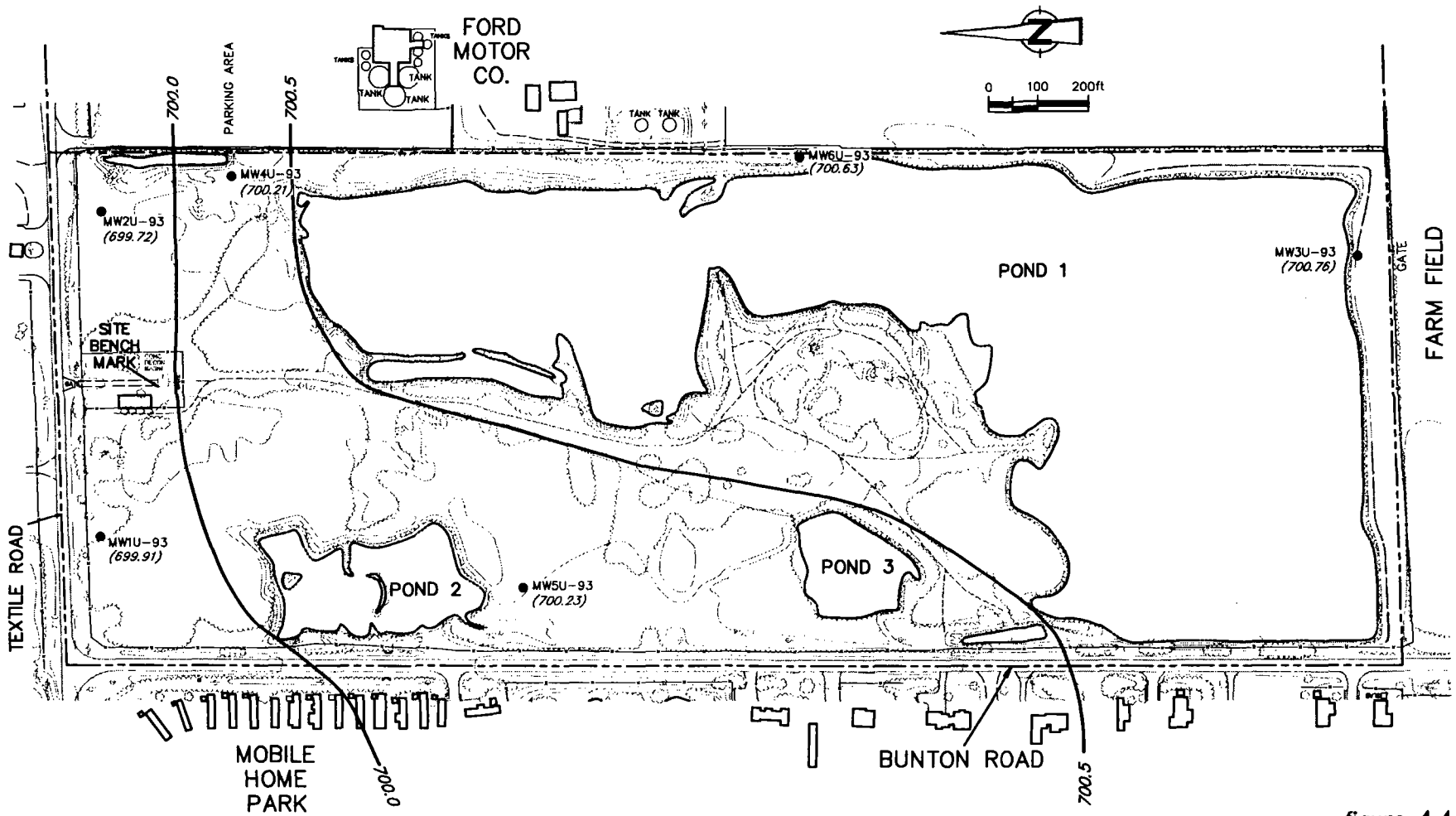
SCALE:
VERT. 1"=100'
HORZ. 1"=1000'

NOTE: ALL ELEVATIONS MEASURED IN (ft/AMSL)

CRA

4770 (11) OCT 18/93(W) REV.1 (X-05)

figure 4.3
GEOLOGIC CROSS-SECTION C-C'
TEXTILE ROAD SITE
Washenaw County, Michigan



LEGEND

(699.72) WATER TABLE ELEVATION AT WELL (ft. AMSL)

700.0 WATER TABLE ELEVATION CONTOUR

figure 4.4

UPPER WATER TABLE ZONE WATER LEVEL CONTOURS – 7/28/93
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-62)

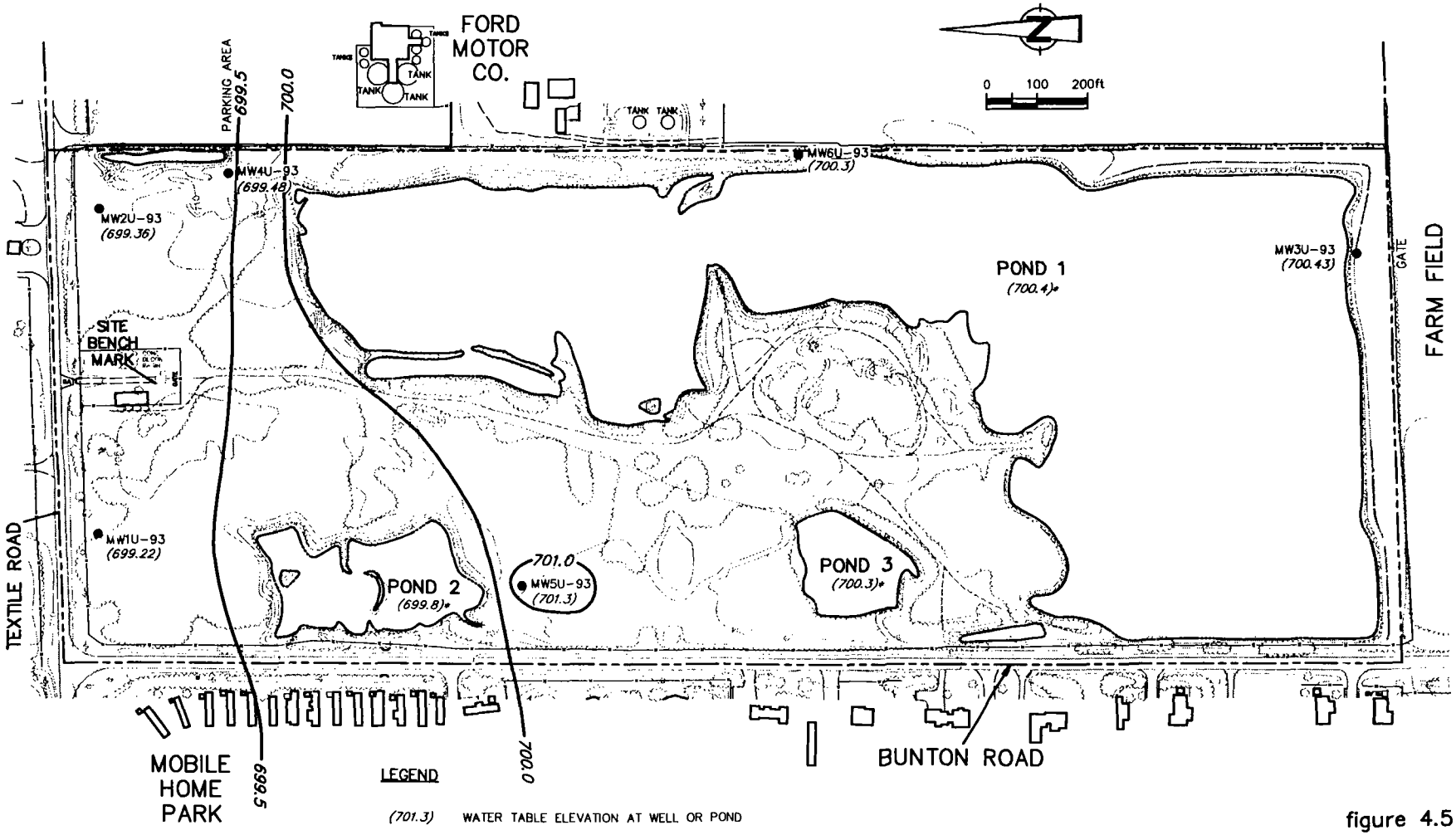


figure 4.5

UPPER WATER TABLE ZONE WATER LEVEL CONTOURS – 8/17/93
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-61)

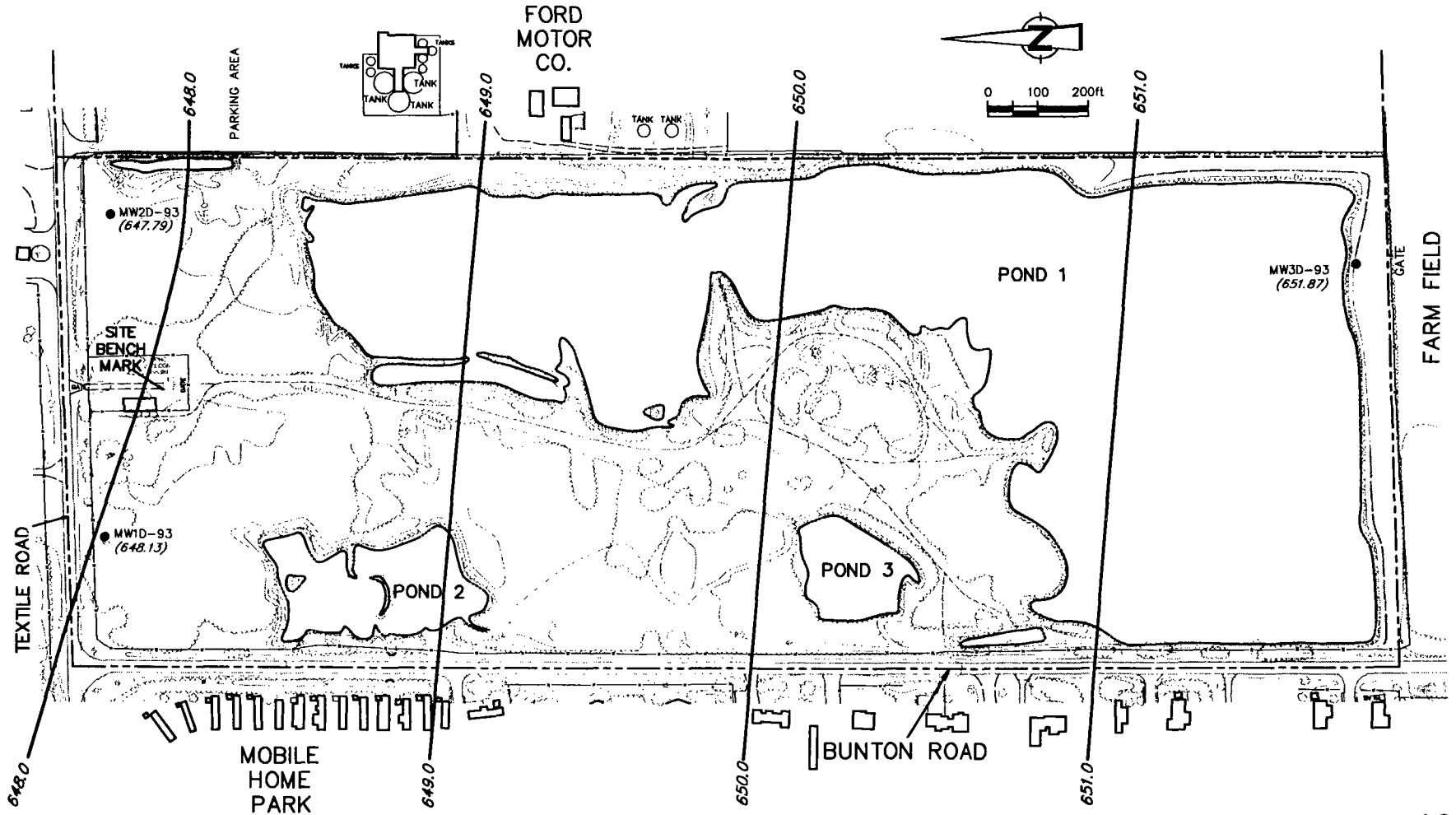


figure 4.6

LOWER SANDS AQUIFER WATER LEVEL CONTOURS – 7/28/93
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-64)

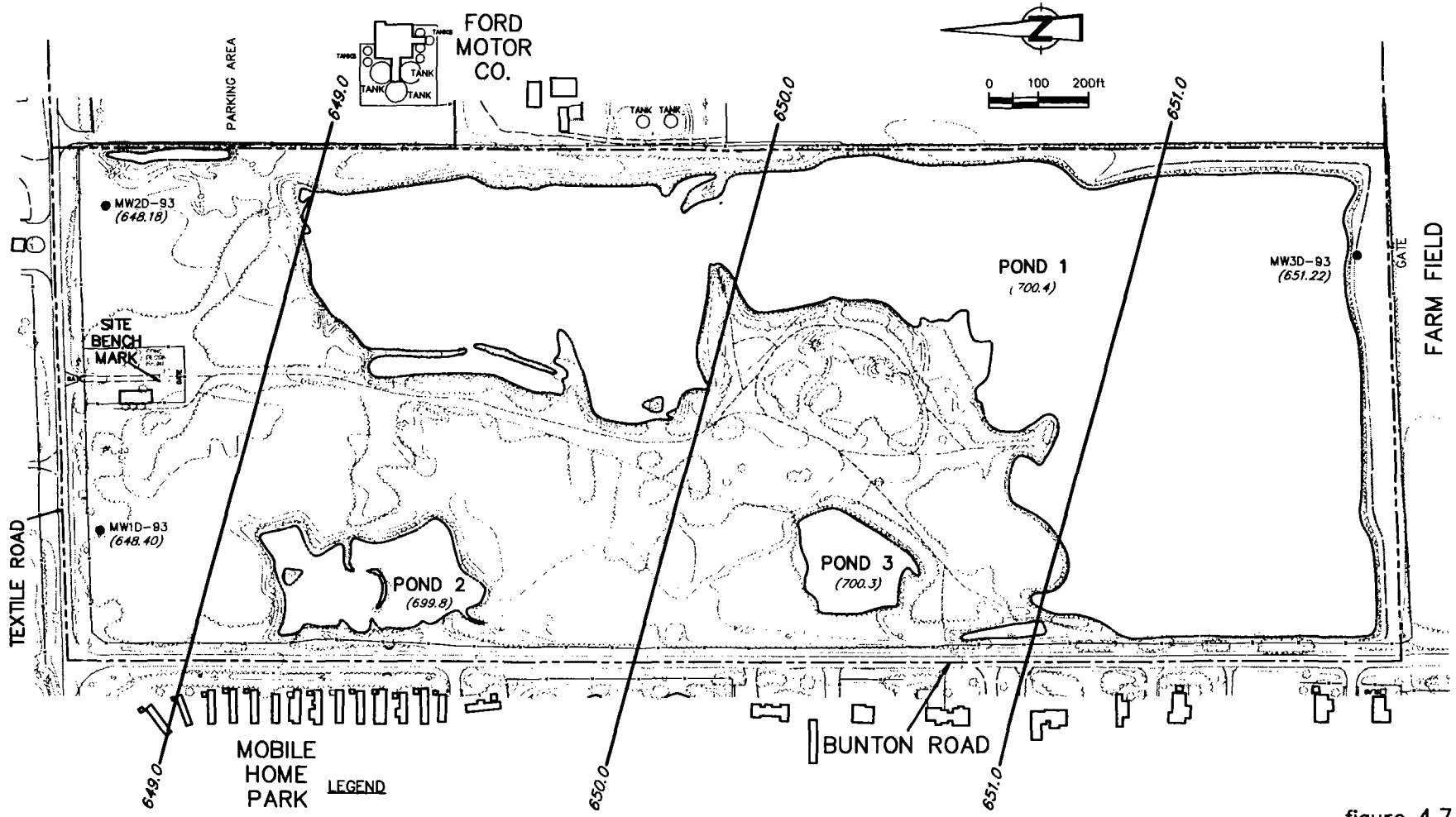
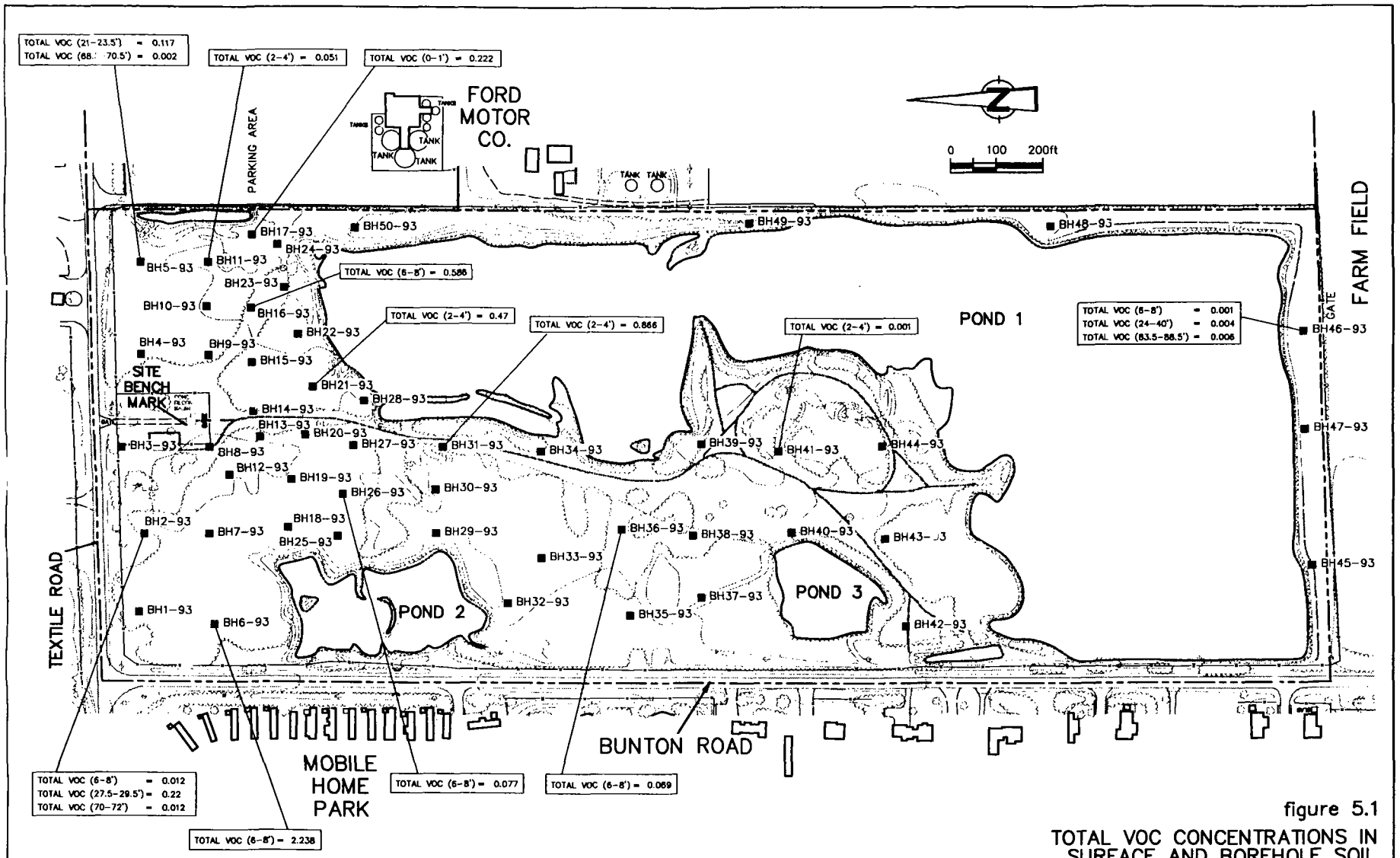


figure 4.7

LOWER SANDS AQUIFER WATER LEVEL CONTOURS – 8/17/93
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-63)



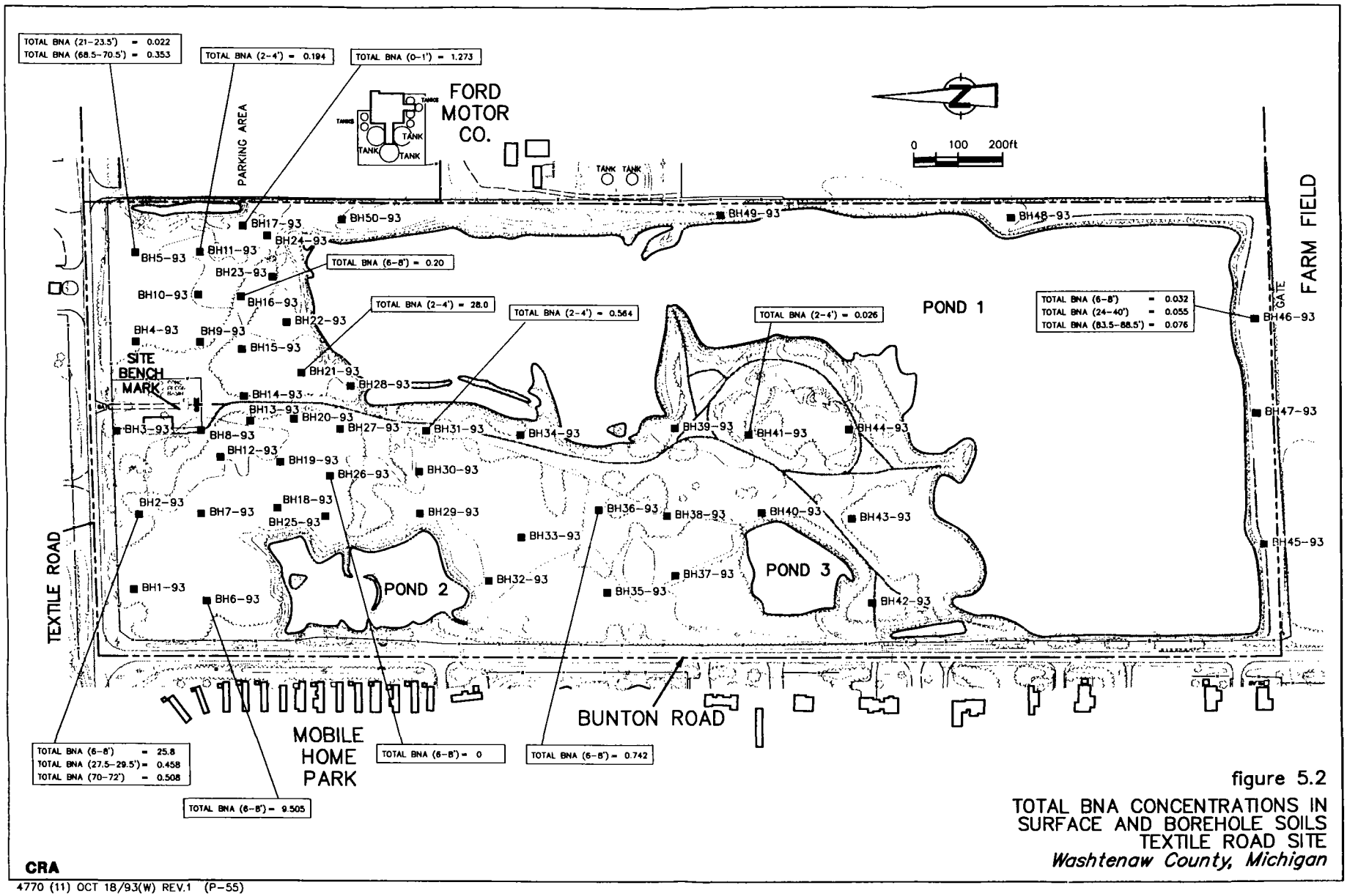
NOTE: ALL CONCENTRATIONS IN mg/kg (ppm)

figure 5.1

TOTAL VOC CONCENTRATIONS IN SURFACE AND BOREHOLE SOIL
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-54)

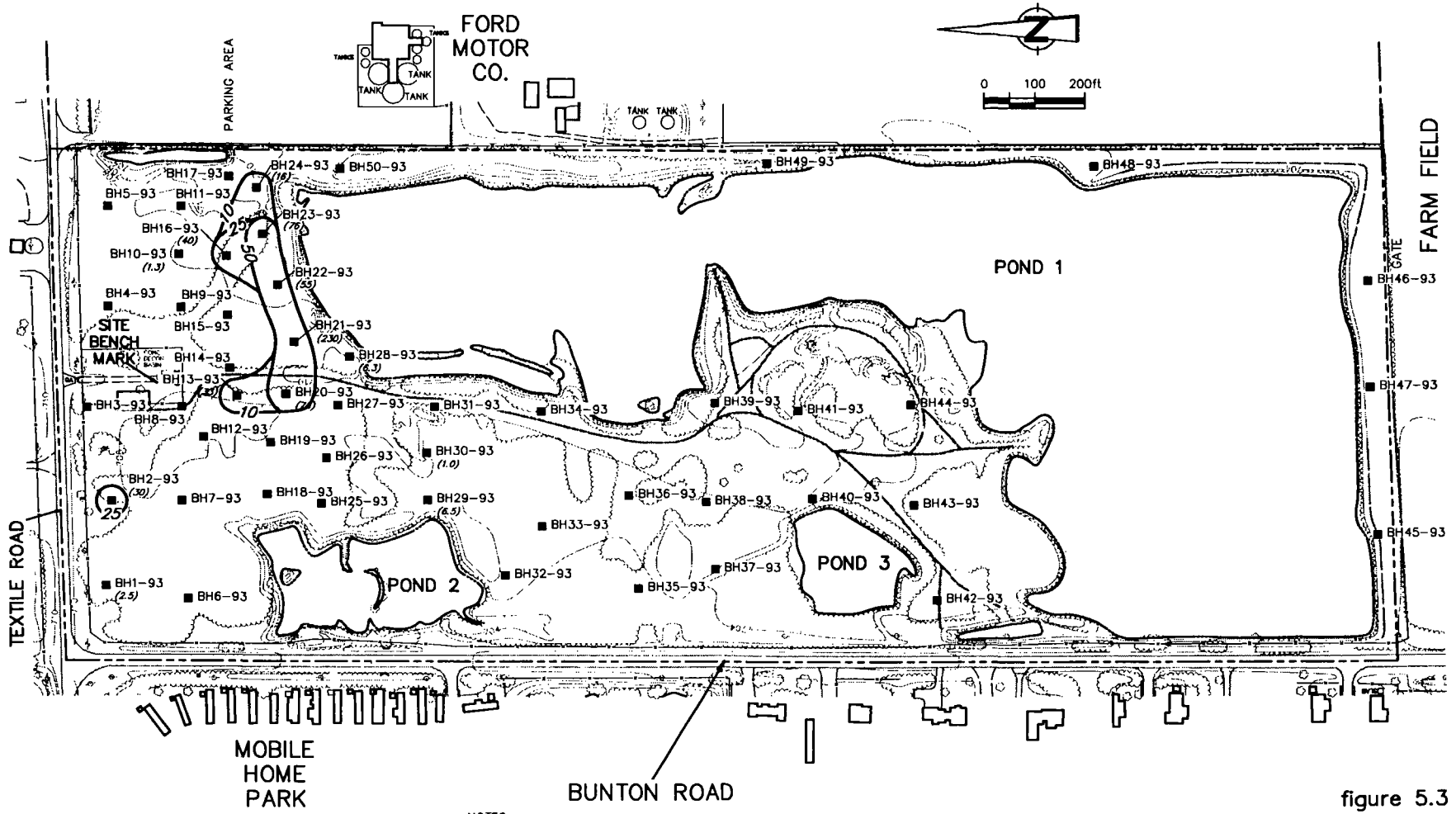


CRA

4770 (11) OCT 18/93(W) REV.1 (P-55)

figure 5.2

TOTAL BNA CONCENTRATIONS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
Washtenaw County, Michigan



LEGEND

25 —— ISO CONCENTRATION LINE FOR 2-4' BGS

NOTES:

1) CONCENTRATIONS IN mg/kg.

2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.

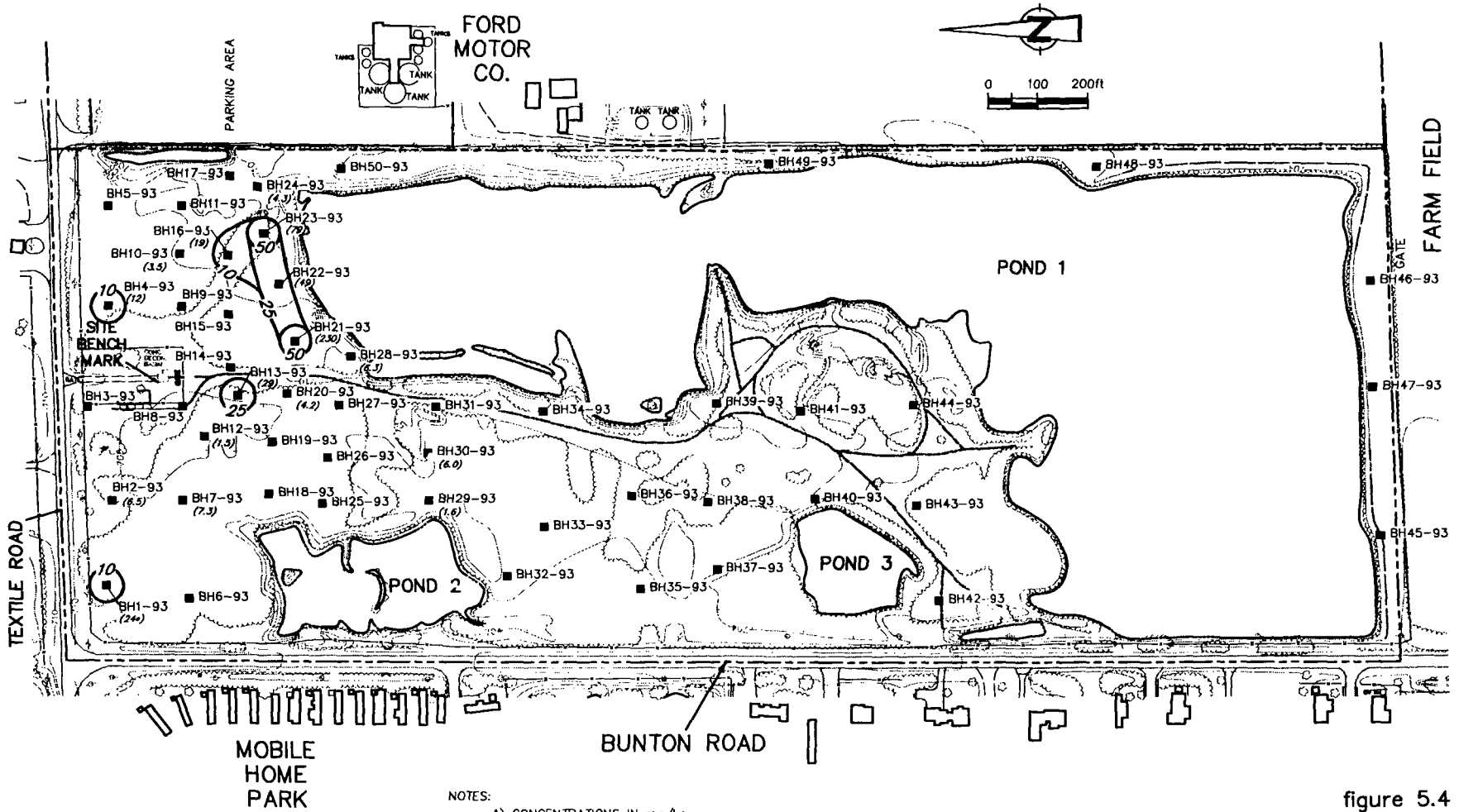
3) PCB CONCENTRATIONS IN SOIL @ 2-4' BGS.

figure 5.3

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOIL
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 22/93(W) REV.1 (P-56)



NOTES:

1) CONCENTRATIONS IN mg/kg.
2) CONCENTRATIONS BELOW 1mg/kg NOT INDICATED.
3) PCB CONCENTRATIONS IN SOIL @ 6-8' BGS.
4) * - AROLOR 1260

LEGEND

25 —— ISO CONCENTRATION LINE FOR 6-8' BGS

CRA

4770 (11) OCT 22/93(W) REV.1 (P-57)

figure 5.4

PCB CONCENTRATION AND ISOCONCENTRATION IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
Washtenaw County, Michigan

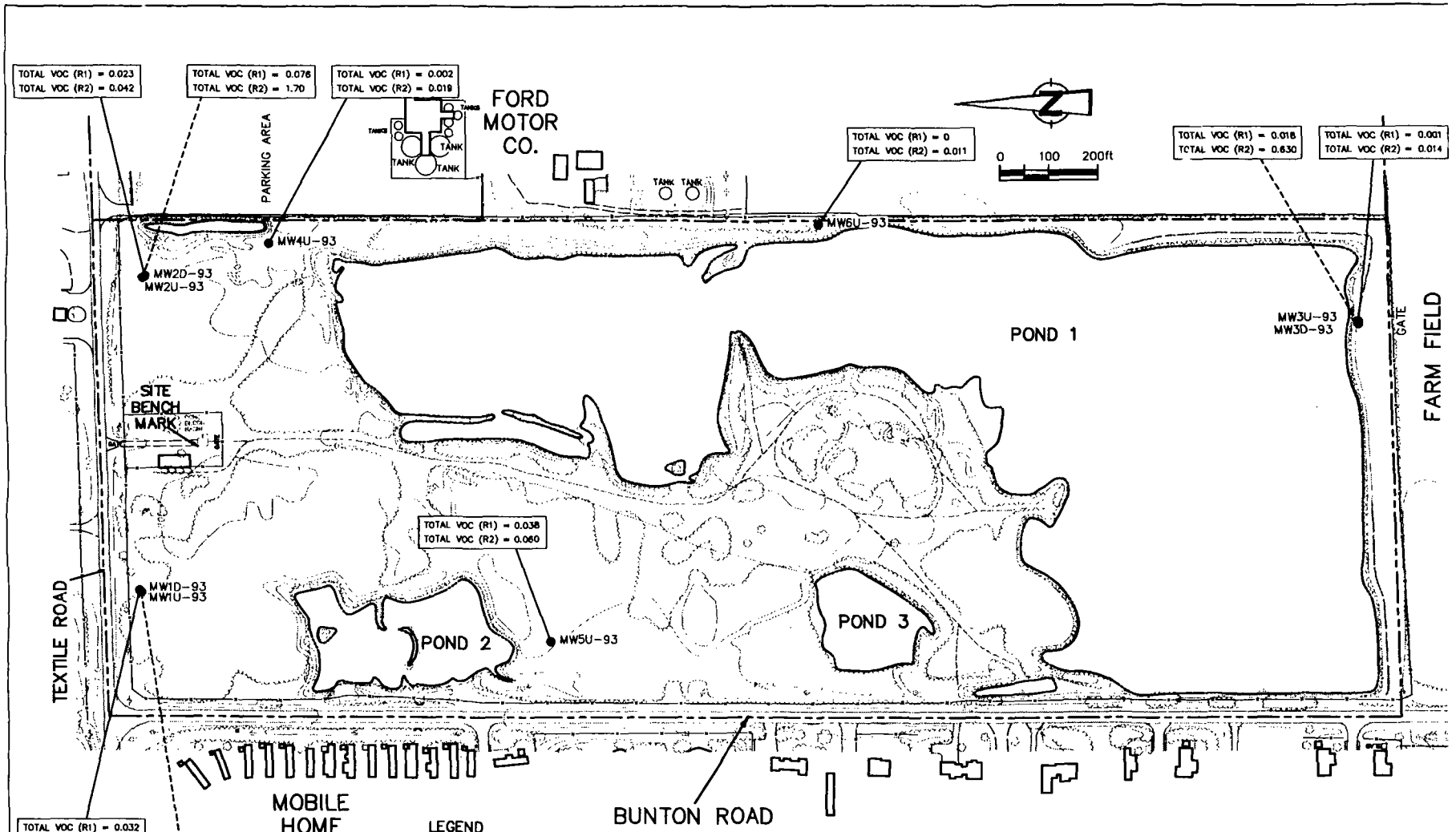


figure 5.5

TOTAL VOC CONCENTRATIONS IN GROUNDWATER – ROUND 1 & 2
TEXTILE ROAD SITE
Washtenaw County, Michigan

4770 (11) OCT 18/93(W) REV.1 (P-58)

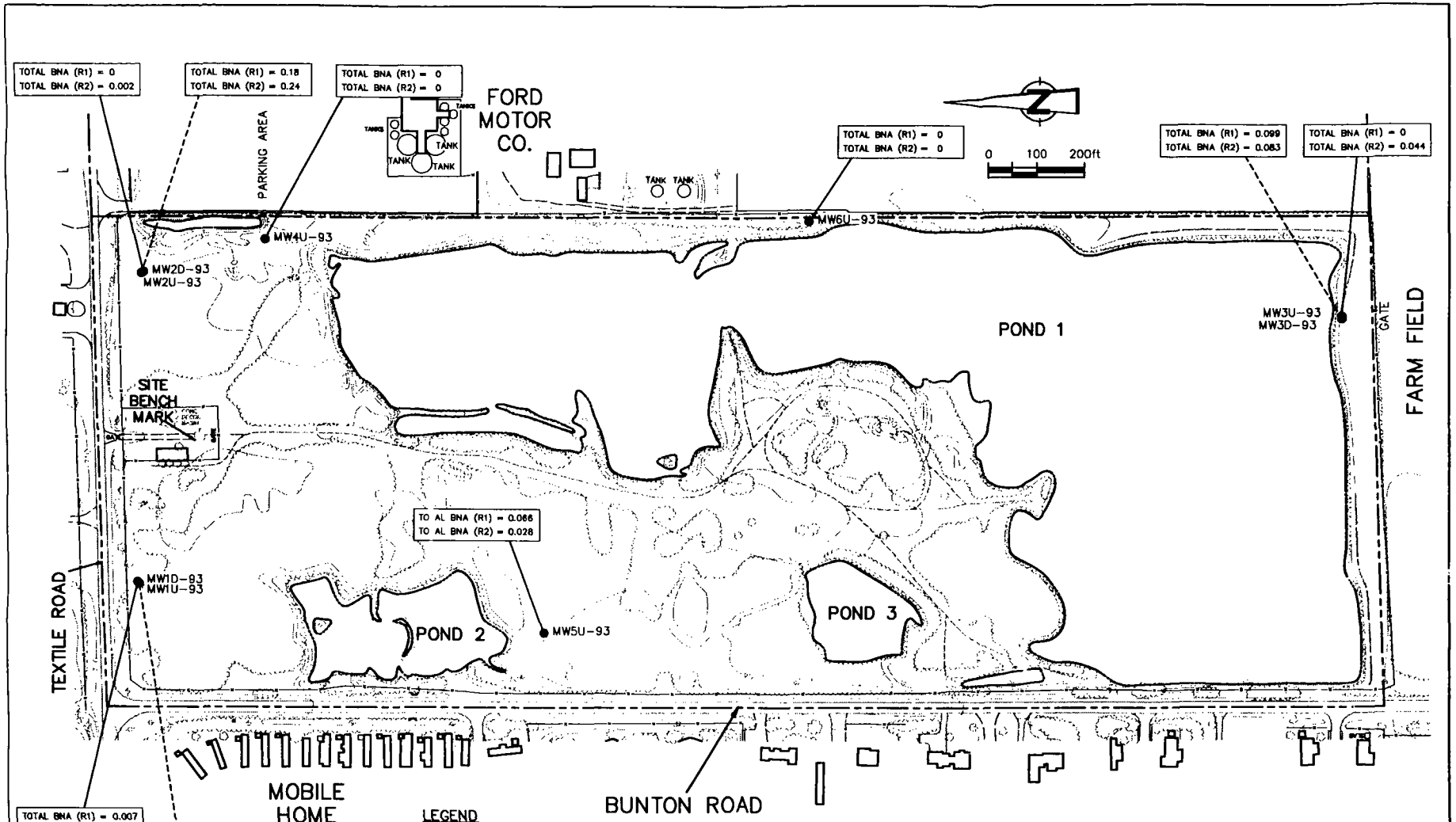


figure 5.6

TOTAL BNA CONCENTRATIONS IN GROUNDWATER – ROUND 1 & 2
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-59)

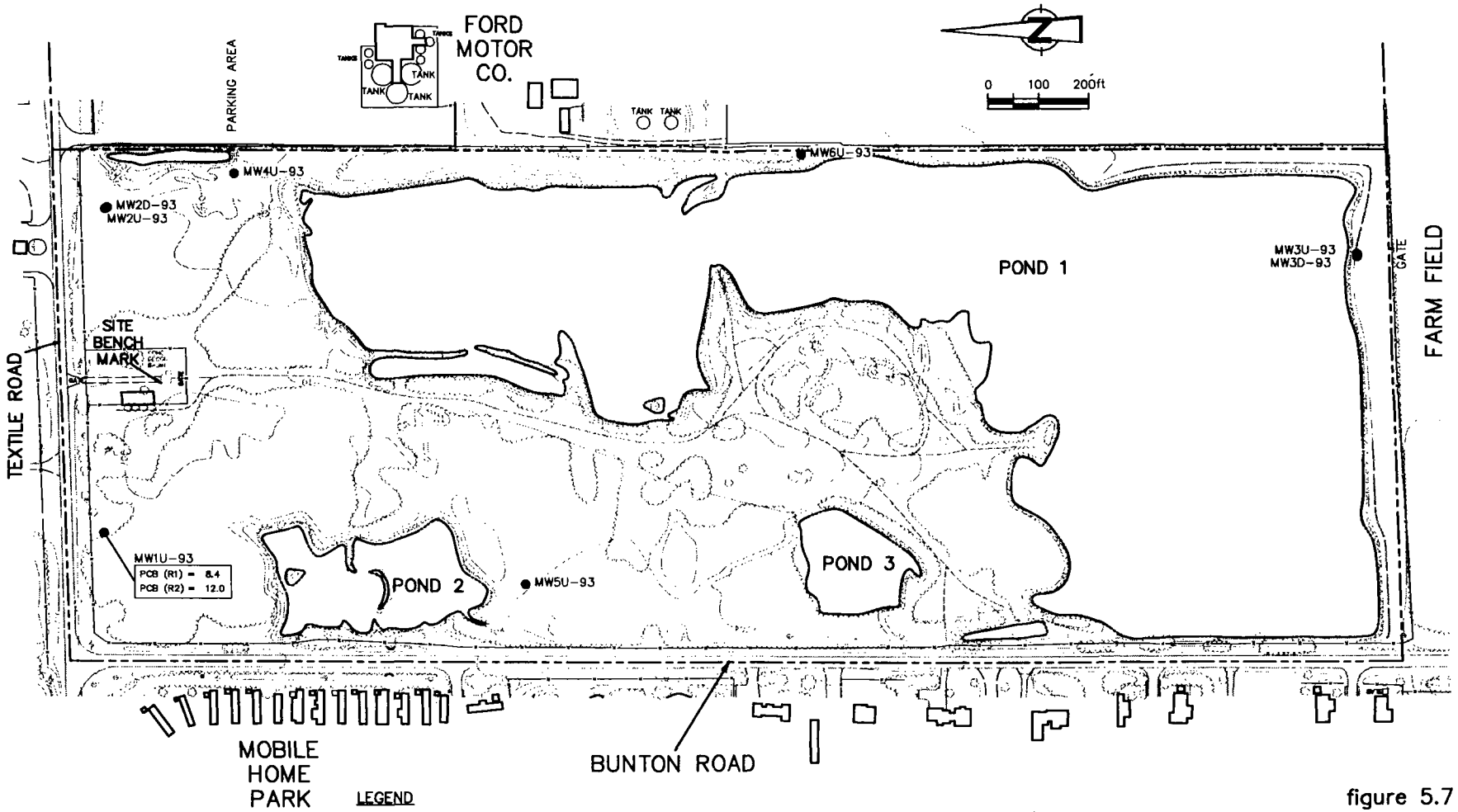


figure 5.7

PCB CONCENTRATION IN GROUNDWATER – ROUND 1 & 2
TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA

4770 (11) OCT 18/93(W) REV.1 (P-60)

TABLES

TABLE 4.1

GROUNDWATER ELEVATIONS
UPPER WATER TABLE ZONE/LOWER SANDS AQUIFER
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

			6/02/93		7/28/93		8/17/93		8/19/93
Location	*Ground Surface Elevation (ft. AMSL)*	*Top of Casing Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Depth to Water (ft. BTOC)*	*Water Elevation (ft. AMSL)*	*Water Elevation (ft. AMSL)*
MW-1U-93	709.11	710.45	6.21	704.24	10.74	699.71	11.23	699.22	—
MW-2U-93	708.6	709.99	9.47	700.52	10.27	699.72	10.63	699.36	—
MW-3U-93	706.11	707.43	5.98	701.45	6.67	700.76	7	700.43	—
MW-4U-93	708.58	710.04	9.3	700.74	9.83	700.21	10.56	699.48	—
MW-5U-93	706.11	707.65	6.6	701.05	7.42	700.23	6.35	701.3	—
MW-6U-93	705.09	706.49	5.1	701.39	5.86	700.63	6.19	700.3	—
MW1D-93	709.07	710.39	57.8	652.59	62.26	648.13	61.99	648.40	—
MW2D-93	708.73	710.05	59.55	650.5	62.26	647.79	62.21	648.18	—
MW3D-93	706.33	707.65	52.87	654.78	55.78	651.87	56.43	651.22	—
POND 1	—	—	—	—	—	—	—	—	700.4
POND 2	—	—	—	—	—	—	—	—	699.8
POND 3	—	—	—	—	—	—	—	—	700.3

TAP[illegible] 4.2

SUMMARY OF HYDRAULIC CONDUCTIVITY RESULTS
SINGLE WELL RESPONSE TESTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Test Well/Number	*Base of Screen (ft AMSL)*	*Falling Head Test Hydraulic Conductivity*		*Rising Head Test Hydraulic Conductivity*		*Geometric Mean Values*	
		(cm/sec)	*(ft/sec)*	*(cm/sec)*	*(ft/sec)*	*(cm/sec)*	*(ft/sec)*
Upper Water Table Zone							
MW2U-93/1	694.2	3.4 E-03	1.1 E-04	3.3 E-03	1.1 E-04		
MW2U-93/2	694.2	3.1 E-03	1.0 E-04	3.5 E-03	1.2 E-04		
				MW2U-93 Mean Value		**3.3 E-03**	**1.1 E-04**
MW3U-93/1	684.7	1.3 E-03	4.2 E-05	1.3 E-03	4.3 E-05		
MW3U-93/2	684.7	1.3 E-03	4.3 E-05	1.2 E-03	4.1 E-05		
				MW3U-93 Mean Value		**1.3 E-03**	**4.2 E-05**
Lower Sands Aquifer							
MW2D-93/1	638.6	2.6 E-03	8.4 E-05	2.5 E-03	8.1 E-05		
MW2D-93/2	638.6	2.4 E-03	8.0 E-05	2.4 E-03	8.0 E-05		
				MW2D-93 Mean Value		**2.5 E-03**	**8.1 E-05**
MW3D-93/1	639.2	6.3 E-03	2.1 E-04	7.4 E-03	2.4 E-04		
MW3D-93/2	639.2	6.7 E-03	2.2 E-04	7.3 E-03	2.4 E-04		
				MW3D-93 Mean Value		**6.9 E-03**	**2.3 E-04**

Notes:

The Bouwer-Rice method of hydraulic conductivity calculation in the AQTESOLV program was used to produce all results.
Analysis details are presented in Appendix F.
All data was collected using Telog dataloggers attached to pressure transducers.
ft AMSL - feet Above Mean Sea Level
ft/sec - feet/second
cm/sec - centimetres/second

TABLE 4.3

HAZEN HYDRAULIC CONDUCTIVITY RESULTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Soil Sample Location	*Sample Depth (ft BGS)*	*D10 (1) of Soil (mm)*	*Hydraulic Conductivity (2)*	
			cm/s	*ft/s*
Upper Sand/Fill Unit				
BH2A-93	8 - 10	0.1708	2.9 E-02	9.6 E-04
BH17A-93	2 - 4	0.0985	9.7 E-03	3.2 E-04
BH46A-93	2 - 4	0.0933	8.7 E-03	2.9 E-04
BH49A-93	2 - 4	0.162	2.6 E-02	8.6 E-04
		Geometric Mean:	**1.6 E-02**	**5.2 E-04**
		Observed Range:	**8.7 E-03 - 2.6 E-02**	**3.2 E-04 - 9.6 E-04**
Lower Sands Unit (3)				
BH2D-93	70 - 72	0.2526	6.4 E-02	2.1 E-03
BH46D-93	83 - 85	0.1323	1.8 E-02	5.7 E-04
		Observed Range:	**1.8 E-02 - 6.4 E-02**	**5.7 E-04 - 2.1 E-03**

Notes:

(1) D10 represents the grain size (diameter where ten percent by mass of the soil sample is more fine. Values obtained from grain size analysis data in Appendix B.
(2) Hydraulic conductivities are calculated using the Hazen equation, K = C(D10)^2 where C = coefficient, assumed equal to 1.0.
(3) No geometric mean was calculated due to insufficient data points.
ft BGS feet Below Ground Surface
mm millimetres
cm/s centimetres/second
ft/s feet/second

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Indentification*	*Chemcial Analysis*	*Sample Interval (ft BGS)*
BH-1-92	BH-1A-93	PCB	2-4
BH-1-92	BH-1B-93	PCB	6-8
BH-1-92	SS-1-93	PCB	0-1
BH-2-92	BH-2A-93	PCB	2-4
BH-2-92	BH-2B-93	TCL/TAL	6-8
BH-2-92	BH-2C-93	TCL/TAL	27.5-29.5
BH-2-92	BH-2D-93	TCL/TAL	70-72
BH-2-92	SS-2-93	PCB	0-1
BH-3-92	BH-3A-93	PCB	2-4
BH-3-92	BH-3B-93	PCB	6-8
BH-4-92	BH-4A-93	PCB	2-4
BH-4-92	BH-4B-93	PCB	6-8
BH-5-92	BH-5A-93	PCB	2-4
BH-5-92	BH-5B-93	PCB	6-8
BH-5-92	BH-60C-93	TCL/TAL	21-23.5
BH-5-92	BH-5D-93	TCL/TAL	68.5-70.5
BH-6-92	BH-6A-93	PCB	2-4
BH-6-92	BH-6B-93	TCL/TAL	6-8
BH-6-92	SS-3-93	PCB	0-1
BH-7-92	BH-7A-93	PCB	2-4
BH-7-92	BH-7B-93	PCB	6-8
BH-7-92	SS-4-93	PCB	
BH-8-92	BH-8A-93	PCB	2-4
BH-8-92	BH-8B-93	PCB	6-8
BH-9-92	BH-9A-93	PCB	2-4
BH-9-92	BH-9B-93	PCB	6-8
BH-10-92	BH-10A-93	PCB	2-4
BH-10-92	BH-10B-93	PCB	6-8
BH-11-92	BH-11A-93	TCL/TAL	2-4
BH-11-92	BH-11B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Indentification*	*Chemcial Analysis*	*Sample Interval (ft BGS)*
BH-12-92	BH-12A-93	PCB	2-4
BH-12-92	BH-12B-93	PCB	6-8
BH-13-92	BH-13A-93	PCB	2-4
BH-13-92	BH-13B-93	PCB	6-8
BH-14-92	BH-14A-93	PCB	2-4
BH-14-92	BH-14B-93	PCB	6-8
BH-14-92	SS-5-93	PCB	0-1
BH-15-92	BH-15A-93	PCB	2-4
BH-15-92	BH-15B-93	PCB	6-8
BH-16-92	BH-16A-93	PCB	2-4
BH-16-92	BH-16B-93	TCL/TAL	6-8
BH-17-92	BH-17A-93	PCB	2-4
BH-17-92	BH-17B-93	PCB	6-8
BH-17-92	SS-6-93	TCL/TAL	0-1
BH-18-92	BH-18A-93	PCB	2-4
BH-18-92	BH-18B-93	PCB	6-8
BH-19-92	BH-19A-93	PCB	2-4
BH-19-92	BH-19B-93	PCB	6-8
BH-20-92	BH-20A-93	PCB	2-4
BH-20-92	BH-20B-93	PCB	6-8
BH-21-92	BH-21A-93	TCL/TAL	2-4
BH-21-92	BH-21B-93	PCB	6-8
BH-22-92	BH-22A-93	PCB	2-4
BH-22-92	BH-22B-93	PCB	6-8
BH-23-92	BH-23A-93	PCB	2-4
BH-23-92	BH-23B-93	PCB	6-8
BH-24-92	BH-24A-93	PCB	2-4
BH-24-92	BH-24B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Indentification*	*Chemcial Analysis*	*Sample Interval (ft BGS)*
BH-25-92	BH-25A-93	PCB	2-4
BH-25-92	BH-25B-93	PCB	6-8
BH-26-92	BH-26A-93	PCB	2-4
BH-26-92	BH-26B-93	TCL/TAL	6-8
BH-27-92	BH-27A-93	PCB	2-4
BH-27-92	BH-27B-93	PCB	6-8
BH-28-92	BH-28A-93	PCB	2-4
BH-28-92	BH-28B-93	PCB	6-8
BH-29-92	BH-29A-93	PCB	2-4
BH-29-92	BH-29B-93	PCB	6-8
BH-30-92	BH-30A-93	PCB	2-4
BH-30-92	BH-30B-93	PCB	6-8
BH-31-92	BH-31A-93	TCL/TAL	2-4
BH-31-92	BH-31B-93	PCB	6-8
BH-32-92	BH-32A-93	PCB	2-4
BH-32-92	BH-32B-93	PCB	6-8
BH-33-92	BH-33A-93	PCB	2-4
BH-33-92	BH-33B-93	PCB	6-8
BH-34-92	BH-34A-93	PCB	2-4
BH-34-92	BH-34B-93	PCB	6-8
BH-35-92	BH-35A-93	PCB	2-4
BH-35-92	BH-35B-93	PCB	6-8
BH-35-92	SS-7-93	PCB	0-1
BH-36-92	BH-36A-93	PCB	2-4
BH-36-92	BH-36B-93	TCL/TAL	6-8
BH-36-92	SS-8-93	PCB	0-1
BH-37-92	BH-37A-93	PCB	2-4
BH-37-92	BH-37B-93	PCB	6-8

TABLE 5.1

SUMMARY OF SURFACE AND BOREHOLE SOIL SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Indentification*	*Chemcial Analysis*	*Sample Interval (ft BGS)*
BH-38-92	BH-38A-93	PCB	2-4
BH-38-92	BH-38B-93	PCB	6-8
BH-39-92	BH-39A-93	PCB	2-4
BH-39-92	BH-39B-93	PCB	6-8
BH-40-92	BH-40A-93	PCB	2-4
BH-40-92	BH-40B-93	PCB	6-8
BH-41-92	BH-41A-93	TCL/TAL	2-4
BH-41-92	BH-41B-93	PCB	6-8
BH-42-92	BH-42A-93	PCB	2-4
BH-42-92	BH-42B-93	PCB	6-8
BH-42-92	SS-9-93	PCB	0-1
BH-43-92	BH-43A-93	PCB	2-4
BH-43-92	BH-43B-93	PCB	6-8
BH-44-92	BH-44A-93	PCB	2-4
BH-44-92	BH-44B-93	PCB	6-8
BH-44-92	SS-10-93	PCB	0-1
BH-45-92	BH-45A-93	PCB	2-4
BH-45-92	BH-45B-93	PCB	6-8
BH-46-92	BH-46A-93	PCB	2-4
BH-46-92	BH-46B-93	TCL/TAL	6-8
BH-46-92	BH-46C-93	TCL/TAL	24-40
BH-46-92	BH-46D-93	TCL/TAL	83.5-88.5
BH-47-92	BH-47A-93	PCB/TAL	2-4
BH-47-92	BH-47B-93	PCB/TAL	6-8
BH-48-92	BH-48A-93	PCB/TAL	2-4
BH-48-92	BH-48B-93	PCB/TAL	6-8
BH-49-92	BH-49A-93	PCB/TAL	2-4
BH-49-92	BH-49B-93	PCB/TAL	6-8
BH-50-92	BH-50A-93	PCB/TAL	2-4
BH-50-92	BH-50B-93	PCB/TAL	6-8

TABLE 5.2

RANGE OF SURFACE AND BOREHOLE SOILS DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	*# Occurrences/Analyses*	*Range (mg/kg)*
PCB/PEST (106/17)		
4, 4' DDE	1/17	0.053
4,4' DDT	1/17	0.023
Aroclor-1254	42/106	0.041 - 230
Aroclor-1260	10/106	0.044 - 24
VOC (17)		
Acetone	10/17	0.012 - 2.2
Benzene	2/17	0.003
Bromomethane	1/17	0.50
2-Butanone	4/17	0.004 - 0.041
Carbon Disulfide	3/17	0.001 - 0.27
Chlorobenzene	1/17	0.003
Ethylbenzene	2/17	0.002
Methylene chloride	7/17	0.001 - 0.016
4-Methyle-2-pentanone	1/17	0.003
Toluene	1/17	0.026
Xylenes (total)	7/17	0.001 - 0.20
BNA (17)		
Acenaphthene	1/17	0.22
Anthracene	1/17	0.027
Benzo (a) anthracene	6/17	0.036 - 3.0
Benzo (b) fluoranthene	6/17	0.022 - 1.6
Benzo (g, h, i) perylene	3/17	0.038 - 0.11
Benzo (a) pyrene	3/17	0.055 - 0.41
Bis (2-ethylhexyle) phthatate	10/17	0.026 - 0.26
Butyl benzyl phthalate	1/17	1.2
Chrysene	6/17	0.019 - 1.9
Dibenz (a, b) anthracene	1/17	0.11
Dibenzofuran	1/17	0.12
Di-n-butyl phthalate	1/17	0.048
Fluoranthene	4/17	0.020 - 3.3
Flourene	2/17	0.044 - 0.27
Hexachlorobenzene	2/17	0.024 - 0.85
Hexachlorobutadiene	1/17	0.190

RANGE OF SURFACE AND BOREHOLE SOILS DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	*# Occurrences/Analyses*	*Range (mg/kg)*
BNA (17) Cont'd		
Indeno(1,2,3-cd)pyrene	1/17	0.070
2-Methylnaphthalene	6/17	0.047 - 2.1
Naphthalene	7/17	0.030 - 28
N-Nitrosodiphenylamine	1/17	0.031
Phenanthrene	10/17	0.020 - 8.1
Pyrene	6/17	0.028 - 2.8
INORGANICS (25)		
Aluminum	25/25	601 - 42500
Antimony	1/25	24
Arsenic	22/25	2.1 - 65
Barium	11/25	46 - 498
Beryllium	3/25	1.3 - 2.9
Cadmium	3/25	1.3 - 2.9
Calcium	23/25	1370 - 169000
Chromium	23/25	2.3 - 1750
Cobalt	3/25	16 - 70
Copper	24/25	5.2 - 1800
Iron	25/25	3770 - 604000
Lead	25/25	3.0 - 290
Magnesium	22/25	1560 - 16700
Manganese	25/25	77 - 4170
Mercury	1/25	0.19
Nickel	15/25	8.3 - 99
Potassium	4/25	1260 - 1790
Selenium	1/25	1.9
Silver	1/25	4.8
Vanadium	13/25	12 - 105
Zinc	25/25	12 - 448
Total Cyanide	5/25	0.24 - 1.3

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	Michigan
Date Analyzed		5/21/93	5/25/93	5/21/93	5/21/93	5/21/93	5/21/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	*CAS Number*							
Acetone	67-64-1	0.017 B(0.012)u	0.22(0.023)	0.012 (0.011)	0.11(0.012)	ND(0.011)	2.2(0.12)	7,800
Benzene	71-43-2	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	13
Bromomethane	74-83-9	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	110
2-Butanone	78-93-3	ND(0.012)	ND(0.023)	ND(0.011)	0.007 J(0.012)	0.003 JB(0.011)u	0.038 J(0.12)	3,600
Carbon Disulfide	75-15-0	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	8,600
Chlorobenzene	108-90-7	0.003 J(0.012)j	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	1,500
Ethylbenzene	100-41-4	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	7,500
Methylene chloride	75-09-2	ND(0.012)	0.005 J(0.023)u	0.002 JB(0.011)u	0.004 JB(0.012)u	0.002 J(0.011)	ND(0.12)	51
4-Methyl-2-pentanone	108-10-1	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	3,900
Toluene	108-88-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	17,000
1,1,1-Trichloroethane	71-55-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	2,200
Xylenes (total)	1330-20-7	0.005 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	140,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
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u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-11A-93	BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	
Sample Location		BH-11-93	BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-21-93	
Sample Interval (BGS)		2'-4'	2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/17/93	5/18/93	Michigan
Date Analyzed		5/21/93	6/6/93	5/25/93	5/26/93	5/22/93	5/26/93	Type B
Units		(mg/kg)	(mg/l) Rinsate	(mg/kg)	(mg/kg) Duplicate	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	*CAS Number*							
Acetone	67-64-1	**0.047 (0.011)**	**0.006 J(0.010)j**	**0.56(0.087)**	**6.2(2.1)**	**0.22(0.012)**	ND(1.4)	7,800
Benzene	71-43-2	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	13
Bromomethane	74-83-9	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	110
2-Butanone	78-93-3	**0.004 J(0.011)**	**0.003 JB(0.010)**	ND(0.087)	ND(2.1)	**0.005 JB(0.012)u**	**1.4 B(1.4)u**	3,600
Carbon Disulfide	75-15-0	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	**0.27 J(1.4)**	8,600
Chlorobenzene	108-90-7	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	1,500
Ethylbenzene	100-41-4	ND(0.011)	ND(0.010)uj	ND(0.087)	**0.46 J(2.1)**	ND(0.012)	ND(1.4)	7,500
Methylene chloride	75-09-2	**0.002 JB(0.011)u**	**0.004 JB(0.010)u**	ND(0.087)	ND(2.1)	**0.002 JB(0.012)**	ND(1.4)	51
4-Methyl-2-pentanone	108-10-1	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	3,900
Toluene	108-88-3	ND(0.011)	ND(0.010)uj	**0.026 J(0.087)**	ND(2.1)uj	ND(0.012)	ND(1.4)	17 000
1,1,1-Trichloroethane	71-55-6	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	2,200
Xylenes (total)	1330-20-7	ND(0.011)	ND(0.010)uj	ND(0.087)	ND(2.1)	ND(0.012)	**0.20 J(1.4)**	140,000

Notes:

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E Estimated value.

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-71A-93	BH-26B-93	BH-31A-93	BH-36B-93	BH-55B-93	BH-36R-93	
Sample Location		BH-21-93	BH-26-93	BH-31-93	BH-36-93	BH-36-93	BH-36-93	
Sample Interval (BGS)		2'-4'	6'-8'	2'-4'	6'-8'	6'-8'	6'-8'	
Date Sampled		5/18/93	5/16/93	5/14/93	5/13/93	5/13/93	5/14/93	Michigan
Date Analyzed		5/26/93	5/21/93	5/21/93	5/20/93	5/20/93	6/6/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)	(mg/kg)
		Duplicate				Duplicate	Rinsate	
Parameter	*CAS Number*							
Acetone	67-64-1	1.7(1.4)	0.072 (0.011)	0.85 B(0.055)	0.015(0.012)	0.031(0.012)	0.005 J(0.010)j	7,800
Benzene	71-43-2	ND(1.4)	ND(0.011)	ND(0.055)	0.003 J(0.012)	0.003 J(0.012)	ND(0.010)uj	13
Bromomethane	74-83-9	0.50 JB(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	110
2 Butanone	78-93-3	0.23 J(1.4)u	0.002 JB(0.011)u	0.011 JB(0.055)u	0.041 (0.012)	0.004 J(0.012)	0.003 JB(0.010)u	3,600
Carbon Disulfide	75-15-0	ND(1.4)	ND(0.011)	ND(0.055)	0.001 J(0.012)	ND(0.012)	ND(0.010)uj	8,600
Chlorobenzene	108-90-7	ND(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	1,500
Ethylbenzene	100-41-4	ND(1.4)	ND(0.011)	ND(0.055)	0.002 J(0.012)	0.002 J(0.012)	ND(0.010)uj	7,500
Methylene chloride	75-09-2	0.21 J(1.4)	0.004 J(0.011)	0.016 J(0.055)	0.005 JB(0.012)u	0.005 JB(0.012)u	0.004 JB(0.010)u	51
4 Methyl 2 pentanone	108-10-1	ND(1.4)	ND(0.011)	ND(0.055)	0.003 J(0.012)	ND(0.012)	ND(0.010)uj	3,900
Toluene	108-88-3	0.46 J(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	17,000
1,1,1-Trichloroethane	71-55-6	ND(1.4)	ND(0.011)	ND(0.055)	ND(0.012)	ND(0.012)	0.001 J(0.010)j	2,200
Xylenes (total)	1330-20-7	0.20 J(1.4)	0.001 J(0.011)	ND(0.055)	0.004 J(0.012)	0.004 J(0.012)	ND(0.010)uj	140,000

Notes:

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u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED VOCs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-41A-93	BH-46B-93	BH-46C-93	BH-46D-93	DW-1-93	
Sample Location		BH-41-93	BH-46-93	BH-46-93	BH-46-93	WATER TRUCK	
Sample Interval (BGS)		2'-4'	6'-8'	24'-40'	83.5'-88.5'	-	
Date Sampled		5/12/93	5/12/93	5/15/93	5/15/93	5/18/93	Michigan
Date Analyzed		5/21/93	5/21/93	5/21/93	5/21/93	6/6/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)	(mg/kg)
Parameter	*CAS Number*						
Acetone	67-64-1	ND(0.011)	ND(0.011)	**0.014 B(0.012)u**	**0.014 B(0.012)u**	**0.003 J(0.010)**	7,800
Benzene	71-43-2	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)uj	13
Bromomethane	74-83-9	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	110
2-Butanone	78-93-3	**0.003 JB(0.011)u**	ND(0.011)	**0.004 JB(0.012)u**	**0.002 JB(0.012)u**	**0.002 JB(0.010)**	3,600
Carbon Disulfide	75-15-0	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	8,600
Chlorobenzene	108-90-7	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	1,500
Ethylbenzene	100-41-4	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	7,500
Methylene chloride	75-09-2	**0.001 J(0.011)**	**0.001 J(0.011)**	**0.004 J(0.012)**	**0.005 J(0.012)**	**0.004 JB(0.010)**	51
4-Methyl-2-pentanone	108-10-1	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	3,900
Toluene	108-88-3	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	17,000
1,1,1-Trichloroethane	71-55-6	ND(0.011)	ND(0.011)	ND(0.012)	ND(0.012)	ND(0.010)	2,200
Xylenes (total)	1330-20-7	ND(0.011)	ND(0.011)	ND(0.012)	**0.001 J(0.012)**	ND(0.010)	140,000

Notes:

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u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

TABLE 5.4

SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93	
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	Michigan
Date Analyzed		6/2/93	6/6/93	6/6/93	6/6/93	6/2/93	6/4/93	6/4/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.22 J(0.410)	ND(0.330)	45,000
Acenaphthylene	208-96-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	930
Anthracene	120-12-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	260,000
Benzo(a)anthracene	56-55-3	3.0 J(12)	ND(0.780)	0.036 J(0.350)	ND(0.380)	ND(0.370)	0.55(0.410)	ND(0.330)	0.18
Benzo(b)fluoranthene	205-99-2	1.6 J(12)	ND(0.780)	0.022 J(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.022 J(0.330)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	930
Benzo(a)pyrene	50-32-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.41(0.410)	ND(0.330)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	ND(12)	0.14 J(0.780)	0.21 J(0.350)	ND(0.380)	0.26 J(0.370)	0.11 J(0.410)	0.035 J(0.330)	92
Butyl benzyl phthalate	85-68-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	41,000
Chrysene	218-01-9	1.9 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	0.18
Dibenzofuran	132-64-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.12 J(0.410)	ND(0.330)	NA
Di-n-butyl phthalate	84-74-2	ND(12)	0.061 JB(0.780)u	0.035 JB(0.350)u	0.030 JB (0.380)u	ND(0.370)	ND(0.410)	0.085 J(0.330)u	8,100
Fluoranthene	206-44-0	3.3 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	31,000
Fluorene	86-73-7	1.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.044 J(0.370)	0.27 J(0.410)	ND(0.330)	31,000
Hexachlorobenzene	118-74-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.024 J(0.360)	0.8
Hexachlorobutadiene	87-68-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.19 J(0.410)	ND(0.360)	17
2-Methylnaphthalene	91-57-6	2.1 J(12)	0.078 J(0.780)	0.14 J(0.350)	ND(0.380)	ND(0.370)	0.060 J(0.410)	ND(0.360)	410
Naphthalene	91-20-3	1.2 J(12)	0.16 J(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.055 J(0.410)	ND(0.360)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.031 J(0.370)	ND(0.410)	ND(0.360)	78
Phenanthrene	85-01-8	8.1 J(12)	0.080 J(0.780)	0.10 J(0.350)	0.022 J(0.380)	0.018 J(0.370)	1.3(0.410)	ND(0.360)	930
Pyrene	129-00-0	2.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.9(0.410)	0.028 J(0.360)	19,000

Notes:

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u Non-detect, with the associated value becoming the quantitation limit.
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E Estimated value.

SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	BH-71A-93	BH-26B-93	
Sample Location		BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-21-93	BH-21-93	BH-26-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	6'-8'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/17/93	5/18/93	5/18/93	5/16/93	Michigan
Date Analyzed		6/4/93	6/4/93	6/4/93	6/6/93	6/6/93	6/6/93	6/2/93	Type B
Units		(mg/l)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		Rinsate		Duplicate			Duplicate		
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(0.010)	ND(0.570)	**0.031 J(0.570)**	ND(0.380)	ND(200)	ND(190)	ND(11)	45,000
Acenaphthylene	208-96-8	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	930
Anthracene	120-12-7	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	260,000
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.570)	ND(0.570)	**0.090 J(0.380)**	ND(200)	ND(190)	ND(11)	0.18
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.570)	ND(0.570)	**0.22 J(0.380)**	ND(200)	ND(190)	ND(11)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.570)	ND(0.570)	**0.080 J(0.380)**	ND(200)	ND(190)	ND(11)	930
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.570)	ND(0.570)	**0.10 J(0.380)**	ND(200)	ND(190)	ND(11)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	0.002 JB(0.010)u	ND(0.570)	0.16 J(0.570)	**0.050 J(0.380)**	ND(200)	ND(190)	**1.5 JB(11)u**	92
Butyl benzyl phthalate	85-68-7	ND(0.010)	ND(0.570)	**0.055 J(0.570)**	ND(0.380)	ND(200)	ND(190)	ND(11)	41,000
Chrysene	218-01-9	ND(0.010)	ND(0.570)	ND(0.570)	**0.15 J(0.380)**	ND(200)	ND(190)	ND(11)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	0.18
Dibenzofuran	132-64-9	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	NA
Di-n butyl phthalate	84-74-2	**0.001 JB(0.010)u**	ND(0.570)	**0.050 JB(0.570)u**	**0.048 J(0.380)**	ND(200)	ND(190)	ND(11)	3,100
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.570)	**0.070 J(0.570)**	ND(0.380)	ND(200)	ND(190)	ND(11)	4,700
Fluoranthene	206-44-0	ND(0.010)	ND(0.570)	ND(0.570)	**0.17 J(0.380)**	ND(200)	ND(190)	ND(11)	31,000
Fluorene	86-73-7	ND(0.010)	ND(0.570)	**0.22 J(0.570)**	ND(0.380)	ND(200)	ND(190)	ND(11)	31,000
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	0.8
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	17
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.570)	ND(0.570)	**0.070 J(0.380)**	ND(200)	ND(190)	ND(11)	0.18
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.570)	**0.012 J(0.570)**	ND(0.380)	ND(470)	ND(470)	ND(11)	410
Naphthalene	91-20-3	ND(0.010)	**0.20 J(0.570)**	**0.055 J(0.570)**	ND(0.380)	**28 J(470)**	**105 J(470)**	ND(11)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	78
Phenanthrene	85-01-8	ND(0.050)	ND(0.570)	**0.080 J(0.570)**	**0.065 J(0.380)**	ND(200)	**38 J(190)**	ND(11)	930
Pyrene	129-00-0	ND(0.010)	ND(0.570)	ND(0.570)	**0.23 J(0.380)**	ND(200)	ND(190)	ND(11)	19,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-31A-93	BH-36B-93	BH-55B-93	BH-36R-93	BH-41A-93	BH-46B-93	BH-46C-93	
Sample Location		BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93	BH-46-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8"	24'-40'	
Date Sampled		5/14/93	5/13/93	5/13/93	5/13/93	5/12/93	5/12/93	5/15/93	Michigan
Date Analyzed		6/2/93	6/2/93	6/2/93	6/11/93	6/2/93	6/2/93	6/2/93	Type B
Units		(mg/kg)	(mg/kg)	(mg/kg) Duplicate	(mg/l) Rinsate	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(0.360)	ND(0.410)	0.090 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	45,000
Acenaphthylene	208-96-8	ND(0.360)	ND(0.410)	0.028 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	930
Anthracene	120-12-7	ND(0.360)	0.027 J(0.410)	0.024 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	240,000
Benzo(a)anthracene	56-55-3	0.080 J(0.360)	0.12 J(0.410)	1.4(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Benzo(b)fluoranthene	205-99-2	0.048 J(0.360)	ND(0.410)	1.4(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(0.360)	0.038 J(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	930
Benzo(a)pyrene	50-32-8	ND(0.360)	0.055 J(0.410)	0.65(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	ND(0.360)	ND(0.410)	0.031 J(0.410)	ND(0.010)	0.026 J(0.360)	0.032 J(0.370)	0.035 J(0.380)	92
Butyl benzyl phthalate	85-68-7	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	41,000
Chrysene	218-01-9	0.055 J(0.360)	0.085 J(0.410)	0.80(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Dibenz(a,h)anthracene	53-70-3	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.18
Dibenzofuran	132-64-9	ND(0.360)	ND(0.410)	0.050 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	NA
Di-n-butyl phthalate	84-74-2	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	8,100
Fluoranthene	206-44-0	0.12 J(0.360)	0.020 J(0.410)	1.8(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	31,000
Fluorene	86-73-7	ND(0.360)	ND(0.410)	0.085 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	31,000
Hexachlorobenzene	118-74-1	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	0.8
Hexachlorobutadiene	87-68-3	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	17
2-Methylnaphthalene	91-57-6	0.042 J(0.360)	0.047 J(0.410)	0.050 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	410
Naphthalene	91-20-3	0.032 J(0.360)	0.030 J(0.410)	0.042 J(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	9,700
N-Nitrosodiphenylamine	86-30-6	ND(0.360)	ND(0.410)	ND(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	78
Phenanthrene	85-01-8	0.037 J(0.360)	0.13 J(0.410)	1.1(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	0.020 J(0.380)	930
Pyrene	129-00-0	0.15 J(0.360)	0.19 J(0.410)	1.1(0.410)	ND(0.010)	ND(0.360)	ND(0.370)	ND(0.380)	19,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED BNAs IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		**BH-46D-93**	
Sample Location		**BH-46-93**	
Sample Interval (BGS)		**83.5'-88.5'**	
Date Sampled		**5/15/93**	**Michigan**
Date Analyzed		**6/2/93**	**Type B**
Units		**(mg/kg)**	**(mg/kg)**
Base/Neutral Compounds	**CAS Number**		
Acenaphthene	83-32-9	ND(0.390)	45,000
Acenaphthylene	208-96-8	ND(0.390)	930
Anthracene	120-12-7	ND(0.390)	260,000
Benzo(a)anthracene	56-55-3	ND(0.390)	0.18
Benzo(b)fluoranthene	205-99-2	ND(0.390)	0.18
Benzo(g,h,i)perylene	191-24-2	ND(0.390)	930
Benzo(a)pyrene	50-32-8	ND(0.390)	0.18
Bis(2-ethylhexyl)phthalate	117-81-7	**0.027 J(0.390)**	92
Butyl benzyl phthalate	85-68-7	ND(0.390)	41,000
Chrysene	218-01-9	**0.019 J(0.390)**	0.18
Dibenz(a,h)anthracene	53-70-3	ND(0.390)	0.18
Dibenzofuran	132-64-9	ND(0.390)	NA
Di-n-butyl phthalate	84-74-2	ND(0.390)	3,100
Fluorene	86-73-7	ND(0.390)	31,000
Hexachlorobenzene	118-74-1	ND(0.390)	0.8
Hexachlorobutadiene	87-68-3	ND(0.390)	17
2-Methylnaphthalene	91-57-6	ND(0.390)	410
Naphthalene	91-20-3	ND(0.390)	9,300
N-Nitrosodiphenylamine	86-30-6	ND(0.390)	78
Phenanthrene	85-01-8	**0.030 J(0.390)**	930
Pyrene	129-00-0	ND(0.390)	19,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-1A-93	BH-1B-93	SS-1-93	BH-2A-93	BH-2B-93	BH-2C-93	
Sample Location		BH-1-93	BH-1-93	BH-1-93	BH-2-93	BH-2-93	BH-2-93	
Sample Interval (BGS)		2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	27.5'-29.5'	
Date Sampled		5/17/93	5/17/93	5/18/93	5/11/93	5/11/93	5/17/93	Michigan
Date Analyzed		6/10/93	6/9/93	6/10/93	5/27/93	5/26/93	6/7/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor 1254	11097-69-1	ND(3300)	ND(670)	88(33)	30000(3300)	6500(200)	ND(38)uj	1,000
Aroclor 1260	11096-82-5	24000 (3300)	2500(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	1,000

Sample ID		BH-2D-93	SS-2-93	BH-3A-93	BH-3B-93	BH-4A-93	BH-4B-93	
Sample Location		BH-2-93	BH-2-93	BH-3-93	BH-3-93	BH-4-93	BH-4-93	
Sample Interval (BGS)		70'-72'	0'-1'	2'-4'	6-8'	2'-4'	6-8'	
Date Sampled		5/17/93	5/18/93	5/17/93	5/17/93	5/17/93	5/17/93	Michigan
Date Analyzed		6/7/93	6/8/93	6/9/93	6/9/93	6/9/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(35)uj	120(67)	ND(33)	ND(33)	ND(33)	12000(1700)	1,000
Aroclor-1260	11096-82-5	ND(35)uj	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-5A-93	BH-5B-93	BH-60C-93	BH-5D-93	BH-5R-93	BH-6A-93	
Sample Location		BH-5-93	BH-5-93	BH-5-93	BH-5-93	BH-5B-93	BH-6-93	
Sample Interval (BGS)		2'-4'	6-8'	21'-23.5'	6-8'	6-8'	2'-4'	
Date Sampled		5/13/93	5/13/93	5/17/93	5/16/93	5/13/93	5/17/93	Michigan
Date Analyzed		6/3/93	6/3/93	6/7/93	5/26/93	5/26/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	1,000

Sample ID		BH-6B-93	SS-3-93	BH-7A-93	BH-7B-93	SS-4-93	BH-8A-93	
Sample Location		BH-6-93	BH-6-93	BH-7-93	BH-7-93	BH-7-93	BH-8-93	
Sample Interval (BGS)		6-8'	0'-1'	2'-4'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/17/93	5/18/93	5/17/93	5/17/93	5/18/93	5/17/93	Michigan
Date Analyzed		6/7/93	6/8/93	6/10/93	6/9/93	6/8/93	6/9/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	**45(41)j**	ND(33)	**270(33)**	**7300(1700)**	**41(33)**	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(41)uj	ND(33)	**160(33)**	ND(1700)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-8B-93	BH-9A-93	BH-9B-93	BH-10A-93	BH-10B-93	BH-11A-93	
Sample Location		BH-8-93	BH-9-93	BH-9-93	BH-10-93	BH-10-93	BH-11-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/17/93	5/17/93	5/17/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/9/93	6/9/93	6/9/93	6/9/93	6/6/93	6/7/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	170(33)	870(170)	ND(33)	1300(170)	3500(2500)	ND(36)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(170)	ND(33)	ND(170)	ND(2500)	ND(36)	1,000

Sample ID		BH-11B-93	BH-11R-93	BH-12A-93	BH-12B-93	BH-13A-93	BH-13B-93	
Sample Location		BH-11-93	BH-11A-93	BH-12-93	BH-12-93	BH-13-93	BH-13-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6-8'	2'-4'	6-8'	
Date Sampled		5/18/93	5/18/93	5/17/93	5/17/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/6/93	6/7/93	6/9/93	6/7/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(1.0)	81(33)	1500(330)	33000(3300)	29000(3300)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)	ND(3300)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-14A-93	BH-14B-93	SS-5-93	BH-15A-93	BH-15B-93	BH-16A-93	
Sample Location		BH-14-93	BH-14-93	BH-14-93	BH-15-93	BH-15-93	BH-14-93	
Sample Interval (BGS)		2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/10/93	6/8/93	6/8/93	6/8/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	920(330)	320(33)	190(67)	42(33)	40000(3300)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)	1,000

Sample ID		BH-16B-93	BH-72B-93	BH-17A-93	BH-17B-93	SS-6-93*	BH-18A-93	
Sample Location		BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-17-93	BH-18-93	
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	0'-1'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/14/93	5/14/93	5/18/93	5/16/93	Michigan
Date Analyzed		6/7/93	6/7/93	6/4/93	6/6/93	6/7/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	19000(2800)	3600(570)j	ND(33)	ND(33)	ND(38)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

* 4,4' DDE @ 53(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
4,4' DDT @ 23(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-18B-93	BH-19A-93	BH-19B-93	BH-20A-93	BH-20B-93	BH-70B-93	
Sample Location		BH-18-93	BH-19-93	BH-19-93	BH-20-93	BH-20-93	BH-20-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	6'-8'	
Date Sampled		5/16/93	5/17/93	5/17/93	5/18/93	5/18/93	5/18/93	
Date Analyzed		6/5/93	6/9/93	6/9/93	6/8/93	6/8/93	6/8/93	Michigan
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	Type B (µg/kg)
Parameter	**CAS Number**							
Aroclor 1254	11097-69-1	ND(170)	ND(33)	730(170)	76,000(3300)	4200(670)	1000(330)	1,000
Aroclor 1260	11096-82-5	510(170)	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	1,000

Sample ID		BH-21A-93	BH-71A-93	BH-21B-93	BH-55B-93	BH-22A-93	BH-22B-93	
Sample Location		BH-21-93	BH-21-93	BH-21-93	BH-21-93	BH-22-93	BH-22-93	
Sample Interval (BGS)		2'-4'	2'-4'	6'-8'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/7/93	6/7/93	6/10/93	6/10/93	6/8/93	6/8/93	Type B
Units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	230,000(3900)	44,000(3800)	230,000(17000)	310,000(17000)	55,000(3300)	49,000(3300)	1,000
Aroclor-1260	11096-82-5	ND(3900)	ND(3800)	ND(17000)	ND(17000)	ND(3300)	ND(3300)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-56B-93	BH-23A-93	BH-23B-93	BH-57B-93	BH-24A-93	BH-58A-93	
Sample Location		BH-22-93	BH-23-93	BH-23-93	BH-23-93	BH-24-93	BH-24-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	6'-8'	2'-4'	2'-4'	
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/8/93	6/8/93	6/8/93	6/8/93	6/8/93	6/10/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
		Duplicate			Duplicate		Duplicate	
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	50,000(3300)	76,000(3300)	79,000(3300)	69,000(3300)	16,000(3300)	130,000(17000)	1,000
Aroclor-1260	11096-82-5	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(17000)	1,000

Sample ID		BH-24B-93	BH-25A-93	BH-25B-93	BH-26A-93	BH-26B-93	BH-27A-93	
Sample Location		BH-24-93	BH-25-93	BH-25-93	BH-26-93	BH-26-93	BH-27-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/18/93	5/16/93	5/16/93	5/16/93	5/16/93	5/16/93	Michigan
Date Analyzed		6/8/93	6/5/93	6/5/93	6/5/93	5/26/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	4300(170)	ND(33)	ND(33)	ND(33)	ND(37)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(170)	ND(33)	ND(33)	ND(33)	ND(37)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-27B-93	BH-28A-93	BH-28B-93	BH-29A-93	BH-29B-93	BH-30A-93	
Sample Location		BH-27-93	BH-28-93	BH-28-93	BH-29-93	BH-29-93	BH-30-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/16/93	5/16/93	5/16/93	5/14/93	5/14/93	5/14/93	Michigan
Date Analyzed		6/8/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor 1254	11097-69-1	130(33)	6300(1700)	ND(33)	6500 E(1700)	1600 E(330)	1000(170)	1,000
Aroclor 1260	11096-82-5	ND(33)	ND(1700)	ND(33)	8000(1700)	2200(330)	ND(170)	1,000

Sample ID		BH-30B-93	BH-31A-93	BH-31B-93	BH-32A-93	BH-32B-93	BH-33A-93	
Sample Location		BH-30-93	BH-31-93	BH-31-93	BH-32-93	BH-32-93	BH-33-93	
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	Michigan
Date Analyzed		6/5/93	5/26/93	6/5/93	6/6/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	6000(330)	ND(36)	470(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(330)	ND(36)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-33B-93	BH-34A-93	BH-34B-93	BH-34R-93	BH-35A-93	BH-35R-93	
Sample Location		BH-33-93	BH-34-93	BH-34-93	BH-34A-93	BH-35-93	BH-35A-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	2'-4'	2'-4'	2'-4'	
Date Sampled		5/14/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/5/93	6/3/93	6/3/93	5/26/93	6/3/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Rinsate	(µg/kg)	(µg/kg) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	1,000

Sample ID		BH-35B-93	SS-7-93	BH-36A-93	BH-36B-93	BH-55B-93*	BH-36R-93	
Sample Location		BH-35-93	BH-35-93	BH-36-93	BH-36-93	BH-36-93	BH-36B-93	
Sample Interval (BGS)		6'-8'	0'-1'	2'-4'	6'-8'	6'-8'	6'-8'	
Date Sampled		5/13/93	5/18/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/3/93	6/8/93	5/3/93	5/26/93	5/26/93	6/11/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/l) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	**320(33)**	ND(41)uj	ND(41)uj	ND(1.0)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

* 4,4' DDE @ 53(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).
4,4' DDT @ 23(3.8) µg/kg (Michigan Type B is 3,800 µg/kg).

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-8-93	BH-37A-93	BH-37B-93	BH-37R-93	BH-38A-93	BH-38R-93	
Sample Location		BH-36-93	BH-37-93	BH-37-93	BH-37B-93	BH-38-93	BH-38A-93	
Sample Interval (BGS)		0'-1'	2'-4'	6'-8'	6'-8'	2'-4'	2'-4'	
Date Sampled		5/18/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	Michigan
Date Analyzed		6/9/93	6/3/93	6/3/93	5/27/93	6/3/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/l) Rinsate	(µg/kg)	(µg/l) Rinsate	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(1.0)uj	44(33)	ND(1.0)	1,000

Sample ID		BH-38B-93	BH-39A-93	BH-51A-93	BH-39B-93	BH-40A-93	BH-40B-93	
Sample Location		BH-38-93	BH-39-93	BH-39-93	BH-39-93	BH-40-93	BH-40-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/13/93	5/12/93	5/11/93	5/12/93	5/12/93	5/12/93	Michigan
Date Analyzed		6/3/93	5/27/93	6/3/93	6/3/93	5/28/93	5/28/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	680(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	110(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-41A-93	BH-41B-93	BH-52B-93	SS-9-93	BH-42A-93	BH-53A-93	
Sample Location		BH-41-93	BH-41-93	BH-41-93	BH-42-93	BH-42-93	BH-42-93	
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	
Date Sampled		5/12/93	5/12/93	5/12/93	5/18/93	5/12/93	5/12/93	Michigan
Date Analyzed		5/26/93	6/3/93	5/28/93	6/9/93	5/27/93	5/27/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
				Duplicate			Duplicate	
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(35)	ND(33)	ND(33)uj	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(35)	ND(33)	ND(33)uj	280(33)	ND(33)	ND(33)	1,000

Sample ID		BH-42B-93	BH-43A-93	BH-54A-93	BH-43B-93	BH-44A-93	BH-44B-93	
Sample Location		BH-42-93	BH-43-93	BH-43-93	BH-43-93	BH-44-93	BH-44-93	
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'	
Date Sampled		5/12/93	5/11/93	5/11/93	5/11/93	5/11/93	5/11/93	Michigan
Date Analyzed		5/27/93	5/28/93	5/28/93	5/27/93	5/28/93	5/28/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
				Duplicate				
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-10-93	BH-45A-93	BH-45B-93	BH-46A-93	BH-46B-93	BH-46C-93	
Sample Location		BH-44-93	BH-45-93	BH-45-93	BH-46-93	BH-46-93	BH-46-93	
Sample Interval (BGS)		0'-1'	2'-4'	6'-8'	2'-4'	6'-8'	24' - 40'	
Date Sampled		5/18/93	5/15/93	5/15/93	5/12/93	5/12/93	5/15/93	Michigan
Date Analyzed		6/11/93	6/5/93	6/5/93	5/27/93	5/26/93	5/26/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor 1254	11097 69 1	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj	1,000
Aroclor 1260	11096 82 5	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj	1,000

Sample ID		BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93	
Sample Location		BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93	
Sample Interval (BGS)		83.5' - 88.5'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	
Date Sampled		5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/14/93	Michigan
Date Analyzed		5/26/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aroclor-1254	11097-69-1	ND(39)uj	ND(33)uj	ND(33)	ND(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(39)uj	ND(33)uj	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED PCBs/PESTICIDES IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-56A-93	BH-49B-93	BH-50A-93	BH-59A-93	BH-50B-93	
Sample Location		BH-49-93	BH-49-93	BH-50-93	BH-50-93	BH-50-93	
Sample Interval (BGS)		2'-4'	6'-8'	2'-4'	2'-4'	6'-8'	
Date Sampled		5/14/93	5/14/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed		6/5/93	6/5/93	6/10/93	6/10/93	6/10/93	Type B
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
		Duplicate			Duplicate		
Parameter	CAS Number						
Aroclor-1254	11097-69-1	ND(33)	ND(33)	49(33)	ND(33)	ND(33)	1,000
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	1,000

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

TABLE 5.6

ESTIMATED VOLUME OF PCB CONTAMINATED FILL/SOIL
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Area (1)		*Volume (CY)*		
		10-25 ppm	*25-50 ppm*	*50+ ppm*
A		670	–	–
B		–	540	–
C		670	–	–
D		1270	2620	1150
	Total	2610	3160	1150 CY
		3160	1150	(Above 50 ppm)
		1150		
		6920 CY	4310 CY	
		(Above 10 ppm)	(Above 25 ppm)	

Notes:

CY - represents cubic yards.
(1) Areas are delineated on Figures 5.3 and 5.4.

TABLE 5.7

BACKGROUND INORGANICS CONCENTRATIONS
FOR SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter		*Range (1)*			*Michigan Type A (3)*
		Minimum (mg/kg)	*Maximum (mg/kg)*	*Mean (2) (mg/kg)*	*(mg/kg)*
Aluminum	10	1,600	8,290	10,133.40	6,900
Antimony	10	ND (13)	ND (14)	7.53	NA (4)
Arsenic	10	ND (2)	6.6	8.90	5.8
Barium	10	ND (40)	58	58	75
Beryllium	10	ND (1.1)	ND (1.2)	0.65	NA (4)
Cadmium	10	ND (1.1)	ND (1.2)	0.65	1.2
Calcium	10	7,200	118,000	159,790.6	NA (4)
Chromium	10	3.4	12	17.04	18
Cobalt	10	ND (10)	ND (10)	5	6.8
Copper	10	2.5	24	27.39	32
Iron	10	3,200	18,300	20,522	12,000
Lead	10	4.1	13	16.74	21
Magnesium	10	3,470	18,200	25,397	NA
Manganese	10	77	430	567.8	NA
Mercury	10	ND (0.1)	ND (0.12)	0.07	0.13
Nickel	10	ND (8)	23	24.97	20
Potassium	10	ND (1,000)	1,790	1,790	NA
Selenium	10	ND 1.1)	ND (2.2)	0.65	0.41
Silver	10	ND (2.2)	ND (2.4)	1.23	1.0
Sodium	10	ND (1,000)	ND (1,000)	500	NA
Thallium	10	ND (2)	ND (2)	1	NA
Vanadium	10	ND (10)	19	25.95	NA
Zinc	10	13	63	72.8	47
Cyanide	10	ND (.20)	ND (.23)	0.12	NA

Notes:

(1) Taken from samples from BH-46, 47, 48, 49.
(2) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993).
(3) MERA Operation Memorandum #15: Default Type A Cleanup Criteria (September 30, 1993).
(4) Not Available.
ND Analyte not detected.
( ) Quantitation limit.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93	
Sample Location	BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	
Sample Interval (BGS)	6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	
Date Sampled	5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	Michigan
Date Analyzed	5/24 - 6/10/93	6/3 - 6/14/93	6/2 - 6/14/93	6/3 - 6/16/93	5/26 - 6/15/93	6/4 - 6/14/93	6/3 - 6/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	42500(48)	7550(47)	601(43)	5620(46)	1840(45)	6200(50)	1240(44)	NA
Antimony	ND(15)r	ND(14)r	ND(13)r	ND(14)r	ND(14)r	ND(15)r	ND(13)r	91
Arsenic	15(2.0)j	8.9(2.0)j	5.8(2.0)j	7.5(2.0)j	6.2(2.0)j	16(2.0)j	5.6(2.0)j	BKGRD
Barium	235(60)	55(60)	ND(40)	50(60)	ND(40)	108(40)	ND(40)	91,000
Beryllium	1.7(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	NA
Cadmium	1.4(1.0)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	130
Calcium	64300(1000)j	74600(1000)	169000(1000)	76900(1000)	91000(1000)j	63100(1000)	28100(1000)	NA
Chromium	86(2.4)j	11(2.3)	ND(2.1)	9.4(2.3)	7.5(2.3)j	ND(2.5)	4.9(2.2)	4,300
Cobalt	ND(10)	32(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	495(5.0)j	38(5.0)	15(5.0)	18(5.0)	18(5.0)j	21(5.0)	8.3(5.0)	9,800
Iron	61900(20)	18500(20)	6420(20)	12600(20)	9050(20)	11100(20)	4860(20)	NA
Lead	166(9.7)j	13(1.2)j	8.2(0.6)j	13(1.2)Jj	7.7(0.6)	55(2.5)j	12(1.1)j	400
Magnesium	13000(1000)	16100(1000)	16700(1000)	12800(1000)	13000(1000)	13800(1000)	3670(1000)	NA
Manganese	1180(3.0)j	353(3.0)j	391(3.0)j	336(3.0)j	222(3.0)j	412(3.0)Jj	378(3.0)j	6,200
Mercury	0.19(0.1)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)	78
Nickel	68(8.0)	41(8.0)	ND(8.0)	14(8.0)	10(8.0)	12(8.0)	ND(8.0)	20,000
Potassium	ND(1000)	1320(1000)	ND(1000)	1260(1000)	ND(1000)	1270(1000)	ND(1000)	NA
Selenium	ND(1.2)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)uj	ND(1.2)	ND(1.1)	1,300
Silver	ND(2.4)	ND(2.3)	ND(2.1)	ND(2.3)	ND(2.3)	ND(2.5)	ND(2.2)	1,200
Vanadium	20(10)	13(10)	ND(10)	12(10)	ND(10)	17(10)	ND(10)	NA
Zinc	346(4.8)	64(4.7)	13(4.3)	37(4.6)	58(4.5)	61(5.0)	15(4.4)	86,000
Total Cyanide	1.3(.20)	ND(2.0)uj	ND(0.20)uj	ND(0.20)r	ND(0.20)uj	ND(0.20)uj	ND(0.20)uj	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	SS-6R-93	BH-21A-93	BH-71A-93	
Sample Location	BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-21-93	BH-21-93	
Sample Interval (BGS)	2'-4'	6'-8'	6'-8'	0'-1'	0'-1'	2'-4'	2'-4'	
Date Sampled	5/18/93	5/18/93	5/18/93	5/17/93	5/17/93	5/18/93	5/18/93	Michigan
Date Analyzed	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93	Type B
Units	(mg/L)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/L)	(mg/Kg)	(mg/Kg)	(mg/kg)
	Rinsate		Duplicate		Rinsate		Duplicate	
Parameter								
Aluminum	ND(0.200)	9310(69)	3040(69)	4090(46)	ND(0.200)	27800(47)	27500(47)	NA
Antimony	ND(0.060)	ND(21)r	ND(21)r	ND(14)r	ND(0.060)	24(14)j	14(14)j	91
Arsenic	ND(0.010)	29(8.7)j	19(8.6)j	20(5.8)j	ND(0.010)	65(5.9)j	37(5.8)j	BKGRD
Barium	ND(0.200)	498(40)	410(40)	51(40)	ND(0.200)	46(40)	83(40)	91,000
Beryllium	ND(0.005)	2.9(1.7)	2.7(1.7)	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)	NA
Cadmium	ND(0.005)	1.3 J(1.7)	ND(1.7)	ND(1.2)	ND(0.005)	2.9(1.2)	2.5(1.2)	130
Calcium	ND(5.000)	2140(1000)	1370(1000)	8410(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Chromium	ND(0.010)	193(3.5)	32(3.5)	7.4(2.3)	ND(0.010)	1750(2.4)	1240(2.3)	4,400
Cobalt	ND(0.050)	16(10)	ND(10)	ND(10)	ND(0.050)	70(10)	61(10)	NA
Copper	ND(0.025)	671(6.9)	72(6.9)	17(6.9)	ND(0.025)	1800(5.0)	1570(5.0)	9,800
Iron	ND(0.100)	101000(20)	19500(20)	6900(20)	ND(0.100)	604000(47)	489000(47)	NA
Lead	ND(0.003)	31(1.7)j	16(1.7)j	139(12)j	ND(0.003)	74(4.7)j	64(4.7)j	400
Magnesium	ND(5.000)	ND(1000)	ND(1000)	2350(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Manganese	ND(0.015)	818(3.0)j	148(3.0)j	665(3.0)j	ND(0.015)	4170(12)j	3080(12)j	6,200
Mercury	ND(0.0002)	ND(0.17)	ND(0.17)	ND(0.12)	ND(0.0002)	ND(0.12)	ND(0.12)	78
Nickel	ND(0.040)	99(8.0)	19(8.0)	ND(8.0)	ND(0.040)	443(47)	288(47)	20,000
Potassium	ND(5.000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Selenium	ND(0.005)	1.9(1.7)	ND(1.7)	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)	1,300
Silver	ND(0.010)	ND(3.5)	ND(3.5)	ND(2.3)	ND(0.010)	4.8(2.4)	2.6(2.3)	1,200
Vanadium	ND(0.050)	26(10)	20(10)	ND(10)	ND(0.050)	105(10)	88(10)	NA
Zinc	ND(0.020)	82(6.9)	16(6.9)	46(4.6)	ND(0.020)	448(47)	412(47)	86,000
Total Cyanide	NA	0.56(0.20)j	ND(0.20)uj	0.24(0.20)j	NA	1.2(0.50)j	14(10)j	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-26B-93	BH-31A-93	BH-36B-93	BH-35B-93	BH-36R-93	BH-41A-93	BH46B-93	
Sample Location	BH-26-93	BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93	
Sample Interval (BGS)	6'-8'	2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8'	
Date Sampled	5/16/93	5/14/93	5/13/93	5/13/93	5/13/93	5/12/93	5/12/93	Michigan
Date Analyzed	5/26 - 6/10/93	5/26 - 6/17/93	5/26 - 6/17/93	5/19 - 6/10/93	5/24-6/16/93	5/24-6/16/93	5/24-6/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg) Rinsate	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	6600(46)	6690(44)	5910(50)	6720(50)	ND(0.200)	5110(43)	5020(45)	NA
Antimony	ND(14)r	ND(13)r	ND(15)r	ND(15)r	ND(0.060)	ND(15)	ND(14)r	91
Arsenic	4.1(2.0)j	4.2(2.0)j	9.9(2.0)j	5.0(2.0)j	ND(0.010)	3.6(2.0)j	6.1(2.0)j	BKGRD
Barium	108(40)	124(40)	254(40)	122(40)	ND(0.200)	ND(40)	ND(40)	91,000
Beryllium	ND(1.1)	ND(1.1)	1.3(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)	NA
Cadmium	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)	130
Calcium	19000(1000)j	38100(1000)j	14900(1000)j	38000(1000)j	ND(5.000)	13800(1000)j	19600(1000)j	NA
Chromium	13(2.3)j	13(2.2)j	14(2.5)j	21(2.5)j	ND(0.010)	11(2.2)j	8.3(2.3)j	4,400
Cobalt	ND(1.0)	ND(0.11)	ND(10)	ND(10)	ND(0.050)	ND(10)	ND(10)	NA
Copper	58(5.0)j	34(5.0)j	36(5.0)j	109(5.0)j	ND(0.025)	14(5.0)j	11(5.0)j	9,800
Iron	10500(20)	8250(20)	8970(20)	16300(20)	ND(0.100)	11200(20)	11400(20)	NA
Lead	8.8(1.4)	23(1.1)	14(5.0)	290(10)j	ND(0.003)	7.7(1.0)	13(1.1)	400
Magnesium	5360(1000)	6140(1000)	4790(1000)	9020(1000)	ND(5.000)	5500(1000)	3470(1000)	NA
Manganese	230(3.0)j	222(3.0)j	235(3.0)j	591(3.0)j	ND(0.015)	280(3.0)	347(3.0)j	6,200
Mercury	ND(0.11)	ND(0.11)	ND(0.12)	0.28(0.12)	ND(0.0002)	ND(0.1)	ND(0.1)	78
Nickel	12(8.0)	10(8.0)	15(8.0)	15(8.0)	ND(0.040)	11(8.0)	8.3(8.0)	20,000
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.1)uj	ND(1.1)uj	ND(1.2)uj	ND(1.2)uj	ND(0.005)	ND(1.1)j	ND(1.1)uj	1,300
Silver	ND(2.3)	ND(2.2)	ND(2.5)	ND(2.5)	ND(0.010)	ND(2.2)	ND(2.3)	1,200
Vanadium	23(10)	15(10)	22(10)	23(10)	ND(0.050)	17(10)	16(10)	NA
Zinc	58(4.6)	41(4.4)	57(5.0)	470(5.0)	ND(0.020)	30(4.3)	32(4.5)	86,000
Total Cyanide	0.27(0.20)j	ND(0.20)uj	ND(0.20)	0.27(0.20)	ND(0.010)	ND(0.20)	ND(0.20)	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-46C-93	BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93	
Sample Location	BH-46-93	BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93	
Sample Interval (BGS)	24'-39.5'	83.5'-88.5'	2'-4'	6'-8'	2'-4'	6' - 8'	2'-4'	
Date Sampled	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	Michigan
Date Analyzed	5/26-6/15/93	5/26-6/17/93	7/13-7/15/93	7/12 - 7/15/93	7/13 - 7/15/93	7/13 - 7/15/93	7/12 - 7/15/93	Type B
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/kg)
Parameter								
Aluminum	8290(47)	1740(48)	2100(44)	3100(46)	6000(46)	1900(46)	1600(44)	NA
Antimony	ND(14)r	ND(14)r	ND(13)uj	ND(14)uj	ND(14)uj	ND(14)uj	ND(13)uj	91
Arsenic	6.6(2.0)j	4.3(2.0)j	ND(2.0)uj	2.1(2.0)j	ND(2.0)uj	3.2(2.0)j	2.1(2.0)j	BKGRD
Barium	58(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	91,000
Beryllium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	NA
Cadmium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	130
Calcium	94200(1000)j	118000(1000)	13000(1000)	61000(1000)	7200(1000)	37000(1000)	75000(1000)	NA
Chromium	12(2.3)j	4.5(2.4)j	6.8(2.2)	9.2(2.3)	12(2.3)	6.2(2.3)	3.4(2.2)	4,400
Cobalt	CD(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	24(5.0)j	15(5.0)j	12(5.0)	8.7(5.0)	ND(5.0)	5.2(5.0)	6.9(5.0)	9,800
Iron	18300(20)	7290(20)	5100(20)	6100(20)	7500(20)	3200(20)	4900(20)	NA
Lead	12(1.2)	8.5(1.4)	4.1(0.6)	8.9(1.2)j	4.8(0.6)j	5.4(0.6)j	3.0(0.6)j	400
Magnesium	18200(1000)	12000(1000)	15000(1000)	13000(1000)	3800(1000)	8200(1000)	10000(1000)	NA
Manganese	430(3.0)j	245(3.0)j	370(3.0)	170(3.0)	77(3.0)	87(3.0)	210(3.0)	6,200
Mercury	ND(0.12)	ND(0.12)	ND(0.11)uj	ND(0.12)uj	ND(0.12)uj	ND(0.12)uj	ND(0.11)uj	78
Nickel	23(8.0)	9.3(8.0)	ND(8.0)	ND(8.0)	9.2(8.0)	ND(8.0)	ND(8.0)	20,000
Potassium	1790(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.2)uj	ND(1.2)uj	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)	1,300
Silver	ND(2.3)	ND(2.4)	ND(2.2)	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.2)	1,200
Vanadium	19(10)	ND(10)	ND(10)	ND(10)	14(10)	ND(10)	ND(10)	NA
Zinc	63(4.7)	39(4.8)	20(4.4)	20(4.6)	34(4.6)	32(4.6)	13(4.4)	86,000
Total Cyanide	ND(0.20)uj	ND(0.20)uj	ND(0.21)uj	ND(0.23)uj	ND(0.23)uj	ND(0.22)uj	ND(0.21)uj	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
J	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

SUMMARY OF DETECTED INORGANICS IN SURFACE AND BOREHOLE SOILS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-56A-93	BH-49B-93	BH-50A-93	BH-59A-93	BH-50B-93	
Sample Location	BH-49-93	BH-49-93	BH-50-93	BH-50-93	BH-50-93	
Sample Interval (BGS)	2'-4'	6'-8'	2'-4'	2'-4'	6'-8'	
Date Sampled	5/15/93	5/15/93	5/18/93	5/18/93	5/18/93	Michigan
Date Analyzed	7/12 - 7/15/93	7/13 - 7/16/93	6/2 - 6/14/93	6/2 - 6/14/93	6/2 - 6/14/93	Type B
Units	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/kg)
Parameter						
Aluminum	4700(44)	1800(45)	2350(45)	3250(46)	2620(46)	NA
Antimony	ND(13)uj	ND(13)uj	ND(13)r	ND(14)r	ND(14)r	91
Arsenic	3.2(2.0)j	ND(2.0)uj	19(2.0)j	19(2.0)j	19(5.8)j	BKGRD
Barium	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	91,000
Beryllium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	NA
Cadmium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	780
Calcium	35000(1000)	78000(1000)	ND(1000)	ND(1000)	7000(1000)	NA
Chromium	9.7(2.2)	4.3(2.2)	2.3(2.2)	4.5(2.3)	4.8(2.3)	4,800
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Copper	11(5.0)	8.3(5.0)	8.6(5.0)	8.2(5.0)	6.2(5.0)	9,800
Iron	10000(20)	4500(20)	3770(20)	4750(20)	4660(20)	NA
Lead	4.9(1.2)j	6.1(0.6)j	69(2.2)j	80(4.6)j	68(4.6)j	400
Magnesium	8200(1000)	17000(1000)	ND(1000)	ND(1000)	1560(1000)	NA
Manganese	190(3.0)	160(3.0)	328(3.0)	488(3.0)	366(3.0)	6,200
Mercury	ND(0.11)uj	ND(0.11)uj	ND(0.11)	ND(0.12)	ND(0.12)	78
Nickel	11(8.0)	ND(8.0)	ND(8.0)	ND(8.0)	ND(8.0)	20,000
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	NA
Selenium	ND(1.1)	ND(2.2)	ND(1.1)	ND(1.2)	ND(1.2)	1,300
Silver	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.3)	ND(2.3)	1,200
Vanadium	15(10)	ND(10)	ND(10)	ND(10)	ND(10)	NA
Zinc	23(4.4)	16(4.5)	12(4.5)	28(4.6)	14(4.6)	86,000
Total Cyanide	ND(0.21)uj	ND(0.21)uj	NA	NA	NA	5,700

Notes:

ND	Analyte not detected.
( )	Quantitation limit.
j	Analyte present at less than the quantitation limit.
B	Analyte present in method blank.
R	The associated data is unusable.
j	The associated value is an estimated quantity.
u	Non-detect, with the associated value becoming the quantitation limit.
uj	The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E	Estimated value.

TABLE 5.9

SUMMARY OF GROUNDWATER SAMPLES
ROUNDS 1 AND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample Indentification Round 1*	*Sample Indentification Round 2*	*Chemical Analysis*
MW-1U-93	L-060993-JL-005	GW-081793-JM-104	TCL/TAL
MW-1D-93	L-060993-JL-004	GW-081793-JM-102	TCL/TAL
MW-2U-93	L-060993-JL-008	GW-081793-JM-106	TCL/TAL
MW-2D-93	L-060993-JL-007	GW-081793-JM-105	TCL/TAL
MW-3U-93	L-060993-JL-001	GW-081793-JM-108	TCL/TAL
MW-3D-93	L-060993-JL-003	GW-081793-JM-107	TCL/TAL
MW-4U-93	L-060993-JL-010	GW-081793-JM-109	TCL/TAL
MW-5U-93	L-060993-JL-011	GW-081793-JM-111	TCL/TAL
MW-6U-93	L-060993-JL-009	GW-081793-JM-110	TCL/TAL

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006	
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1L-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				Duplicate	
Parameter	**CAS Number**							
VOC								
Acetone	67-64-1	NIX(0.010)	NIX(0.010)	0.017(0.010)	0.014(0.010)	NIX(0.010)	NIX(0.010)	0.7
Benzene	71-43-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0012
Bromodichloromethane	75-27-4	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	NIX(0.010)	NIX(0.010)	0.00056
Chlorobenzene	108-90-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.032(0.010)	0.032(0.010)	0.13
Chloroform	67-66-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.010(0.010)	NIX(0.010)	NIX(0.010)	0.00[illegible]
1,2-Dichloroethene (total)	540-59-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.00098
Methylene chloride	75-09-2	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	NIX(0.010)	0.001 J (0.010)	0.0046
Toluene	108-88-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.001 J (0.010)	NIX(0.010)	NIX(0.010)	1.5
Trichloroethene	79-01-6	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0022
Vinyl chloride	75-01-4	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.000016
BNA								
Base/Neutral Compounds								
Acenaphthene	83-32-9	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	1.2
Anthracene	120-12-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.001 J (0.010)	7.0
Benzo(a)anthracene	56-55-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0000049
Benzo(k)fluoranthene	207-08-9	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0000049
Benzo(a)pyrene	50-32-8	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0000049
Bis(2-ethylhexyl)phthalate	117-81-7	0.007 J B (0.010) u	0.005 J B (0.010) u	0.099 B (0.010)	0.42 B (0.010)	NIX(0.010)	0.004 J B (0.010) u	0.0025
Chrysene	218-01-9	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.0000049
Di-n-butyl phthalate	84-74-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.84
Fluoranthene	206-44-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	0.002 J (0.010)	0.84
Fluorene	86-73-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.84
Naphthalene	91-20-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.25
Phenanthrene	85-01-8	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	0.003 J (0.050)	0.003 J (0.050)	0.025
Pyrene	129-00-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	0.002 J (0.010)	0.002 J (0.010)	0.52
PCB								
Aroclor-1254	11097-69-1	NIX(0.0010) uj	NIX(0.0010)	NIX(0.0010) uj	NIX(0.0010) uj	0.0084(0.0010) j	0.0089(0.0010) j	0.0000038

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

CRA 4770 (11)

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006	
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93	Michigan
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Type B (mg/L)
			Rinsate				Duplicate	
Parameter	**CAS Number**							
Inorganics (Unfiltered)								
Aluminum	-	13(0.200)	ND(0.200)	30(0.200)	1.4(0.200)	23(0.200)	21(0.200)	NA
Arsenic	-	ND(0.010) uj	ND(0.010) uj	0.014(0.010) j	ND(0.010)uj	0.032(0.010) j	0.031(0.010) j	0.02/BKGRD
Barium	-	1.8(0.200)	ND(0.200)	2.0(0.200)	1.8(0.200)	2.1(0.200)	2.1(0.200)	2.4
Beryllium	-	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	-	230(5.000)	ND(5.000)	200(5.000)	73(5.000)	770(5.000)	710(5.000)	NA
Chromium	-	0.07(0.010)	0.03(0.010)	0.19(0.010)	0.08(0.010)	0.09(0.010)	0.10(0.010)	0.12/BKGRD
Copper	-	0.05(0.025)	ND(0.025)	0.10(0.025)	0.03(0.025)	0.23(0.025)	0.23(0.025)	1.3/BKGRD
Iron	-	31(0.100)	ND(0.100)	48(0.100)	3.4(0.100)	73(0.100)	67(0.100)	NA
Lead	-	0.017(0.003)	ND(0.003)	0.044(0.003)	0.005(0.003)	0.22(0.003)	0.21(0.003)	0.004/BKGRD
Magnesium	-	54(5.000)	ND(5.000)	37(5.000)	17(5.000)	220(5.000)	200(5.000)	NA
Manganese	-	0.73(0.015)	ND(0.015)	0.72(0.015)	0.077(0.015)	2.4(0.015)	2.2(0.015)	0.17/BKGRD
Mercury	-	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.0005(0.0002)	0.0006(0.0002)	0.0021/BKGRD
Nickel	-	0.05(0.040)	ND(0.040)	0.09(0.040)	ND(0.040)	0.09(0.040)	0.09(0.040)	0.53/BKGRD
Potassium	-	7.7(5.000)	ND(5.000)	60(5.000)	36(5.000)	57(5.000)	58(5.000)	NA
Sodium	-	22(5.000)	ND(5.000)	50(5.000)	27(5.000)	77(5.000)	77(5.000)	150
Vanadium	-	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.07(0.050)	0.06(0.050)	NA
Zinc	-	1.1(0.020)	ND(0.020)	1.2(0.020)	1.1(0.020)	1.3(0.020)	1.2(0.020)	2.3/BKGRD
Inorganics (Filtered)								
Calcium	-	140(5.000)	ND(5.000)	24(5.000)	49(5.000)	360(5.000)	360(5.000)	NA
Chromium	-	0.03(0.010)	0.03(0.010)	0.05(0.010)	0.12(0.010)	0.08(0.010)	0.04(0.010)	0.12/BKGRD
Iron	-	2.8(0.100)	ND(0.100)	ND(0.100)	0.25(0.100)	10(0.100)	9.1(0.100)	NA
Lead	-	ND(0.003)	ND(0.003)	0.006(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	0.004/BKGRD
Magnesium	-	27(5.000)	ND(5.000)	ND(5.000)	12(5.000)	130(5.000)	130(5.000)	NA
Manganese	-	0.19(0.015)	ND(0.015)	ND(0.015)	0.020(0.015)	0.82(0.015)	0.81(0.015)	0.17/BKRGD
Potassium	-	2.6(5.000)	ND(5.000)	45(5.000)	43(5.000)	50(5.000)	51(5.000)	NA
Sodium	-	13(5.000)	ND(5.000)	38(5.000)	24(5.000)	69(5.000)	69(5.000)	150

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011	
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-8U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	**CAS Number**						
VOC							
Acetone	67-64-1	0.075(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.038(0.010)	0.7
Benzene	71-43-2	ND(0.010)	0.003 J (0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0017
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.00056
Chlorobenzene	108-90-7	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	ND(0.010)	0.13
Chloroform	67-66-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0056
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	0.010(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.000018
Methylene chloride	75-09-2	0.001 J (0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	ND(0.010)	0.0046
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	1.5
Trichloroethene	79-01-6	ND(0.010)	0.001 J (0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0027
Vinyl chloride	75-01-4	ND(0.010)	0.009 J (0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.000016
BNA							
Base/Neutral Compounds							
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	1.2
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	7.0
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.0000049
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005 J (0.010)	0.0000049
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	0.0000049
Bis(2-ethylhexyl)phthalate	117-81-7	0.18 B (0.010)	ND(0.010)	0.004 J B (0.010) u	0.003 J B (0.010) u	0.022 B (0.010)	0.0025
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.0000049
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.008 J (0.010)	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.004 J (0.010)	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.009 J (0.050)	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005 J (0.010)	0.52
PCB							
Aroclor-1254	11097-69-1	ND(0.0010)uj	ND(0.0010)uj	ND(0.0010)	ND(0.0010)	ND(0.0010)	0.00000038

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED ANALY...S IN GROUNDWATER — ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011	
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93	
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	Michigan
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	**CAS Number**						
Inorganics (Unfiltered)							
Aluminum	-	16(0.200)	31(0.200)	26(0.200)	9.9(0.200)	17(0.200)	NA
Arsenic	-	0.021(0.010) j	0.021(0.010) j	0.013(0.010) j	ND(0.010) uj	0.010(0.010) j	0.02/BKGRD
Barium	-	0.37(0.200)	0.92(0.200)	ND(0.200)	ND(0.200)	0.23(0.200)	2.4
Beryllium	-	ND(0.005)	0.007(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	-	310(5.000)	320(5.000)	210(5.000)	190(5.000)	290(5.000)	NA
Chromium	-	0.11(0.010)	0.06(0.010)	0.15(0.010)	0.04(0.010)	0.12(0.010)	0.12/BKGRD
Copper	-	0.11(0.025)	0.13(0.025)	0.12(0.025)	0.05(0.025)	0.08(0.025)	1.3/BKGRD
Iron	-	40(0.100)	66(0.100)	60(0.100)	22(0.100)	41(0.100)	NA
Lead	-	0.033(0.003)	0.062(0.003)	0.039(0.003)	0.042(0.003)	0.042(0.003)	0.004/BKGRD
Magnesium	-	55(5.000)	77(5.000)	62(5.000)	47(5.000)	85(5.000)	NA
Manganese	-	0.65(0.015)	2.0(0.015)	1.1(0.015)	1.3(0.015)	1.2(0.015)	0.17/BKGRD
Mercury	-	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.0021/BKGRD
Nickel	-	0.06(0.040)	0.08(0.040)	0.10(0.040)	ND(0.040)	0.08(0.040)	0.53/BKGRD
Potassium	-	29(5.000)	14(5.000)	10(5.000)	9.1(5.000)	25(5.000)	NA
Sodium	-	42(5.000)	37(5.000)	31(5.000)	24(5.000)	66(5.000)	150
Vanadium	-	ND(0.050)	0.10(0.050)	0.08(0.050)	ND(0.050)	ND(0.050)	NA
Zinc	-	0.52(0.020)	0.28(0.020)	0.28(0.020)	0.11(0.020)	0.17(0.020)	2.3/BKGRD
Inorganics (Filtered)							
Calcium	-	110(5.000)	130(5.000)	56(5.000)	120(5.000)	140(5.000)	NA
Chromium	-	0.03(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.12/BKGRD
Iron	-	0.14(0.100)	6.5(0.100)	ND(0.100)	0.28(0.100)	1.1(0.100)	NA
Lead	-	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	0.004/BKGRD
Magnesium	-	29(5.000)	27(5.000)	18(5.000)	24(5.000)	41(5.000)	NA
Manganese	-	0.036(0.015)	0.68(0.015)	0.102(0.015)	0.80(0.015)	0.22(0.015)	0.17/BKGRD
Potassium	-	24(5.000)	9.7(5.000)	5.0(5.000)	7.8(5.000)	21(5.000)	NA
Sodium	-	40(5.000)	36(5.000)	32(5.000)	25(5.000)	68(5.000)	150

Notes:
ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
				Duplicate				
Parameter	CAS Number	Rinsate						
VOC								
Acetone	67-64-1	0.010(0.010)u	0.11(0.010)	0.13(0.010)	0.016(0.010)u	1.7 (0.20)	0.005 J(0.010)u	0.7
Benzene	71-43-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.002 J(0.010)	0.0012
Carbon Disulfide	75-15-0	NIX(0.010)	0.001 J(0.010)	0.001 J(0.010)	NIX(0.010)	NIX(0.20)	NIX(0.010)	0.77
Chlorobenzene	108-90-7	0.002 J(0.010)	NIX(0.010)	NIX(0.010)	0.044(0.010)	NIX(0.20)	NIX(0.010)	0.13
Chloroform	67-66-3	NIX(0.010)	0.001 J(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	NIX(0.010)	0.0056
Trichloroethene	79-01-6	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.001 J(0.010)	0.0022
Vinyl chloride	75-01-4	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.014(0.010)	0.000016
Xylenes (total)	1330-20-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.20)	0.005 J(0.010)	14
BNA								
Base/Neutral Compounds								
Anthracene	120-12-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	7
Benzo(a)anthracene	56-55-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.0000049
Benzo(b)fluoranthene	205-99-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.0000049
Benzo(a)pyrene	50-32-8	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.0000049
Bis(2-ethylhexyl)phthal	117-81-7	0.003 J B (0.010)u	0.023 B (0.010)	0.031 B (0.010)	0.006 J B (0.010)u	0.24 B(0.020)	0.004 J B (0.010)u	0.0025
Chrysene	218-01-9	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.0000049
Di-n-butyl phthalate	84-74-2	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	0.002 J(0.010)	0.84
Fluoranthene	206-44-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.84
Fluorene	86-73-7	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.84
Naphthalene	91-20-3	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.25
Phenanthrene	85-01-8	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.050)	NIX(0.10)	NIX(0.050)	0.025
Pyrene	129-00-0	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.010)	NIX(0.020)	NIX(0.010)	0.52
PCB								
Aroclor-1254	11097-69-1	NIX(0.001)	NIX(0.001)	NIX(0.001)	0.012(0.001)	NIX(0.001)	NIX(0.001)	0.0000038

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	
Sample Location	-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Rinsate		Duplicate				
Parameter							
Inorganics (Unfiltered)							
Aluminum	ND(0.200)	15.4(0.200)j	35.3(0.200)j	7.80(0.200)j	11.8(0.200)j	23.5(0.200)j	NA
Arsenic	ND(0.010)	0.027(0.010)	0.067(0.050)	0.017(0.010)	ND(0.010)	0.029(0.010)	0.00002/BKGRD
Barium	ND(0.200)	0.281(0.200)	0.458(0.200)	0.225(0.200)	0.453(0.200)	0.598(0.200)	2.4/BKGRD
Beryllium	ND(0.005)	ND(0.005)	0.0050(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	ND(5.000)	395(5.000)	667(50.00)	550(50.00)	241(5.000)	255(5.00)	NA
Chromium	ND(0.010)	0.046(0.010)	0.122(0.010)	0.029(0.010)	0.055(0.010)	0.041(0.010)	0.12/BKGRD
Cobalt	ND(0.050)	ND(0.050)	0.068(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Copper	ND(0.025)	0.104(0.025)	0.195(0.025)	0.106(0.025)	0.090(0.025)	0.087(0.025)	1.3/BKGRD
Iron	ND(0.100)	55.4(0.100)	113(0.100)	45.8(0.100)	29.2(0.100)	51.5(0.100)	NA
Lead	ND(0.003)	0.035(0.015)	0.069(0.015)	0.105(0.015)	0.023(0.003)	0.049(0.015)	0.004/BKGRD
Magnesium	ND(5.000)	67.3(5.000)	104(5.000)	142(5.000)	37.7(5.000)	58.6(5.000)	NA
Manganese	ND(0.015)	1.05(0.015)	2.04(0.015)	1.62(0.015)	0.450(0.015)	1.44(0.015)	0.170/BKGRD
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.00031(0.0002)	ND(0.0002)	ND(0.0002)	0.0021/BKGRD
Nickel	ND(0.040)	0.086(0.040)	0.183(0.040)	ND(0.040)	0.042(0.040)	0.064(0.040)	0.53/BKGRD
Potassium	ND(5.000)	7.53(5.000)	17.4(5.000)	50.6(5.000)	10.3(5.000)	13.7(5.000)	NA
Sodium	ND(5.000)	10.4(5.000)	13.5(5.000)	56.7(5.000)	10.8(5.000)	33.7(5.000)	150
Vanadium	ND(0.050)	ND(0.050)	0.085(0.050)	ND(0.050)	ND(0.050)	0.060(0.050)	NA
Zinc	ND(0.020)	0.197(0.020)	0.423(0.020)	0.172(0.020)	0.372(0.020)	0.179(0.020)	2.3/BKGRD
Inorganics (Filtered)							
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	0.0053(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	ND(5.00)	94.4(5.00)	92.8(5.00)	340(5.00)	94.4(5.00)	129(5.00)	NA
Iron	ND(0.100)	0.595(0.100)	0.407(0.100)	18.5(0.100)	1.67(0.100)	6.30(0.100)	NA
Magnesium	ND(5.000)	19.9(5.000)	21.2(5.000)	104(5.000)	18.7(5.000)	27.6(5.000)	NA
Manganese	ND(0.015)	0.077(0.015)	0.049(0.015)	0.726 (0.015)	0.081(0.015)	0.580(0.015)	0.170/BKGRD
Potassium	ND(5.000)	16.0(5.000)	8.32(5.000)	45.5(5.000)	6.20(5.000)	9.81(5.000)	NA
Sodium	ND(5.000)	14.4(5.000)	11.3(5.000)	52.3(5.000)	9.38(5.000)	30.5(5.000)	150
Zinc	0.038(0.020)	ND(0.020)	0.023(0.020)	0.021(0.020)	ND(0.020)	ND(0.020)	2.3/BKGRD

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

TABLE 5.

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location		MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	CAS Number						
VOC							
Acetone	67-64-1	0.63(0.050)	0.014(0.010)	0.014(0.010)	0.007 J(0.010)	0.060(0.010)	0.7
Benzene	71-43-2	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0012
Carbon Disulfide	75-15-0	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.77
Chlorobenzene	108-90-7	ND(0.050)	ND(0.010)	0.002 J(0.010)	ND(0.010)	ND(0.010)	0.13
Chloroform	67-66-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0056
Trichloroethene	79-01-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0027
Vinyl chloride	75-01-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.000016
Xylenes (total)	1330-20-7	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	13
BNA							
Base/Neutral Compounds							
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	7
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.0000049
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.0000049
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.0000049
Bis(2-ethylhexyl)phthalate	117-81-7	0.083 B(0.010)	0.044 B(0.010)	0.006 J B (0.010)u	0.003 J B (0.010)u	0.004 J B (0.010)u	0.0025
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)	0.0000049
Di n butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.84
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.006 J (0.010)	0.84
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.84
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.007 J (0.010)	0.25
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.011 J (0.050)	0.025
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.006 J (0.010)	0.52
PCB							
Aroclor-1254	11097-69-1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.0000038

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER - ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111	
Sample Location	MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93	
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	Michigan
Date Analyzed	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	Type B
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter						
Inorganics (Unfiltered)						
Aluminum	5.64(0.200)j	3.14(0.200)j	3.44(0.200)j	3.71(0.200)j	3.37(0.200)j	NA
Arsenic	ND(0.010)	ND(0.010)	ND(0.010)	0.011(0.010)	ND(0.010)	0.00002/BKGRD
Barium	0.213(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	2.4/BKGRD
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	113(5.00)	263(5.000)	130(5.000)	92.4(5.000)	253(5.000)	NA
Chromium	0.044(0.010)	0.012(0.010)	0.012(0.010)	0.011(0.010)	0.016(0.010)	0.12/BKGRD
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Copper	0.070(0.025)	0.030(0.025)	0.025(0.025)	0.031(0.025)	0.035(0.025)	1.3/BKGRD
Iron	20.0(0.100)	15.4(0.100)	9.04(0.100)	10.2(0.100)	13.6(0.100)	NA
Lead	0.016(0.003)	0.010(0.003)	0.018(0.003)	0.012(0.003)	0.020(0.003)	0.004/BKGRD
Magnesium	20.5(5.000)	60.0(5.000)	30.4(5.000)	27(5.000)	64.4(5.000)	NA
Manganese	0.281(0.015)	0.526(0.015)	0.803(0.015)	0.313(0.015)	0.635(0.015)	0.170/BKGRD
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.0021/BKGRD
Nickel	0.045(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	0.53/BKGRD
Potassium	22.9(5.000)	ND(5.000)	6.19(5.000)	6.18(5.000)	16.3(5.000)	NA
Sodium	26.6(5.000)	19.1(5.000)	25.3(5.000)	34.4(5.000)	72.1(5.000)	150
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	NA
Zinc	0.127(0.020)	0.048(0.020)	0.040(0.020)	0.059(0.020)	0.065(0.020)	2.3/BKGRD
Inorganics (Filtered)						
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NA
Calcium	56.7(5.00)	156(5.000)	68.4(5.00)	57.1(5.00)	146(5.000)	NA
Iron	0.279(0.100)	3.87(0.100)	0.434(0.100)	0.934(0.100)	2.48(0.100)	NA
Magnesium	14.3(5.000)	27.9(5.000)	14.8(5.000)	17(5.000)	34.5(5.000)	NA
Manganese	0.045(0.015)	0.136(0.015)	0.465(0.015)	0.129(0.015)	0.191(0.015)	0.170/BKGRD
Potassium	9.48(5.000)	ND(5.000)	5.16(5.000)	5.16(5.000)	14.8(5.000)	NA
Sodium	22.0(5.000)	15.6(5.000)	23.4(5.000)	38.0(5.000)	68.3(5.000)	150
Zinc	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	2.3/BKGRD

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

TABLE 5.12

RANGE OF GROUNDWATER DETECTED ANALYTES - ROUND 1 AND ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses		Range (mg/L)
		Round 1	Round 2	
VOC (9)				
Acetone	67-64-1	4/9	8/9	0.007 - 1.7
Benzene	71-43-2	1/9	1/9	0.002 - 0.003
Bromodichloromethane	75-27-4	1/9	-	0.002
Carbon Disulfide	75-15-0	-	2/9	0.001
Chlorobenzene	108-90-7	3/9	3/9	0.001 - 0.044
Chloroform	67-66-3	1/9	1/9	0.001 - 0.010
1,2-Dichloroethene (total)	540-59-0	1/9	-	0.010
Methylene chloride	75-09-2	2/9	-	0.001
Toluene	108-88-3	1/9	-	0.001
Trichloroethene	79-01-6	1/9	1/9	0.001
Vinyl chloride	75-01-4	1/9	1/9	0.009 - 0.014
Xylenes (total)	1330-20-7	-	1/9	0.005
BNA (9)				
Base/Neutral Compounds				
Acenaphthene	83-32-9	1/9	-	0.002
Anthracene	120-12-7	2/9	1/9	0.001 - 0.002
Benzo(a)anthracene	56-55-3	1/9	1/9	0.002 - 0.003
Benzo(b)flouranthene	205-99-2	-	1/9	0.003
Benzo(k)fluoranthene	207-08-9	1/9	-	0.005
Benzo(a)pyrene	50-32-8	1/9	1/9	0.001 - 0.002
Bis(2-ethylhexyl)phthalate	117-81-7	4/9	5/9	0.003 - 0.42
Chrysene	218-01-9	1/9	1/9	0.003
Di-n-butyl phthalate	84-74-2	1/9	1/9	0.001 - 0.002
Fluoranthene	206-44-0	3/9	1/9	0.002 - 0.008
Fluorene	86-73-7	1/9	1/9	0.002
Naphthalene	91-20-3	1/9	1/9	0.004 - 0.007
Phenanthrene	85-01-8	3/9	1/9	0.003 - 0.011
Pyrene	129-00-0	3/9	1/9	0.002 - 0.006
PCB (9)				
Aroclor-1254	11097-69-1	1/9	1/9	0.0084 - 0.012

TABLE 5.12

RANGE OF GROUNDWATER DETECTED ANALYTES - ROUND 1 AND ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses		Range (mg/L)
		Round 1	Round 2	
Metals (Unfiltered) (9)				
Aluminum	-	9/9	9/9	1.4 - 31
Arsenic	-	-	4/9	0.011 - 0.029
Barium	-	7/9	5/9	0.213 - 2.1
Beryllium	-	1/9	1/9	0.005 - 0.007
Calcium	-	9/9	9/9	73 - 770
Chromium	-	9/9	9/9	0.011 - 0.122
Cobalt		-	1/9	0.068
Copper	-	9/9	9/9	0.03 - 0.23
Iron	-	9/9	9/9	3.4 - 73
Lead	-	9/9	9/9	0.005 - 0.22
Magnesium	-	9/9	9/9	17 — 220
Manganese	-	9/9	9/9	0.077 - 2.4
Mercury	-	1/9	1/9	0.00031 - 0.0005
Nickel	-	7/9	4/9	0.042 - 0.183
Potassium	-	9/9	8/9	6.18 - 60
Sodium	-	9/9	9/9	10.8 - 77
Vanadium	-	3/9	1/9	0.06 - 0.10
Zinc	-	9/9	9/9	0.11 - 1.3
Metals (Filtered) (9)				
Beryllium	-	-	1/9	0.0053
Calcium	-	9/9	9/9	24 - 360
Chromium	-	6/9	-	0.03 - 0.12
Iron	-	7/9	9/9	0.25 - 10
Lead	-	1/9	-	0.006
Magnesium	-	8/9	9/9	12 - 130
Manganese	-	8/9	9/9	0.020 - 0.82
Potassium	-	9/9	8/9	2.6 - 50
Sodium	-	9/9	9/9	13 - 69
Zinc	-	-	2/9	0.021 - 0.038

TABLE 5.13

BACKGROUND METAL CONCENTRATION FOR GROUNDWATER
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	Concentration (mg/L) Upper Water Table Zone (1)	Lower Sands Aquifer (3)
Metals (Unfiltered)		
Aluminum	26 (2)	30
Arsenic	0.13 (2)	0.03
Barium	1.8 (2)	2
Beryllium	0.0025	ND (0.005)
Calcium	391	200
Chromium	0.15 (2)	0.19
Cobalt	0.025	ND (0.05)
Copper	0.12 (2)	0.1
Iron	60 (2)	48
Lead	0.039 (2)	0.044
Magnesium	92.8	37
Manganese	1.54	0.72
Mercury	.0001	0.0001
Nickel	0.1 (2)	0.09
Potassium	14.78	60
Sodium	45.5	50
Vanadium	0.08 (2)	0.025
Zinc	1.7	1.2
Metals (Filtered)		
Beryllium	0.0025	0.0025
Calcium	240	56.7
Chromium	0.03 (2)	0.05
Iron	3.87 (2)	0.279
Lead	0.0015	0.006
Magnesium	37.5	14.3
Manganese	0.235	0.045
Potassium	7.62	45
Sodium	56.5	38
Zinc	0.01	0.01

Notes:

(1) Site-specific background level calculated in accordance with MERA Operational Memorandum #15 (September 30, 1993).

(2) Maximum concentration - data contains outlying value (i.e. CV >.5) resulting in insufficient data for calculations to be completed in accordance with MERA Operational Memorandum #15.

(3) Not enough data for MERA Operational Memorandum #15 - value represents maximum.

ND Analyte not detected.

( ) Quantitation limit.

TABLE 5.14

SUMMARY OF POND SEDIMENT SAMPLES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Location	*Sample ID*	*Sample Interval (inches below sediment surface)*	*Chemical Analysis*
SD-1-93	SD-061893-4770-01	0-6	TCL/TAL
	SD-061893-4770-02	6-24	TCL/TAL
SD-2-93	SD-061893-4770-04	0-6	PCB
	SD-061893-4770-05	6-24	PCB
SD-3-93	SD-061893-4770-07	0-6	PCB
	SD-061893-4770-08	6-24	PCB
SD-4-93	SD-061893-4770-10	0-6	PCB
	SD-061893-4770-11	6-24	PCB
SD-5-93	SD-061893-4770-12	0-6	PCB
SD-6-93	SD-061893-4770-14	0-6	PCB
	SD-061893-4770-15	6-24	PCB
SD-7-93	SD-061893-4770-16	0-6	TCL/TAL
	SD-061893-4770-17	6-24	TCL/TAL
SD-8-93	SD-061893-4770-18	0-6	PCB
	SD-061893-4770-19	6-24	PCB
SD-9-93	SD-061893-4770-20	0-6	TCL/TAL
	SD-061893-4770-21	6-24	TCL/TAL

TABLE 9.15

SUMMARY OF DETECTED ANALYTES IN POND SEDIMENTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-61893-4770-02	SD-61893-4770-03	SD-62193-4770-16	SD-62193-4770-17	SD-62193-4770-20	SD-62193-4770-21
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93
Units		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	CAS Number			Duplicate				
VOC								
Acetone	67 64 1	0.38(0.026)	0.074(0.013)	0.074(0.012)	1.3(0.057)	0.12(0.011)	0.26(0.013)	0.14(0.011)
Methylene chloride	75 09 2	0.016 J (0.026)	0.003 J (0.013)	0.006 J (0.012)	0.022 J B (0.057)	0.004 J (0.011)	0.004 J (0.013)	0.003 J (0.011)
Toluene	108 88 3	ND(0.026)	0.002 J (0.013)	0.002 J (0.012)	ND(0.057)	0.002 J (0.011)	0.002 J (0.013)	ND(0.011)
BNA								
Bis(2 ethylhexyl)pl	117 81 7	0.039 J B (0.330) u	0.058 J B (0.330) u	0.042 J B (0.330) u	0.093 J B (0.330) u	0.057 J B (0.330) u	0.096 J B (0.330) u	0.046 J B (0.330) u
Di n butyl phthala	84 74 2	ND(0.330)	0.049 J (0.330)	ND(0.330)	0.40(0.330)	0.22 J (0.330)	0.035 J (0.330)	ND(0.330)
Metals								
Aluminum		1100(53) j	1200(51) j	770(50) j	2300(46) j	1700(46) j	2200(51) j	1200(45) j
Arsenic		ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.1(2.0)	5.4(2.0)	ND(2.0)
Calcium		36000(1000)	46000(1000)	44000(1000)	64000(1000)	65000(1000)	64000(1000)	108000(1000)
Chromium		ND(2.7) uj	3.8(2.5) j	3.7(2.5) j	7.3(2.3) j	5.4(2.3) j	7.1(2.6) j	8.8(2.2) j
Copper		ND(5.0)	ND(5.0)	ND(5.0)	17(5.0)	8.1(5.0)	11(5.0)	9.6(5.0)
Iron		3200(20) j	3100(20) j	2100(20) j	6300(20) j	3700(20) j	6500(20) j	4100(20) j
Lead		4.3(0.6)	2.9(0.6)	1.9(0.6)	4.2(0.6)	4.5(0.6)	11(0.6)	4.0(0.6)
Magnesium		6900(1000)	9400(1000)	8200(1000)	10600(1000)	13000(1000)	9800(1000)	20000(1000)
Manganese		98(3.0) j	110(3.0) j	97(3.0) j	130(3.0) j	120(3.0) j	240(3.0) j	170(3.0)
Nickel		ND(8.0)	ND(8.0)	ND(8.0)	10(8.0)	ND(8.0)	ND (8.0)	ND (8.0)
Zinc		17(5.3)	16(5.1)	12(5.0)	29(4.6)	17(4.6)	26(5.1)	18(4.5)

Notes:

ND Analyte not detected.
( ) Quantitation limit.
J Analyte present at less than the quantitation limit.
B Analyte present in method blank.
R The associated data is unusable.
j The associated value is an estimated quantity.
u Non-detect, with the associated value becoming the quantitation limit.
uj The parameter was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
E Estimated value.

TABLE 5.16

RANGE OF POND SEDIMENT DETECTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Parameter	CAS Number	# Occurrences/# Analyses	Range (mg/kg)
VOC (6)			
Acetone	67-64-1	6/6	0.074 - 1.3
Methylene chloride	75-09-2	6/6	0.003 - 0.016
Toluene	108-88-3	3/6	0.002
BNA (6)			
Di-n-butyl phthalate	84-74-2	4/6	0.035 - 0.40
Metals (6)			
Aluminum	-	6/6	770 - 2300
Arsenic	-	2/6	2.1 - 5.4
Calcium	-	6/6	36000 - 108000
Chromium	-	5/6	3.8 - 8.8
Copper	-	4/6	8.1 - 17
Iron	-	6/6	3100 - 6500
Lead	-	6/6	2.9 - 11
Magnesium	-	6/6	6900 - 20000
Manganese	-	6/6	98 - 240
Nickel	-	1/6	10
Zinc	-	6/6	16 - 29

TABLE 5.17

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - UPPER SAND
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration (µg/kg)*	*Michigan Type B (µg/kg)(1)*	*Michigan Type C (µg/kg)*
1.	**VOC Analytes**				
	None				
2.	**SVOCs**				
	Benzo(a)anthracene	BH-2-93 (6'-8')	3,000 J	330(2)	2,100
		BH-6-93 (6'-8')	550	330(2)	2,100
		BH-36-93 (6'-8') Dup.	1,400	330(2)	2,100
	Benzo(b)fluoranthene	BH-2-93 (6'-8')	1,600 J	330(2)	2,100
		BH-6-93 (6'-8')	850	330(2)	2,100
		BH-17-93 (0'-1')	220 J	330(2)	2,100
		BH-36-93 (6'-8')	1,400	330(2)	2,100
	Benzo(a)pyrene	BH-6-93 (6'-8')	410	330(2)	2,100
		BH-36-93 (6'-8')	650	330(2)	2,100
	Chrysene	BH-2-93 (6'-8')	1,900 J	330(2)	2,100
		BH-6-93 (6'-8')	1,200	330(2)	2,100
	Hexachlorobenzene	BH-6-93 (6'-8')	850	800	9,400
3.	**Pesticides/PCBs**				
	Aroclor-1254	BH-2-93 (2'-4')	30,000	1,000	7,500
		BH-2-93 (6'-8')	6,500	1,000	7,500
		BH-4-93 (6'-8')	12,000	1,000	7,500
		BH-7-93 (6'-8')	7,300	1,000	7,500
		BH-10-93 (2'-4')	1,300	1,000	7,500
		BH-10-93 (6'-8')	3,500	1,000	7,500
		BH-12-93 (6'-8')	1,500	1,000	7,500
		BH-13-93 (2'-4')	33,000	1,000	7,500
		BH-13-93 (6'-8')	29,000	1,000	7,500

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Michigan Type B/C Acceptable Method Detection Limit (utilized as Type B/C Cleanup Level if greater than Type B/C value).
J Analyte present at level less than the quantitation limit.

TABLE 5.17

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - UPPER SAND
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (µg/kg)*	*Michigan Type B (µg/kg)(1)*	*Michigan Type C (µg/kg)*
Pesticides/PCBs				
Aroclor-1254 (Cont'd.)	BH-14-93 (2'-4')	40,000	1,000	7,500
	BH-16-93 (6'-8')	19,000	1,000	7,500
	BH-16-93 (6'-8') Dup.	3,600 J	1,000	7,500
	BH-20-93 (2'-4')	76,000	1,000	7,500
	BH-20-93 (6'-8')	4,200	1,000	7,500
	BH-20-93 (6'-8') Dup.	1,000	1,000	7,500
	BH-21-93 (2'-4')	230,000	1,000	7,500
	BH-21-93 (2'-4') Dup.	44,000	1,000	7,500
	BH-21-93 (6'-8')	230,000	1,000	7,500
	BH-21-93 (6'-8') Dup.	310,000	1,000	7,500
	BH-22-93 (2'-4')	55,000	1,000	7,500
	BH-22-93 (6'-8')	49,000	1,000	7,500
	BH-22-93 (6'-8') Dup.	50,000	1,000	7,500
	BH-23-93 (2'-4')	76,000	1,000	7,500
	BH-23-93 (6'-8')	79,000	1,000	7,500
	BH-23-93 (6'-8') Dup.	69,000	1,000	7,500
	BH-24-93 (2'-4')	16,000	1,000	7,500
	BH-24-93 (2'-4') Dup.	130,000	1,000	7,500
	BH-24-93 (6'-8')	4,300	1,000	7,500
	BH-28-93 (2'-4')	6,300	1,000	7,500
	BH-29-93 (2'-4')	6,500 E(1,700)	1,000	7,500
	BH-29-93 (6'-8')	1,600 E(33)	1,000	7,500
	BH-30-93 (2'-4')	1,000	1,000	7,500
	BH-30-93 (6'-8')	6,000	1,000	7,500
Aroclor-1260	BH-1-93 (2'-4')	24,000	1,000	7,500
	BH-1-93 (6'-8')	2,500	1,000	7,500
	BH-29-93 (2'-4')	8,000	1,000	7,500
	BH-29-93 (6'-8')	2,200	1,000	7,500

4. **Inorganics**

None

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
( ) Quantitation limit.
J Analyte present at level less than the quantitation limit.
E Estimated value.

TABLE 5.18

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - CLAY
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (mg/kg)*	*Michigan Type B (µg/kg)*	*Michigan Type C (µg/kg)*
1. **VOC Analytes**				
None				
2. **SVOCs**				
None				
3. **Pesticides/PCBs**				
None				
4. **Inorganics**				
None				

TABLE 5.19

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SOILS - LOWER SANDS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (mg/kg)*	*Michigan Type B (µg/kg)*	*Michigan Type C (µg/kg)*
1. **VOC Analytes**				
None				
2. **SVOCs**				
None				
3. **Pesticides/PCBs**				
None				
4. **Inorganics**				
None				

TABLE 5.20

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - WATER TABLE ZONE
ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	Concentration (µg/L)	Michigan Type B (µg/L) (1)	Michigan Type C (µg/L)	Federal MCL (µg/L)	Background Concentration (µg/L)
1.	**VOC Analytes**						
	Benzene	MW-2U-93	3.0 J	1.2	12	5	–
	Vinyl Chloride	MW-2U-93	9.0 J	0.016	0.16	2	–
2.	**SVOC Analytes**						
	Benzo(k)fluoranthene	MW-5U-93	5.0 J	5 (2)	5 (2)	–	–
3.	**Pesticides/PCBs**						
	Aroclor-1254	MW-1U-93	8.4 J	0.2 (2)	0.2 (2)	0.5	–
		MW-1U-93 (Dup.)	8.9 J	0.2 (2)	0.2 (2)	0.5	–
4.	**Inorganics (Filtered) (3)**						
	Manganese	MW-3U-93 (5)	190	170/BKGRD (4)	500	–	235
		MW-1U-93	820	170/BKGRD	500	–	235
		MW-1U-93 (Dup.)	810	170/BKGRD	500	–	235
		MW-2U-93	680	170/BKGRD	500	–	235
		MW-4U-93	800	170/BKGRD	500	–	235
		MW-5U-93	220	170/BKGRD	500	–	235

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Michigan Type B Acceptable Method Detection Limit (utilized as Type B Cleanup Level if greater than Type B value).
(3) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(4) BKGRD = Background
(5) MW-3U-93 is the background well (eg. upgradient of the Site)
J Analyte present at level less than the quantitation limit.

TABLE 5.21

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - WATER TABLE ZONE
ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

		Location	*Concentration* (µg/L)	*Michigan Type B* (µg/L) (1)	*Michigan Type C* (µg/L)	*Federal MCL* (µg/L)	*Background Concentration* (µg/L)
1.	**VOC Analytes**						
	Benzene	MW-2U-93	2.0 J	1.2	12	5	--
	Vinyl Chloride	MW-2U-93	14	1 (2)	1 (2)	2	--
2.	**SVOC Analytes**						
	None						
3.	**Pesticides/PCBs**						
	Aroclor-1254	MW-1U-93	12	0.2 (2)	0.2 (2)	0.5	--
4.	**Inorganics (Filtered) (3)**						
	Manganese	MW-1U-93	726	170/BKGRD (4)	500	-	235
		MW-2U-93	580	170/BKGRD	500	-	235
		MW-4U-93	465	170/BKGRD	500	-	235
		MW-5U-93	191	170/BKGRD	500	-	235

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Michigan Type B/C Acceptable Method Detection Limit (utilized as Type B/C Cleanup Level if greater than Type B value).
(3) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(4) BKGRD = Background
J Analyte present at level less than the quantitation limit.

TABLE 5.22

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - LOWER SANDS AQUIFER
ROUND 1
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	Concentration (µg/L)	Michigan Type B (µg/L) (1)	Michigan Type C (µg/L)	Federal MCL (µg/L)	Background Concentration (µg/L)
1. VOC Analytes						
Chloroform	MW-1D-93	10.0	5.6	57	–	–
2. SVOC Analytes						
None						
3. Pesticides/PCBs						
None						
4. Inorganics (Filtered) (2)						
Chromium	MW-1D-93	120	120/BKGRD (3)	350	100	50
Lead	MW-3D-93(4)	6	4/BKGRD	4	–	6

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).
(3) BKGRD = Background
(4) MW-3D-93 is the background well (eg. upgradient of the Site)

TABLE 5.23

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
GROUNDWATER - LOWER SANDS AQUIFER
ROUND 2
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

	Location	*Concentration (µg/L)*	*Michigan Type B (µg/L) (1)*	*Michigan Type C (µg/L)*	*Federal MCL (µg/L)*	*Background Concentration (µg/L)*
1. **VOC Analytes**						
Acetone	MW-2D-93	1,700	700	2,100	--	--
2. **SVOC Analytes**						
None						
3. **Pesticides/PCBs**						
None						
4. **Inorganics (Filtered) (2)**						
None						

Notes:

(1) Michigan Type B Cleanup Level for Direct Contact.
(2) Consistent with MERA Operational Memorandum #8 (comparison of filtered samples to Type B Cleanup Levels).

TABLE 5.24

DETECTED ANALYTES OVER MICHIGAN TYPE B CLEANUP STANDARDS
SEDIMENTS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

1. **VOC Analytes**

   None

2. **SVOCs**

   None

3. **Pesticides/PCBs**

   None

4. **Inorganics**

   None

APPENDIX A

BOREHOLE STRATIGRAPHIC LOGS AND MONITORING WELL COMPLETION DETAILS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-01)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH1-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.6				
	TOPSOIL, organics, black and brown			1SS		12
2.5	Pt/SP-ORGANICS and SAND, black and brown, damp, petroleum odor	706.6		(2SS)		21
5.0	SP/GP-SAND and GRAVEL, black, wet	704.6		3SS		10
7.5	SP/Pt-SAND and ORGANICS, brown and black, wet, petroleum odor, visible sheen	702.6	8"ø BOREHOLE	(4SS)		4
	SP-SAND, fine grained, gray, wet	700.6	CEMENT/ BENTONITE GROUT	5SS		22
10.0	SM-SAND, some silt, gray and brown, wet	698.6		6SS		22
12.5						
15.0	SC/CL-SAND and CLAY	693.6		7SS		24
17.5	CL-CLAY, gray, wet	691.6				
	END OF HOLE @ 17.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-02)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, M

HOLE DESIGNATION: BH2-93 / MW1D-93

DATE COMPLETED: MAY 11, 1993
DRILLING METHOD: 12 1/4" ID HSA / 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT ("Top of Riser"	710.43				
	GROUND SURFACE	709.1				
	TOPSOIL, some sand	708.1	CONCRETE SEAL	1SS		25
	SP-SAND, medium grained, brown	707.1				
- 2.5	FILL, red brick			2SS		29
	- some sand, oil rags, black and brown, odor					
	- petroleum odor					
- 5.0				3SS		63
	- wet					
	- black, petroleum odor		10"ø SURFACE CASING	4SS		42
- 7.5						
	SW-SAND, medium to coarse grained, brown and black	700.1		5SS		37
- 10.0						
			CEMENT/ BENTONITE GROUT	6SS		30
- 12.5						
			16"ø BOREHOLE	7SS		47
	SP-SAND, fine grained	695.1		GS 8SS		25
- 15.0						
	SM-SAND, some silt, gray, wet	693.1		9SS		32
	CL-CLAY, firm to stiff, gray	692.1	2"ø STEEL CASING			
- 17.5				10SS		30
- 20.0				11ST		
- 22.5						
- 25.0			8"ø BOREHOLE			
- 27.5	- some gravel and sand		CEMENT/ BENTONITE GROUT	12SS		25
- 30.0						
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-02)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH2-93 / MW1D-93
(Page 2 of 3)
DATE COMPLETED: MAY 11, 1993
DRILLING METHOD: 12 1/4" ID HSA / 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
35.0	GP/SP-GRAVEL and SAND, coarse, poorly graded	675.6		13SS		18
37.5						
40.0						
42.5			2"ø STEEL CASING			
45.0						
47.5						
50.0			CEMENT/ BENTONITE GROUT			
52.5						
55.0			8"ø BOREHOLE			
57.5	– wet					
	SP-SAND, fine to medium grained, brown and black, wet	650.6				
60.0						
62.5						
65.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-02)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH2-93 / MW1D-93
(Page 3 of 3)
DATE COMPLETED: MAY 11, 1993
DRILLING METHOD: 12 1/4" ID HSA / 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
-67.5						
-70.0	SW-SAND, some gravel, coarse grained, well graded, black and brown, wet	639.1	CEMENT/ BENTONITE GROUT; 2"ø STEEL CASING	14SS		
-72.5						
-75.0			BENTONITE PELLET SEAL			
-77.5						
-80.0			8"ø BOREHOLE; WELL SCREEN			
-82.5			SAND PACK			
-85.0	END OF HOLE @ 85.5 FT. BGS	623.6				
-87.5						
-90.0						
-92.5						
-95.0						
-97.5						

SCREEN DETAILS:
Screened interval:
79.3 to 84.3' BGS
Length -5.0'
Diameter -2.0"
Slot # 10
Material -Stainless Steel
Sand pack interval:
76.5 to 85.5' BGS
Material -# 20-40 Silica Sand

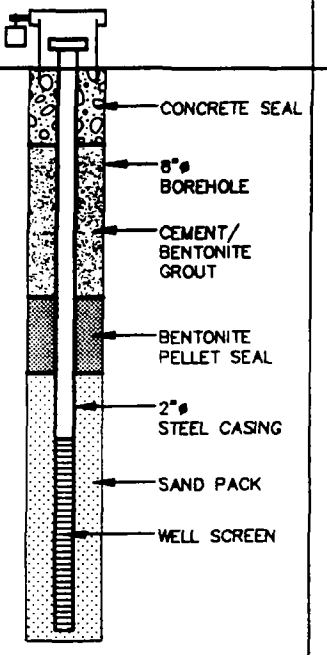
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-03)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: MW1U-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: T. GUTPELL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	For stratigraphy see BH2-91 / MW1D-93					
15.0	END OF HOLE @ 15.0 FT. BGS	-15.0	SCREEN DETAILS: Screened Interval: 9.7 to 14.7' BGS Length -5.0' Diameter -2.0" Slot # 10 Material -Stainless Steel Sand pack interval: 8.0 to 15.0' BGS Material -# 20-40 Silica Sand			

2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
22.5
25.0
27.5
30.0
32.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-04)

PROJECT NAME: TEXTILE ROAD
HOLE DESIGNATION: BH3-93
PROJECT NO.: 4770
DATE COMPLETED: MAY 17, 1993
CLIENT: TEXTILE ROAD PRP GROUP
DRILLING METHOD: 4 1/4" ID HSA
LOCATION: WASHTENAW COUNTY, MI
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.3				
	TOPSOIL, some sand, brown			1SS		15
2.5	SP-SAND, reddish brown and brown	706.3		2SS		65
5.0	SP/GP-SAND and GRAVEL, brown, damp	704.3		3SS		56
7.5	SP-SAND, some gravel, reddish brown and gray, wet	702.3	6" ø BOREHOLE	4SS		21
10.0	SM/GM-SAND and GRAVEL, some silt, reddish brown and brown, wet - brown	700.3	CEMENT/ BENTONITE GROUT	5SS		35
12.5				6SS		22
15.0	SC/GC-SAND and GRAVEL, some clay, brown and gray, wet	693.3		7SS		25
17.5	CL-CLAY, gray, wet END OF HOLE @ 17.0 FT BGS	691.3				
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-05)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH4-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.3				
	TOPSOIL, brown			1SS		11
2.5	PT/SC-PLANT ORGANICS and SAND, some clay, brown	707.3		2SS		19
5.0	SP-SAND, some gravel	705.3		3SS		12
	- brown and gray, wet		8" ø BOREHOLE	4SS		45
7.5						
				5SS		40
10.0	- gray		CEMENT/ BENTONITE GROUT	6SS		28
12.5						
15.0	SM/GM-SAND and GRAVEL, some silt, gray and brown, wet	694.3		7SS		39
17.5						
	SC-SAND, some clay, black and gray	691.3		8SS		35
20.0	CL-CLAY, gray, wet	689.3				
	END OF HOLE @ 20.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-06)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: B-5-93 / MW2D-93
(Page 1 of 3)
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA / 12 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	REFERENCE POINT (Top of Riser)	709.92				
	GROUND SURFACE	708.6				
	TOPSOIL, fine, black and brown		CONCRETE SEAL	1SS		8
- 2.5	- some fine sand			GS 2SS		4
	- black					
- 5.0				3SS		2
	SP-SAND, some silt and clay, stones, brown and black, wet	702.6	10"ø SURFACE CASING	4SS		4
- 7.5						
	CL-CLAY, some silt, brown and tan	700.6		5SS		4
- 10.0	- some stones, brown					
			CEMENT/ BENTONITE GROUT	6SS		8
- 12.5						
	SP-SAND, trace stones, coarse grained, wet	695.6	16"ø BOREHOLE	7SS		12
- 15.0	CL-CLAY, firm, gray	693.6		8SS		12
				9SS		20
- 17.5			2"ø STEEL CASING			
				10SS		32
- 20.0						
- 22.5						
			8"ø BOREHOLE	11SS		46
- 25.0						
- 27.5						
	SP-SAND, trace silt, dense, brown and tan, moist	679.6		12ST		
- 30.0						
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS
CHEMICAL ANALYSIS
WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-06)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH5-93 / MW2D-93
(Page 2 of 3)
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA / 12 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
35.0				13SS		>100
37.5						
40.0	– 2" sand, clay and silt lense, hard, tan, gold and brown, moist			14SS		23
42.5	– some silt		8"ø BOREHOLE			
45.0				15SS		18
47.5	– layered, tan and light brown		CEMENT/ BENTONITE GROUT	16SS		55
50.0	– brown and tan, dry to slightly moist		2"ø STEEL CASING	17SS		26
52.5	SM–SAND, some silt, white and light tan, dry	657.1		18SS		50
	CL/SM–CLAY and SAND, some silt, gray with streaks of tan, gold and bronze, dry	655.6				
55.0	– very moist to wet	653.6		19SS		40
	SM/ML–SAND and SILT, medium grained, gray, moist	653.1				
57.5	SM–SAND, some silt, medium grained, gray, moist to wet	652.1 ▽		20SS		31
	– gray, wet			21SS		27
60.0						
62.5			BENTONITE PELLET SEAL			
65.0			SAND PACK	22SS		27
			WELL SCREEN			

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-06)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH5-93 / MW2D-93 (Page 3 of 3)
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA / 12 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
67.5			8"ø BOREHOLE; WELL SCREEN; SAND PACK	GS 23SS		32
70.0						
72.5	END OF HOLE @ 72.0 FT. BGS	636.6				
75.0						
77.5						
80.0						
82.5						
85.0						
87.5						
90.0						
92.5						
95.0						
97.5						

SCREEN DETAILS:
Screened interval:
65.1 to 70.1' BGS
Length -5.0'
Diameter -2.0"
Slot # 10
Material -Stainless Steel
Sand pack interval:
63.0 to 72.0' BGS
Material -# 20-40 Silica Sand

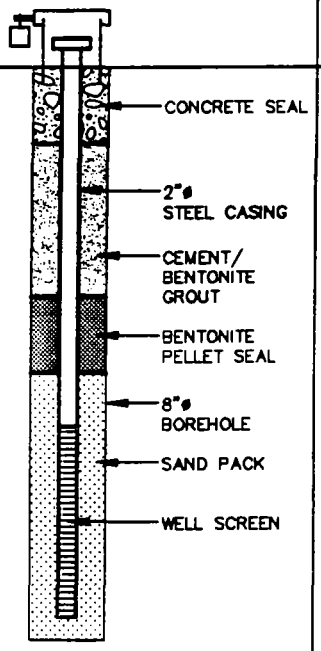
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-07)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: MW2U-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: T. GUTPELL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
2.5	For stratigraphy see BH5-93 / MW2D-93					
5.0						
7.5						
10.0						
12.5						
15.0	END OF HOLE @ 15.0 FT. BGS	-15.0	SCREEN DETAILS: Screened Interval: 9.4 to 14.4' BGS Length -5.0' Diameter -2.0" Slot # 10 Material -Stainless Steel Sand pack interval: 8.0 to 15.0' BGS Material -# 20-40 Silica Sand			
17.5						
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-08)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH6-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.2				
-2.5	TOPSOIL, some sand, brown and reddish brown – some clay, black, damp			1SS		21
				2SS		12
-5.0	CL-CLAY, brown, damp	705.2		3SS		14
	SP-SAND, some gravel, organics, black and brown, damp	703.2	8" ø BOREHOLE	4SS		20
-7.5	SP/GP-SAND and GRAVEL, gray, wet	701.2	CEMENT/ BENTONITE GROUT	5SS		30
-10.0	SP-SAND, gray, wet	699.2		6SS		43
-12.5						
-15.0	CL-CLAY, gray, wet	694.2				
-17.5	END OF HOLE @ 17.0 FT BGS	692.2				
-20.0						
-22.5						
-25.0						
-27.5						
-30.0						
-32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-09)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH7-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.8				
	TOPSOIL, some sand, brown and black			1SS		15
2.5	SP-SAND, some cement pieces, dark brown	705.8		2SS		>50
	- gray, wet					
5.0				3SS		26
			8" ø BOREHOLE			
7.5	- some gravel			4SS		5
			CEMENT/ BENTONITE GROUT	5SS		4
10.0				6SS		13
12.5						
15.0	SC-SAND, some clay, gray, wet	692.8		7SS		32
17.5	END OF HOLE @ 17.0 FT. BGS	690.8				
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-09)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH7-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	707.8				
	TOPSOIL, some sand, brown and black			1SS		15
		705.8				
- 2.5	SP-SAND, some cement pieces, dark brown			2SS		>50
	- gray, wet					
- 5.0			8" ø BOREHOLE	3SS		26
				4SS		5
- 7.5	- some gravel					
			CEMENT/ BENTONITE GROUT	5SS		4
- 10.0				6SS		13
- 12.5						
- 15.0	SC-SAND, some clay, gray, wet	692.8		7SS		32
		690.8				
- 17.5	CL-CLAY, gray, wet					
	END OF HOLE ● 17.0 FT. BGS					
- 20.0						
- 22.5						
- 25.0						
- 27.5						
- 30.0						
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-10)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH8-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	706.5				
	TOPSOIL, some sand, black and red brown			1SS		11
2.5	SC-SAND, some clay, brown, damp	704.5		2SS		19
5.0	CL-CLAY, some sand, little gravel, brown and gray, wet	702.5		3SS		6
	SP-SAND, some gravel, brown and gray, wet	700.5	8"ø BOREHOLE	4SS		14
7.5	- gray		CEMENT/ BENTONITE GROUT	5SS		10
10.0	SM/GM-SAND and GRAVEL, some silt, gray, wet	696.5		6SS		26
12.5						
15.0	SC/GC-SAND and GRAVEL, gray, wet	691.5		7SS		54
17.5	CL-CLAY, gray, wet	689.5				
	END OF HOLE @ 17.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-11)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH9-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.4				
	TOPSOIL, some sand, black and brown, petroleum odor			1SS		19
2.5	SP-SAND, some topsoil, brown and black	706.4		(2SS)		11
5.0	Pt-PLANT ORGANICS, black, damp	704.4		3SS		2
	- wet, strong petroleum odor			(4SS)		1
7.5			6" ø BOREHOLE			
				5SS		2
10.0			CEMENT/ BENTONITE GROUT	6SS		17
12.5						
15.0	SM/ML-SAND and SILT, gray, wet, strong petroleum odor	693.4		7SS		37
17.5						
	CL-CLAY, gray, wet, strong petroleum odor	689.4				
20.0				8SS		29
	END OF HOLE @ 21.0 FT. BGS	687.4				
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-12)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH10-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.7				
0	TOPSOIL, some sand, black and reddish brown			1SS		11
2.5	Pt- PLANT ORGANICS, black and gray - wet, black	705.7		2SS		9
5.0				3SS		2
7.5	CL-CLAY, some sand and gravel, black and gray	701.7	8"ø BOREHOLE	4SS		13
10.0	SP-SAND, some gravel, gray, wet, strong petroleum odor - gray and black	699.7	CEMENT/ BENTONITE GROUT	5SS		22
12.5				6SS		24
15.0	SC/CL-SAND and CLAY, some gravel, black and gray, wet	692.7		7SS		36
17.5	CL-CLAY, gray, wet END OF HOLE @ 17.0 FT. BGS	690.7				
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-13)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH11-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.7				
	No recovery			1SS		43
2.5	Pt/SP-PLANT ORGANICS and SAND, black and brown	705.7		2SS		24
5.0	SP-SAND, some gravel, brown, wet	701.7	8" ø BOREHOLE	3SS		40
7.5	- fine grained, brown and gray			4SS		43
10.0	SM/GM-SAND and GRAVEL, some silt, brown gray and brown, wet	697.7	CEMENT/ BENTONITE GROUT	5SS		33
12.5				6SS		44
15.0	SC/CL-SAND and CLAY, some gravel, brown gray and gray, wet	692.7		7SS		53
17.5	CL-CLAY, gray, wet	690.7				
	END OF HOLE @ 17.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-14)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH12-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.7				
2.5	TOPSOIL, brown and black – some sand			1SS		17
				2SS		50
5.0	SP–SAND, brownish black and gray, wet, oil odor – some gravel, gray	703.7		3SS		6
7.5	– slight oil odor		8"ø BOREHOLE	4SS		37
				5SS		35
10.0	SM/GM–SAND and GRAVEL, some silt, brown and gray, wet	697.7	CEMENT/ BENTONITE GROUT	6SS		43
12.5						
15.0				7SS		45
17.5						
20.0	SM/ML–SAND and SILT, some clay, brown, wet	687.7		8SS		21
22.5	CL–CLAY, gray, wet END OF HOLE @ 22.0 FT. BGS	685.7				
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (◯) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-15)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH13-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.2				
	TOPSOIL, brown and black			1SS		21
		706.2				
2.5	Pt-PLANT ORGANICS, black			2SS		15
	- wet					
5.0				3SS		6
	- some gravel					
7.5			8"ø BOREHOLE	4SS		14
				5SS		27
10.0	Pt/SM-PLANT ORGANICS and SAND, some silt, black and gray, wet, petroleum odor	698.2	CEMENT/ BENTONITE GROUT	6SS		31
12.5						
15.0				7SS		52
17.5						
20.0	SM/ML-SAND and SILT, some clay, gray, wet	688.2		8SS		48
		686.2				
22.5	CL-CLAY, gray, wet					
	END OF HOLE @ 22.0 FT. BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-16)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH14-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.3				
	TOPSOIL, some plant organics, some gravel, brown			1SS		39
2.5	Pt/SP-PLANT ORGANICS and SAND, some gravel, brown and reddish brown	707.3		2SS		11
5.0	SP-SAND, some gravel, light brown	705.3		3SS		60
	- brown, wet			4SS		63
7.5	- gray		8"ø BOREHOLE			
				5SS		36
10.0				6SS		21
			CEMENT/ BENTONITE GROUT			
12.5						
15.0	SM/ML-SAND and GRAVEL, gray, wet	694.3		7SS		52
17.5						
20.0	SC/CL-SAND and CLAY, brown and gray, wet	689.3		8SS		45
22.5	CL-CLAY, gray, wet	687.3				
	END OF HOLE @ 22.0 FT. BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-17)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH15-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	708.2				
	TOPSOIL, brown and black			1SS		10
2.5	SP-SAND, some gravel, topsoil, reddish brown, wet	706.2		2SS		57
	- no topsoil, brown, damp					
5.0			8" ø BOREHOLE	3SS		7
				4SS		4
7.5	- black and brown					
			CEMENT/ BENTONITE GROUT	5SS		6
10.0	- no gravel, gray and brown			6SS		10
12.5						
15.0	SM/ML-SAND and SILT, some clay, gray and brown, wet	693.2		7SS		34
17.5	CL-CLAY, gray, wet	691.2				
	END OF HOLE @ 17.0 FT BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-18)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH16-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.2				
0	TOPSOIL, brown and black			1SS	X	19
2.5	Pt-PLANT ORGANICS, black	705.2		2SS	X	2
	- wet					
5.0				3SS	X	9
			8" ø BOREHOLE			
7.5				4SS	X	2
			CEMENT/ BENTONITE GROUT			
10.0				5SS	X	2
				6SS	X	2
12.5						
15.0	SM/ML-SAND and SILT, some gravel, gray, wet	692.2		7SS	X	37
17.5	CL-CLAY, gray, wet	690.2				
	END OF HOLE @ 17.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-21)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH19-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.5				
	TOPSOIL, black			1SS		9
		706.5				
2.5	SP-SAND, brown and reddish brown			2SS		23
	- some gravel, brown, damp					
5.0				3SS		16
				4SS		52
7.5	- gray, oil odor		8"ø BOREHOLE			
				5SS		31
10.0						
			CEMENT/ BENTONITE GROUT	6SS		47
12.5						
15.0	SW-SAND, fine to coarse grained, gray, wet.	693.5		7SS		27
17.5						
20.0	SC/CL-SAND and CLAY, coarse grained, gray, wet	688.5		8SS		38
		686.5				
22.5	CL-CLAY, gray, wet					
	END OF HOLE @ 22.0 FT BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-22)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH20-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.5				
	TOPSOIL, some sand, black and brown			1SS		14
2.5	Pt-PLANT ORGANICS, black, damp	706.5		2SS		31
	- wet					
5.0				3SS		50
7.5			8"ø BOREHOLE	4SS		19
				5SS		16
10.0			CEMENT/ BENTONITE GROUT	6SS		17
12.5						
15.0	SM/ML-SAND and SILT, black and brown, wet	693.5		7SS		58
17.5						
20.0				8SS		31
22.5	CL-CLAY, gray, wet	686.5				
	END OF HOLE @ 22.0 FT. BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-23)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH21-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	709.3				
	TOPSOIL, brown and black			1SS		15
2.5	Pt-PLANT ORGANICS, black	707.3		2SS		4
5.0				3SS		6
7.5			8" ø BOREHOLE	4SS		2
10.0	Pt/SM-PLANT ORGANICS and SAND, some silt, brown, wet	699.3	CEMENT/ BENTONITE GROUT	5SS		2
12.5				6SS		26
15.0	SM/ML-SAND and SILT, black and brown, wet	694.3		7SS		46
17.5	CL-CLAY, gray, wet	691.3		8SS		25
20.0	END OF HOLE ● 20.0 FT. BGS	689.3				
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-24)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH22-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: F. RING

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.5				
2.5	SP-SAND some gravel, fine grained, black to dark brown			1SS	X	29
				2SS	X	6
5.0	SW-SAND, some gravel, medium to coarse grained, black	703.5	8" ø BOREHOLE	3SS	X	7
7.5				4SS	/	7
	SP-SAND, some gravel, fine grained, black, wet	699.5	CEMENT/ BENTONITE GROUT	5SS	X	7
10.0				6SS	X	8
12.5						
15.0	CL-CLAY, gray	692.5		7SS	X	26
17.5	END OF HOLE @ 17.0 FT. BGS	690.5				
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-25)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH23-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: F. RING

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	706.9				
0	SP-SAND, some gravel, organics, fine grained, black and red			1SS		18
2.5				2SS		7
	- black					
5.0				3SS		3
	- no organics		8" ø BOREHOLE			
7.5				4SS		2
			CEMENT/ BENTONITE GROUT			
10.0				5SS		2
				6SS		2
12.5						
15.0	CL-CLAY, gray	691.9		7SS		19
17.5	END OF HOLE @ 17.0 FT. BGS	689.9				
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-26)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH24-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: F. RING

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	*708.7*				
	SP-SAND, some gravel, organics, fine grained, black			1SS	X	4
2.5				2SS	/	10
	– no organics, dark brown to black					
5.0				3SS	X	16
			8"ø BOREHOLE			
7.5				4SS	X	35
	SW-SAND, fine to medium grained, light brown	*700.7*	CEMENT/ BENTONITE GROUT	5SS	X	22
10.0	SP-SAND, some gravel, medium grained, light brown to black	*698.7*		6SS	X	15
12.5						
15.0	SC/CL-SAND and CLAY, some gravel, light brown	*693.7*		7SS	X	30
17.5	CL-CLAY, gray, wet	*691.7*				
	END OF HOLE @ 17.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (◯) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-27)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH25-93
(Page 1 of 2)
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.1				
	TOPSOIL, some sand, black and red brown			1SS	X	10
- 2.5	Pt/SP-PLANT ORGANICS and SAND, some rocks, black and reddish brown	707.1		2SS	X	9
- 5.0	- some gravel, black and brown, wet			3SS	X	2
- 7.5				4SS	X	10
- 10.0	SP-SAND, some gravel, brown, wet	699.1		5SS	X	26
	- fine grained		8" ø BOREHOLE	6SS	X	38
- 12.5				7SS	X	27
- 15.0				8SS	X	34
	SM/ML-SAND and SILT, some gravel, brown, wet	693.1		9SS	X	66
- 17.5	- no gravel		CEMENT/ BENTONITE GROUT	10SS	X	72
- 20.0				11SS	X	88
- 22.5						
- 25.0				12SS	X	50
- 27.5						
- 30.0				13SS	X	90
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-27)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH25-93 (Page 2 of 2)
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
35.0	SC/CL-SAND and CLAY, some silt, brown and gray, wet	674.1	8"ø BOREHOLE; CEMENT/ BENTONITE GROUT	14SS	X	84
37.5	END OF HOLE @ 37.0 FT. BGS	672.1				
40.0						
42.5						
45.0						
47.5						
50.0						
52.5						
55.0						
57.5						
60.0						
62.5						
65.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-28)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH26-93
(Page 1 of 2)
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.7				
	TOPSOIL, some sand, black and brown			1SS		14
2.5	Pt/SP-PLANT ORGANICS and SAND, some gravel, brown and black	706.7		2SS		7
5.0	Pt-PLANT ORGANICS, black, damp	704.7		3SS		6
7.5	Pt/SP-PLANT ORGANICS and SAND, some gravel, brown and gray	702.7		4SS		12
	SP-SAND, some gravel, gray and wet	700.7		5SS		4
10.0				6SS		7
12.5			6" ø BOREHOLE	7SS		12
	- fine grained, brown and gray			8SS		17
15.0				9SS		64
17.5			CEMENT/ BENTONITE GROUT	10SS		70
	SM/ML-SAND and SILT, some gravel, brown, wet	690.7		11SS		100
20.0	- no gravel, gray			12SS		93
22.5				13SS		80
25.0				14SS		90
27.5				15SS		50
30.0				16SS		50
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-28)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH26-93 (Page 2 of 2)
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
35.0	SC/CL-SAND and CLAY, some silt, gray, wet	673.7	8"ø BOREHOLE; CEMENT/ BENTONITE GROUT	17SS		1
37.5	END OF HOLE @ 37.0 FT. BGS	671.7				
40.0						
42.5						
45.0						
47.5						
50.0						
52.5						
55.0						
57.5						
60.0						
62.5						
65.0						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-29)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH27-93
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.7				
	SP-SAND, some topsoil, brown			1SS		31
2.5	TOPSOIL, black	706.7		2SS		7
5.0	Pt-PLANT ORGANICS, black, damp	704.7		3SS		2
	- wet					
7.5	- some gravel, oil odor		8" ø BOREHOLE	4SS		0
				5SS		0
10.0	SP/GP-SAND and GRAVEL, organics, fine grained, black and brown, oil odor	698.7	CEMENT/ BENTONITE GROUT	6SS		36
12.5	SP-SAND, some gravel, gray and brown, wet	696.7		7SS		30
	- fine grained					
15.0				8SS		41
17.5				9SS		17
	SC/CL-SAND and CLAY, gray and brown, wet	690.7		10SS		18
20.0	CL-CLAY, gray, wet	688.7				
	END OF HOLE @ 20.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-30)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH28-93
DATE COMPLETED: MAY 16, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.3				
	TOPSOIL, some sand, black and reddish brown			1SS		12
2.5	TOPSOIL, black	707.3		2SS		11
5.0				3SS		9
	SP-SAND, topsoil, black, wet	703.3	8" ø BOREHOLE	4SS		0
7.5	- black and gray, oil odor					
10.0	- black and brown, oil odor		CEMENT/ BENTONITE GROUT	5SS		8
				6SS		26
12.5	SW-SAND, fine to coarse grained, gray and brown	697.3		7SS		22
15.0				8SS		68
	SC/CL-SAND and CLAY, coarse grained, gray, wet	693.3		9SS		43
17.5	CL-CLAY, gray, wet	691.3				
	END OF HOLE @ 18.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-31)

PROJECT NAME: TEXTILE ROAD
HOLE DESIGNATION: BH29-93

PROJECT NO.: 4770
DATE COMPLETED: MAY 14, 1993

CLIENT: TEXTILE ROAD PRP GROUP
DRILLING METHOD: 4 1/4" ID HSA

LOCATION: WASHTENAW COUNTY, MI
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.6				
0	CL-CLAY, some organics, metallic dust, brown and red brown			1SS		8
2.5	SC/CL-SAND and CLAY, hard black substance, gray and brown, damp	705.6		2SS		42
5.0	Pt/SP-PLANT ORGANICS and SAND, black, reddish brown and brown, damp	703.6		3SS		12
7.5	SP-SAND, hard black substance, brown, wet - some gravel, brown	701.6	8"ø BOREHOLE	4SS		22
10.0	- gray and black		CEMENT/ BENTONITE GROUT	5SS		10
				6SS		9
12.5	GM/SM-GRAVEL and SAND, some silt, gray, gray brown and black	695.6		7SS		2
15.0	SW-SAND, fine to coarse grained, gray brown and brown, wet	693.6		8SS		19
17.5	SC/CL-SAND and CLAY, gray and brown, wet	691.6		9SS		7
	CL-CLAY, gray, wet	689.6				
20.0	END OF HOLE @ 18.0 FT BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-32)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH30-93
DATE COMPLETED: MAY 14, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.6				
	TOPSOIL, some sand, organics, brown and black			1SS	X	16
2.5	Pt/SP-PLANT ORGANICS and SAND, some gravel, black and brown, damp	705.6		(2SS)	X	100
5.0	SP-SAND, some gravel, organics, brown and black, damp	703.6	8"ø BOREHOLE	3SS	X	10
7.5				4SS	/	4
	Pt-PLANT ORGANICS, some gravel, black, wet	699.6	CEMENT/ BENTONITE GROUT	(5SS)	X	4
10.0	SP-SAND, gray and black, wet	697.6		6SS	X	18
12.5	- fine grained, black and brown			7SS	X	79
	SC/CL-SAND and CLAY, fine grained, gray brown, wet	693.6		8SS	X	24
15.0	CL-CLAY, gray, wet	691.6				
17.5	END OF HOLE @ 16.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-33)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH31-93
DATE COMPLETED: MAY 14, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.8				
0.0	TOPSOIL, some coarse grained sand, black and brown	706.3		1SS		18
2.5	SP-SAND, organics, rock, brown and black - no rock			2SS		53
5.0				3SS		11
	Pt-PLANT ORGANICS, black, wet	702.8	8" ø BOREHOLE	4SS		2
7.5	- some gravel			5SS		5
10.0	SM-SAND, some silt, coarse grained, black and brown, wet	698.8	CEMENT/ BENTONITE GROUT	6SS		2
12.5	SP-SAND, some gravel, brown, wet	696.8		7SS		36
	SW-SAND, fine to coarse grained, brown, wet	694.8		8SS		51
15.0	SC/CL-SAND and CLAY, gray, wet	692.8		9SS		35
17.5	CL-CLAY, gray, wet	690.8				
	END OF HOLE @ 18.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

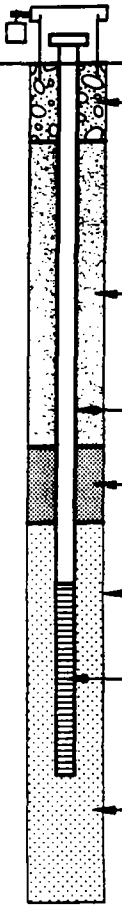
(L-34)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH32-93/MW5U
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL
	GROUND SURFACE	706.1
	TOPSOIL, grass, dry	
2.5	FILL, brick	704.1
	– concrete and brick	
5.0	– wood fragments	
7.5		
	SP–SAND, wood fragments, saturated	698.1
10.0	FILL, some sand, black and brown	696.1
12.5	SP–SAND, loose, brown, wet	694.1
15.0		
17.5		
	CL–CLAY, stiff to very stiff, gray	688.1
20.0		
22.5	END OF HOLE @ 22.0 FT. BGS	684.1
25.0		
27.5		
30.0		
32.5		

MONITOR INSTALLATION



SCREEN DETAILS:
Screened Interval:
13.6 to 18.6' BGS
Length –5.0'
Diameter –2.0"
Slot # 10
Material –Stainless Steel
Sand pack interval:
12.0 to 22.0' BGS
Material –# 20–40 Silica Sand

SAMPLE NUMBER	STATE	'N' VALUE
1SS		43
2SS		>50
3SS		13
4SS		11
5SS		14
6SS		11
7SS		43
8SS		25
9SS		36
10SS		19

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-35)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH33-93
DATE COMPLETED: MAY 14, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	705.9				
2.5	TOPSOIL, some sand, some clay, black and brown – rock			1SS		27
		701.9		2SS		>100
5.0	SP–SAND, gray and brown, wet		8" ø BOREHOLE	3SS		11
7.5	CL–CLAY, some gravel, some sand, gray and brown, wet	699.9		4SS		2
	SP–SAND, some gravel, gray and brown, wet	697.9	CEMENT/ BENTONITE GROUT	5SS		14
10.0	– no gravel, coarse grained, brown			6SS		24
12.5	– some gravel, fine grained, gray and brown			7SS		31
	SC/CL–SAND and CLAY, brown and gray, wet	691.9		8SS		31
15.0	CL–CLAY, gray, wet	689.9				
17.5	END OF HOLE @ 16.0 FT BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (◯) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-36)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH34-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	708.7				
	TOPSOIL, some sand, brown and gray			1SS		24
2.5	SP-SAND, some gravel, organics, brown and black	706.7		2SS		38
5.0	GP-GRAVEL, gray and brown	704.7		3SS		11
7.5	SP-SAND, black, wet	700.7	8" ø BOREHOLE	4SS		26
10.0	SM-SAND, some silt, black, wet	698.7	CEMENT/ BENTONITE GROUT	5SS		3
12.5	SP-SAND, black and brown, wet	696.7		6SS		10
15.0	SW-SAND, fine to coarse grained, brown and black, wet	694.7		7SS		18
17.5	SP-SAND, brown, wet	692.7		8SS		40
20.0	SC/CL-SAND and CLAY, coarse grained, brown and gray, wet	690.7		9SS		39
22.5	CL-CLAY, gray, wet	688.7		10SS		28
25.0	END OF HOLE @ 20.0 FT. BGS					
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-37)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH35-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	705.4				
	SP-SAND, some topsoil, brown and black			1SS		9
2.5	SP-SAND, organics, black and brown, damp	703.4		2SS		16
	- no organics, brown and gray					
5.0	- brown, wet		8"ø BOREHOLE	3SS		2
7.5				4SS		26
			CEMENT/ BENTONITE GROUT	5SS		17
10.0				6SS		25
12.5	- coarse grained, brown, wet			7SS		22
15.0				8SS		23
	SC/CL-SAND and CLAY, coarse grained, brown and gray, wet	689.4		9SS		28
17.5	CL-CLAY, gray, wet	687.4				
	END OF HOLE @ 18.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-38)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH36-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.4				
	TOPSOIL, black			1SS		25
2.5	CL-CLAY, organics, brown and black	705.4		2SS		4
5.0	– wet		8"ø BOREHOLE	3SS		3
7.5	– no organics, gray brown			4SS		12
10.0	– some gravel		CEMENT/ BENTONITE GROUT	5SS		13
				6SS		4
12.5	GP-GRAVEL, some sand, gray and black	695.4		7SS		11
	– gray and brown					
15.0				8SS		35
	SC-SAND, some clay, some gravel, gray, black and brown, wet	691.4				
17.5	CL-CLAY, gray, wet	689.4		9SS		25
	END OF HOLE @ 18.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-39)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH37-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	705.5				
	TOPSOIL, some sand, some clay, brown			1SS		9
- 2.5	SC/CL-SAND and CLAY, brown	703.5		2SS		10
- 5.0	CL-CLAY, brown, damp	701.5	8"ø BOREHOLE	3SS		4
	- organics, pebbles, brown and black					
- 7.5	- no pebbles, wet		CEMENT/ BENTONITE GROUT	4SS		2
- 10.0	CL/SC-CLAY and SAND, fine grained, brown and gray, wet	695.5		5SS		2
- 12.5	SP-SAND, fine grained, gray and brown, wet	693.5		6SS		2
	SC/CL-SAND and CLAY, gray and brown, wet	691.5		7SS		35
- 15.0	CL-CLAY, gray, wet	689.5		8SS		17
- 17.5	END OF HOLE @ 16.0 FT. BGS					
- 20.0						
- 22.5						
- 25.0						
- 27.5						
- 30.0						
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⊂ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-40)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH38-93
DATE COMPLETED: MAY 13, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.4				
	SP-SAND, topsoil, brown			1SS		22
		705.4				
2.5	Pt-PLANT ORGANICS, black			2SS		8
	- wet					
5.0	- some fine grained sand		8" ø BOREHOLE	3SS		3
7.5				4SS		4
	SP-SAND, coarse grained, black, wet	699.4	CEMENT/ BENTONITE GROUT	5SS		2
10.0				6SS		2
	- some pebbles, black and brown			7SS		3
12.5	- no pebbles					
15.0				8SS		13
	SC/CL-SAND and CLAY, some pebbles, brown and gray, wet	691.4		9SS		24
17.5	CL-CLAY, gray, wet	689.4				
	END OF HOLE @ 18.0 FT. BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-41)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH39-93
DATE COMPLETED: MAY 12, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	710.0				
	TOPSOIL, some sand, brown			1SS		35
		708.0				
2.5	SP-SAND, pebbles, brown			2SS		44
	- damp					
5.0				3SS		9
	- wet					
7.5			8"ø BOREHOLE	4SS		7
				5SS		36
10.0						
			CEMENT/ BENTONITE GROUT	6SS		10
12.5				7SS		23
15.0				8SS		27
				9SS		99
17.5	- gray and brown					
				10SS		16
20.0	SC/CL-SAND and CLAY, gray and brown, wet	690.0		11SS		39
	CL-CLAY, gray, wet	688.0				
22.5	END OF HOLE @ 22.0 FT. BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-42)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH40-93
DATE COMPLETED: MAY 12, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	707.4				
2.5	SP-SAND, some stones, brown			1SS		11
	- brown and black			2SS		40
5.0				3SS		16
	- wet		8" ø BOREHOLE	4SS		26
7.5				5SS		48
10.0	- some pebbles, brown		CEMENT/ BENTONITE GROUT	6SS		25
	- stones and pebbles			7SS		99
12.5				8SS		14
	- fine grained, pebbles			9SS		65
15.0				10SS		19
17.5						
	SC/CL-SAND and CLAY, fine grained, brown and gray, wet	689.4				
20.0	CL-CLAY, gray, wet	687.4				
	END OF HOLE @ 20.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-43)

PROJECT NAME: TEXTILE ROAD
HOLE DESIGNATION: BH41-93

PROJECT NO.: 4770
DATE COMPLETED: MAY 12, 1993

CLIENT: TEXTILE ROAD PRP GROUP
DRILLING METHOD: 4 1/4" ID HSA

LOCATION: WASHTENAW COUNTY, MI
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	708.1				
0	SP-SAND, brown			1SS		27
	– reddish brown					
2.5				2SS		18
	– some pebbles					
5.0				3SS		22
	– brown, wet		8" ø BOREHOLE			
7.5				4SS		36
			CEMENT/ BENTONITE GROUT			
10.0				5SS		22
				6SS		8
12.5				7SS		24
15.0				8SS		9
	SM-SAND, some silt, fine to coarse grained, brown and gray, wet	692.1		9SS		40
17.5	SP-SAND, some pebbles, coarse grained, brown, wet	690.1		10SS		18
20.0	SC/CL-SAND and CLAY, some pebbles, coarse grained, brown and gray, wet	688.1		12SS		10
22.5	CL-CLAY, gray, wet	686.1				
	END OF HOLE @ 22.0 FT. BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-44)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH42-93
DATE COMPLETED: MAY 12, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	704.9				
2.5	SP–SAND, reddish brown – gray brown and reddish brown			1SS		21
5.0	– some pebbles, gray brown, damp			2SS 3SS		17 4
7.5	SM–SAND, some silt, pebbles, gray and brown, wet	698.9	8" ø BOREHOLE	4SS		9
10.0	SP–SAND, some pebbles, fine grained, gray and brown, wet	696.9	CEMENT/ BENTONITE GROUT	5SS 6SS		13 23
12.5				7SS		32
15.0	– no pebbles			8SS		52
17.5	SC/CL–SAND and CLAY, gray brown, wet	688.9		9SS		40
	CL–CLAY, gray, wet	686.9				
20.0	END OF HOLE @ 18.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-45)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: SH43-93
DATE COMPLETED: MAY 11, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	704.0				
2.5	SP-SAND, reddish brown – gray and brown, damp – 3" concrete slab – fine grained, gray and black			1SS		23
				2SS		72
5.0				3SS		5
	SM-SAND, some silt, gray and black with yellow patches, gray and black, wet	698.0	8"ø BOREHOLE	4SS		45
7.5	SP-SAND, gray brown and reddish brown, wet	696.0		5SS		46
10.0			CEMENT/ BENTONITE GROUT	6SS		28
	– gray and brown			7SS		72
12.5						
15.0				8SS		30
	SC/CL-SAND and CLAY, gray and brown, wet	688.0				
17.5				9SS		20
	CL-CLAY, gray, wet	686.0				
	END OF HOLE @ 18.0 FT BGS					
20.0						
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-46)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH44-93
DATE COMPLETED: MAY 11, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	705.8				
	SP-SAND, some pebbles, light brown			1SS		22
2.5	- small stones, organics, brown and black, damp			2SS		26
	- brown					
5.0				3SS		42
	- some small stones		8"ø BOREHOLE	4SS		24
7.5						
				5SS		28
10.0			CEMENT/ BENTONITE GROUT			
				6SS		40
12.5				7SS		17
	- fine grained, wet					
15.0				8SS		23
				9SS		30
17.5						
	SC/CL-SAND and CLAY, fine grained, brown and gray, wet	687.8		10SS		18
20.0	CL-CLAY, gray, wet	685.8				
	END OF HOLE @ 20.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-47)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH45-93
DATE COMPLETED: MAY 15, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	705.7				
	SP-SAND, topsoil, brown and black			1SS		2
2.5	SP/GP-SAND and GRAVEL, coarse, brown, damp	703.7		2SS		41
	- wet					
5.0				3SS		28
7.5			8"ø BOREHOLE	4SS		7
				5SS		5
10.0			CEMENT/ BENTONITE GROUT	6SS		10
12.5				7SS		18
	SW/GW-SAND and GRAVEL, fine to coarse grained, brown, wet	691.7		8SS		20
15.0						
	SP-SAND, some gravel, gray and brown, wet	689.7		9SS		23
17.5	- no gravel					
				10SS		31
20.0	SC/CL-SAND and CLAY, gray and brown, wet	685.7		11SS		11
	CL-CLAY, gray, wet	683.7				
22.5	END OF HOLE @ 22.0 FT BGS					
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (◯) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-50)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH47-93
DATE COMPLETED: MAY 15, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	706.1				
2.5	TOPSOIL, some sand and clay, black and reddish brown – some sand and gravel, no clay, black and yellowish brown			1SS		10
				2SS		40
5.0	SP–SAND, some gravel, brown, wet	702.1		3SS		36
7.5			8" ø BOREHOLE	4SS		30
				5SS		23
10.0	– brown and gray		CEMENT/ BENTONITE GROUT	6SS		24
12.5	– brown			7SS		19
15.0	– fine grained, brown and gray			8SS		77
17.5	– gray			9SS		>100
	SC/CL–SAND and CLAY, fine grained, brown and gray, wet	688.1		10SS		39
20.0	CL–CLAY, gray, wet	686.1				
	END OF HOLE @ 20.0 FT. BGS					
22.5						
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-51)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH48-93
DATE COMPLETED: MAY 15, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE N VALUE
	GROUND SURFACE	705.0				
2.5	TOPSOIL, black – some sand, black, brown and gray			1SS		10
				2SS		19
5.0	SP–SAND, some gravel, brown, wet	701.0		3SS		2
	– gray			4SS		14
7.5			8"ø BOREHOLE			
10.0				5SS		12
			CEMENT/ BENTONITE GROUT	6SS		28
12.5				7SS		32
	– fine grained					
15.0				8SS		65
17.5				9SS		73
				10SS		25
20.0	GC/CL–GRAVEL and CLAY, gray, wet	685.0		11SS		11
22.5	CL–CLAY, gray, wet END OF HOLE ● 22.0 FT. BGS	683.0				
25.0						
27.5						
30.0						
32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

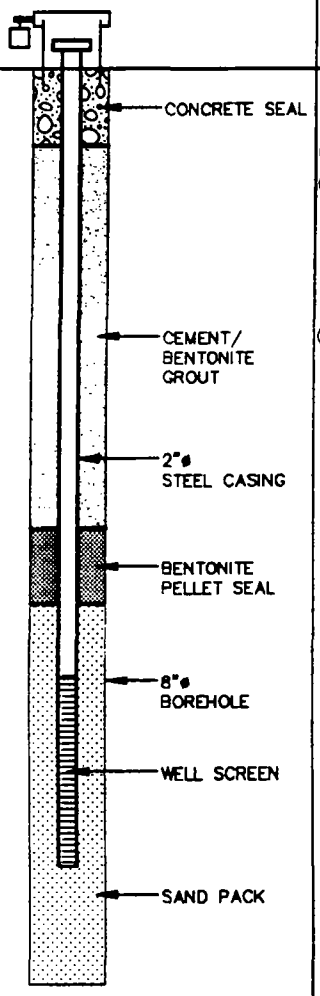
(L-52)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH49-93 / MW6U-93
DATE COMPLETED: MAY 17, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: B. SMITH

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL
	REFERENCE POINT (Top of Riser)	706.49
	GROUND SURFACE	705.1
	SP-SAND, medium grained, brown	
		703.1
2.5	SW-SAND, medium to coarse grained, brown	
5.0	– fine to medium grained, wet	
7.5		
10.0		
12.5		
15.0		
17.5		
	SP-SAND, fine grained, brown, wet	687.1
20.0		
22.5		
	CL-CLAY, very stiff, gray, dry	682.1
	END OF HOLE @ 24.0 FT. BGS	681.1
25.0		
27.5		
30.0		
32.5		

MONITOR INSTALLATION



SCREEN DETAILS:
Screened Interval:
15.9 to 20.9' BGS
Length -5.0'
Diameter -2.0"
Slot # 10
Material -Stainless Steel
Sand pack interval:
14.0 to 24.0' BGS
Material -# 20-40 Silica Sand

SAMPLE NUMBER	STATE	'N' VALUE
1SS		13
GS 2SS		40
3SS		36
4SS		50
5SS		19
6SS		16
7SS		31
8SS		17
9SS		23
10SS		72
11SS		26

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
GRAIN SIZE ANALYSIS GS
CHEMICAL ANALYSIS (2SS) WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-53)

PROJECT NAME: TEXTILE ROAD
PROJECT NO.: 4770
CLIENT: TEXTILE ROAD PRP GROUP
LOCATION: WASHTENAW COUNTY, MI

HOLE DESIGNATION: BH50-93
DATE COMPLETED: MAY 18, 1993
DRILLING METHOD: 4 1/4" ID HSA
CRA SUPERVISOR: F. RING

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	709.1				
	SP-SAND, fine grained, light brown			1SS		27
- 2.5	- some gravel			2SS		11
- 5.0	- light and dark brown			3SS		11
			8" ø BOREHOLE	4SS		43
- 7.5	SW-SAND, some gravel, fine to medium grained, light brown	701.1		5SS		7
- 10.0	SP-SAND, coarse grained, brown	699.1	CEMENT/ BENTONITE GROUT	6SS		26
- 12.5						
- 15.0	SW-SAND, some gravel, fine to medium grained, brown	694.1		7SS		19
- 17.5	CL-CLAY, gray	692.1		8SS		29
	END OF HOLE @ 19.0 FT. BGS	690.1				
- 20.0						
- 22.5						
- 25.0						
- 27.5						
- 30.0						
- 32.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval) WATER FOUND ▽ STATIC WATER LEVEL ▼

B

Huntingdon
Consulting Engineers & Environmental Scientists

Empire Soils Investigations, Inc.
Corporate Offices
140 Telegraph Road
Box 297
Middleport, New York 14105
(716)735-3502
Fax (716)735-9027

June 24, 1993

Mr. Glenn Turchan, P. Eng.
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive
Waterloo, Ontario CANADA N2V 1C2

SUBJECT: **GEOTECHNICAL TESTING**
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN
CRA PROJECT NO. 4770-22

Dear Mr. Turchan:

Transmitted herewith are the results of geotechnical laboratory testing performed on soil samples from the subject project. The study was conducted on basis of our Quote No. S93-136, dated March 11, 1993.

A total of eight (8) jar samples and two (2) thin wall tube samples were delivered to our laboratory in Middleport, New York on May 25, 1993. The samples were identified and catalogued as follows:

LAB NO.	BORING NO.	SAMPLE DEPTH (FT)	SAMPLE TYPE
1602.001	BH-2A-93	8.0-10.0	JAR
1602.002	BH-5A-93	2.0-4.0	JAR
1602.003	BH-17A-93	2.0-4.0	JAR
1602.004	BH-46A-93	2.0-4.0	JAR
1602.005	BH-49A-93	2.0-4.0	JAR
1602.006	BH-2D-93	70.0-72.0	JAR
1602.007	BH-5-93	26.5-27.5	TUBE
1602.008	BH-5D-93	68.0-70.0	JAR
1602.009	BH-46-93	29.0-31.0	TUBE
1602.010	BH-46D-93	83.0-85.0	JAR

As requested on Chain-of-Custody Records No. 000312, 000313, and 000314 accompanying the samples, we have performed grain size distribution analysis (ASTM D 422) on all the jar samples and flexible wall permeability test (ASTM D 5084) on specimens trimmed from the tube samples.

Individual Grain Size Distribution Test reports are presented in Appendix A. Permeability Test reports are contained in Appendix B.

It should be noted that we experienced a power outage about 18:30 on June 18, 1993. The resulting pressure fluctuations caused an anomaly in the flow versus time relationship for the permeability tests. For this reason, evaluation of tests results have been based on the observations made between 57,000 and 177,000 seconds elapsed time.

It has been a pleasure working with your Firm again on this interesting project. Should you have any questions or in case we may be of further service, do not hesitate to contact the undersigned at 716-735-3400.

Respectfully submitted,

EMPIRE SOILS INVESTIGATIONS, INC.

Jorgen F. Christiansen, PE
Director, Geotechnical Laboratory

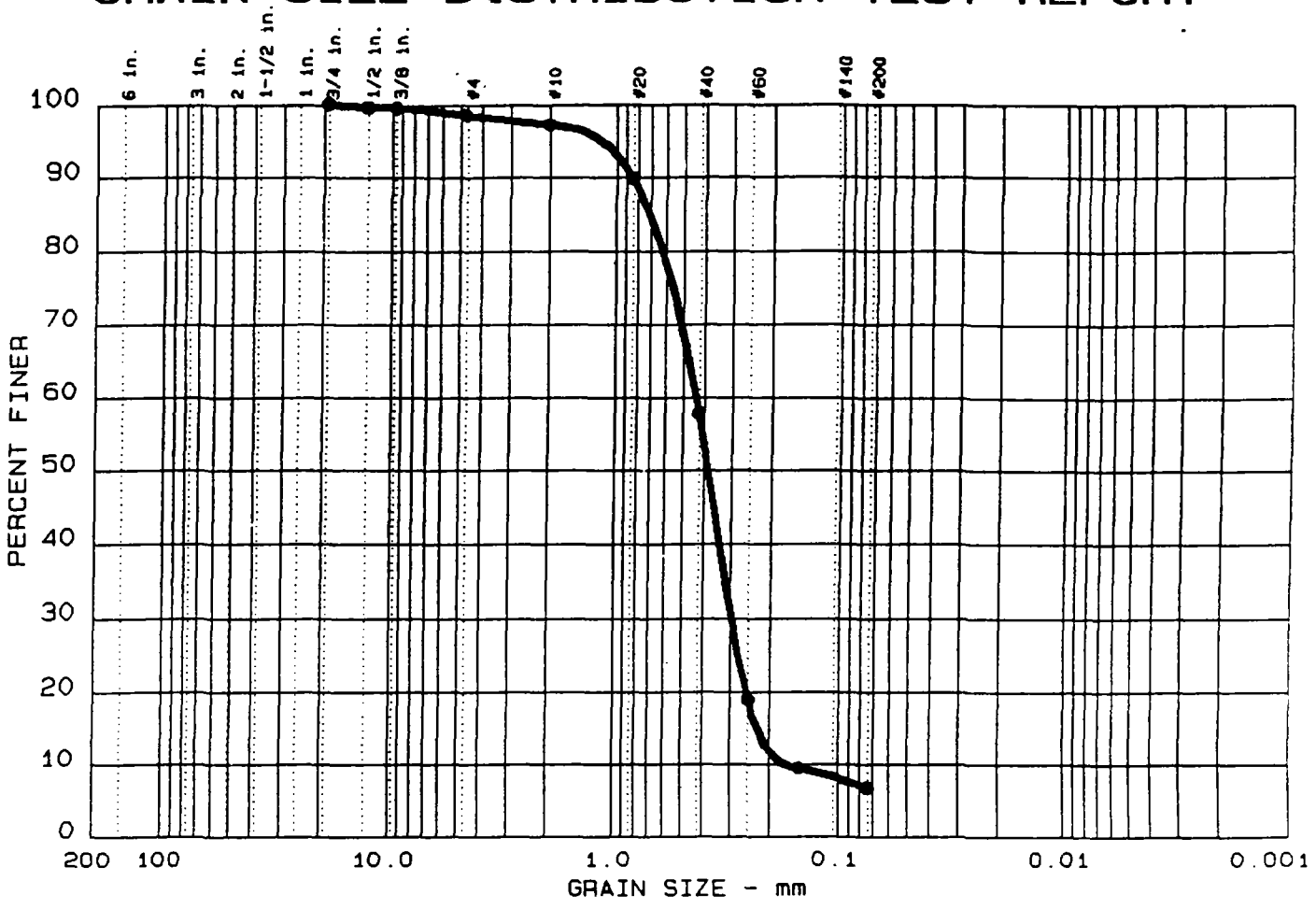
JFC/srk

Enc.

APPENDIX A

GRAIN SIZE DISTRIBUTION

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	7	0.0	1.5	91.8	6.7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0.71	0.43	0.38	0.297	0.2278	0.1708	1.19	2.5

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SAND, trace fines & sand, ORGANICS		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-2A-93 (8'- 10')

Date: JUNE 16, 1993

Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

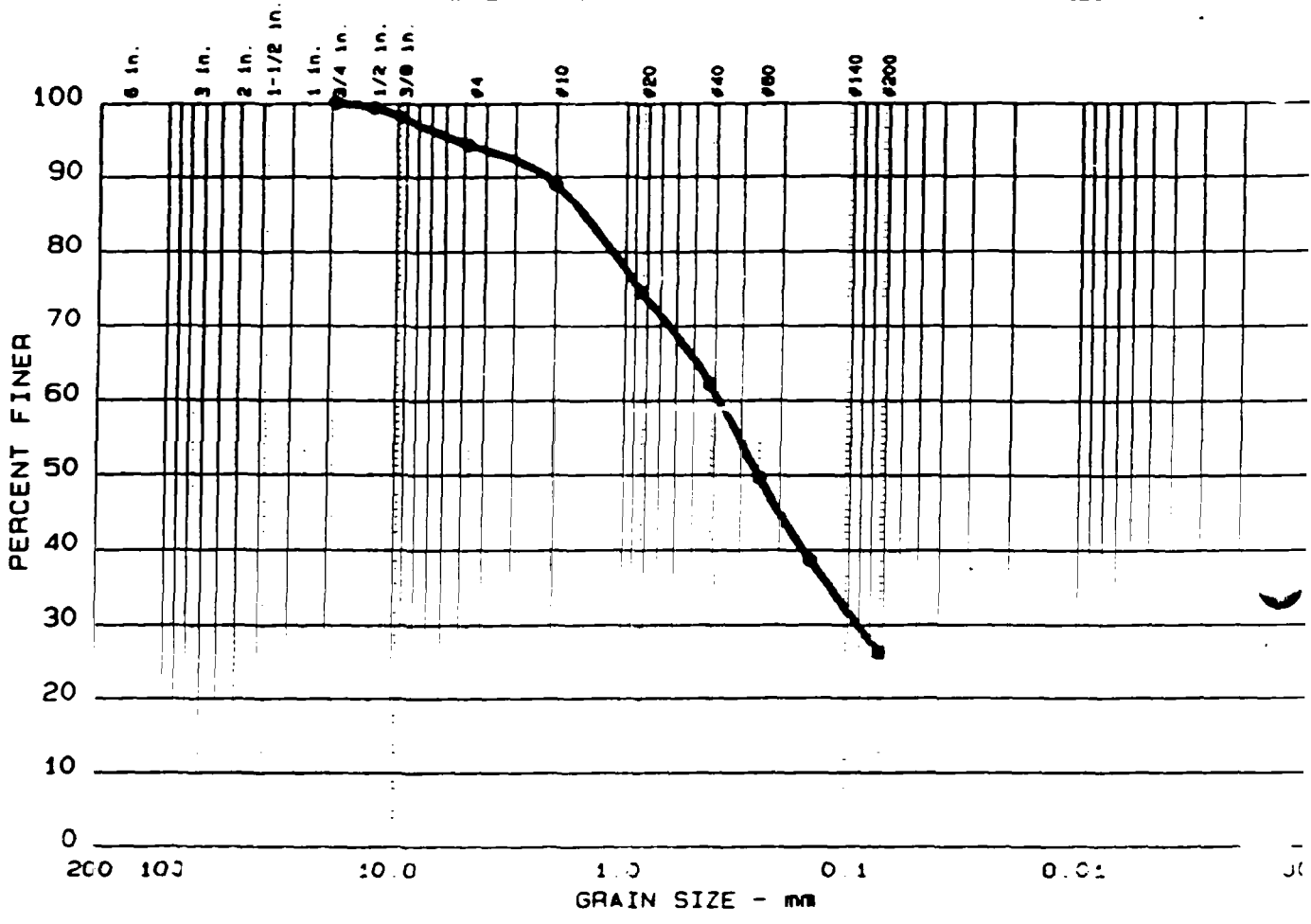
LAB NO. 1602.001

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	9	0.0	5.7	68.1	26.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
●			1.50	0.38	0.25	0.091				

MATERIAL DESCRIPTION	USCS	AASHTO
● BLACK SAND, Some Fines, trace gravel, ORGANICS		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-5A-93 (2'- 4')

Date: JUNE 15, 1993

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

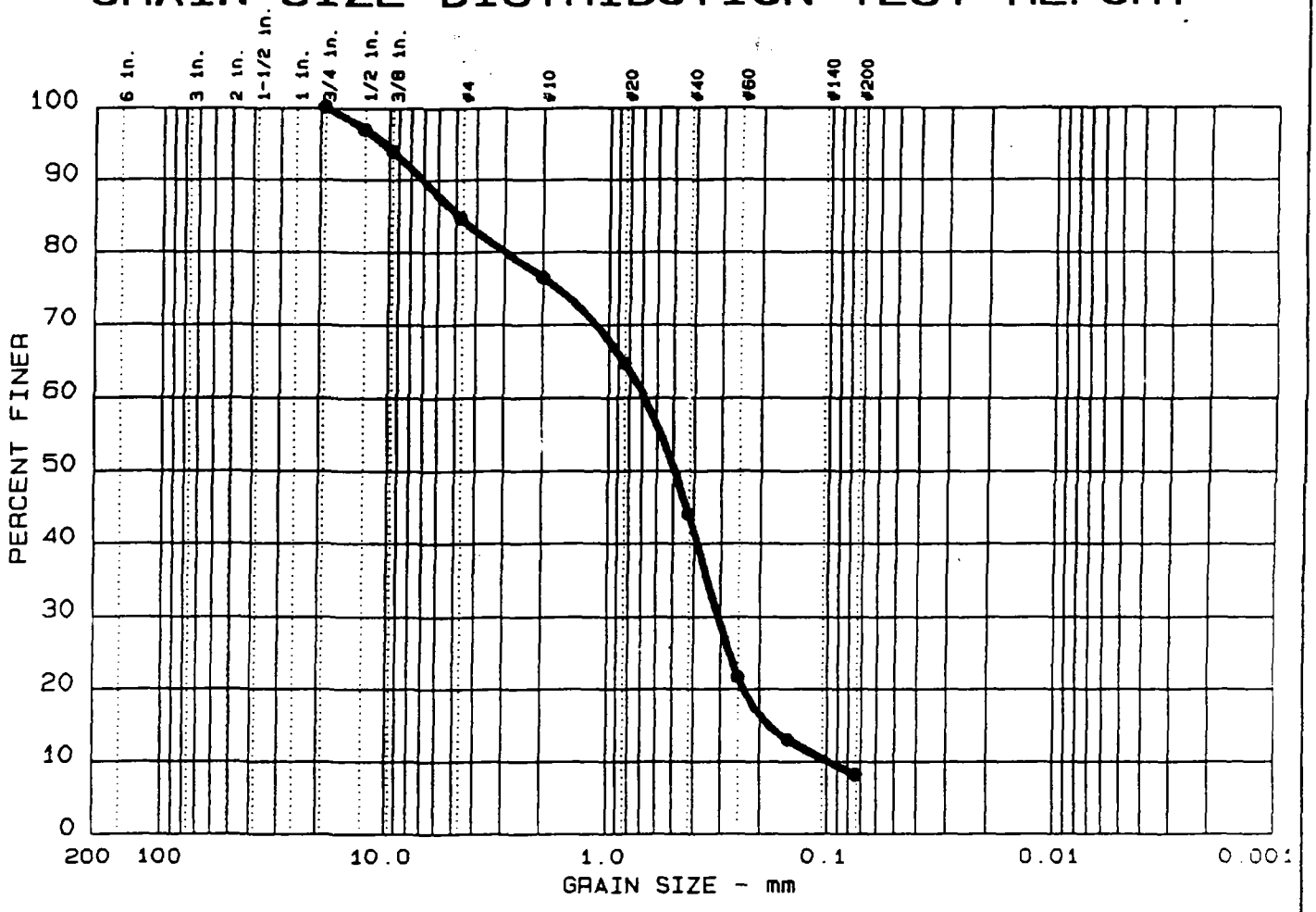
Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

LAB NO. 1602.002

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	10	0.0	15.2	76.6	8.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
●			4.84	0.68	0.49	0.308	0.1816	0.0986	1.43	6.9

MATERIAL DESCRIPTION	USCS	AASHTO
● BROWN SAND, Little Gravel, trace fines, ORGANIC		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-17A-93 (2'- 4')

Date: JUNE 16, 1993

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

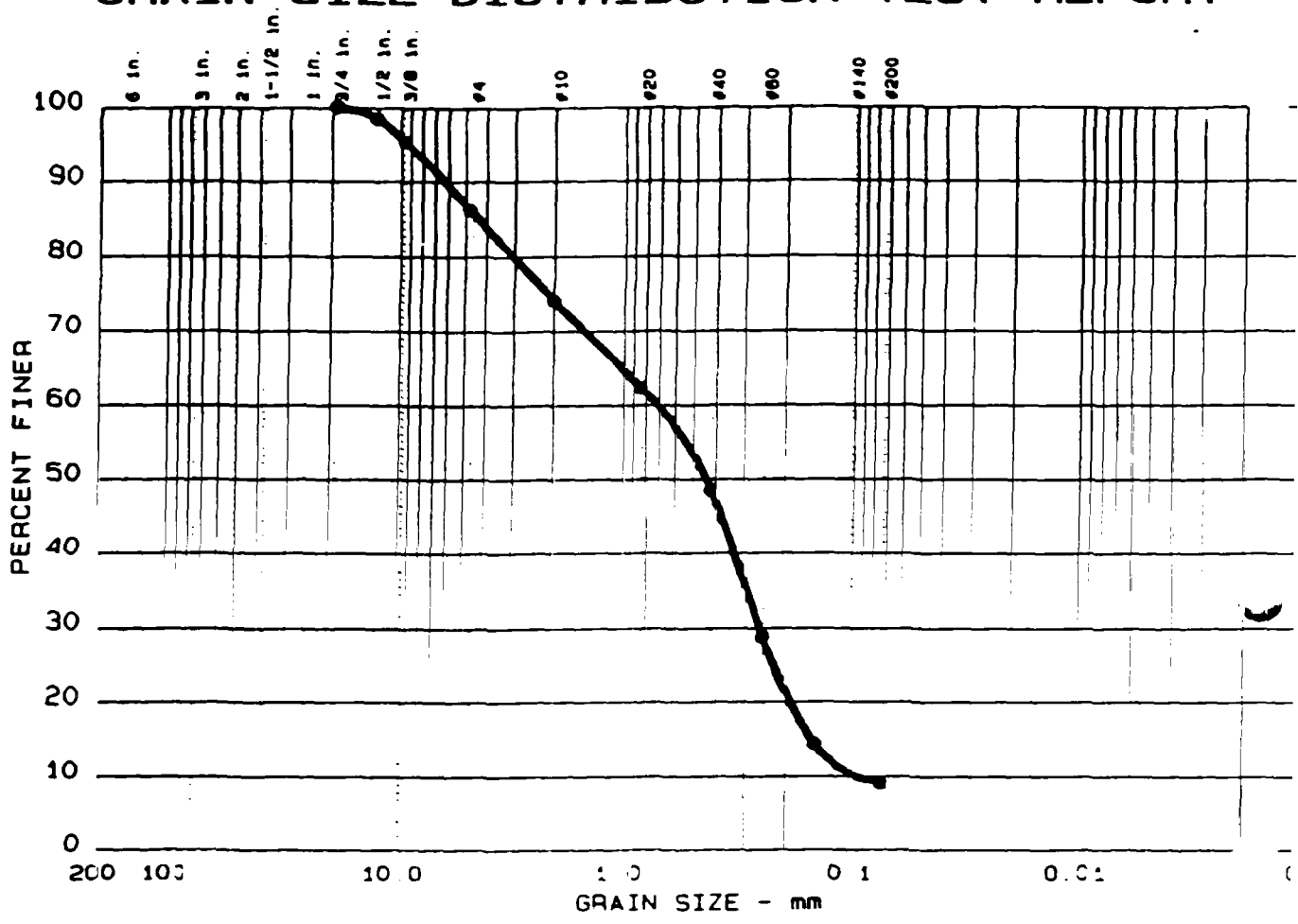
Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

LAB NO. 1602.003

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	11	0.0	13.7	77.1	9.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
●			4.32	0.71	0.44	0.257	0.1531	0.0933	1.00	7.6

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SAND, Little Gravel, trace fines, ORGANICS		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-46A-93 (2'- 4')

Date: JUNE 16, 1993

Remarks:

CLIENT: CONESTOGA ROVER & ASSOCIATES

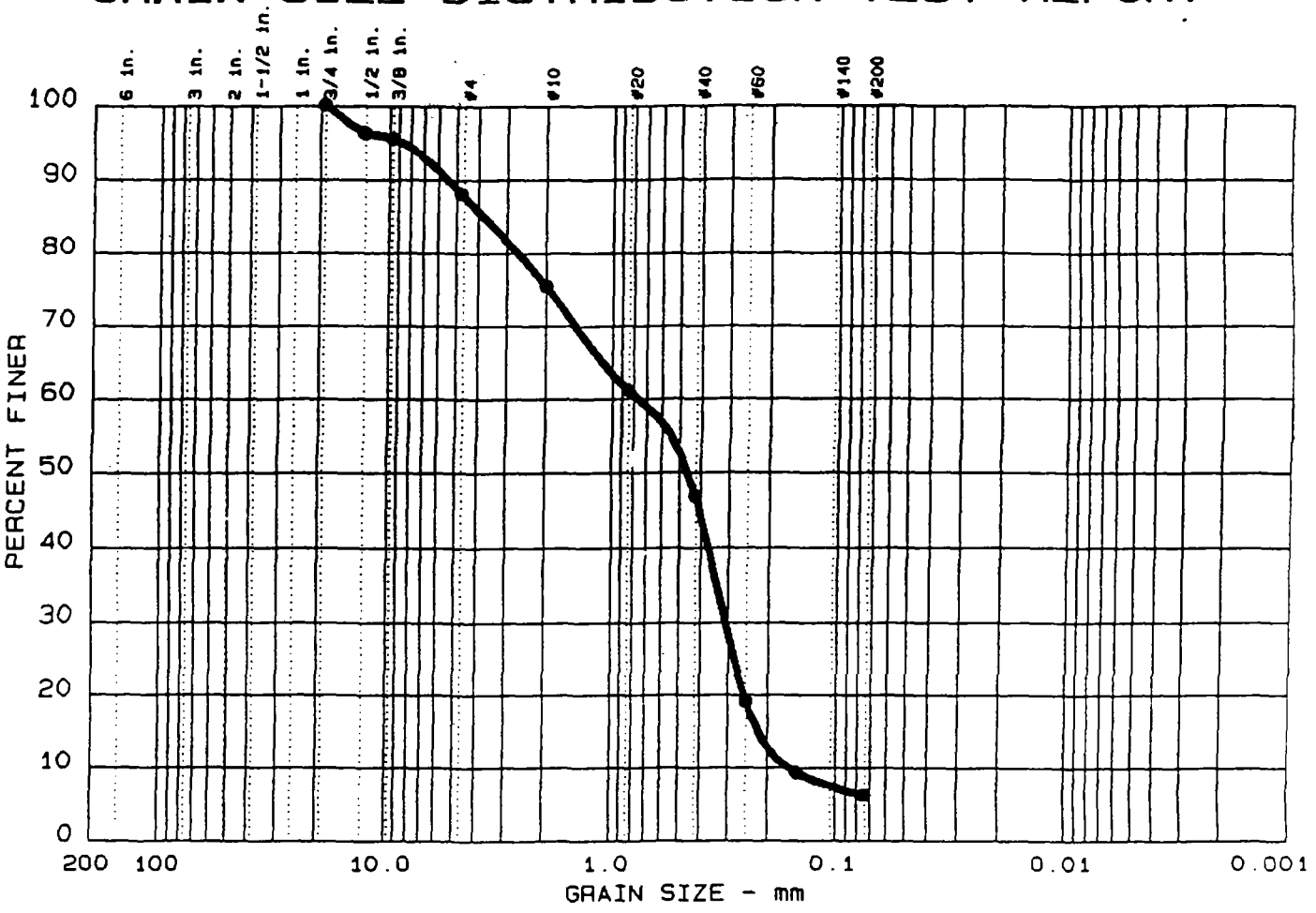
LAB NO. 1602.004

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS INC

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	12	0.0	11.9	81.9	6.2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
●			3.76	0.77	0.45	0.309	0.2211	0.1620	0.77	4.7

MATERIAL DESCRIPTION	USCS	AASHTO
● TAN SAND, Little Gravel, trace fines, ORGANICS		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-49A-93 (2'- 4')

Date: JUNE 16, 1993

Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

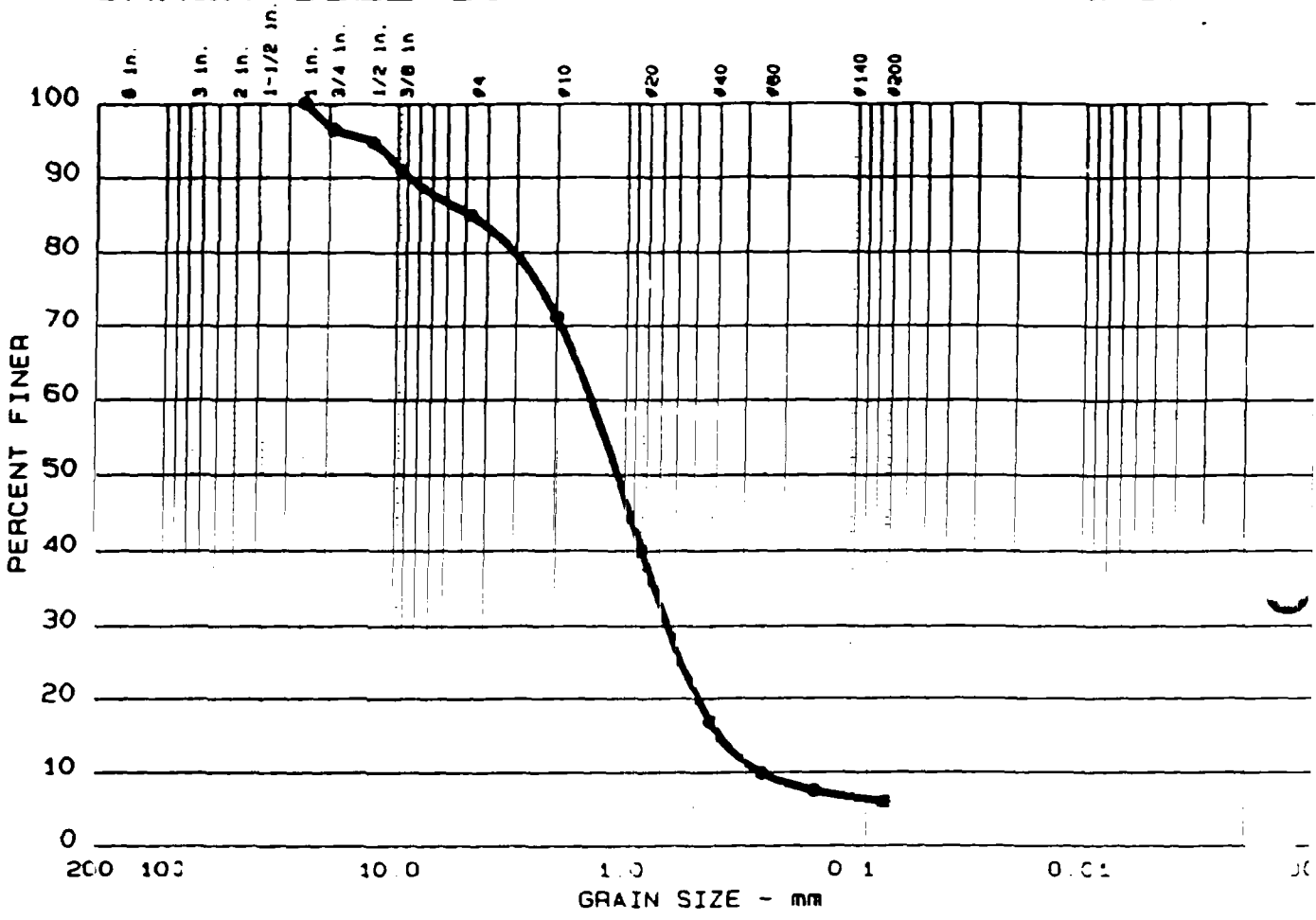
LAB NO. 1602.005

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	1	0.0	15.0	79.0	6.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
●			4.73	1.41	1.08	0.649	0.3824	0.2526	1.18	5.6

	MATERIAL DESCRIPTION	USCS	AASHTO
●	GREY SAND, Little Gravel, trace fines		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-2D-93 (70'- 72')

Date: JUNE 15, 1993

Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

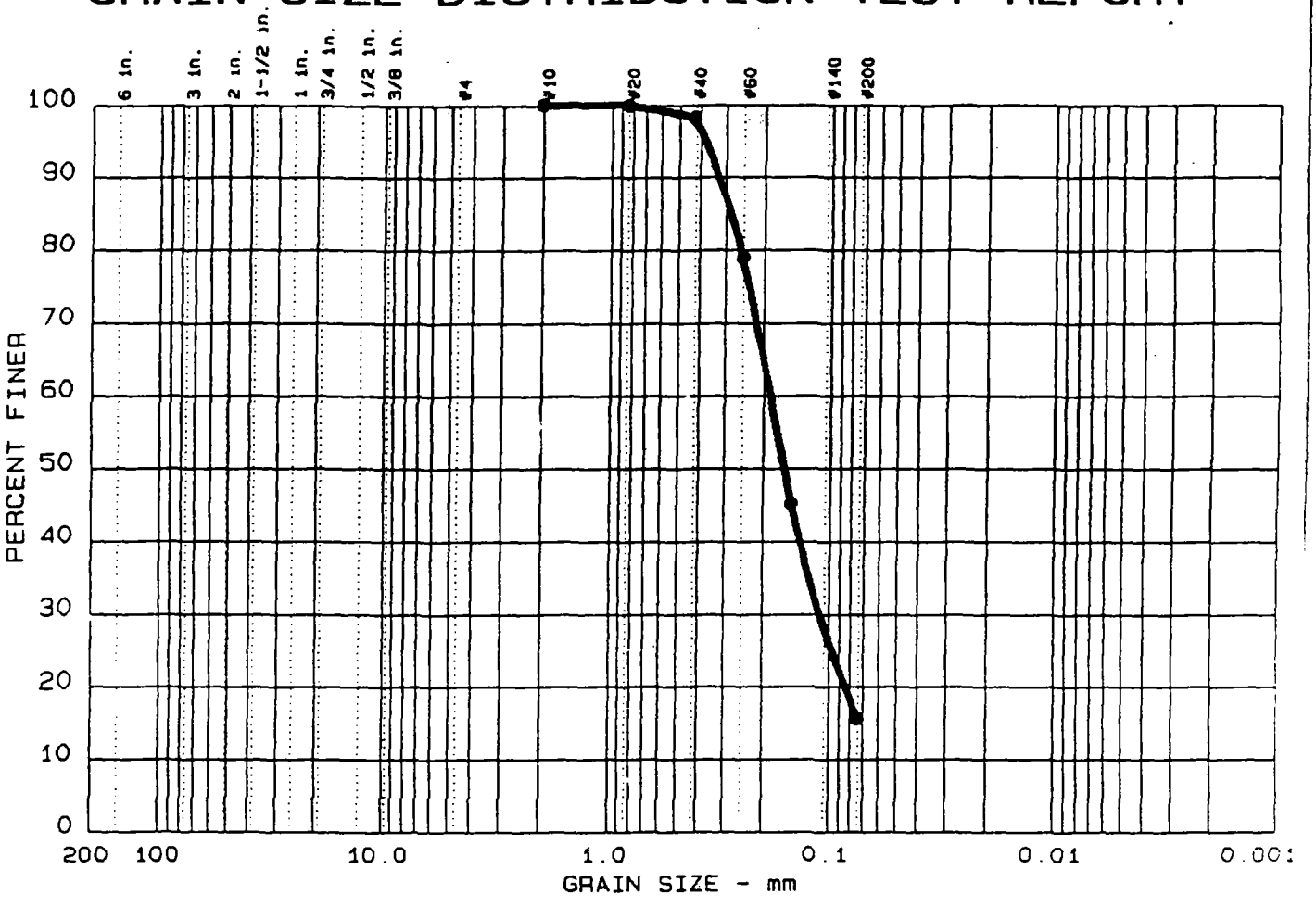
LAB NO. 1602.006

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	3	0.0	0.0	84.4	15.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0.28	0.19	0.16	0.110				

MATERIAL DESCRIPTION	USCS	AASHTO
● GREY SAND, Little Fines		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-5D-93 (68'- 70')

Date: JUNE 15, 1993

Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

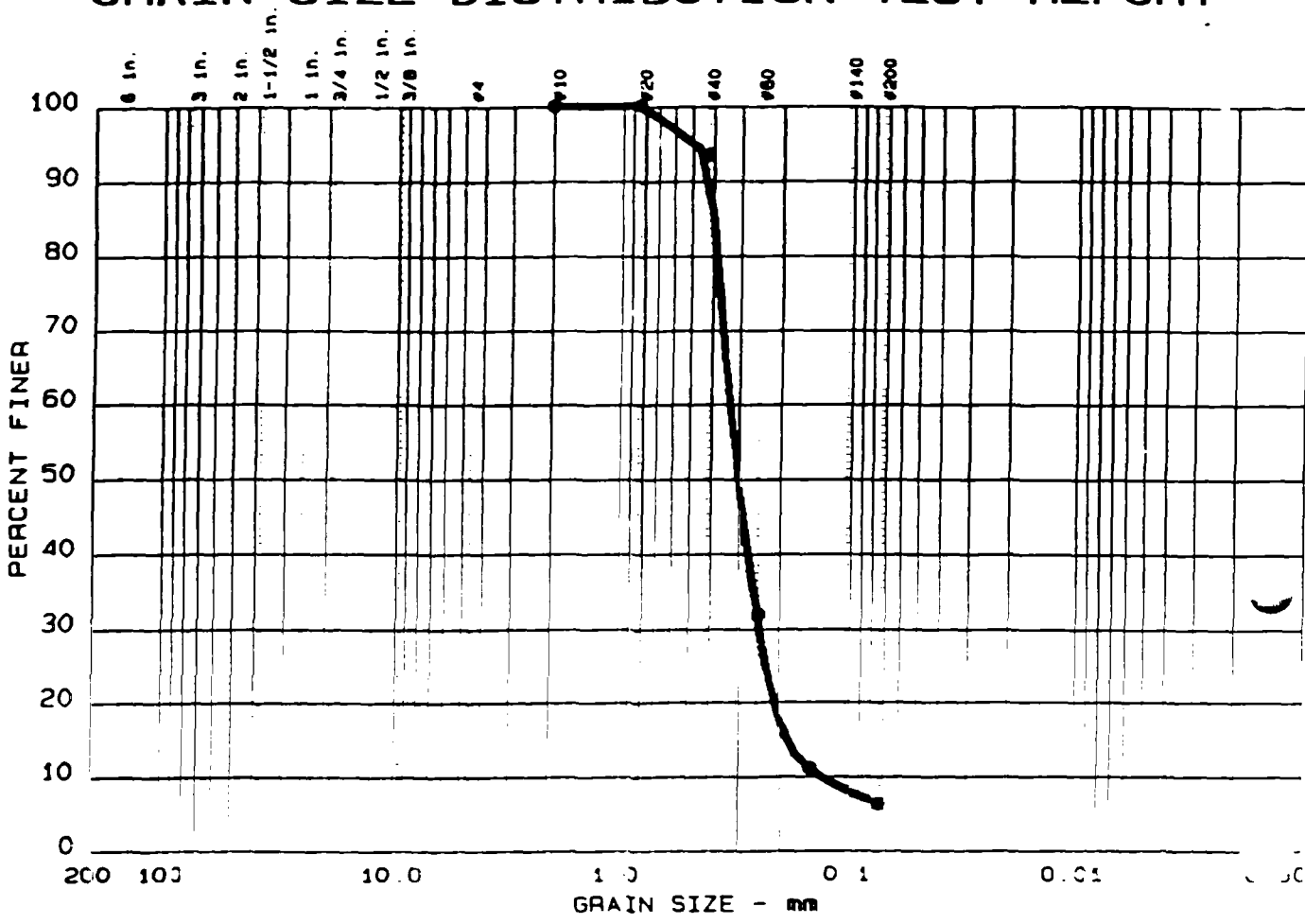
LAB NO. 1602.008

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC

Figure No. 1

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	4	0.0	0.0	93.6	6.4	

	LL	PI	D_{95}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0.40	0.33	0.30	0.245	0.1869	0.1323	1.37	2.5

MATERIAL DESCRIPTION	USCS	AASHTO
● GREY SAND, trace fines		

Project No.: G047.006
Project: TEXTILE ROAD SITE
● Location: BH-46D-93 (83' - 85')

Date: JUNE 15, 1993

Remarks:

CLIENT: CONESTOGA ROVERS & ASSOCIATES

LAB NO. 1602.010

GRAIN SIZE DISTRIBUTION TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC.

Figure No. 1

APPENDIX B

PERMEABILITY TEST REPORTS

PERMEABILITY TEST REPORT

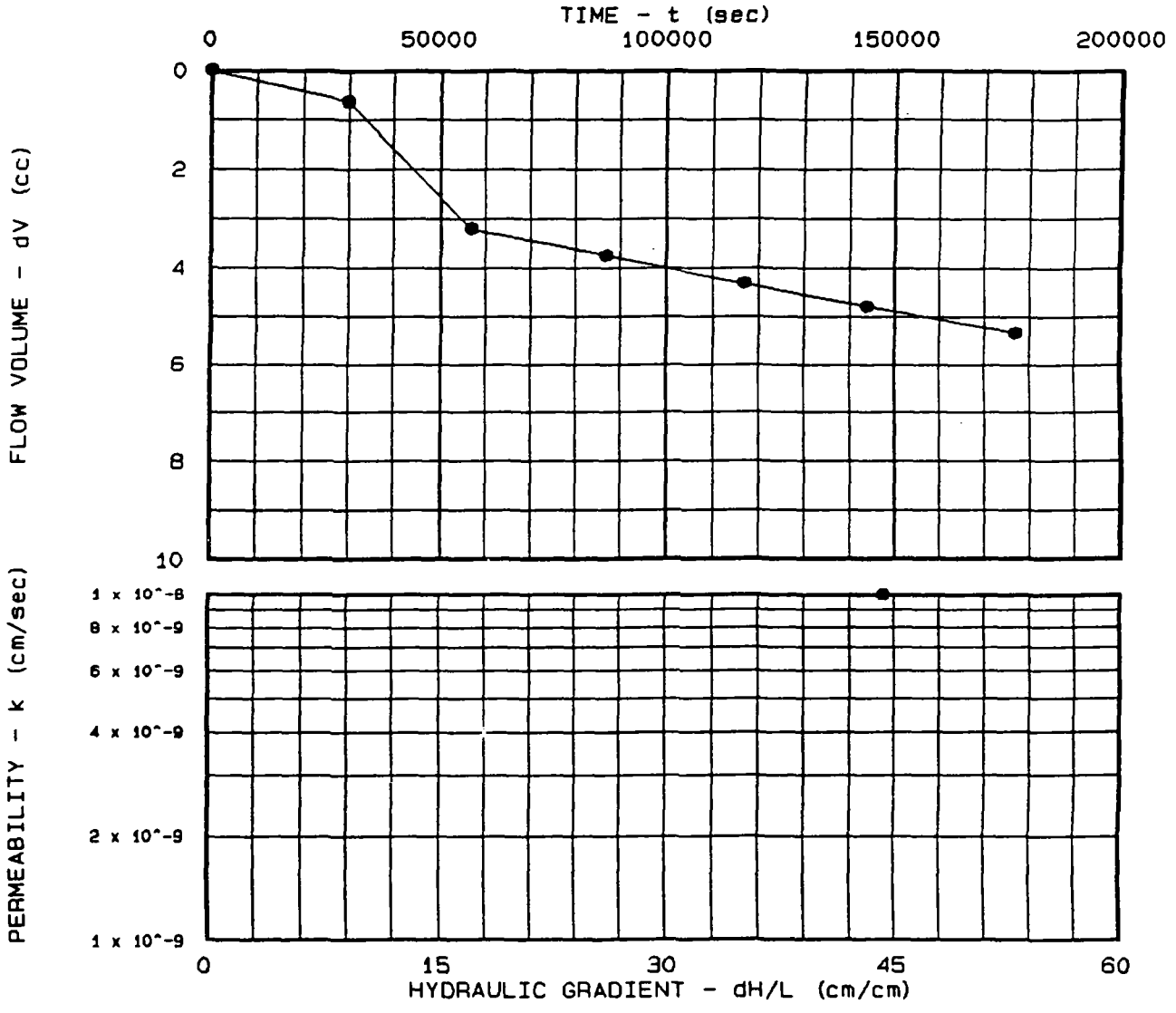
TEST DATA:

Specimen Height (cm): 8.19
Specimen Diameter (cm): 7.20
Dry Unit Weight (pcf): 121.5
Moisture Before Test (%): 14.4
Moisture After Test (%): 14.2
Run Number: 1 ● 2 ▲
Cell Pressure (psi): 95.0
Test Pressure (psi): 85.2
Back Pressure (psi): 80.0
Diff. Head (psi): 5.2
Flow Rate (cc/sec): 1.80 x 10^-5
Perm. (cm/sec): 9.99 x 10^-9

SAMPLE DATA:

Sample Identification: BH-5-93
DEPTH: 26.5' - 27.5'
Visual Description: GREY SILT & CLAY, trace sand & gravel
Remarks: EXCLUDE POINTS PRIOR TO 57,000 - POWER FAILURE
Maximum Dry Density (pcf):
Optimum Moisture Content (%):

Percent Compaction:
Permeameter type: FLEXIBLE WALL
Sample type: UNDISTURBED



Project: TEXTILE ROAD SITE
Location: WASHTENAW COUNTY, MICHIGAN
Date: JUNE 1993

Project No.:
File No.: G047.006
Lab No.: 1602.007
Tested by: KJC
Checked by: JFC

PERMEABILITY TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC.

PERMEABILITY TEST DATA

PROJECT DATA

Project Name:	TEXTILE ROAD SITE
File No.:	G047.006
Project Location:	WASHTENAW COUNTY, MICHIGAN
Project No.:	
Sample Identification:	BH-5-93
	DEPTH: 26.5'- 27.5'
Lab No.:	1602.007
Description:	GREY SILT & CLAY, trace sand & gravel
Sample Type:	UNDISTURBED
Max. Dry Dens.:	
Method (D1557/D698):	
Opt. Water Content:	
Date:	JUNE 1993
Remarks:	EXCLUDE POINTS PRIOR TO 57,000 - POWER FAILURE
Permeameter Type:	FLEXIBLE WALL
Tested by:	KJC

PERMEABILITY TEST SPECIMEN DATA

	Before test:			After test:		
Diameter:	1	2		1	2	
Top:	2.852 in	2.812 in		2.839 in	2.839 in	
Middle:	2.841 in	2.815 in		2.817 in	2.831 in	
Bottom:	2.864 in	2.834 in		2.829 in	2.852 in	
Average:	2.83 in	7.20 cm		2.83 in	7.19 cm	
Length:	1	2	3	1	2	3
	3.206 in	3.226 in	3.246 in	3.216 in	3.185 in	3.162
Average:	3.23 in	8.19 cm		3.19 in	8.10 cm	

Moisture, Density and Sample Parameters:

Specific Gravity:	2.75	
Wet Wt. & Tare:	969.16	967.60
Dry Wt. & Tare:	875.40	875.40
Tare Wt.:	226.46	226.46
Moisture Content:	14.4 %	14.2 %
Dry Unit Weight:	121.5 pcf	123.1 pcf
Porosity:	0.2925	0.2828
Saturation:	96.1 %	99.1 %

PERMEABILITY TEST CONDITIONS DATA

Cell No.: FP-1 TOP Panel No.: 12 Positions: 4&3

Run Number:	1	2
Cell Pressure:	95.0 psi	0.0 psi
Saturation Pressure:	0.0 psi	0.0 psi
Inflow Buret Factor:	1.00	1.00
Outflow Buret Factor:	1.00	1.00
Test Temperature:	20.0 °C	20.0 °C

PERMEABILITY TEST READINGS DATA

CASE X or ⌣	DATE	TIME (24 hr)	ELAPSED TIME (sec)	GAUGE PRESSURE (psi) IN	GAUGE PRESSURE (psi) OUT	BURET READING (cc) IN	BURET READING (cc) OUT	FLOW VOLUME (cc) AVERAGE
X	6/18/93	7:47	0	84.8	79.9	0.10	24.80	0.00
X	6/18/93	16: 7	30,000	84.9	80.0	0.75	24.20	0.63
	6/18/93	23:37	57,000	85.2	80.4	3.30	21.60	3.20
	6/19/93	7:57	87,000	85.2	80.3	3.85	21.05	3.75
	6/19/93	16:17	117,000	85.2	80.3	4.45	20.50	4.33
	6/19/93	23:47	144,000	85.2	80.3	4.90	20.00	4.80
	6/20/93	8:57	177,000	85.2	80.2	5.45	19.45	5.35

Test Pressure = 85.2 psi Differential Head = 5.2 psi, 362.8 cm H2O
Gradient = 4.428E 01 Flow rate = 1.801E-05 cc/sec R squared = 0.99926
Permeability, K20.0° = 9.991E-09 cm/sec², K20° = 9.991E-09 cm/sec²

PERMEABILITY TEST REPORT

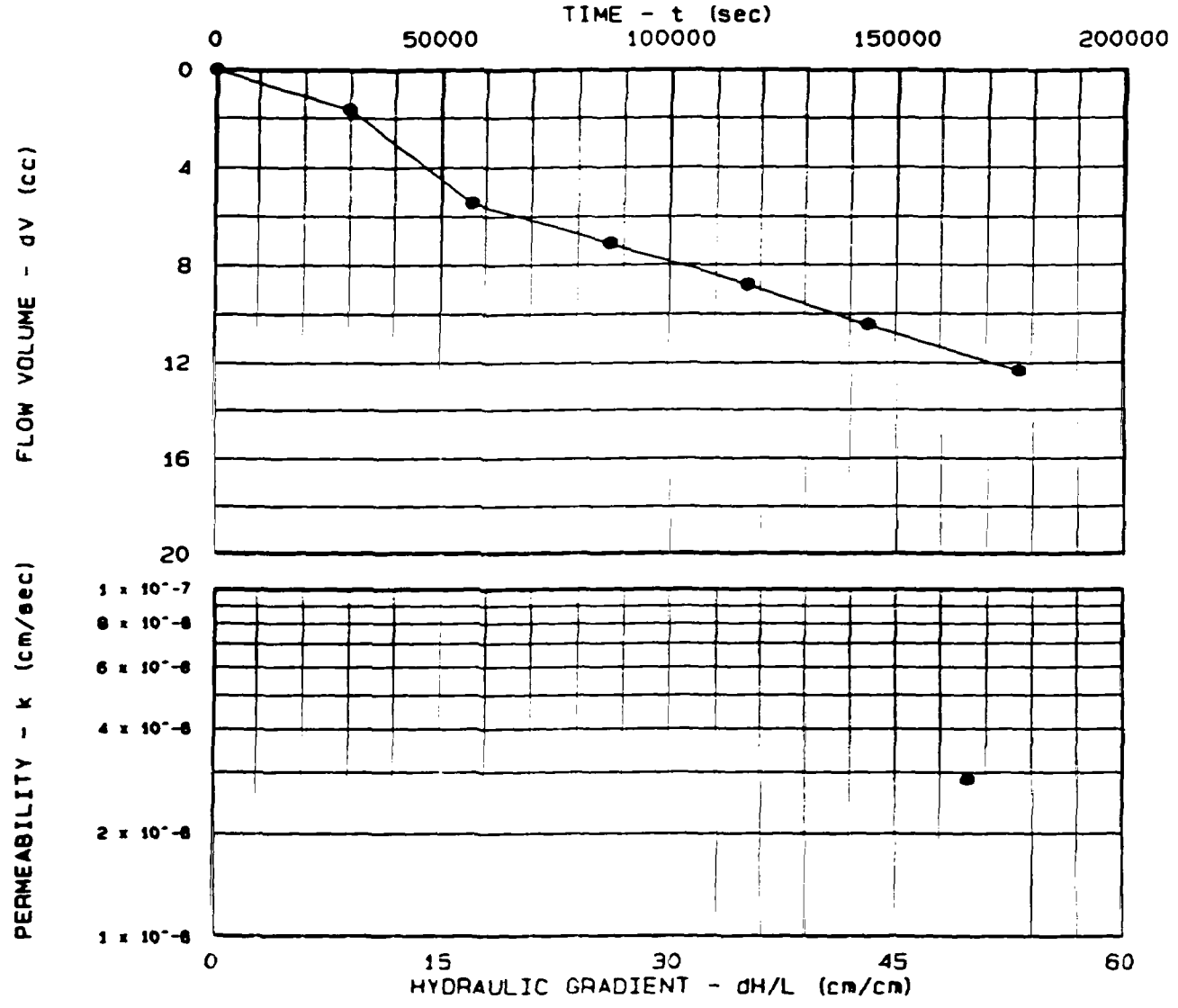
TEST DATA:

Specimen Height (cm): 9.42
Specimen Diameter (cm): 7.22
Dry Unit Weight (pcf): 125.8
Moisture Before Test (%): 13.4
Moisture After Test (%): 12.9
Run Number: 1 ● 2 ▲
Cell Pressure (psi): 95.0
Test Pressure (psi): 86.2
Back Pressure (psi): 79.5
Diff. Head (psi): 6.7
Flow Rate (cc/sec): 5.81 x 10^-5
Perm (cm/sec): 2.85 x 10^-6

SAMPLE DATA:

Sample Identification: BH-46-93
DEPTH: 29' - 31'
Visual Description: GREY SILT & CLAY, trace gravel
Remarks: EXCLUDE POINTS PRIOR TO 57.000 - POWER FAILURE
Maximum Dry Density (pcf):
Optimum Moisture Content (%):

Percent Compaction:
Permeameter type: FLEXIBLE WALL
Sample type: UNDISTURBED



Project: TEXTILE ROAD SITE
Location: WASHTENAW COUNTY, MICHIGAN
Date: JUNE 1993

PERMEABILITY TEST REPORT

EMPIRE SOILS INVESTIGATIONS, INC.

Project No.:
File No.: G047.006
Lab No.: 1602.009
Tested by: KJC
Checked by: JFC

PERMEABILITY TEST DATA

PROJECT DATA

Project Name:	TEXTILE ROAD SITE
File No.:	G047.006
Project Location:	WASHTENAW COUNTY, MICHIGAN
Project No.:	
Sample Identification:	BH-46-93
	DEPTH: 29'- 31'
Lab No.:	1602.009
Description:	GREY SILT & CLAY, trace gravel
Sample Type:	UNDISTURBED
Max. Dry Dens.:	
Method (D1557/D698):	
Opt. Water Content:	
Date:	JUNE 1993
Remarks:	EXCLUDE POINTS PRIOR TO 57,000 - POWER FAILURE
Permeameter Type:	FLEXIBLE WALL
Tested by:	KJC

PERMEABILITY TEST SPECIMEN DATA

	Before test:			After test:		
Diameter:	1	2		1	2	
Top:	2.836 in	2.857 in		2.846 in	2.841 in	
Middle:	2.834 in	2.850 in		2.862 in	2.838 in	
Bottom:	2.835 in	2.841 in		2.873 in	2.837 in	
Average:	2.84 in	7.22 cm		2.85 in	7.24 cm	
Length:	1	2	3	1	2	3
	3.706 in	3.705 in	3.713 in	3.700 in	3.674 in	3.682 in
Average:	3.71 in	9.42 cm		3.69 in	9.36 cm	

Moisture, Density and Sample Parameters:

Specific Gravity:	2.75	
Wet Wt. & Tare:	1111.22	1106.70
Dry Wt. & Tare:	1006.80	1006.80
Tare Wt.:	229.92	229.92
Moisture Content:	13.4 %	12.9 %
Dry Unit Weight:	125.8 pcf	125.9 pcf
Porosity:	0.2672	0.2665
Saturation:	101.4 %	97.3 %

PERMEABILITY TEST CONDITIONS DATA

Cell No.: FP-34 Panel No.: 1 Positions: 6&5

Run Number:	1	2
Cell Pressure:	95.0 psi	0.0 psi
Saturation Pressure:	0.0 psi	0.0 psi
Inflow Buret Factor:	1.00	1.00
Outflow Buret Factor:	1.00	1.00
Test Temperature:	20.0 °C	20.0 °C

PERMEABILITY TEST READINGS DATA

CASE X or R	DATE	TIME (24 hr)	ELAPSED TIME (sec)	GAUGE PRESSURE (psi) IN	GAUGE PRESSURE (psi) OUT	BURET READING (cc) IN	BURET READING (cc) OUT	FLOW VOLUME (cc) AVERAGE
X	6/18/93	7:37	0	84.9	80.2	0.10	25.00	0.00
X	6/18/93	15:57	30,000	84.8	80.2	1.70	23.30	1.65
	6/18/93	23:27	57,000	86.2	79.9	5.50	19.55	5.43
	6/19/93	7:47	87,000	86.2	80.0	7.20	17.85	7.13
	6/19/93	16: 7	117,000	86.3	79.8	8.90	16.15	8.83
R	0/ 0/ 0	0:00	0	0.0	0.0	8.90	16.15	0.00
R	0/ 0/ 0	0:00	0	0.0	0.0	0.10	24.80	0.00
	6/19/93	23:37	144,000	86.3	79.8	1.75	23.15	10.48
	6/20/93	8:47	177,000	86.2	79.5	3.65	21.25	12.38

Test Pressure = 86.2 psi Differential Head = 6.7 psi, 468.9 cm H2O
Gradient = 4.979E 01 Flow rate = 5.807E-05 cc/sec R squared = 0.99984
Permeability, K20.0° = 2.850E-08 cm/sec², K20° = 2.850E-08 cm/sec²

APPENDIX C

SURFACE AND BOREHOLE SOILS ANALYTICAL RESULTS

DATA QUALIFICATION KEY

ND	=	Analyte not detected.
( )	=	Quantitation limit.
J	=	Analyte present at level iess than the quantitation limit.
B	=	Analyte present in method blank.
j	=	The associated value is an estimated quantity.
u	=	Non-detect, with the associated value becoming the quantitation limit.
uj	=	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
r	=	Unusable data.
E	=	Estimated value.

TABLE C.1

SURFACE AND BOREHOLE SOILS - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93
Date Analyzed		5/21/93	5/25/93	5/21/93	5/21/93	5/21/93	5/21/93	5/21/93
Units		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Parameter	**CAS Number**							
Acetone	67-64-1	0.017 B(0.012)u	0.22(0.023)	0.012 (0.011)	0.11(0.012)	ND(0.011)	2.2(0.12)	0.047 (0.011)
Benzene	71-43-2	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Bromodichloromethane	75-27-4	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Bromoform	75-25-2	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Bromomethane	74-83-9	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
2-Butanone	78-93-3	ND(0.012)	ND(0.023)	ND(0.011)	0.007 J(0.012)	0.003 JB(0.011)u	0.038 J(0.12)	0.004 J(0.011)
Carbon Disulfide	75-15-0	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Carbon tetrachloride	56-23-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Chlorobenzene	108-90-7	0.003 J(0.012)j	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Chloroethane	75-00-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Chloroform	67-66-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Chloromethane	74-87-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Dibromochloromethane	124-48-1	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,1-Dichloroethane	75-34-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,2-Dichloroethane	107-06-2	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,1-Dichloroethene	75-35-4	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,2-Dichloroethene (total)	540-59-0	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,2-Dichloropropane	78-87-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
cis-1,3-Dichloropropene	10061-01-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
trans-1,3-Dichloropropene	10061-02-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Ethylbenzene	100-41-4	0.002 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
2-Hexanone	591-78-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Methylene chloride	75-09-2	ND(0.012)	0.005 J(0.023)u	0.002 JB(0.011)u	0.004 JB(0.012)u	0.002 J(0.011)	ND(0.12)	0.002 JB(0.011)u
4-Methyl-2-pentanone	108-10-1	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Styrene	100-42-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Tetrachloroethene	127-18-4	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Toluene	108-88-3	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,1,1-Trichloroethane	71-55-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
1,1,2-Trichloroethane	79-00-5	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Trichloroethene	79-01-6	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Vinyl acetate	108-05-4	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Vinyl chloride	75-01-4	ND(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)
Xylenes (total)	1330-20-7	0.005 J(0.012)	ND(0.023)	ND(0.011)	ND(0.012)	ND(0.011)	ND(0.12)	ND(0.011)

SURFACE AND BOREHOLE SOILS - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-11R-93	BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	BH-71A-93	BH-26B-93
Sample Location		BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-21-93	BH-21-93	BH-26-93
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	6'-8'
Date Sampled		5/18/93	5/18/93	5/18/93	5/17/93	5/18/93	5/18/93	5/16/93
Date Analyzed		6/6/93	5/25/93	5/26/93	5/22/93	5/26/93	5/26/93	5/21/93
Units		(mg/L)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
		Rinsate		Duplicate			Duplicate	
Parameter	CAS Number							
Acetone	67-64-1	0.006 J(0.010)j	0.56(0.087)	6.2(2.1)	0.22(0.012)	ND(1.4)	1.7(1.4)	0.072 (0.011)
Benzene	71-43-2	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Bromodichloromethane	75-27-4	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Bromoform	75-25-2	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Bromomethane	74-83-9	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	0.50 JB (1.4)	ND(0.011)
2-Butanone	78-93-3	0.003 JB(0.010)u	ND(0.087)	ND(2.1)	0.005 JB(0.012)u	1.4 B(1.4)u	0.23 J (1.4)u	0.002 JB(0.011)u
Carbon Disulfide	75-15-0	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	0.27 J(1.4)	ND(1.4)	ND(0.011)
Carbon tetrachloride	56-23-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Chlorobenzene	108-90-7	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Chloroethane	75-00-3	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Chloroform	67-66-3	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Chloromethane	74-87-3	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Dibromochloromethane	124-48-1	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,1-Dichloroethane	75-34-3	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,2-Dichloroethane	107-06-2	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,1-Dichloroethene	75-35-4	ND(0.010)UJ	ND(0.087)	ND(2.1)uj	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,2-Dichloroethene (total)	540-59-0	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,2-Dichloropropane	78-87-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
cis-1,3-Dichloropropene	10061-01-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
trans-1,3-Dichloropropene	10061-02-6	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Ethylbenzene	100-41-4	ND(0.010)UJ	ND(0.087)	0.46 J(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
2-Hexanone	591-78-6	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Methylene chloride	75-09-2	0.004 JB(0.010)u	ND(0.087)	ND(2.1)	0.002 JB(0.012)u	ND(1.4)	0.21 J(1.4)	0.004 J(0.011)
4-Methyl-2-pentanone	108-10-1	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Styrene	100-42-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Tetrachloroethene	127-18-4	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Toluene	108-88-3	ND(0.010)UJ	0.026 J(0.087)	ND(2.1)uj	ND(0.012)	ND(1.4)	0.46 J(1.4)	ND(0.011)
1,1,1-Trichloroethane	71-55-6	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
1,1,2-Trichloroethane	79-00-5	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Trichloroethene	79-01-6	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Vinyl acetate	108-05-4	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Vinyl chloride	75-01-4	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	ND(1.4)	ND(1.4)	ND(0.011)
Xylenes (total)	1330-20-7	ND(0.010)UJ	ND(0.087)	ND(2.1)	ND(0.012)	0.20 J(1.4)	0.20 J(1.4)	0.001 J(0.011)

TABLE C.1

SURFACE AND BOREHOLE SOILS - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-31A-93	BH-36B-93	BH-55B-93	BH-36R-93	BH-41A-93	BH-46B-93	BH-46C-93
Sample Location		BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93	BH-46-93
Sample Interval (BGS)		2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8'	24'-39.5'
Date Sampled		5/14/93	5/13/93	5/13/93	5/14/93	5/12/93	5/12/93	5/15/93
Date Analyzed		5/21/93	5/20/93	5/20/93	6/6/93	5/21/93	5/21/93	5/21/93
Units		(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/L) Rinsate	(mg/Kg)	(mg/Kg)	(mg/Kg)
Parameter	CAS Number							
Acetone	67-64-1	0.85 B(0.055)	0.015(0.012)	0.031(0.012)	0.005 J(0.010)j	ND(0.011)	ND(0.011)	0.014 B(0.012)u
Benzene	71-43-2	ND(0.055)	0.003 J(0.012)	0.003 J(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Bromodichloromethane	75-27-4	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Bromoform	75-25-2	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Bromomethane	74-83-9	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
2-Butanone	78-93-3	0.011 JB(0.055)u	0.041(0.012)	0.004 J(0.012)	0.003 JB(0.010)u	0.003 JB(0.011)u	ND(0.011)	0.004 JB(0.012)u
Carbon Disulfide	75-15-0	ND(0.055)	0.001 J(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Carbon tetrachloride	56-23-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Chlorobenzene	108-90-7	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Chloroethane	75-00-3	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Chloroform	67-66-3	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Chloromethane	74-87-3	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Dibromochloromethane	124-48-1	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,1-Dichloroethane	75-34-3	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,2-Dichloroethane	107-06-2	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,1-Dichloroethene	75-35-4	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,2-Dichloroethene (total)	540-59-0	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,2-Dichloropropane	78-87-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
cis-1,3-Dichloropropene	10061-01-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
trans-1,3-Dichloropropene	10061-02-6	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Ethylbenzene	100-41-4	ND(0.055)	0.002 J(0.012)	0.002 J(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
2-Hexanone	591-78-6	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Methylene chloride	75-09-2	0.016 J(0.055)	0.005 JB(0.012)u	0.005 JB(0.012)U	0.004 JB(0.010)u	0.001 J(0.011)	0.001 J(0.011)	0.004 J(0.012)
4-Methyl-2-pentanone	108-10-1	ND(0.055)	0.003 J(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Styrene	100-42-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Tetrachloroethene	127-18-4	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Toluene	108-88-3	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
1,1,1-Trichloroethane	71-55-6	ND(0.055)	ND(0.012)	ND(0.012)	0.001 J(0.010)j	ND(0.011)	ND(0.011)	ND(0.012)
1,1,2-Trichloroethane	79-00-5	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Trichloroethene	79-01-6	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Vinyl acetate	108-05-4	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Vinyl chloride	75-01-4	ND(0.055)	ND(0.012)	ND(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)
Xylenes (total)	1330-20-7	ND(0.055)	0.004 J(0.012)	0.004 J(0.012)	ND(0.010)uj	ND(0.011)	ND(0.011)	ND(0.012)

SURFACE AND BOREHOLE SOILS - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-46D-93	DW-1-93
Sample Location		BH-46-93	WATER TRUCK
Sample Interval (BGS)		83.5'-88.5'	-
Date Sampled		5/15/93	5/18/93
Date Analyzed		5/21/93	6/6/93
Units		(mg/Kg)	(mg/L)
Parameter	**CAS Number**		
Acetone	67-64-1	**0.014 B(0.012)u**	**0.003 J(0.010)j**
Benzene	71-43-2	ND(0.012)	ND(0.010)uj
Bromodichloromethane	75-27-4	ND(0.012)	**0.008 J(0.010)j**
Bromoform	75-25-2	ND(0.012)	ND(0.010)uj
Bromomethane	74-83-9	ND(0.012)	ND(0.010)uj
2-Butanone	78-93-3	**0.002 JB(0.012)u**	**0.002 JB(0.010)u**
Carbon Disulfide	75-15-0	ND(0.012)	ND(0.010)uj
Carbon tetrachloride	56-23-5	ND(0.012)	ND(0.010)uj
Chlorobenzene	108-90-7	ND(0.012)	ND(0.010)uj
Chloroethane	75-00-3	ND(0.012)	ND(0.010)uj
Chloroform	67-66-3	ND(0.012)	**0.030(0.010)j**
Chloromethane	74-87-3	ND(0.012)	ND(0.010)uj
Dibromochloromethane	124-48-1	ND(0.012)	**0.003 J(0.010)j**
1,1-Dichloroethane	75-34-3	ND(0.012)	ND(0.010)uj
1,2-Dichloroethane	107-06-2	ND(0.012)	ND(0.010)uj
1,1-Dichloroethene	75-35-4	ND(0.012)	ND(0.010)uj
1,2-Dichloroethene (total)	540-59-0	ND(0.012)	ND(0.010)uj
1,2-Dichloropropane	78-87-5	ND(0.012)	ND(0.010)uj
cis-1,3-Dichloropropene	10061-01-5	ND(0.012)	ND(0.010)uj
trans-1,3-Dichloropropene	10061-02-6	ND(0.012)	ND(0.010)uj
Ethylbenzene	100-41-4	ND(0.012)	ND(0.010)uj
2-Hexanone	591-78-6	ND(0.012)	ND(0.010)uj
Methylene chloride	75-09-2	**0.005 J(0.012)**	**0.004 JB(0.010)u**
4-Methyl-2-pentanone	108-10-1	ND(0.012)	ND(0.010)uj
Styrene	100-42-5	ND(0.012)	ND(0.010)uj
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.012)	ND(0.010)uj
Tetrachloroethene	127-18-4	ND(0.012)	ND(0.010)uj
Toluene	108-88-3	ND(0.012)	ND(0.010)uj
1,1,1-Trichloroethane	71-55-6	ND(0.012)	ND(0.010)uj
1,1,2-Trichloroethane	79-00-5	ND(0.012)	ND(0.010)uj
Trichloroethene	79-01-6	ND(0.012)	ND(0.010)uj
Vinyl acetate	108-05-4	ND(0.012)	ND(0.010)uj
Vinyl chloride	75-01-4	ND(0.012)	ND(0.010)uj
Xylenes (total)	1330-20-7	**0.001 J(0.012)**	ND(0.010)uj

TABLE C.2

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-6OC-93	BH-5D-93	BH-6B-93	BH-11A-93	BH-11R-93
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	BH-11-93
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	2'-4'
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	5/18/93
Date Analyzed		6/2/93	6/6/93	6/6/93	6/6/93	6/2/93	6/4/93	6/4/93	6/4/93
Units		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/L) Rinsate
Base/Neutral Compounds	**CAS Number**								
Acenaphthene	83-32-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.22 J(0.410)	ND(0.330)	ND(0.010)
Acenaphthylene	208-96-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Anthracene	120-12-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Benzo(a)anthracene	56-55-3	3.0 J(12)	ND(0.780)	0.036 J(0.350)	ND(0.380)	ND(0.370)	0.55(0.410)	ND(0.330)	ND(0.010)
Benzo(b)fluoranthene	205-99-2	1.6 J(12)	ND(0.780)	0.022 J(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.022 J(0.330)	ND(0.010)
Benzo(k)fluoranthene	207-08-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Benzo(g,h,i)perylene	191-24-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	ND(0.010)
Benzo(a)pyrene	50-32-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.41(0.410)	ND(0.330)	ND(0.010)
Benzoic acid	65-85-0	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Benzyl alcohol	100-51-6	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Bis(2-chloroethoxy)methane	111-91-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Bis(2-chloroethyl)ether	111-44-4	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Bis(2-ethylhexyl)phthalate	117-81-7	ND(12)	0.14 J(0.780)	0.21 J(0.350)	ND(0.380)	0.26 J(0.370)	0.11 J(0.410)	0.035 J(0.330)	0.002 JB(0.010)u
4-Bromophenyl phenyl ether	101-55-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Butyl benzyl phthalate	85-68-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	ND(0.010)
4-Chloroaniline	106-47-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
2-Chloronaphthalene	91-58-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
4-Chlorophenyl phenyl ether	7005-72-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Chrysene	218-01-9	1.9 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.2(0.410)	ND(0.330)	ND(0.010)
Dibenz(a,h)anthracene	53-70-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.11 J(0.410)	ND(0.330)	ND(0.010)
Dibenzofuran	132-64-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.12 J(0.410)	ND(0.330)	ND(0.010)
Di-n-butyl phthalate	84-74-2	ND(12)	0.061 JB(0.780)u	0.035 JB(0.350)u	0.030 JB (0.380)u	ND(0.370)	ND(0.410)	0.085 J(0.330)u	0.001 JB(0.010)u
1,2-Dichlorobenzene	95-50-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
1,3-Dichlorobenzene	541-73-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
1,4-Dichlorobenzene	106-46-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
3,3'-Dichlorobenzidine	91-94-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Diethyl phthalate	84-66-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Dimethyl phthalate	131-11-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
2,4-Dinitrotoluene	121-14-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
2,6-Dinitrotoluene	606-20-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Di-n-octyl phthalate	117-84-0	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Fluoranthene	206-44-0	3.3 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.330)	ND(0.010)
Fluorene	86-73-7	1.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.044 J(0.370)	0.27 J(0.410)	ND(0.330)	ND(0.010)

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93	BH-11R-93
Sample Location		BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93	BH-11-93
Sample Interval (BGS)		6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'	2'-4'
Date Sampled		5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93	5/18/93
Date Analyzed		6/2/93	6/6/93	6/6/93	6/6/93	6/2/93	6/4/93	6/4/93	6/4/93
Units		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/L) Rinsate
Hexachlorobenzene	118-74-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.85(0.410)	0.024 J(0.360)	ND(0.010)
Hexachlorobutadiene	87-68-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.19 J(0.410)	ND(0.360)	ND(0.010)
Hexachlorocyclopentadiene	77-47-4	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
Hexachloroethane	67-72-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
Isophorone	78-59-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2-Methylnaphthalene	91-57-6	2.1 J(12)	0.078 J(0.780)	0.14 J(0.350)	ND(0.380)	ND(0.370)	0.060 J(0.410)	ND(0.360)	ND(0.010)
Naphthalene	91-20-3	1.2 J(12)	0.16 J(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	0.055 J(0.410)	ND(0.360)	ND(0.010)
2-Nitroaniline	88-74-4	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
3-Nitroaniline	99-09-2	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
4-Nitroaniline	100-01-6	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
Nitrobenzene	98-95-3	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
N-Nitrosodiphenylamine	86-30-6	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	0.031 J(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
N-Nitroso-di-n-propylamine	621-64-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
Phenanthrene	85-01-8	8.1 J(12)	0.080 J(0.780)	0.10 J(0.350)	0.022 J(0.380)	0.018 J(0.370)	1.3(0.410)	ND(0.360)	ND(0.050)
Pyrene	129-00-0	2.8 J(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	1.9(0.410)	0.028 J(0.360)	ND(0.010)
1,2,4-Trichlorobenzene	120-82-1	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
Acid Compounds									
4-Chloro-3-methylphenol	59-50-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2-Chlorophenol	95-57-8	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2,4-Dichlorophenol	120-83-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2,4-Dimethylphenol	105-67-9	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
4,6 Dinitro-2-methylphenol	534-52-1	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
2,4-Dinitrophenol	51-28-5	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
2-Methylphenol	95-48-7	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
4-Methylphenol	106-44-5	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2-Nitrophenol	88-75-5	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
4-Nitrophenol	100-02-7	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
Pentachlorophenol	87-86-5	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
Phenol	108-95-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)
2,4,5-Trichlorophenol	95-95-4	ND(29)	ND(1.9)	ND(0.850)	ND(0.920)	ND(0.910)	ND(1.0)	ND(0.880)	ND(0.050)
2,4,6-Trichlorophenol	88-06-2	ND(12)	ND(0.780)	ND(0.350)	ND(0.380)	ND(0.370)	ND(0.410)	ND(0.360)	ND(0.010)

TABLE C.2

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	BH-71A-93	BH-26B-93	BH-31A-93	BH-36B-93
Sample Location		BH-16-93	BH-16-93	BH-17-93	BH-21-93	BH-21-93	BH-26-93	BH-31-93	BH-36-93
Sample Interval (BGS)		6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'
Date Sampled		5/18/93	5/18/93	5/17/93	5/18/93	5/18/93	5/16/93	5/14/93	5/13/93
Date Analyzed		6/4/93	6/4/93	6/6/93	6/6/93	6/6/93	6/2/93	6/2/93	6/2/93
Units		(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg)
Base/Neutral Compounds	CAS Number								
Acenaphthene	83-32-9	ND(0.570)	0.031 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Acenaphthylene	208-96-8	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Anthracene	120-12-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	0.027 J(0.410)
Benzo(a)anthracene	56-55-3	ND(0.570)	ND(0.570)	0.090 J(0.380)	ND(200)	ND(190)	ND(11)	0.080 J(0.360)	0.12 J(0.410)
Benzo(b)fluoranthene	205-99-2	ND(0.570)	ND(0.570)	0.22 J(0.380)	ND(200)	ND(190)	ND(11)	0.048 J(0.360)	ND(0.410)
Benzo(k)fluoranthene	207-08-9	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Benzo(g,h,i)perylene	191-24-2	ND(0.570)	ND(0.570)	0.080 J(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	0.038 J(0.410)
Benzo(a)pyrene	50-32-8	ND(0.570)	ND(0.570)	0.10 J(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	0.055 J(0.410)
Benzoic acid	65-85-0	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Benzyl alcohol	100-51-6	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Bis(2-chloroethyl)ether	111-44-4	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Bis(2-ethylhexyl)phthalate	117-81-7	ND(0.570)	0.16 J(0.570)	0.050 J(0.380)	ND(200)	ND(190)	1.5 JB(11)u	ND(0.360)	ND(0.410)
4-Bromophenyl phenyl ether	101-55-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Butyl benzyl phthalate	85-68-7	ND(0.570)	0.055 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
4-Chloroaniline	106-47-8	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2-Chloronaphthalene	91-58-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Chrysene	218-01-9	ND(0.570)	ND(0.570)	0.15 J(0.380)	ND(200)	ND(190)	ND(11)	0.055 J(0.360)	0.085 J(0.410)
Dibenz(a,h)anthracene	53-70-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Dibenzofuran	132-64-9	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Di-n-butyl phthalate	84-74-2	ND(0.570)	0.050 JB(0.570)u	0.048 J(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
1,2-Dichlorobenzene	95-50-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
1,3-Dichlorobenzene	541-73-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
1,4-Dichlorobenzene	106-46-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
3,3'-Dichlorobenzidine	91-94-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Diethyl phthalate	84-66-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Dimethyl phthalate	131-11-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2,4-Dinitrotoluene	121-14-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2,6-Dinitrotoluene	606-20-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Di-n-octyl phthalate	117-84-0	ND(0.570)	0.070 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Fluoranthene	206-44-0	ND(0.570)	ND(0.570)	0.17 J(0.380)	ND(200)	ND(190)	ND(11)	0.12 J(0.360)	0.020 J(0.410)
Fluorene	86-73-7	ND(0.570)	0.22 J(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-16B-93	BH-72B-93	SS-6-93	BH-21A-93	BH-71A-93	BH-26B-93	BH-31A-93	BH-36B-93
Sample Location		BH-16-93	BH-16-93	BH-17-93	BH-21-93	BH-21-93	BH-26-93	BH-31-93	BH-36-93
Sample Interval (BGS)		6'-8'	6'-8'	0'-1'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'
Date Sampled		5/18/93	5/18/93	5/17/93	5/18/93	5/18/93	5/16/93	5/14/93	5/13/93
Date Analyzed		6/4/93	6/4/93	6/6/93	6/6/93	6/6/93	6/2/93	6/2/93	6/2/93
Units		(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg)
Hexachlorobenzene	118-74-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Hexachlorobutadiene	87-68-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Hexachlorocyclopentadiene	77-47-4	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Hexachloroethane	67-72-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.570)	ND(0.570)	**0.070 J(0.380)**	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Isophorone	78-59-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2-Methylnaphthalene	91-57-6	ND(0.570)	**0.012 J(0.570)**	ND(0.380)	ND(470)	ND(470)	ND(11)	**0.042 J(0.360)**	**0.047 J(0.410)**
Naphthalene	91-20-3	**0.20 J(0.570)**	**0.055 J(0.570)**	ND(0.380)	**28 J(470)**	**105 J(470)**	ND(11)	**0.032 J(0.360)**	**0.030 J(0.410)**
2-Nitroaniline	88-74-4	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
3-Nitroaniline	99-09-2	ND(1.4)	ND(1.4)	ND(0.920)	ND(200)	ND(190)	ND(28)	ND(0.880)	ND(1.0)
4-Nitroaniline	100-01-6	ND(1.4)	ND(1.4)	ND(0.920)	ND(200)	ND(190)	ND(28)	ND(0.880)	ND(1.0)
Nitrobenzene	98-95-3	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
N-Nitrosodiphenylamine	86-30-6	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Phenanthrene	85-01-8	ND(0.570)	**0.080 J(0.570)**	**0.065 J(0.380)**	ND(200)	**38 J(190)**	ND(11)	**0.037 J(0.360)**	**0.13 J(0.410)**
Pyrene	129-00-0	ND(0.570)	ND(0.570)	**0.23 J(0.380)**	ND(200)	ND(190)	ND(11)	**0.15 J(0.360)**	**0.19 J(0.410)**
1,2,4-Trichlorobenzene	120-82-1	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
Acid Compounds									
4-Chloro-3-methylphenol	59-50-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2-Chlorophenol	95-57-8	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2,4-Dichlorophenol	120-83-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2,4-Dimethylphenol	105-67-9	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
4,6 Dinitro-2-methylphenol	534-52-1	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
2,4-Dinitrophenol	51-28-5	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
2-Methylphenol	95-48-7	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
4-Methylphenol	106-44-5	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2-Nitrophenol	88-75-5	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
4-Nitrophenol	100-02-7	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
Pentachlorophenol	87-86-5	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
Phenol	108-95-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)
2,4,5-Trichlorophenol	95-95-4	ND(1.4)	ND(1.4)	ND(0.920)	ND(470)	ND(470)	ND(28)	ND(0.880)	ND(1.0)
2,4,6-Trichlorophenol	88-06-2	ND(0.570)	ND(0.570)	ND(0.380)	ND(200)	ND(190)	ND(11)	ND(0.360)	ND(0.410)

TABLE C.2

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-55B-93	BH-36R-93	BH-41A-93	BH-46B-93	BH-46C-93	BH-46D-93
Sample Location		BH-36-93	BH-36-93	BH-41-93	BH-46-93	BH-46-93	BH-46-93
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	24'-39.5'	83.5'-88.5'
Date Sampled		5/13/93	5/13/93	5/12/93	5/12/93	5/15/93	5/15/93
Date Analyzed		6/2/93	6/11/93	6/2/93	6/2/93	6/2/93	6/2/93
Units		(mg/Kg) Duplicate	(mg/L) Rinsate	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Base/Neutral Compounds	**CAS Number**						
Acenaphthene	83-32-9	0.090 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Acenaphthylene	208-96-8	0.028 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Anthracene	120-12-7	0.024 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzo(a)anthracene	56-55-3	1.4(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzo(b)fluoranthene	205-99-2	1.4(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzo(k)fluoranthene	207-08-9	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzo(g,h,i)perylene	191-24-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzo(a)pyrene	50-32-8	0.65 (0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzoic acid	65-85-0	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Benzyl alcohol	100-51-6	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Bis(2-chloroethyl)ether	111-44-4	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Bis(2-ethylhexyl)phthalate	117-81-7	0.031 J(0.410)	ND(0.010)uj	0.026 J(0.360)	0.032 J(0.370)	0.035 J(0.380)	0.027 J(0.390)
4-Bromophenyl phenyl ether	101-55-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Butyl benzyl phthalate	85-68-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
4-Chloroaniline	106-47-8	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2-Chloronaphthalene	91-58-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Chrysene	218-01-9	0.80 (0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	0.019 J(0.390)
Dibenz(a,h)anthracene	53-70-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Dibenzofuran	132-64-9	0.050 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Di-n-butyl phthalate	84-74-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
1,2-Dichlorobenzene	95-50-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
1,3-Dichlorobenzene	541-73-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
1,4-Dichlorobenzene	106-46-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
3,3'-Dichlorobenzidine	91-94-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Diethyl phthalate	84-66-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Dimethyl phthalate	131-11-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2,4-Dinitrotoluene	121-14-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2,6-Dinitrotoluene	606-20-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Di-n-octyl phthalate	117-84-0	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Fluoranthene	206-44-0	1.8(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Fluorene	86-73-7	0.085 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)

SURFACE AND BOREHOLE SOILS - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-55B-93	BH-36R-93	BH-41A-93	BH-46B-93	BH-46C-93	BH-46D-93
Sample Location		BH-36-93	BH-36-93	BH-41-93	BH-46-93	BH-46-93	BH-46-93
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	24'-39.5'	83.5'-88.5'
Date Sampled		5/13/93	5/13/93	5/12/93	5/12/93	5/15/93	5/15/93
Date Analyzed		6/2/93	6/11/93	6/2/93	6/2/93	6/2/93	6/2/93
Units		(mg/Kg)	(mg/L)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
		Duplicate	Rinsate				
Hexachlorobenzene	118-74-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Hexachlorobutadiene	87-68-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Hexachlorocyclopentadiene	77-47-4	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Hexachloroethane	67-72-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Isophorone	78-59-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2-Methylnaphthalene	91-57-6	0.050 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Naphthalene	91-20-3	0.042 J(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2-Nitroaniline	88-74-4	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
3-Nitroaniline	99-09-2	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
4-Nitroaniline	100-01-6	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
Nitrobenzene	98-95-3	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
N-Nitrosodiphenylamine	86-30-6	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Phenanthrene	85-01-8	1.1(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	0.020 J(0.380)	0.030 J(0.390)
Pyrene	129-00-0	1.1(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
1,2,4-Trichlorobenzene	120-82-1	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
Acid Compounds							
4-Chloro-3-methylphenol	59-50-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2-Chlorophenol	95-57-8	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2,4-Dichlorophenol	120-83-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2,4-Dimethylphenol	105-67-9	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
4,6 Dinitro-2-methylphenol	534-52-1	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
2,4-Dinitrophenol	51-28-5	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
2-Methylphenol	95-48-7	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
4-Methylphenol	106-44-5	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2-Nitrophenol	88-75-5	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
4-Nitrophenol	100-02-7	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
Pentachlorophenol	87-86-5	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
Phenol	108-95-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)
2,4,5-Trichlorophenol	95-95-4	ND(1.0)	ND(0.050)uj	ND(0.860)	ND(0.900)	ND(0.930)	ND(0.950)
2,4,6-Trichlorophenol	88-06-2	ND(0.410)	ND(0.010)uj	ND(0.360)	ND(0.370)	ND(0.380)	ND(0.390)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-1A-93	BH-1B-93	SS-1-93	BH-2A-93	BH-2B-93	BH-2C-93	BH-2D-93
Sample Location		BH-1-93	BH-1-93	BH-1-93	BH-2-93	BH-2-93	BH-2-93	BH-2-93
Sample Interval (BGS)		2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	27.5'-29.5'	70'-72'
Date Sampled		5/17/93	5/17/93	5/18/93	5/11/93	5/11/93	5/17/93	5/17/93
Date Analysed		6/10/93	6/9/93	6/10/93	5/27/93	5/26/93	6/7/93	6/7/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
alpha-BHC	319-84-6	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
beta-BHC	319-85-7	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
delta-BHC	319-86-8	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
4,4'-DDD	72-54-8	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
4,4'-DDE	72-55-9	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
4,4'-DDT	50-29-3	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
Dieldrin	60-57-1	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
Endrin	72-20-8	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
Endrin Ketone	53494-70-5	NA	NA	NA	NA	ND(20)	ND(3.8)uj	ND(3.5)uj
Heptachlor	76-44-8	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	ND(10)	ND(2.0)uj	ND(1.8)uj
Methoxychlor	72-43-5	NA	NA	NA	NA	ND(100)	ND(20)uj	ND(18)uj
Toxaphene	8001-35-2	NA	NA	NA	NA	ND(1000)	ND(200)uj	ND(180)uj
Aroclor-1016	12674-11-2	ND(3300)	ND(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	ND(35)uj
Aroclor-1221	11104-28-2	ND(3300)	ND(670)	ND(67)	ND(3300)	ND(400)	ND(78)uj	ND(71)uj
Aroclor-1232	11141-16-5	ND(3300)	ND(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	ND(35)uj
Aroclor-1242	53469-21-9	ND(3300)	ND(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	ND(35)uj
Aroclor-1248	12672-29-6	ND(3300)	ND(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	ND(35)uj
Aroclor-1254	11097-69-1	ND(3300)	ND(670)	88(33)	30000(3300)	6500(200)	ND(38)uj	ND(35)uj
Aroclor-1260	11096-82-5	24000 (3300)	2500(670)	ND(33)	ND(3300)	ND(200)	ND(38)uj	ND(35)uj

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-2-93	BH-3A-93	BH-3B-93	BH-4A-93	BH-4B-93	BH-5A-93	BH-5B-93
Sample Location		BH-2-93	BH-3-93	BH-3-93	BH-4-93	BH-4-93	BH-5-93	BH-5-93
Sample Interval (BGS)		0'-1'	2'-4'	6-8'	2'-4'	6-8'	2'-4'	6-8'
Date Sampled		5/18/93	5/17/93	5/17/93	5/17/93	5/17/93	5/13/93	5/13/93
Date Analysed		6/8/93	6/9/93	6/9/93	6/9/93	6/9/93	6/3/93	6/3/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(67)	ND(1700)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	**120(67)**	ND(33)	ND(33)	ND(33)	**12000(1700)**	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(67)	ND(33)	ND(33)	ND(33)	ND(1700)	ND(33)	ND(33)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-60C-93	BH-5D-93	BH-5R-93	BH-6A-93	BH-6B-93	SS-3-93	BH-7A-93
Sample Location		BH-5-93	BH-5-93	BH-5B-93	BH-6-93	BH-6-93	BH-6-93	BH-7-93
Sample Interval (BGS)		21'-23.5'	68.5'-70.5'	6-8'	2'-4'	6-8'	0'-1'	2'-4'
Date Sampled		5/17/93	5/16/93	5/13/93	5/17/93	5/17/93	5/18/93	5/17/93
Date Analyzed		6/7/93	5/26/93	5/26/93	6/9/93	6/7/93	6/8/93	6/10/93
units		(µg/kg)	(µg/kg)	(µg/L) Rinsate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
alpha-BHC	319-84-6	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
beta-BHC	319-85-7	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
delta-BHC	319-86-8	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
gamma-BHC (Lindane)	58-89-9	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
Alpha-Chlordane	5103-71-9	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
Gamma-Chlordane	5103-74-2	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
4,4'-DDD	72-54-8	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
4,4'-DDE	72-55-9	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
4,4'-DDT	50-29-3	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
Dieldrin	60-57-1	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
alpha-Endosulfan	959-98-8	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
beta-Endosulfan	33213-65-9	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
Endosulfan Sulfate	1031-07-08	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
Endrin	72-20-8	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
Endrin Ketone	53494-70-5	ND(3.8)uj	ND(3.7)uj	NA	NA	ND(4.1)uj	NA	NA
Heptachlor	76-44-8	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
Heptachlor Epoxide	1024-57-3	ND(2.0)uj	ND(1.9)uj	NA	NA	ND(2.1)uj	NA	NA
Methoxychlor	72-43-5	ND(20)uj	ND(19)uj	NA	NA	ND(21)uj	NA	NA
Toxaphene	8001-35-2	ND(200)uj	ND(190)uj	NA	NA	ND(210)uj	NA	NA
Aroclor-1016	12674-11-2	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	ND(41)uj	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(77)uj	ND(76)uj	ND(2.0)uj	ND(67)	ND(84)uj	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	ND(41)uj	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	ND(41)uj	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	ND(41)uj	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	**45(41)j**	ND(33)	**270(33)**
Aroclor-1260	11096-82-5	ND(38)uj	ND(37)uj	ND(1.0)uj	ND(33)	ND(41)uj	ND(33)	**160(33)**

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-7B-93	SS-4-93	BH-8A-93	BH-8B-93	BH-9A-93	BH-9B-93	BH-10A-93
Sample Location		BH-7-93	BH-7-93	BH-8-93	BH-8-93	BH-9-93	BH-9-93	BH-10-93
Sample Interval (BGS)		6'-8'	0'-1'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'
Date Sampled		5/17/93	5/18/93	5/17/93	5/17/93	5/17/93	5/17/93	5/18/93
Date Analysed		6/9/93	6/8/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(1700)	ND(33)	ND(33)	ND(33)	ND(170)	ND(33)	ND(170)
Aroclor-1221	11104-28-2	ND(1700)	ND(67)	ND(67)	ND(67)	ND(170)	ND(67)	ND(170)
Aroclor-1232	11141-16-5	ND(1700)	ND(33)	ND(33)	ND(33)	ND(170)	ND(33)	ND(170)
Aroclor-1242	53469-21-9	ND(1700)	ND(33)	ND(33)	ND(33)	ND(170)	ND(33)	ND(170)
Aroclor-1248	12672-29-6	ND(1700)	ND(33)	ND(33)	ND(33)	ND(170)	ND(33)	ND(170)
Aroclor-1254	11097-69-1	**7300(1700)**	**41(33)**	ND(33)	**170(33)**	**870(170)**	ND(33)	**1300(170)**
Aroclor-1260	11096-82-5	ND(1700)	ND(33)	ND(33)	ND(33)	ND(170)	ND(33)	ND(170)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-10B-93	BH-11A-93	BH-11B-93	BH-11R-93	BH-12A-93	BH-12B-93	BH-13A-93
Sample Location		BH-10-93	BH-11-93	BH-11-93	BH-11A-93	BH-12-93	BH-12-93	BH-13-93
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	2'-4'	6-8'	2'-4'
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/17/93	5/17/93	5/18/93
Date Analyzed		6/6/93	6/7/93	6/6/93	6/7/93	6/9/93	6/7/93	6/8/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/L) Rinsate	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
alpha-BHC	319-84-6	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
beta-BHC	319-85-7	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
delta-BHC	319-86-8	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
4,4'-DDD	72-54-8	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
4,4'-DDE	72-55-9	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
4,4'-DDT	50-29-3	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
Dieldrin	60-57-1	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
Endrin	72-20-8	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
Endrin Ketone	53494-70-5	NA	ND(3.6)	NA	ND(0.10)	NA	NA	NA
Heptachlor	76-44-8	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	ND(1.9)	NA	ND(0.05)	NA	NA	NA
Methoxychlor	72-43-5	NA	ND(19)	NA	ND(0.5)	NA	NA	NA
Toxaphene	8001-35-2	NA	ND(190)	NA	ND(5.0)	NA	NA	NA
Aroclor-1016	12674-11-2	ND(2500)	ND(36)	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)
Aroclor-1221	11104-28-2	ND(2500)	ND(74)	ND(67)	ND(2.0)	ND(67)	ND(330)	ND(3300)
Aroclor-1232	11141-16-5	ND(2500)	ND(36)	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)
Aroclor-1242	53469-21-9	ND(2500)	ND(36)	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)
Aroclor-1248	12672-29-6	ND(2500)	ND(36)	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)
Aroclor-1254	11097-69-1	**3500(2500)**	ND(36)	ND(33)	ND(1.0)	**81(33)**	**1500(330)**	**33000(3300)**
Aroclor-1260	11096-82-5	ND(2500)	ND(36)	ND(33)	ND(1.0)	ND(33)	ND(330)	ND(3300)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-13B-93	BH-14A-93	BH-14B-93	SS-5-93	BH-15A-93	BH-15B-93	BH-16A-93
Sample Location		BH-13-93	BH-14-93	BH-14-93	BH-14-93	BH-15-93	BH-15-93	BH-14-93
Sample Interval (BGS)		6-8'	2'-4'	6'-8'	0'-1'	2'-4'	6'-8'	2'-4'
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93
Date Analysed		6/8/93	6/10/93	6/8/93	6/8/93	6/8/93	6/8/93	6/8/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(3300)	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)
Aroclor-1221	11104-28-2	ND(3300)	ND(67)	ND(330)	ND(67)	ND(67)	ND(67)	ND(3300)
Aroclor-1232	11141-16-5	ND(3300)	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)
Aroclor-1242	53469-21-9	ND(3300)	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)
Aroclor-1248	12672-29-6	ND(3300)	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)
Aroclor-1254	11097-69-1	**29000(3300)**	ND(33)	**920(330)**	**320(33)**	**190(67)**	**42(33)**	**40000(3300)**
Aroclor-1260	11096-82-5	ND(3300)	ND(33)	ND(330)	ND(33)	ND(67)	ND(33)	ND(3300)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-16B-93	BH-72B-93	BH-17A-93	BH-17B-93	SS-6-93	BH-18A-93	BH-18B-93
Sample Location		BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-17-93	BH-18-93	BH-18-93
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	0'-1'	2'-4'	6'-8'
Date Sampled		5/18/93	5/18/93	5/14/93	5/14/93	5/18/93	5/16/93	5/16/93
Date Analysed		6/7/93	6/7/93	6/4/93	6/6/93	6/7/93	6/5/93	6/5/93
units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
alpha-BHC	319-84-6	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
beta-BHC	319-85-7	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
delta-BHC	319-86-8	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
gamma-BHC (Lindane)	58-89-9	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
Alpha-Chlordane	5103-71-9	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
Gamma-Chlordane	5103-74-2	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
4,4'-DDD	72-54-8	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
4,4'-DDE	72-55-9	ND(280)	ND(57)uj	NA	NA	53(3.8)	NA	NA
4,4'-DDT	50-29-3	ND(280)	ND(57)uj	NA	NA	23(3.8)	NA	NA
Dieldrin	60-57-1	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
alpha-Endosulfan	959-98-8	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
beta-Endosulfan	33213-65-9	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
Endosulfan Sulfate	1031-07-08	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
Endrin	72-20-8	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
Endrin Ketone	53494-70-5	ND(280)	ND(57)uj	NA	NA	ND(3.8)	NA	NA
Heptachlor	76-44-8	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
Heptachlor Epoxide	1024-57-3	ND(150)	ND(29)uj	NA	NA	ND(2.0)	NA	NA
Methoxychlor	72-43-5	ND(1500)	ND(290)uj	NA	NA	ND(20)	NA	NA
Toxaphene	8001-35-2	ND(15000)	ND(2900)uj	NA	NA	ND(200)	NA	NA
Aroclor-1016	12674-11-2	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	ND(170)
Aroclor-1221	11104-28-2	ND(5800)	ND(1200)uj	ND(67)	ND(67)	ND(77)	ND(67)	ND(170)
Aroclor-1232	11141-16-5	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	ND(170)
Aroclor-1242	53469-21-9	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	ND(170)
Aroclor-1248	12672-29-6	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	ND(170)
Aroclor-1254	11097-69-1	19000(2800)	3600(570)j	ND(33)	ND(33)	ND(38)	ND(33)	ND(170)
Aroclor-1260	11096-82-5	ND(2800)	ND(570)uj	ND(33)	ND(33)	ND(38)	ND(33)	510(170)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-19A-93	BH-19B-93	BH-20A-93	BH-20B-93	BH-70B-93	BH-21A-93	BH-71A-93
Sample Location		BH-19-93	BH-19-93	BH-20-93	BH-20-93	BH-20-93	BH-21-93	BH-21-93
Sample Interval (BGS)		2'-4'	6'-8'	2'-4'	6'-8'	6'-8'	2'-4'	2'-4'
Date Sampled		5/17/93	5/17/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93
Date Analysed		6/9/93	6/9/93	6/8/93	6/8/93	6/8/93	6/7/93	6/7/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg) Duplicate
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	ND(200)	ND(200)
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	ND(200)	ND(200)
beta-BHC	319-85-7	NA	NA	NA	NA	NA	ND(200)	ND(200)
delta-BHC	319-86-8	NA	NA	NA	NA	NA	ND(200)	ND(200)
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	ND(200)	ND(200)
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	ND(200)	ND(200)
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	ND(200)	ND(200)
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	ND(390)	ND(380)
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	ND(390)	ND(380)
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	ND(390)	ND(380)
Dieldrin	60-57-1	NA	NA	NA	NA	NA	ND(390)	ND(380)
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	ND(200)	ND(200)
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	ND(390)	ND(380)
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	ND(390)	ND(380)
Endrin	72-20-8	NA	NA	NA	NA	NA	ND(390)	ND(380)
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	ND(390)	ND(380)
Heptachlor	76-44-8	NA	NA	NA	NA	NA	ND(200)	ND(200)
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	ND(200)	ND(200)
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	ND(2000)	ND(2000)
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	ND(20000)	ND(20000)
Aroclor-1016	12674-11-2	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(3900)	ND(3800)
Aroclor-1221	11104-28-2	ND(67)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(7900)	ND(7800)
Aroclor-1232	11141-16-5	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(3900)	ND(3800)
Aroclor-1242	53469-21-9	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(3900)	ND(3800)
Aroclor-1248	12672-29-6	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(3900)	ND(3800)
Aroclor-1254	11097-69-1	ND(33)	**730(170)**	**76,000(3300)**	**4200(670)**	**1000(330)**	**230,000(3900)**	**44,000(3800)**
Aroclor-1260	11096-82-5	ND(33)	ND(170)	ND(3300)	ND(670)	ND(330)	ND(3900)	ND(3800)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-21B-93	BH-55B-93	BH-22A-93	BH-22B-93	BH-56B-93	BH-23A-93	BH-23B-93
Sample Location		BH-21-93	BH-21-93	BH-22-93	BH-22-93	BH-22-93	BH-23-93	BH-23-93
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	6'-8'	6'-8'	2'-4'	6'-8'
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93	5/18/93
Date Analysed		6/10/93	6/10/93	6/8/93	6/8/93	6/8/93	6/8/93	6/8/93
units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)
Aroclor-1221	11104-28-2	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)
Aroclor-1232	11141-16-5	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)
Aroclor-1242	53469-21-9	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)
Aroclor-1248	12672-29-6	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)
Aroclor-1254	11097-69-1	230,000(17000)	310,000(17000)	55,000(3300)	49,000(3300)	50,000(3300)	76,000(3300)	79,000(3300)
Aroclor-1260	11096-82-5	ND(17000)	ND(17000)	ND(3300)	ND(3300)	ND(3300)	ND(3300)	ND(3300)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-57B-93	BH-24A-93	BH-58A-93	BH-24B-93	BH-25A-93	BH-25B-93	BH-26A-93
Sample Location		BH-23-93	BH-24-93	BH-24-93	BH-24-93	BH-25-93	BH-25-93	BH-26-93
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'
Date Sampled		5/18/93	5/18/93	5/18/93	5/18/93	5/16/93	5/16/93	5/16/93
Date Analysed		6/8/93	6/8/93	6/10/93	6/8/93	6/5/93	6/5/93	6/5/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
		Duplicate		Duplicate				
Parameter	CAS Number							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	**69,000(3300)**	**16,000(3300)**	**130,000(17000)**	**4300(170)**	ND(33)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(3300)	ND(3300)	ND(17000)	ND(170)	ND(33)	ND(33)	ND(33)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-26B-93	BH-27A-93	BH-27B-93	BH-28A-93	BH-28B-93	BH-29A-93	BH-29B-93
Sample Location		BH-26-93	BH-27-93	BH-27-93	BH-28-93	BH-28-93	BH-29-93	BH-29-93
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	6'-8'
Date Sampled		5/16/93	5/16/93	5/16/93	5/16/93	5/16/93	5/14/93	5/14/93
Date Analyzed		5/26/93	6/5/93	6/8/93	6/5/93	6/5/93	6/5/93	6/5/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	CAS Number							
Aldrin	309-00-2	ND(1.9)uj	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	ND(1.9)uj	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	ND(1.9)uj	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	ND(1.9)uj	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	ND(1.9)uj	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	ND(1.9)uj	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	ND(1.9)uj	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	ND(3.7)uj	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	ND(3.7)uj	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	ND(3.7)uj	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	ND(3.7)uj	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	ND(1.9)uj	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	ND(3.7)uj	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	ND(3.7)uj	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	ND(3.7)uj	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	ND(3.7)uj	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	ND(1.9)uj	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	ND(1.9)uj	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	ND(19)uj	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	ND(190)uj	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(37)uj	ND(33)	ND(33)	ND(1700)	ND(33)	ND(1700)	ND(330)
Aroclor-1221	11104-28-2	ND(76)uj	ND(67)	ND(67)	ND(1700)	ND(67)	ND(1700)	ND(330)
Aroclor-1232	11141-16-5	ND(37)uj	ND(33)	ND(33)	ND(1700)	ND(33)	ND(1700)	ND(330)
Aroclor-1242	53469-21-9	ND(37)uj	ND(33)	ND(33)	ND(1700)	ND(33)	ND(1700)	ND(330)
Aroclor-1248	12672-29-6	ND(37)uj	ND(33)	ND(33)	ND(1700)	ND(33)	ND(1700)	ND(330)
Aroclor-1254	11097-69-1	ND(37)uj	ND(33)	130(33)	6300(1700)	ND(33)	6500 E(1700)	1600 E(330)
Aroclor-1260	11096-82-5	ND(37)uj	ND(33)	ND(33)	ND(1700)	ND(33)	8000(1700)	2200(330)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-30A-93	BH-30B-93	BH-31A-93	BH-31B-93	BH-32A-93	BH-32B-93	BH-33A-93
Sample Location		BH-30-93	BH-30-93	BH-31-93	BH-31-93	BH-32-93	BH-32-93	BH-33-93
Sample Interval (BGS)		2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'
Date Sampled		5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93	5/14/93
Date Analysed		6/5/93	6/5/93	5/26/93	6/5/93	6/6/93	6/5/93	6/5/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	ND(1.9)uj	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	ND(1.9)uj	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	ND(1.9)uj	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	ND(1.9)uj	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	ND(1.9)uj	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	ND(1.9)uj	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	ND(1.9)uj	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	ND(3.6)uj	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	ND(3.6)uj	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	ND(3.6)uj	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	ND(3.6)uj	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	ND(1.9)uj	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	ND(3.6)uj	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	ND(3.6)uj	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	ND(3.6)uj	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	ND(3.6)uj	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	ND(1.9)uj	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	ND(1.9)uj	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	ND(19)uj	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	ND(190)uj	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(170)	ND(330)	ND(36)uj	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(170)	ND(330)	ND(74)uj	ND(67)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(170)	ND(330)	ND(36)uj	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(170)	ND(330)	ND(36)uj	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(170)	ND(330)	ND(36)uj	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	**1000(170)**	**6000(330)**	ND(36)uj	**470(33)**	ND(33)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(170)	ND(330)	ND(36)uj	ND(33)	ND(33)	ND(33)	ND(33)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-33B-93	BH-34A-93	BH-34B-93	BH-34R-93	BH-35A-93	BH-35R-93	BH-35B-93
Sample Location		BH-33-93	BH-34-93	BH-34-93	BH-34A-93	BH-35-93	BH-35A-93	BH-35-93
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	2'-4'	2'-4'	2'-4'	6'-8'
Date Sampled		5/14/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	5/13/93
Date Analyzed		6/5/93	6/3/93	6/3/93	5/26/93	6/3/93	5/27/93	6/3/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	CAS Number				Rinsate		Rinsate	
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(2.0)	ND(67)	ND(2.0)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(1.0)	ND(33)	ND(1.0)	ND(33)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SS-7-93	BH-36A-93	BH-36B-93	BH-55B-93	BH-36R-93	SS-8-93	BH-37A-93
Sample Location		BH-35-93	BH-36-93	BH-36-93	BH-36-93	BH-36B-93	BH-36-93	BH-37-93
Sample Interval (BGS)		0'-1'	2'-4'	6'-8'	6'-8'	6'-8'	0'-1'	2'-4'
Date Sampled		5/18/93	5/13/93	5/13/93	5/13/93	5/13/93	5/18/93	5/13/93
Date Analysed		6/8/93	5/3/93	5/26/93	5/26/93	6/11/93	6/9/93	6/3/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/L) Rinsate	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
alpha-BHC	319-84-6	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
beta-BHC	319-85-7	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
delta-BHC	319-86-8	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
4,4'-DDD	72-54-8	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
4,4'-DDE	72-55-9	NA	NA	ND(4.1)uj	**4.4(4.1)j**	ND(0.10)	NA	NA
4,4'-DDT	50-29-3	NA	NA	ND(4.1)uj	**8.0(4.1)j**	ND(0.10)	NA	NA
Dieldrin	60-57-1	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
Endrin	72-20-8	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
Endrin Ketone	53494-70-5	NA	NA	ND(4.1)uj	ND(4.1)uj	ND(0.10)	NA	NA
Heptachlor	76-44-8	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	ND(2.1)uj	ND(2.1)uj	ND(0.05)	NA	NA
Methoxychlor	72-43-5	NA	NA	ND(21)uj	ND(21)uj	ND(0.5)	NA	NA
Toxaphene	8001-35-2	NA	NA	ND(210)uj	ND(210)uj	ND(5.0)	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(83)uj	ND(83)uj	ND(2.0)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	**320(33)**	ND(41)uj	ND(41)uj	ND(1.0)	ND(33)	ND(33)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-37B-93	BH-37R-93	BH-38A-93	BH-38R-93	BH-38B-93	BH-39A-93	BH-51A-93
Sample Location		BH-37-93	BH-37B-93	BH-38-93	BH-38A-93	BH-38-93	BH-39-93	BH-39-93
Sample Interval (BGS)		6'-8'	6'-8'	2'-4'	2'-4'	6'-8'	2'-4'	2'-4'
Date Sampled		5/13/93	5/13/93	5/13/93	5/13/93	5/13/93	5/12/93	5/11/93
Date Analyzed		6/3/93	5/27/93	6/3/93	5/27/93	6/3/93	5/27/93	6/3/93
units		(µg/kg)	(µg/L) Rinsate	(µg/kg)	(µg/L) Rinsate	(µg/kg)	(µg/kg)	(µg/kg) Duplicate
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(2.0)uj	ND(67)	ND(2.0)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(1.0)uj	ND(33)	ND(1.0)	**680(33)**	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(1.0)uj	**44(33)**	ND(1.0)	**110(33)**	ND(33)	ND(33)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-39B-93	BH-40A-93	BH-40B-93	BH-41A-93	BH-41B-93	BH-52B-93	SS-9-93
Sample Location		BH-39-93	BH-40-93	BH-40-93	BH-41-93	BH-41-93	BH-41-93	BH-42-93
Sample Interval (BGS)		6'-8'	2'-4'	6'-8'	2'-4'	6'-8'	6'-8'	0'-1'
Date Sampled		5/12/93	5/12/93	5/12/93	5/12/93	5/12/93	5/12/93	5/18/93
Date Analysed		6/3/93	5/28/93	5/28/93	5/26/93	6/3/93	5/28/93	6/9/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)
Parameter	CAS Number							
Aldrin	309-00-2	NA	NA	NA	ND(1.8)	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	ND(1.8)	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	ND(1.8)	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	ND(1.8)	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	ND(1.8)	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	ND(1.8)	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	ND(1.8)	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	ND(3.5)	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	ND(3.5)	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	ND(3.5)	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	ND(3.5)	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	ND(1.8)	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	ND(3.5)	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	ND(3.5)	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	ND(3.5)	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	ND(3.5)	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	ND(1.8)	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	ND(1.8)	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	ND(18)	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	ND(180)	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(72)	ND(67)	ND(67)uj	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(35)	ND(33)	ND(33)uj	280(33)

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-42A-93	BH-53A-93	BH-42B-93	BH-43A-93	BH-54A-93	BH-43B-93	BH-44A-93
Sample Location		BH-42-93	BH-42-93	BH-42-93	BH-43-93	BH-43-93	BH-43-93	BH-44-93
Sample Interval (BGS)		2'-4'	2'-4'	6'-8'	2'-4'	2'-4'	6'-8'	2'-4'
Date Sampled		5/12/93	5/12/93	5/12/93	5/11/93	5/11/93	5/11/93	5/11/93
Date Analysed		5/27/93	5/27/93	5/27/93	5/28/93	5/28/93	5/27/93	5/28/93
units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)
Parameter	CAS Number							
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA	NA
Alpha Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-44B-93	SS-10-93	BH-45A-93	BH-45B-93	BH-46A-93	BH-46B-93	BH-46C-93
Sample Location		BH-44-93	BH-44-93	BH-45-93	BH-45-93	BH-46-93	BH-46-93	BH-46-93
Sample Interval (BGS)		6'-8'	0'-1'	2'-4'	6'-8'	2'-4'	6'-8'	24'-39.5'
Date Sampled		5/11/93	5/18/93	5/15/93	5/15/93	5/12/93	5/12/93	5/15/93
Date Analysed		5/28/93	6/11/93	6/5/93	6/5/93	5/27/93	5/26/93	5/26/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**							
Aldrin	309-00-2	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
beta-BHC	319-85-7	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
delta-BHC	319-86-8	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
Dieldrin	60-57-1	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
Endrin	72-20-8	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	ND(3.7)	ND(3.8)uj
Heptachlor	76-44-8	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	ND(1.9)	ND(2.0)uj
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	ND(19)	ND(20)uj
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	ND(190)	ND(200)uj
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(75)	ND(78)uj
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38uj
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(37)	ND(38)uj

TABLE C.3

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93	BH-56A-93
Sample Location		BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93	BH-49-93
Sample Interval (BGS)		83.5'-88.5'	2'-4'	6'-8'	2'-4'	6'-8'	2'-4'	2'-4'
Date Sampled		5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/14/93	5/14/93
Date Analysed		5/26/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93	6/5/93
units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg) Duplicate
Parameter	**CAS Number**							
Aldrin	309-00-2	NDX2.0)uj	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NDX2.0)uj	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NDX2.0)uj	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NDX2.0)uj	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NDX2.0)uj	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NDX2.0)uj	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NDX2.0)uj	NA	NA	NA	NA	NA	N/
4,4'-DDD	72-54-8	NDX3.9)uj	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NDX3.9)uj	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NDX3.9)uj	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NDX3.9)uj	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NDX2.0)uj	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NDX3.9)uj	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NDX3.9)uj	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NDX3.9)uj	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NDX3.9)uj	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NDX2.0)uj	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NDX2.0)uj	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NDX20)uj	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NDX200)uj	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)
Aroclor-1221	11104-28-2	NDX80)uj	NDX67)	NDX67)	NDX67)	NDX67)	NDX67)	NDX67)
Aroclor-1232	11141-16-5	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)
Aroclor-1242	53469-21-9	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)
Aroclor-1248	12672-29-6	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)
Aroclor-1254	11097-69-1	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)
Aroclor-1260	11096-82-5	NDX39)uj	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)	NDX33)

SURFACE AND BOREHOLE SOILS - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		BH-49B-93	BH-50A-93	BH-59A-93	BH-50B-93
Sample Location		BH-49-93	BH-50-93	BH-50-93	BH-50-93
Sample Interval (BGS)		6'-8'	2'-4'	2'-4'	6'-8'
Date Sampled		5/14/93	5/18/93	5/18/93	5/18/93
Date Analysed		6/5/93	6/10/93	6/10/93	6/10/93
units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)
Parameter	CAS Number				
Aldrin	309-00-2	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(33)uj
Aroclor-1254	11097-69-1	ND(33)	**49(33)**	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)

TABLE C.4

SURFACE AND BOREHOLE SOILS - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-2B-93	BH-2C-93	BH-2D-93	BH-60C-93	BH-5D-93	BH-6B-93	BH-11A-93
Sample Location	BH-2-93	BH-2-93	BH-2-93	BH-5-93	BH-5-93	BH-6-93	BH-11-93
Sample Interval (BGS)	6'-8'	27.5'-29.5'	70'-72'	21'-23.5'	68.5'-70.5'	6'-8'	2'-4'
Date Sampled	5/11/93	5/17/93	5/17/93	5/17/93	5/16/93	5/17/93	5/18/93
Date Analyzed	5/24 - 6/10/93	6/3 - 6/14/93	6/2 - 6/14/93	6/3 - 6/14/93	5/26 - 6/15/93	6/4 - 6/14/93	6/3 - 6/15/93
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Parameter							
Aluminum	42500(48)	7550(47)	601(43)	5620(46)	1840(45)	6200(50)	3240(44)
Antimony	ND(15)r	ND(14)r	ND(13)r	ND(14)r	ND(14)r	ND(15)r	ND(13)r
Arsenic	15(2.0)j	8.9(2.0)j	5.8(2.0)j	7.5(2.0)j	6.2(2.0)j	16(2.0)j	5.6(2.0)j
Barium	235(40)	55(40)	ND(4.0)	59(40)	ND(40)	108(40)	ND(40)
Beryllium	1.7(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)
Cadmium	1.4(1.0)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)
Calcium	64300(1000)j	74600(1000)	169000(1000)	76900(1000)	91000(1000)j	63100(1000)	28100(1000)
Chromium	86(2.4)j	11(2.3)	ND(2.1)	9.4(2.3)	7.5(2.3)j	ND(2.5)	4.9(2.2)
Cobalt	ND(10)	32(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Copper	495(5.0)j	38(5.0)	15(5.0)	18(5.0)	18(5.0)j	21(5.0)	8.3(5.0)
Iron	61900(20)	18500(20)	6420(20)	12600(20)	9050(20)	11100(20)	4860(20)
Lead	166(9.7)j	13(1.2)j	8.2(0.6)j	13(1.2)j	7.7(0.6)	55(2.5)j	12(1.1)j
Magnesium	13000(1000)	16100(1000)	16700(1000)	12800(1000)	13000(1000)	13800(1000)	3670(1000)
Manganese	1180(3.0)j	353(3.0)j	391(3.0)j	336(3.0)j	222(3.0)j	412(3.0)j	378(3.0)j
Mercury	0.19(0.1)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)	ND(0.12)	ND(0.11)
Nickel	68(8.0)	41(8.0)	ND(8.0)	14(8.0)	10(8.0)	12(8.0)	ND(8.0)
Potassium	ND(1000)	1320(1000)	ND(1000)	1260(1000)	ND(1000)	1270(1000)	ND(1000)
Selenium	ND(1.2)j	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.1)uj	ND(1.2)	ND(1.1)
Silver	ND(2.4)	ND(2.3)	ND(2.1)	ND(2.3)	ND(2.3)	ND(2.5)	ND(2.2)
Sodium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Thallium	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vanadium	20(10)	13(10)	ND(10)	12(10)	ND(10)	17(10)	ND(10)
Zinc	346(4.8)	64(4.7)	13(4.3)	37(4.6)	58(4.5)	61(5.0)	15(4.4)
Total Cyanide	1.3(.20)	ND(2.0)uj	ND(0.20)uj	ND(0.20)r	ND(0.20)uj	ND(0.20)uj	ND(0.20)uj

SURFACE AND BOREHOLE SOILS - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-11r-93	BH-16B-93	BH-72B-93	SS-6-93	SS-6r-93	BH-21A-93	BH-71A-93
Sample Location	BH-11-93	BH-16-93	BH-16-93	BH-17-93	BH-17-93	BH-21-93	BH-21-93
Sample Interval (BGS)	2'-4'	6'-8'	6'-8'	0'-1'	0'-1'	2'-4'	2'-4'
Date Sampled	5/18/93	5/18/93	5/18/93	5/17/93	5/17/93	5/18/93	5/18/93
Date Analyzed	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/17/93	6/2 - 6/16/93	6/2 - 6/17/93	6/2 - 6/17/93
Units	(mg/L) rinsate	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/L) rinsate	(mg/Kg)	(mg/Kg) Duplicate
Parameter							
Aluminum	ND(0.200)	**9310(69)**	**3040(69)**	**4090(46)**	ND(0.200)	**27800(47)**	**27500(47)**
Antimony	ND(0.060)	ND(21)r	ND(21)r	ND(14)r	ND(0.060)	**24(14)j**	**14(14)j**
Arsenic	ND(0.010)	**29(8.7)j**	**19(8.6)j**	**20(5.8)j**	ND(0.010)	**65(5.9)j**	**37(5.8)j**
Barium	ND(0.200)	**498(40)**	**410(40)**	**51(40)**	ND(0.200)	**46(40)**	**83(40)**
Beryllium	ND(0.005)	**2.9(1.7)**	**2.7(1.7)**	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)
Cadmium	ND(0.005)	**1.3 j(1.7)**	ND(1.7)	ND(1.2)	ND(0.005)	**2.9(1.2)**	**2.5(1.2)**
Calcium	ND(5.000)	**2140(1000)**	**1370(1000)**	**8410(1000)**	ND(5.000)	ND(1000)	ND(1000)
Chromium	ND(0.010)	**193(3.5)**	**32(3.5)**	**7.4(2.3)**	ND(0.010)	**1750(2.4)**	**1240(2.3)**
Cobalt	ND(0.050)	**16(10)**	ND(10)	ND(10)	ND(0.050)	**70(10)**	**61(10)**
Copper	ND(0.025)	**671(6.9)**	**72(6.9)**	**17(6.9)**	ND(0.025)	**1800(5.0)**	**1570(5.0)**
Iron	ND(0.100)	**101000(20)**	**19500(20)**	**6900(20)**	ND(0.100)	**604000(47)**	**489000(47)**
Lead	ND(0.003)	**31(1.7)j**	**16(1.7)j**	**139(12)j**	ND(0.003)	**74(4.7)j**	**64(4.7)j**
Magnesium	ND(5.000)	ND(1000)	ND(1000)	**2350(1000)**	ND(5.000)	ND(1000)	ND(1000)
Manganese	ND(0.015)	**818(3.0)j**	**148(3.0)j**	**665(3.0)j**	ND(0.015)	**4170(12)j**	**3080(12)j**
Mercury	ND(0.0002)	ND(0.17)	ND(0.17)	ND(0.12)	ND(0.0002)	ND(0.12)	ND(0.12)
Nickel	ND(0.040)	**99(8.0)**	**19(8.0)**	ND(8.0)	ND(0.040)	**443(47)**	**288(47)**
Potassium	ND(5.000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)
Selenium	ND(0.005)	**1.9(1.7)**	ND(1.7)	ND(1.2)	ND(0.005)	ND(1.2)	ND(1.2)
Silver	ND(0.010)	ND(3.5)	ND(3.5)	ND(2.3)	ND(0.010)	**4.8(2.4)**	**2.6(2.3)**
Sodium	ND(5.000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)
Thallium	ND(0.010)	ND(2.0)	ND(2.0)	ND(2.0)	ND(0.010)	ND(2.0)	ND(2.0)
Vanadium	ND(0.050)	**26(10)**	**20(10)**	ND(10)	ND(0.050)	**105(10)**	**88(10)**
Zinc	ND(0.020)	**82(6.9)**	**16(6.9)**	**46(4.6)**	ND(0.020)	**448(47)**	**412(47)**
Total Cyanide	NA	**0.56(0.20)j**	ND(0.20)uj	**0.24(0.20)j**	NA	**1.2(0.50)j**	**14(10)j**

TABLE C.4

SURFACE AND BOREHOLE SOILS - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-26B-93	BH-31A-93	BH-36B-93	BH-55B-93	BH-36r-93	BH-41A-93	BH46B-93
Sample Location	BH-26-93	BH-31-93	BH-36-93	BH-36-93	BH-36-93	BH-41-93	BH-46-93
Sample Interval (BGS)	6'-8'	2'-4'	6'-8'	6'-8'	6'-8'	2'-4'	6'-8'
Date Sampled	5/16/93	5/14/93	5/13/93	5/13/93	5/13/93	5/12/93	5/12/93
Date Analyzed	5/26 - 6/10/93	5/26 - 6/17/93	5/26 - 6/17/93	5/19 - 6/10/93	5/24-6/16/93	5/24-6/16/93	5/24-6/15/93
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg) rinsate	(mg/Kg)	(mg/Kg)
Parameter							
Aluminum	6600(46)	4690(44)	5910(50)	6720(50)	ND(0.200)	5110(43)	5020(45)
Antimony	ND(14)r	ND(13)r	ND(15)r	ND(15)r	ND(0.060)	ND(15)	ND(14)r
Arsenic	4.1(2.0)j	4.2(2.0)j	9.9(2.0)j	5.0(2.0)j	ND(0.010)	3.6(2.0)j	6.1(2.0)j
Barium	108(40)	124(40)	254(40)	122(40)	ND(0.200)	ND(40)	ND(40)
Beryllium	ND(1.1)	ND(1.1)	1.3(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)
Cadmium	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)	ND(0.005)	ND(1.1)	ND(1.1)
Calcium	19000(1000)j	38100(1000)j	14900(1000)j	38000(1000)j	ND(5.000)	13800(1000)j	19600(1000)j
Chromium	13(2.3)j	13(2.2)j	14(2.5)j	21(2.5)j	ND(0.010)	11(2.2)j	8.3(2.3)j
Cobalt	ND(1.0)	ND(0.11)	ND(10)	ND(10)	ND(0.050)	ND(10)	ND(10)
Copper	58(5.0)j	34(5.0)j	36(5.0)j	109(5.0)j	ND(0.025)	14(5.0)j	11(5.0)j
Iron	10500(20)	8250(20)	8970(20)	16300(20)	ND(0.100)	11200(20)	11400(20)
Lead	8.8(1.4)	23(1.1)	14(5.0)	290(10)j	ND(0.003)	7.7(1.0)	13(1.1)
Magnesium	5360(1000)	6130(1000)	4790(1000)	9020(1000)	ND(5.000)	5500(1000)	3470(1000)
Manganese	230(3.0)j	222(3.0)j	235(3.0)j	591(3.0)j	ND(0.015)	280(3.0)	347(3.0)j
Mercury	ND(0.11)	ND(0.11)	ND(0.12)	0.28(0.12)	ND(0.0002)	ND(0.1)	ND(0.1)
Nickel	12(8.0)	10(8.0)	15(8.0)	15(8.0)	ND(0.040)	11(8.0)	8.3(8.0)
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)
Selenium	ND(1.1)uj	ND(1.1)uj	ND(1.2)uj	ND(1.2)uj	ND(0.005)	ND(1.1)j	ND(1.1)uj
Silver	ND(2.3)	ND(2.2)	ND(2.5)	ND(2.5)	ND(0.010)	ND(2.2)	ND(2.3)
Sodium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(5.000)	ND(1000)	ND(1000)
Thallium	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(0.010)	ND(2.0)	ND(2.0)
Vanadium	23(10)	15(10)	22(10)	23(10)	ND(0.050)	17(10)	16(10)
Zinc	58(4.6)	41(4.4)	57(5.0)	470(5.0)	ND(0.020)	30(4.3)	32(4.5)
Total Cyanide	0.27(0.20)j	ND(0.20)uj	ND(0.20)	0.27(0.20)	ND(0.010)	ND(0.20)	ND(0.20)

SURFACE AND BOREHOLE SOILS - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-46C-93	BH-46D-93	BH-47A-93	BH-47B-93	BH-48A-93	BH-48B-93	BH-49A-93
Sample Location	BH-46-93	BH-46-93	BH-47-93	BH-47-93	BH-48-93	BH-48-93	BH-49-93
Sample Interval (BGS)	24'-39.5'	83.5'-88.5'	2'-4'	6'-8'	2'-4'	6' - 8'	2'-4'
Date Sampled	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93	5/15/93
Date Analyzed	5/26-6/15/93	5/26-6/17/93	7/13-7/15/93	7/12 - 7/15/93	7/13 - 7/15/93	7/13 - 7/15/93	7/12 - 7/15/93
Units	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Parameter							
Aluminum	**8290(47)**	**1740(48)**	**2100(44)**	**3100(46)**	**6000(46)**	**1900(46)**	**1600(44)**
Antimony	ND(14)r	ND(14)r	ND(13)uj	ND(14)uj	ND(14)uj	ND(14)uj	ND(13)uj
Arsenic	6.6(2.0)j	4.3(2.0)j	ND(2.0)uj	**2.1(2.0)j**	ND(2.0)uj	**3.2(2.0)j**	**2.1(2.0)j**
Barium	58(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)
Beryllium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)
Cadmium	ND(1.2)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)
Calcium	**94200(1000)j**	**118000(1000)**	**13000(1000)**	**61000(1000)**	**7200(1000)**	**37000(1000)**	**75000(1000)**
Chromium	**12(2.3)j**	**4.5(2.4)j**	**6.8(2.2)**	**9.2(2.3)**	**12(2.3)**	**6.2(2.3)**	**3.4(2.2)**
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Copper	**24(5.0)j**	**15(5.0)j**	**12(5.0)**	**8.7(5.0)**	ND(5.0)	**5.2(5.0)**	**6.9(5.0)**
Iron	**18300(20)**	**7290(20)**	**5100(20)**	**6100(20)**	**7500(20)**	**3200(20)**	**4900(20)**
Lead	**12(1.2)**	**8.5(1.4)**	**4.1(0.6)**	**8.9(1.2)j**	**4.8(0.6)j**	**5.4(0.6)j**	**3.0(0.6)j**
Magnesium	**18200(1000)**	**12000(1000)**	**15000(1000)**	**13000(1000)**	**3800(1000)**	**8200(1000)**	**10000(1000)**
Manganese	**430(3.0)j**	**245(3.0)j**	**370(3.0)**	**170(3.0)**	**77(3.0)**	**87(3.0)**	**210(3.0)**
Mercury	ND(0.12)	ND(0.12)	ND(0.11)uj	ND(0.12)uj	ND(0.12)uj	ND(0.12)uj	ND(0.11)uj
Nickel	**23(8.0)**	**9.3(8.0)**	ND(8.0)	ND(8.0)	**9.2(8.0)**	ND(8.0)	ND(8.0)
Potassium	**1790(1000)**	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Selenium	ND(1.2)uj	ND(1.2)uj	ND(1.1)	ND(1.2)	ND(1.2)	ND(1.2)	ND(1.1)
Silver	ND(2.3)	ND(2.4)	ND(2.2)	ND(2.3)	ND(2.3)	ND(2.3)	ND(2.2)
Sodium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Thallium	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vanadium	**19(10)**	ND(10)	ND(10)	ND(10)	**14(10)**	ND(10)	ND(10)
Zinc	**63(4.7)**	**39(4.8)**	**20(4.4)**	**20(4.6)**	**34(4.6)**	**32(4.6)**	**13(4.4)**
Total Cyanide	ND(0.20)uj	ND(0.20)uj	ND(0.21)uj	ND(0.23)uj	ND(0.23)uj	ND(0.22)uj	ND(0.21)uj

TABLE C.4

SURFACE AND BOREHOLE SOILS - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	BH-56A-93	BH-49B-93	BH-50A-93	BH-59A-93	BH-50B-93
Sample Location	BH-49-93	BH-49-93	BH-50-93	BH-50-93	BH-50-93
Sample Interval (BGS)	2'-4'	6'-8'	2'-4'	2'-4'	6'-8'
Date Sampled	5/15/93	5/15/93	5/18/93	5/18/93	5/18/93
Date Analyzed	7/12 - 7/15/93	7/13 - 7/16/93	6/2 - 6/14/93	6/2 - 6/14/93	6/2 - 6/14/93
Units	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)
Parameter					
Aluminum	4700(44)	1800(45)	2350(45)	3250(46)	2620(46)
Antimony	ND(13)uj	ND(13)uj	ND(13)r	ND(14)r	ND(14)r
Arsenic	3.2(2.0)j	ND(2.0)uj	15(2.0)j	15(2.0)j	19(5.8)j
Barium	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)
Beryllium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)
Cadmium	ND(1.1)	ND(1.1)	ND(1.1)	ND(1.2)	ND(1.2)
Calcium	35000(1000)	78000(1000)	ND(1000)	ND(1000)	7000(1000)
Chromium	9.7(2.2)	4.3(2.2)	2.3(2.2)	4.5(2.3)	4.8(2.3)
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Copper	11(5.0)	8.3(5.0)	8.6(5.0)	8.2(5.0)	6.2(5.0)
Iron	10000(20)	4500(20)	3770(20)	4750(20)	4660(20)
Lead	4.9(1.2)j	6.1(0.6)j	69(2.2)j	80(4.6)j	68(4.6)j
Magnesium	8200(1000)	17000(1000)	ND(1000)	ND(1000)	1560(1000)
Manganese	190(3.0)	160(3.0)	328(3.0)	488(3.0)	366(3.0)
Mercury	ND(0.11)uj	ND(0.11)uj	ND(0.11)	ND(0.12)	ND(0.12)
Nickel	11(8.0)	ND(8.0)	ND(8.0)	ND(8.0)	ND(8.0)
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Selenium	ND(1.1)	ND(1.2)	ND(1.1)	ND(1.2)	ND(1.2)
Silver	ND(2.2)	ND(2.2)	ND(2.2)	ND(2.3)	ND(2.3)
Sodium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Thallium	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vanadium	15(10)	ND(10)	ND(10)	ND(10)	ND(10)
Zinc	23(4.4)	16(4.5)	12(4.5)	28(4.6)	14(4.6)
Total Cyanide	ND(0.21)uj	ND(0.21)uj	NA	NA	NA

APPENDIX D

WELL DEVELOPMENT LOGS

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 8/17/93
DEVELOPMENT CREW MEMBERS Tim McMeiken Steve Heidmaier
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-5U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 6.35 ELEVATION
BOTTOM DEPTH 20.1 ELEVATION
WATER COLUMN LENGTH 13.75
SCREENED INTERVAL
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.25	4.50	6.75	9.00	11.25	
FIELD pH	7.64	7.56	7.52	7.46	7.52	
FIELD TEMPERATURE	63.1	59.2	58.0	58.8	58.1	
FIELD CONDUCTIVITY	2870	2820	2820	2790	2760	
CLARITY	cloudy	→	→	→	→	
COLOR	brown	→	→	→	→	
ODOR	none	→	→	→	→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 8/17/93
DEVELOPMENT CREW MEMBERS Jim McClellan Steve Havemeyer
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-111
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 11.23 ELEVATION
BOTTOM DEPTH 16.00 ELEVATION
WATER COLUMN LENGTH 4.77
SCREENED INTERVAL
WELL VOLUME .7632

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	1.0	2.0	4.0	5.0	6.0	
FIELD pH	4.68	4.25*	7.51	7.3		
FIELD TEMPERATURE	60.5	58.8	61.5	60.0	58.3	
FIELD CONDUCTIVITY	5120	4590	4900	4800	4840	
CLARITY	Cloudy →					
COLOR	grey →					
ODOR	none →					
COMMENTS	oil odor →					

COPIES TO:

* Recalibrated pH meter

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 8/17/93
DEVELOPMENT CREW MEMBERS Jim McClellan Steve Hevemeyer
SUPERVISOR
PURGING METHOD Sub. Pump

WELL INFORMATION

WELL NUMBER MW-1D
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 61.99 ELEVATION
BOTTOM DEPTH 85.6 ELEVATION
WATER COLUMN LENGTH 23.61
SCREENED INTERVAL
WELL VOLUME 3.77

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	4.0	8.0	12.0	16.0	20.0	
FIELD pH	7.33	7.15	7.18	7.37	7.10	
FIELD TEMPERATURE	61.0	60.1	57.5	59.0	59.1	
FIELD CONDUCTIVITY	4610	3020	1220	1240	1230	
CLARITY	cloudy	turbid	clean	→	→	
COLOR	B/grey	grey	none	→	→	
ODOR	none	→	→	→	→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 8/17/93
DEVELOPMENT CREW MEMBERS Jim McClellan Steve Hovemeyer
SUPERVISOR
PURGING METHOD Sub pump

WELL INFORMATION

WELL NUMBER MW-2D
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 62.21 ELEVATION
BOTTOM DEPTH 71.40 ELEVATION
WATER COLUMN LENGTH 9.19
SCREENED INTERVAL
WELL VOLUME 1.4 gal

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	1.5	3.0	4.5	6.0	7.5	
FIELD pH	5.98	6.23	6.05	6.13	6.09	
FIELD TEMPERATURE —	65.1	63.0	63.4	59.8	60.1	
FIELD CONDUCTIVITY —	2110	2010	1190	1100	1088	
CLARITY	clear	→			→	
COLOR	none	→			→	
ODOR	none	→			→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 5/17/93
DEVELOPMENT CREW MEMBERS Jim Meridian Steve Hevenreller
SUPERVISOR
PURGING METHOD Bailing

WELL INFORMATION

WELL NUMBER MW-24
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION 102
STATIC WATER DEPTH 10.63 ELEVATION
BOTTOM DEPTH 15.8 ELEVATION
WATER COLUMN LENGTH 5.17
SCREENED INTERVAL .82
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	1.0	2.0	3.0	4.0	5.0	
FIELD pH	5.98	5.87	5.81	5.87	5.83	
FIELD TEMPERATURE —	61.9	57.8	56.5	55.9	56.3	
FIELD CONDUCTIVITY —	1990	1900	1890	1860	1890	
CLARITY						
COLOR						
ODOR						
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 5/17/93
DEVELOPMENT CREW MEMBERS Jim Maclellan Steve Heavenrich
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-3U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 7.00 ELEVATION
BOTTOM DEPTH 22.70 ELEVATION
WATER COLUMN LENGTH 15.7
SCREENED INTERVAL
WELL VOLUME 2.5

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	2.5	5.0	7.5	10.0	12.5	
FIELD pH	6.56	6.75	6.45	6.50	6.60	
FIELD TEMPERATURE —	62.0	60.4	58.4	57.5	58.3	
FIELD CONDUCTIVITY —	2120	2110	2010	2010	2110	
CLARITY	cloudy →				→	
COLOR	grey/tan →				→	
ODOR	none →				→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 5/17/93
DEVELOPMENT CREW MEMBERS Jim McClellan Steve Heivemeier
SUPERVISOR
PURGING METHOD Sub pump

WELL INFORMATION

WELL NUMBER MW-3D
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 56.43 ELEVATION
BOTTOM DEPTH 68.4 ELEVATION
WATER COLUMN LENGTH 11.97
SCREENED INTERVAL 1.91
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.0	4.0	6.0	8.0	10.0	
FIELD pH	7.11	7.08	7.11	7.16	6.99	
FIELD TEMPERATURE	61.2	60.9	58.6	58.5	57.6	
FIELD CONDUCTIVITY	1130	1120	1080	1070	1040	
CLARITY	cloudy	→	→	→	→	
COLOR	tan	→	→	→	→	
ODOR	none	→	→	→	→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Texaco Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 5/17/93
DEVELOPMENT CREW MEMBERS J.M. Maclellan Steve Hollenbeck
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-411
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION 100
STATIC WATER DEPTH 15.59 ELEVATION
BOTTOM DEPTH 16.1 ELEVATION
WATER COLUMN LENGTH 6.15
SCREENED INTERVAL
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	1gal	2gals	3gals	4gals	5gals	
FIELD pH	7.38	7.39	7.40	7.39	7.36	
FIELD TEMPERATURE —	65.1	61.5	60.3	60.4	61.0	
FIELD CONDUCTIVITY —	1458	1472	1490	1500	1440	
CLARITY						
COLOR						
ODOR						
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4/770
DATE OF WELL DEVELOPMENT 8/17/93
DEVELOPMENT CREW MEMBERS Jim McClellan Steve Hoekmeijer
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-6U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION 102
STATIC WATER DEPTH 6.19 ELEVATION
BOTTOM DEPTH 22.3 ELEVATION
WATER COLUMN LENGTH 16.11
SCREENED INTERVAL
WELL VOLUME 2.5

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.5	5.0	7.5	10.0	12.5	
FIELD pH	7.41	7.39	7.39	7.41	7.51	
FIELD TEMPERATURE	73.2	69.9	68.2	67.9	67.2	
FIELD CONDUCTIVITY	1780	1680	1650	1580	1580	
CLARITY	cloudy	→			→	
COLOR	B/tan	→	tan	→	→	
ODOR	none	→			→	
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6.9.03
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-24
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 9.475 ELEVATION
BOTTOM DEPTH 15.8 ELEVATION
WATER COLUMN LENGTH 6.3
SCREENED INTERVAL
WELL VOLUME 1 gal

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	1.0	2.0	3.0			
FIELD pH	7.4	7.15	7.14			
FIELD TEMPERATURE	61.5	59.2	58.5			
FIELD CONDUCTIVITY	2070	2150	2150			
CLARITY	cloudy →					
COLOR	grey →					
ODOR	Sewage, leachate smell →					
COMMENTS	silty →					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/9/93
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-14
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 9.38 ELEVATION
BOTTOM DEPTH 16.0 ELEVATION
WATER COLUMN LENGTH
SCREENED INTERVAL
WELL VOLUME 1.1 gal

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.0	4.0	6.0			
FIELD pH	6.5	6.87	6.83			
FIELD TEMPERATURE	61.7	58.1	59.1			
FIELD CONDUCTIVITY	4130	4070	3930			
CLARITY	cloudy	→	→			
COLOR	grey	→	→			
ODOR						
COMMENTS	oily	→	→			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/9/93
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-6U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 5.230 ELEVATION
BOTTOM DEPTH 22.3 ELEVATION
WATER COLUMN LENGTH
SCREENED INTERVAL
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	3.0	6.0	9.0	12.0		
FIELD pH	5.0	(5)	(5)			
FIELD TEMPERATURE						
FIELD CONDUCTIVITY	510	500	500			
CLARITY	Cloudy →					
COLOR	brown →					
ODOR						
COMMENTS	Silty, oily →					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 477C
DATE OF WELL DEVELOPMENT 6/9/93
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-4U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION 16?
STATIC WATER DEPTH 9.207 ELEVATION
BOTTOM DEPTH 16.7 ELEVATION
WATER COLUMN LENGTH
SCREENED INTERVAL
WELL VOLUME 1.2

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.0	4.0	6.0			
FIELD pH	7.23	7.4	7.8			
FIELD TEMPERATURE	62.9	60.9	62.0			
FIELD CONDUCTIVITY	2090	2100	2240			
CLARITY	cloudy	→	→			
COLOR	tan	→	→			
ODOR						
COMMENTS	silty	→	→			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/19/93
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-5A
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 6.51 ELEVATION
BOTTOM DEPTH 20.1 ELEVATION
WATER COLUMN LENGTH
SCREENED INTERVAL
WELL VOLUME

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	25	5.0	75			
FIELD pH	7.5	7.63	7.47			
FIELD TEMPERATURE	61.0	61.2	60.7			
FIELD CONDUCTIVITY	2710	2870	2930			
CLARITY	cloudy	→				
COLOR	grey	→				
ODOR	none	→				
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/9/93
DEVELOPMENT CREW MEMBERS Brian Smith Frank King
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-34
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 5.982 ELEVATION
BOTTOM DEPTH 22.5 ELEVATION
WATER COLUMN LENGTH
SCREENED INTERVAL
WELL VOLUME 2.6 gal

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	3.0	6.0	9.0			
FIELD pH	7.57	7.45	7.35			
FIELD TEMPERATURE	64.0	63.1	62.9			
FIELD CONDUCTIVITY	2470	2560	2610			
CLARITY	cloudy	→	→			
COLOR	grey	→	→			
ODOR	none	→	→			
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME TEXTILE ROAD PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/03
DEVELOPMENT CREW MEMBERS FRANK RINK JIM McCLELLAN
SUPERVISOR
PURGING METHOD BAILER

WELL INFORMATION

WELL NUMBER MW-6C
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 5.1 ELEVATION
BOTTOM DEPTH 22.3 ELEVATION
WATER COLUMN LENGTH 17.2
SCREENED INTERVAL
WELL VOLUME 2.7 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 0.2 ppm BK GRD - 0.2 ppm

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	3 C	6 C	9 C	12 C		
FIELD pH	7.3	7.5	7.45	7.49		
FIELD TEMPERATURE	52.9	52.0	52.2	52.1		
FIELD CONDUCTIVITY	569	550	574	587		
CLARITY	CLOUDY →					
COLOR	BROWN →					
ODOR	NONE →					
COMMENTS	SILTY SAND →					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-10
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION
STATIC WATER DEPTH 6.21 ELEVATION
BOTTOM DEPTH 16.0 ELEVATION
WATER COLUMN LENGTH 9.79
SCREENED INTERVAL
WELL VOLUME 1.5 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 1.1ppm BK.GRD - 0.5

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	2.0	4.0	6.0	8.0	10.0	
FIELD pH	6.86	6.95	6.93	6.91	6.93	
FIELD TEMPERATURE —	53.8	53.2	53.0	52.5	52.5	
FIELD CONDUCTIVITY —	2220	2390	2430	2430	2470	
CLARITY	Cloudy →					
COLOR	Grey →					
ODOR						
COMMENTS	Oily →					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Sub Pump

WELL INFORMATION

WELL NUMBER MW-1D
WELL TYPE (diameter/material)
MEASURING POINT ELEVATION
STATIC WATER DEPTH 57.8 ELEVATION
BOTTOM DEPTH 85.6 ELEVATION
WATER COLUMN LENGTH 27.8
SCREENED INTERVAL
WELL VOLUME 4.4 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 1.8 ppm BK. GRD - 0.5 ppm

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	5 C	10.0	15.0	20.0	25.0	
FIELD pH	7.44	7.31	7.71	7.47	7.33	
FIELD TEMPERATURE	56.5	55.8	56.0	55.9	55.8	
FIELD CONDUCTIVITY	654	648	721	650	649	
CLARITY	Cloudy →			Clear →		
COLOR	Grey →		Tan →			
ODOR						
COMMENTS	PR 1.94 →		PR 2.03 →			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME TEXTILE ROAD PROJECT NO. 477C
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS FRANK RING JIM MCCLELLAN
SUPERVISOR
PURGING METHOD BAILER

WELL INFORMATION

WELL NUMBER MW-2U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC.
STATIC WATER DEPTH 9.47 ELEVATION
BOTTOM DEPTH 15.8 ELEVATION
WATER COLUMN LENGTH 6.33
SCREENED INTERVAL
WELL VOLUME 1.01 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 2.0ppm BK. GRD. - 0.5

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	1.0	2.0	3.0	4.0		
FIELD pH	6.94	6.84	6.85	6.87		
FIELD TEMPERATURE	52.9	53.0	52.5	52.4		
FIELD CONDUCTIVITY	852	861	894	912		
CLARITY	CLOUDY →					
COLOR	GREY/ →					
ODOR	OILY LEACHATE →					
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD SUB Pump

WELL INFORMATION

WELL NUMBER MW-2D
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 59.55 ELEVATION
BOTTOM DEPTH 71.40 ELEVATION
WATER COLUMN LENGTH 11.85
SCREENED INTERVAL
WELL VOLUME 1.9 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 1.3 ppm BK GRD 0.5 ppm

	1	2	3	4	5	TOT/AVG	
VOLUME PURGED (# bails/tot. volume)	2 C	4.C	6.C	8.C	10.0	12.0	14.0
FIELD pH	7.23	7.20	7.04	7.05	7.05	7.04	7.0
FIELD TEMPERATURE	56.4	55 6	55 8	55.5	55 2	55.2	55
FIELD CONDUCTIVITY	1281	1120	1024	958	920	925	92
CLARITY	Turbid →		Clear →				
COLOR	None →						
ODOR	None →						
COMMENTS	PR 1.82	PR 1.67					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-3U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 5.98 ELEVATION
BOTTOM DEPTH 22.7 ELEVATION
WATER COLUMN LENGTH 16.72
SCREENED INTERVAL
WELL VOLUME 2.6 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 1.9 ppm BK. GRD. - 0.7 ppm

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	2.6	5.2	7.8	10.4		
FIELD pH	7.06	7.5	7.52	7.55		
FIELD TEMPERATURE	53.8	53.7	53.5	53.4		
FIELD CONDUCTIVITY	769	808	795	820		
CLARITY	Cloudy →					
COLOR	Brown/ Grey →					
ODOR	None →					
COMMENTS						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Sub Pump

WELL INFORMATION

WELL NUMBER MW-3D
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 52.87 ELEVATION
BOTTOM DEPTH 68.4 ELEVATION
WATER COLUMN LENGTH 15.53
SCREENED INTERVAL
WELL VOLUME 2.48 Gal

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

PID - 0.9 ppm BK GRD 0.7 ppm

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.5	5.0	7.5	10.0	12.5	
FIELD pH	9.96	6.90	7.9	7.93	7.9	
FIELD TEMPERATURE	57.9	57.6	56.7	56.5	56.4	
FIELD CONDUCTIVITY	835	629	607	612	597	
CLARITY	Cloudy →				Turbid	
COLOR	Brown/ Tan	Grey/ Brown →			Grey	
ODOR	None →					
COMMENTS	Extremely Silty	Turbid →				

COPIES TO: PR 1.8 →

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-4U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 9.3 ELEVATION
BOTTOM DEPTH 16.7 ELEVATION
WATER COLUMN LENGTH 7.4
SCREENED INTERVAL
WELL VOLUME 1.18 GAL

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT / AVG
VOLUME PURGED (# bails/tot. volume)	2.0	4.0	6.0	8.0	10.0	
FIELD pH	7.1	7.2	7.18	7.26	7.3	
FIELD TEMPERATURE	52	52.5	52.6	51.3	51.9	
FIELD CONDUCTIVITY	720	820	746	790	764	
CLARITY	Cloudy →					
COLOR	Brown →		Tan →			
ODOR						
COMMENTS	Silty →					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME Textile Road PROJECT NO. 4770
DATE OF WELL DEVELOPMENT 6/2/93
DEVELOPMENT CREW MEMBERS Frank Ring Jim McClellan
SUPERVISOR
PURGING METHOD Bailer

WELL INFORMATION

WELL NUMBER MW-5U
WELL TYPE (diameter/material) 2" SS
MEASURING POINT ELEVATION TOC
STATIC WATER DEPTH 6.6 ELEVATION
BOTTOM DEPTH 20.1 ELEVATION
WATER COLUMN LENGTH 13.5
SCREENED INTERVAL
WELL VOLUME 2.16

Note: For 2" dia well, 1 foot= 0.14 gallons(imp) or 0.16 gallons(us).
1 meter= 2 liters.

DEVELOPMENT DATA

	1	2	3	4	5	TOT/AVG
VOLUME PURGED (# bails/tot. volume)	2.5	5.0	7.5	10.0		
FIELD pH	6.15	6.54	6.71	6.70		
FIELD TEMPERATURE —	53.0	51.0	50.2	50.1		
FIELD CONDUCTIVITY —	747	1174	1190	1201		
CLARITY	Cloudy →					
COLOR	Brown/ Grey →					
ODOR	None →					
COMMENTS						

COPIES TO:

APPENDIX E

GROUNDWATER - ROUND 1 AND ROUND 2 ANALYTICAL RESULTS

DATA QUALIFICATION KEY

ND	=	Analyte not detected.
( )	=	Quantitation limit.
J	=	Analyte present at level less than the quantitation limit.
B	=	Analyte present in method blank.
j	=	The associated value is an estimated quantity.
u	=	Non-detect, with the associated value becoming the quantitation limit.
uj	=	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
r	=	Unusable data.
E	=	Estimated value.

TABLE E.1

GROUNDWATER ROUND 1 - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/17/93	6/17/93	6/17/93	6/17/93	6/17/93	6/17/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				Duplicate
Parameter	CAS Number						
Acetone	67-64-1	ND(0.010)	ND(0.010)	0.017(0.010)	0.014(0.010)	ND(0.010)	ND(0.010)
Benzene	71-43-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	ND(0.010)	ND(0.010)
Bromoform	75-25-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromomethane	74-83-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Butanone	78-93-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Disulfide	75-15-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon tetrachloride	56-23-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	108-90-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.032(0.010)	0.032(0.010)
Chloroethane	75-00-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloroform	67-66-3	ND(0.010)	ND(0.010)	ND(0.010)	0.010(0.010)	ND(0.010)	ND(0.010)
Chloromethane	74-87-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibromochloromethane	124-48-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1-Dichloroethane	75-34-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethane	107-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1-Dichloroethene	75-35-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloropropane	78-87-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
cis-1,3-Dichloropropene	10061-01-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	10061-02-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethylbenzene	100-41-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Hexanone	591-78-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methylene chloride	75-09-2	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	0.001 J (0.010)	ND(0.010)	0.001 J (0.010)
4-Methyl-2-pentanone	108-10-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Styrene	100-42-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Tetrachloroethene	127-18-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)	ND(0.010)	ND(0.010)
1,1,1-Trichloroethane	71-55-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2-Trichloroethane	79-00-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	79-01-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl acetate	108-05-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl chloride	75-01-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Xylenes (total)	1330-20-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

GROUNDWATER ROUND 1 - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/17/93	6/17/93	6/17/93	6/17/93	6/17/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	CAS Number					
Acetone	67-64-1	**0.075(0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	**0.038(0.010)**
Benzene	71-43-2	ND(0.010)	**0.003 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromoform	75-25-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromomethane	74-83-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Butanone	78-93-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon Disulfide	75-15-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon tetrachloride	56-23-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	108-90-7	ND(0.010)	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	ND(0.010)
Chloroethane	75-00-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloroform	67-66-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloromethane	74-87-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibromochloromethane	124-48-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1-Dichloroethane	75-34-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethane	107-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1-Dichloroethene	75-35-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	**0.010(0.010)**	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloropropane	78-87-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
cis-1,3-Dichloropropene	10061-01-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	10061-02-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethylbenzene	100-41-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Hexanone	591-78-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methylene chloride	75-09-2	**0.001 J (0.010)**	ND(0.010)	ND(0.010)	**0.001 J (0.010)**	ND(0.010)
4-Methyl-2-pentanone	108-10-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Styrene	100-42-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Tetrachloroethene	127-18-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,1-Trichloroethane	71-55-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2-Trichloroethane	79-00-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	79-01-6	ND(0.010)	**0.001 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl acetate	108-05-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl chloride	75-01-4	ND(0.010)	**0.009 J (0.010)**	ND(0.010)	ND(0.010)	ND(0.010)
Xylenes (total)	1330-20-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.2

GROUNDWATER ROUND 1 - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				Duplicate
Base/Neutral Compounds	**CAS Number**						
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthylene	208-96-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzoic acid	65-85-0	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Benzyl alcohol	100-51-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethyl)ether	111-44-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-ethylhexyl)phthalate	117-81-7	0.007 J B (0.010)u	0.005 J B (0.010)u	0.099 B (0.010)	0.42 B (0.010)	ND(0.010)	0.004 J B (0.010)u
4-Bromophenyl phenyl ether	101-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Butyl benzyl phthalate	85-68-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	106-47-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	91-58-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	132-64-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	95-50-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	541-73-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	106-46-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	91-94-1	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Diethyl phthalate	84-66-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethyl phthalate	131-11-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	121-14-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	606-20-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)	0.002 J (0.010)
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

GROUNDWATER ROUND 1 - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/22/93	6/22/93	6/22/93	6/30/93	6/22/93	6/22/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
			Rinsate				Duplicate
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	77-47-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	67-72-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	78-59-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitroaniline	88-74-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
3-Nitroaniline	99-09-2	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroaniline	100-01-6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Nitrobenzene	98-95-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	**0.003 J (0.050)**	**0.003 J (0.050)**
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.002 J (0.010)**	**0.002 J (0.010)**
1,2,4-Trichlorobenzene	120-82-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acid Compounds							
4-Chloro-3-methylphenol	59-50-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	95-57-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	120-83-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	105-67-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4,6 Dinitro-2-methylphenol	534-52-1	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrophenol	51-28-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Methylphenol	95-48-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Methylphenol	106-44-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitrophenol	88-75-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitrophenol	100-02-7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Pentachlorophenol	87-86-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenol	108-95-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	95-95-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	88-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.2

GROUNDWATER ROUND 1 - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Base/Neutral Compounds	**CAS Number**					
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)
Acenaphthylene	208-96-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.005 J (0.010)
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)
Benzoic acid	65-85-0	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Benzyl alcohol	100-51-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethyl)ether	111-44-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-ethylhexyl)phthalate	117-81-7	0.18 B (0.010)	ND(0.010)	0.004 J B (0.010)u	0.003 J B (0.010)u	0.022 B (0.010)
4-Bromophenyl phenyl ether	101-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Butyl benzyl phthalate	85-68-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	106-47-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	91-58-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	132-64-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)
1,2-Dichlorobenzene	95-50-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	541-73-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	106-46-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	91-94-1	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Diethyl phthalate	84-66-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethyl phthalate	131-11-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	121-14-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	606-20-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.008 J (0.010)
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)

CR

GROUNDWATER ROUND 1 - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed		6/22/93	6/22/93	6/22/93	6/22/93	6/22/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	77-47-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	67-72-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	78-59-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.004 J (0.010)**
2-Nitroaniline	88-74-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
3-Nitroaniline	99-09-2	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroaniline	100-01-6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Nitrobenzene	98-95-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	**0.009 J (0.050)**
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	**0.005 J (0.010)**
1,2,4-Trichlorobenzene	120-82-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acid Compounds						
4-Chloro-3-methylphenol	59-50-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	95-57-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	120-83-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	105-67-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4,6 Dinitro-2-methylphenol	534-52-1	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrophenol	51-28-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Methylphenol	95-48-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Methylphenol	106-44-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitrophenol	88-75-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitrophenol	100-02-7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Pentachlorophenol	87-86-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenol	108-95-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	95-95-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	88-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.3

GROUNDWATER ROUND 1 - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006
Sample Location		MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analysed		6/23/93	6/23/93	6/23/93	6/23/93	6/23/93	6/23/93
Units		(µg/L)	(µg/L) Rinsate	(µg/L)	(µg/L)	(µg/L)	(µg/L) Duplicate
Parameter	**CAS Number**						
Aldrin	309-00-2	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
alpha-BHC	319-84-6	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
beta-BHC	319-85-7	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
delta-BHC	319-86-8	ND(0.05)uj		ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
gamma-BHC (Lindane)	58-89-9	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
Alpha-Chlordane	5103-71-9	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
Gamma-Chlordane	5103-74-2	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
4,4'-DDD	72-54-8	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
4,4'-DDE	72-55-9	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
4,4'-DDT	50-29-3	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
Dieldrin	60-57-1	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
alpha-Endosulfan	959-98-8	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
beta-Endosulfan	33213-65-9	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
Endosulfan Sulfate	1031-07-08	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
Endrin	72-20-8	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
Endrin Ketone	53494-70-5	ND(0.10)uj	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj
Heptachlor	76-44-8	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
Heptachlor Epoxide	1024-57-3	ND(0.05)uj	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj	ND(0.05)uj
Methoxychlor	72-43-5	ND(0.50)uj	ND(0.50)	ND(0.50)uj	ND(0.50)uj	ND(0.50)uj	ND(0.50)uj
Toxaphene	8001-35-2	ND(5.0)uj	ND(5.0)	ND(5.0)uj	ND(5.0)uj	ND(5.0)uj	ND(5.0)uj
Aroclor-1016	12674-11-2	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj
Aroclor-1221	11104-28-2	ND(2.0)uj	ND(2.0)	ND(2.0)uj	ND(2.0)uj	ND(2.0)uj	ND(2.0)uj
Aroclor-1232	11141-16-5	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj
Aroclor-1242	53469-21-9	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj
Aroclor-1248	12672-29-6	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj
Aroclor-1254	11097-69-1	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	**8.4(1.0)j**	**8.9(1.0)j**
Aroclor-1260	11096-82-5	ND(1.0)uj	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj	ND(1.0)uj

GROUNDWATER ROUND 1 - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		L-060993-jL-007	L-060993-jL-008	L-060993-jL-009	L-060993-jL-010	L-060993-jL-011
Sample Location		MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93
Date Sampled		6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analysed		6/23/93	6/23/93	6/23/93	6/23/93	6/23/93
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Parameter	**CAS Number**					
Aldrin	309-00-2	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
alpha-BHC	319-84-6	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
beta-BHC	319-85-7	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
delta-BHC	319-86-8	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
gamma-BHC (Lindane)	58-89-9	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
Alpha-Chlordane	5103-71-9	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
Gamma-Chlordane	5103-74-2	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
4,4'-DDD	72-54-8	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
4,4'-DDE	72-55-9	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
4,4'-DDT	50-29-3	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
Dieldrin	60-57-1	ND(0.10)uj	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
alpha-Endosulfan	959-98-8	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
beta-Endosulfan	33213-65-9	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
Endosulfan Sulfate	1031-07-08	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
Endrin	72-20-8	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
Endrin Ketone	53494-70-5	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)	ND(0.10)
Heptachlor	76-44-8	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
Heptachlor Epoxide	1024-57-3	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)	ND(0.05)
Methoxychlor	72-43-5	ND(0.50)uj	ND(0.50)uj	ND(0.50)	ND(0.50)	ND(0.50)
Toxaphene	8001-35-2	ND(5.0)uj	ND(5.0)uj	ND(5.0)	ND(5.0)	ND(5.0)
Aroclor-1016	12674-11-2	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1221	11104-28-2	ND(2.0)uj	ND(2.0)uj	ND(2.0)	ND(2.0)	ND(2.0)
Aroclor-1232	11141-16-5	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1242	53469-21-9	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1248	12672-29-6	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1254	11097-69-1	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1260	11096-82-5	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)	ND(1.0)

TABLE E.4

GROUNDWATER ROUND 1 - INORGANICS (FILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006
Sample Location	MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93
Date Sampled	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93
Units	(mg/L)	(mg/L) Rinsate	(mg/L)	(mg/L)	(mg/L)	(mg/L) Duplicate
Parameter						
Aluminum	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	**140(5.000)**	ND(5.000)	**24(5.000)**	**49(5.000)**	**360(5.000)**	**360(5.000)**
Chromium	**0.03(0.010)**	**0.03(0.010)**	**0.05(0.010)**	**0.12(0.010)**	**0.08(0.010)**	**0.04(0.010)**
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Iron	**2.8(0.100)**	ND(0.100)	ND(0.100)	**0.25(0.100)**	**10(0.100)**	**9.1(0.100)**
Lead	ND(0.003)	ND(0.003)	**0.006(0.003)**	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium	**27(5.000)**	ND(5.000)	ND(5.000)	**12(5.000)**	**130(5.000)**	**130(5.000)**
Manganese	**0.19(0.015)**	ND(0.015)	ND(0.015)	**0.020(0.015)**	**0.82(0.015)**	**0.81(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Potassium	**2.6(5.000)**	ND(5.000)	**45(5.000)**	**43(5.000)**	**50(5.000)**	**51(5.000)**
Selenium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	**13(5.000)**	ND(5.000)	**38(5.000)**	**24(5.000)**	**69(5.000)**	**69(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Zinc	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Total Cyanide	NA	NA	NA	NA	NA	NA

GROUNDWATER ROUND 1 - INORGANICS (FILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	L-060993-JL-007	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011
Sample Location	MW-2D-93	MW-2U-93	MW-6U-93	MW-4U-93	MW-5U-93
Date Sampled	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter					
Aluminum	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	ND(0.010)uj	ND(0.010)uj	ND(0.010)	ND(0.010)	ND(0.010)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	**110(5.000)**	**130(5.000)**	**56(5.000)**	**120(5.000)**	**140(5.000)**
Chromium	**0.03(0.010)**	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Iron	**0.14(0.100)**	**6.5(0.100)**	ND(0.100)	**0.28(0.100)**	**1.1(0.100)**
Lead	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium	**29(5.000)**	**27(5.000)**	**18(5.000)**	**24(5.000)**	**41(5.000)**
Manganese	**0.036(0.015)**	**0.68(0.015)**	**0.102(0.015)**	**0.80(0.015)**	**0.22(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Potassium	**24(5.000)**	**9.7(5.000)**	**5.0(5.000)**	**7.8(5.000)**	**21(5.000)**
Selenium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	**40(5.000)**	**36(5.000)**	**32(5.000)**	**25(5.000)**	**68(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Zinc	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Total Cyanide	NA	NA	NA	NA	NA

TABLE E.5

GROUNDWATER ROUND 1 - INORGANICS (UNFILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	L-060993-JL-001	L-060993-JL-002	L-060993-JL-003	L-060993-JL-004	L-060993-JL-005	L-060993-JL-006	L-060993-JL-007
Sample Location	MW-3U-93	-	MW-3D-93	MW-1D-93	MW-1U-93	MW-1U-93	MW-2D-93
Date Sampled	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed	6/15 - 6/28/1993	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93	6/15/93
Units	(mg/L)	(mg/L) Rinsate	(mg/L)	(mg/L)	(mg/L)	(mg/L) Duplicate	(mg/L)
Parameter							
Aluminum	13(0.200)	ND(0.200)	30(0.200)	1.4(0.200)	23(0.200)	21(0.200)	16(0.200)
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	ND(0.010)uj	ND(0.010)uj	0.014(0.010)uj	ND(0.010)uj	0.032(0.010)uj	0.031(0.010)uj	0.021(0.010)uj
Barium	1.8(0.200)	ND(0.200)	2.0(0.200)	1.8(0.200)	2.1(0.200)	2.1(0.200)	0.37(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	230(5.000)	ND(5.000)	200(5.000)	73(5.000)	770(5.000)	710(5.000)	310(5.000)
Chromium	0.07(0.010)	0.03(0.010)	0.19(0.010)	0.08(0.010)	0.09(0.010)	0.10(0.010)	0.11(0.010)
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	0.05(0.025)	ND(0.025)	0.10(0.025)	0.03(0.025)	0.23(0.025)	0.23(0.025)	0.11(0.025)
Iron	31(0.100)	ND(0.100)	48(0.100)	3.4(0.100)	73(0.100)	67(0.100)	40(0.100)
Lead	0.017(0.003)	ND(0.003)	0.044(0.003)	0.005(0.003)	0.22(0.003)	0.21(0.003)	0.033(0.003)
Magnesium	54(5.000)	ND(5.000)	37(5.000)	17(5.000)	220(5.000)	200(5.000)	55(5.000)
Manganese	0.73(0.015)	ND(0.015)	0.72(0.015)	0.077(0.015)	2.4(0.015)	2.2(0.015)	0.65(0.015)
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	0.0005(0.0002)	0.0006(0.0002)	ND(0.0002)
Nickel	0.05(0.040)	ND(0.040)	0.09(0.040)	ND(0.040)	0.09(0.040)	0.09(0.040)	0.06(0.040)
Potassium	7.7(5.000)	ND(5.000)	60(5.000)	36(5.000)	57(5.000)	58(5.000)	29(5.000)
Selenium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	22(5.000)	ND(5.000)	50(5.000)	27(5.000)	77(5.000)	77(5.000)	42(5.000)
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	0.07(0.050)	0.06(0.050)	ND(0.050)
Zinc	1.1(0.020)	ND(0.020)	1.2(0.020)	1.1(0.020)	1.3(0.020)	1.2(0.020)	0.52(0.020)
Total Cyanide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

GROUNDWATER ROUND 1 - INORGANICS (UNFILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	L-060993-JL-008	L-060993-JL-009	L-060993-JL-010	L-060993-JL-011
Sample Location	*MW-2U-93*	*MW-6U-93*	*MW-4U-93*	*MW-5U-93*
Date Sampled	6/9/93	6/9/93	6/9/93	6/9/93
Date Analyzed	6/15/93	6/15/93	6/15/93	6/15/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter				
Aluminum	**31(0.200)**	**26(0.200)**	**9.9(0.200)**	**17(0.200)**
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	**0.021(0.010)uj**	**0.013(0.010)uj**	ND(0.010)uj	**0.010(0.010)uj**
Barium	**0.92(0.200)**	ND(0.200)	ND(0.200)	**0.23(0.200)**
Beryllium	**0.007(0.005)**	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	**320(5.000)**	**210(5.000)**	**190(5.000)**	**290(5.000)**
Chromium	**0.06(0.010)**	**0.15(0.010)**	**0.04(0.010)**	**0.12(0.010)**
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	**0.13(0.025)**	**0.12(0.025)**	**0.05(0.025)**	**0.08(0.025)**
Iron	**66(0.100)**	**60(0.100)**	**22(0.100)**	**41(0.100)**
Lead	**0.062(0.003)**	**0.039(0.003)**	**0.042(0.003)**	**0.042(0.003)**
Magnesium	**77(5.000)**	**62(5.000)**	**47(5.000)**	**85(5.000)**
Manganese	**2.0(0.015)**	**1.1(0.015)**	**1.3(0.015)**	**1.2(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	**0.08(0.040)**	**0.10(0.040)**	ND(0.040)	**0.08(0.040)**
Potassium	**14(5.000)**	**10(5.000)**	**9.1(5.000)**	**25(5.000)**
Selenium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	**37(5.000)**	**31(5.000)**	**24(5.000)**	**66(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)
Vanadium	**0.10(0.050)**	**0.08(0.050)**	ND(0.050)	ND(0.050)
Zinc	**0.28(0.020)**	**0.28(0.020)**	**0.11(0.020)**	**0.17(0.020)**
Total Cyanide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.6

GROUNDWATER ROUND 2 - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93	8/24/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		Rinsate		Duplicate			
Parameter	CAS Number						
Acetone	67-64-1	0.010(0.010)u	0.11(0.010)	0.13(0.010)	0.016(0.010)u	1.7 (0.20)	0.005 J(0.010)u
Benzene	71-43-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	0.002 J(0.010)
Bromodichloromethane	75-27-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Bromoform	75-25-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Bromomethane	74-83-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
2-Butanone	78-93-3	0.003 J(0.010)u	0.008 J(0.010)u	0.005 J(0.010)u	0.004 J(0.010)u	ND(0.20)	0.004 J(0.010)u
Carbon Disulfide	75-15-0	ND(0.010)	0.001 J(0.010)	0.001 J(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Carbon tetrachloride	56-23-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Chlorobenzene	108-90-7	0.002 J(0.010)	ND(0.010)	ND(0.010)	0.044(0.010)	ND(0.20)	ND(0.010)
Chloroethane	75-00-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Chloroform	67-66-3	ND(0.010)	0.001 J(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Chloromethane	74-87-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Dibromochloromethane	124-48-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,1-Dichloroethane	75-34-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,2-Dichloroethane	107-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,1-Dichloroethene	75-35-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,2-Dichloroethene (total)	540-59-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	0.011(0.010)
1,2-Dichloropropane	78-87-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
cis-1,3-Dichloropropene	10061-01-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
trans-1,3-Dichloropropene	10061-02-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Ethylbenzene	100-41-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
2-Hexanone	591-78-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Methylene chloride	75-09-2	0.003 J (0.010)u	0.005 JB(0.010)u	0.002 J B(0.010)u	0.001 J B (0.010)u	ND(0.20)	ND(0.010)
4-Methyl-2-pentanone	108-10-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Styrene	100-42-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Tetrachloroethene	127-18-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Toluene	108-88-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,1,1-Trichloroethane	71-55-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
1,1,2-Trichloroethane	79-00-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Trichloroethene	79-01-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	0.001 J(0.010)
Vinyl acetate	108-05-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	ND(0.010)
Vinyl chloride	75-01-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	0.014(0.010)
Xylenes (total)	1330-20-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.20)	0.005 J(0.010)

TABLE E.6

GROUNDWATER ROUND 2 - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location		MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/24/93	8/24/93	8/24/93	8/24/93	8/24/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter	CAS Number					
Acetone	67-64-1	**0.63(0.050)**	**0.014(0.010)u**	**0.014(0.010)u**	**0.007 J(0.010)u**	**0.060(0.010)**
Benzene	71-43-2	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromodichloromethane	75-27-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromoform	75-25-2	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bromomethane	74-83-9	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Butanone	78-93-3	ND(0.050)	ND(0.010)	**0.003 J(0.010)u**	**0.004 J(0.010)u**	ND(0.010)
Carbon Disulfide	75-15-0	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Carbon tetrachloride	56-23-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chlorobenzene	108-90-7	ND(0.050)	ND(0.010)	**0.002 J(0.010)**	ND(0.010)	ND(0.010)
Chloroethane	75-00-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloroform	67-66-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chloromethane	74-87-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibromochloromethane	124-48-1	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1-Dichloroethane	75-34-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0 010)	ND(0.010)
1,2-Dichloroethane	107-06-2	ND(0.050)	ND(0.010)	ND(0.010)	ND(0 010)	ND(0.010)
1,1-Dichloroethene	75-35-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloroethene (total)	540-59-0	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichloropropane	78-87-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
cis-1,3-Dichloropropene	10061-01-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
trans-1,3-Dichloropropene	10061-02-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Ethylbenzene	100-41-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Hexanone	591-78-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Methylene chloride	75-09-2	ND(0.050)	ND(0.010)	ND(0.010)	**0.003 J B (0.010)u**	ND(0.010)
4-Methyl-2-pentanone	108-10-1	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Styrene	100-42-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Tetrachloroethene	127-18-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Toluene	108-88-3	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,1-Trichloroethane	71-55-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,1,2-Trichloroethane	79-00-5	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Trichloroethene	79-01-6	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl acetate	108-05-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Vinyl chloride	75-01-4	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Xylenes (total)	1330-20-7	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.7

GROUNDWATER ROUND 2- BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	GW-081793-JM-107
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	MW-3D-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/27/93	8/27/93	8/27/93	8/27/93	8/27/93	8/27/93	8/27/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
		Rinsate		Duplicate				
Base/Neutral Compounds	CAS Number							
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Acenaphthylene	208-96-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Benzoic acid	65-85-0	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
Benzyl alcohol	100-51-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Bis(2-chloroethyl)ether	111-44-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Bis(2-ethylhexyl)phthalate	117-81-7	0.003 J B (0.010)u	0.023 B (0.010)u	0.031 B (0.010)u	0.006 J B (0.010)u	0.24 B(0.020)u	0.004 J B (0.010)u	0.083 B(0.010)u
4-Bromophenyl phenyl ether	101-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Butyl benzyl phthalate	85-68-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
4-Chloroaniline	106-47-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	91-58-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Dibenzofuran	132-64-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	0.002 J(0.010)	ND(0.010)
1,2-Dichlorobenzene	95-50-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	541-73-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	106-46-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	91-94-1	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.040)	ND(0.020)	ND(0.020)
Diethyl phthalate	84-66-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Dimethyl phthalate	131-11-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	121-14-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	606-20-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)

TABLE E.7

GROUNDWATER ROUND 2- BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106	GW-081793-JM-107
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93	MW-3D-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/27/93	8/27/93	8/27/93	8/27/93	8/27/93	8/27/93	8/27/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	CAS	Rinsate		Duplicate				
Base/Neutral Compounds	Number							
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	77-47-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Hexachloroethane	67-72-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Isophorone	78-59-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2-Nitroaniline	88-74-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
3-Nitroaniline	99-09-2	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
4-Nitroaniline	100-01-6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
Nitrobenzene	98-95-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	120-82-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
Acid Compounds								
4-Chloro-3-methylphenol	59-50-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2-Chlorophenol	95-57-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	120-83-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	105-67-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
4,6 Dinitro-2-methylphenol	534-52-1	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
2,4-Dinitrophenol	51-28-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
2-Methylphenol	95-48-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
4-Methylphenol	106-44-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2-Nitrophenol	88-75-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
4-Nitrophenol	100-02-7	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
Pentachlorophenol	87-86-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
Phenol	108-95-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	95-95-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.10)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	88-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)	ND(0.010)	ND(0.010)

TABLE E.7

GROUNDWATER ROUND 2- BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location		MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/27/93	8/27/93	8/27/93	8/27/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)
Base/Neutral Compounds	CAS Number				
Acenaphthene	83-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acenaphthylene	208-96-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Anthracene	120-12-7	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)
Benzo(a)anthracene	56-55-3	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)
Benzo(b)fluoranthene	205-99-2	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)
Benzo(k)fluoranthene	207-08-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	191-24-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Benzo(a)pyrene	50-32-8	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)
Benzoic acid	65-85-0	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Benzyl alcohol	100-51-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroethyl)ether	111-44-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Bis(2 ethylhexyl)phthalate	117-81-7	0.044 B(0.010)u	0.006 J B (0.010)u	0.003 J B (0.010)u	0.004 J B (0.010)u
4-Bromophenyl phenyl ether	101-55-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Butyl benzyl phthalate	85-68-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chloroaniline	106-47-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloronaphthalene	91-58-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Chrysene	218-01-9	ND(0.010)	ND(0.010)	ND(0.010)	0.003 J (0.010)
Dibenz(a,h)anthracene	53-70-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dibenzofuran	132-64-9	ND(0.010)	ND(0.010)	ND(0.010)	0.001 J (0.010)
Di-n-butyl phthalate	84-74-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	95-50-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,3-Dichlorobenzene	541-73-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	106-46-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	91-94-1	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Diethyl phthalate	84-66-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Dimethyl phthalate	131-11-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dinitrotoluene	121-14-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	606-20-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Di-n-octyl phthalate	117-84-0	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Fluoranthene	206-44-0	ND(0.010)	ND(0.010)	ND(0.010)	0.008 J (0.010)
Fluorene	86-73-7	ND(0.010)	ND(0.010)	ND(0.010)	0.002 J (0.010)

TABLE E.7

GROUNDWATER ROUND 2- BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location		MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		8/27/93	8/27/93	8/27/93	8/27/93
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)
Base/Neutral Compounds	CAS Number				
Hexachlorobenzene	118-74-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorobutadiene	87-68-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachlorocyclopentadiene	77-47-4	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Hexachloroethane	67-72-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Isophorone	78-59-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Methylnaphthalene	91-57-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Naphthalene	91-20-3	ND(0.010)	ND(0.010)	ND(0.010)	**0.007 J (0.010)**
2-Nitroaniline	88-74-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
3-Nitroaniline	99-09-2	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
4-Nitroaniline	100-01-6	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Nitrobenzene	98-95-3	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	86-30-6	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	85-01-8	ND(0.050)	ND(0.050)	ND(0.050)	**0.011 J (0.050)**
Pyrene	129-00-0	ND(0.010)	ND(0.010)	ND(0.010)	**0.006 J (0.010)**
1,2,4-Trichlorobenzene	120-82-1	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acid Compounds					
4-Chloro-3-methylphenol	59-50-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chlorophenol	95-57-8	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	120-83-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	105-67-9	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4,6 Dinitro-2-methylphenol	534-52-1	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4-Dinitrophenol	51-28-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2-Methylphenol	95-48-7	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Methylphenol	106-44-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Nitrophenol	88-75-5	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
4-Nitrophenol	100-02-7	ND(0.050)uj	ND(0.050)	ND(0.050)	ND(0.050)
Pentachlorophenol	87-86-5	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Phenol	108-95-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	95-95-4	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
2,4,6-Trichlorophenol	88-06-2	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.8

GROUNDWATER ROUND 2 - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106
Sample Location		-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-1D-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed		6/26/93	6/27/93	6/27/93	6/27/93	6/26/93	6/26/93
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
		Rinsate		Duplicate			
Parameter	CAS Number						
Aldrin	309-00-2	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
alpha-BHC	319-84-6	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
beta-BHC	319-85-7	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
delta-BHC	319-86-8	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
gamma-BHC (Lindane)	58-89-9	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
Alpha-Chlordane	5103-71-9	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
Gamma-Chlordane	5103-74-2	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
4,4'-DDD	72-54-8	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
4,4'-DDE	72-55-9	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
4,4'-DDT	50-29-3	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
Dieldrin	60-57-1	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
alpha-Endosulfan	959-98-8	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
beta-Endosulfan	33213-65-9	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
Endosulfan Sulfate	1031-07-08	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
Endrin	72-20-8	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
Endrin Ketone	53494-70-5	ND(0.10)	ND(0.10)	ND(0.10)uj	ND(0.10)uj	ND(0.10)	ND(0.10)
Heptachlor	76-44-8	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
Heptachlor Epoxide	1024-57-3	ND(0.05)	ND(0.05)	ND(0.05)uj	ND(0.05)uj	ND(0.05)	ND(0.05)
Methoxychlor	72-43-5	ND(0.50)	ND(0.50)	ND(0.50)uj	ND(0.50)uj	ND(0.50)	ND(0.50)
Toxaphene	8001-35-2	ND(5.0)	ND(5.0)	ND(5.0)uj	ND(5.0)uj	ND(5.0)	ND(5.0)
Aroclor-1016	12674-11-2	ND(1.0)	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)
Aroclor-1221	11104-28-2	ND(2.0)	ND(2.0)	ND(2.0)uj	ND(2.0)uj	ND(2.0)	ND(2.0)
Aroclor-1232	11141-16-5	ND(1.0)	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)
Aroclor-1242	53469-21-9	ND(1.0)	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)
Aroclor-1248	12672-29-6	ND(1.0)	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)
Aroclor-1254	11097-69-1	ND(1.0)	ND(1.0)	ND(1.0)uj	12 (1.0)uj	ND(1.0)	ND(1.0)
Aroclor-1260	11096-82-5	ND(1.0)	ND(1.0)	ND(1.0)uj	ND(1.0)uj	ND(1.0)	ND(1.0)

TABLE E.8

GROUNDWATER ROUND 2 - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location		MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled		8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analysed		6/27/93	6/27/93	6/27/93	6/27/93	6/27/93
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Parameter	CAS Number					
Aldrin	309-00-2	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
alpha-BHC	319-84-6	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
beta-BHC	319-85-7	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
delta-BHC	319-86-8	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
gamma-BHC (Lindane)	58-89-9	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Alpha-Chlordane	5103-71-9	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Gamma-Chlordane	5103-74-2	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
4,4'-DDD	72-54-8	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
4,4'-DDE	72-55-9	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
4,4'-DDT	50-29-3	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Dieldrin	60-57-1	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
alpha-Endosulfan	959-98-8	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
beta-Endosulfan	33213-65-9	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Endosulfan Sulfate	1031-07-08	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Endrin	72-20-8	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Endrin Ketone	53494-70-5	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)
Heptachlor	76-44-8	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Heptachlor Epoxide	1024-57-3	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
Methoxychlor	72-43-5	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)
Toxaphene	8001-35-2	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Aroclor-1016	12674-11-2	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1221	11104-28-2	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Aroclor-1232	11141-16-5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1242	53469-21-9	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1248	12672-29-6	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1254	11097-69-1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Aroclor-1260	11096-82-5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TABLE E.9

GROUNDWATER ROUND 2 - INORGANICS (FILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106
Sample Location	-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Rinsate		Duplicate			
Parameter						
Aluminum	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	0.0053(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	ND(5.00)	**94.4(5.00)**	**92.8(5.00)**	**340(5.00)**	**94.4(5.00)**	**129(5.00)**
Chromium	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Iron	ND(0.100)	**0.595(0.100)**	**0.407(0.100)**	**18.5(0.100)**	**1.67(0.100)**	**6.30(0.100)**
Lead	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium	ND(5.000)	**19.9(5.000)**	**21.2(5.000)**	**104(5.000)**	**18.7(5.000)**	**27.6(5.000)**
Manganese	ND(0.015)	**0.077(0.015)**	**0.049(0.015)**	**0.726 (0.015)**	**0.081(0.015)**	**0.580(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Potassium	ND(5.000)	**16.0(5.000)**	**8.32(5.000)**	**45.5(5.000)**	**6.20(5.000)**	**9.81(5.000)**
Selenium	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	ND(5.000)	**14.4(5.000)**	**11.3(5.000)**	**52.3(5.000)**	**9.38(5.000)**	**30.5(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Zinc	**0.038(0.020)**	ND(0.020)	**0.023(0.020)**	**0.021(0.020)**	ND(0.020)	ND(0.020)
Total Cyanide	NA	NA	NA	NA	NA	NA

TABLE E.9

GROUNDWATER ROUND 2 - INORGANICS (FILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location	MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93	8/28-9/2/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter					
Aluminum	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Antimony	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)	ND(0.060)
Arsenic	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Barium	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	**56.7(5.00)**	**156(5.000)**	**68.4(5.00)**	**57.1(5.00)**	**146(5.000)**
Chromium	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Iron	**0.279(0.100)**	**3.87(0.100)**	**0.434(0.100)**	**0.934(0.100)**	**2.48(0.100)**
Lead	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)
Magnesium	**14.3(5.000)**	**27.9(5.000)**	**14.8(5.000)**	**17(5.000)**	**34.5(5.000)**
Manganese	**0.045(0.015)**	**0.136(0.015)**	**0.465(0.015)**	**0.129(0.015)**	**0.191(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Potassium	**9.48(5.000)**	ND(5.000)	**5.16(5.000)**	**5.16(5.000)**	**14.8(5.000)**
Selenium	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj	ND(0.005)uj
Silver	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Sodium	**22.0(5.000)**	**15.6(5.000)**	**23.4(5.000)**	**38.0(5.000)**	**68.3(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Zinc	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
Total Cyanide	NA	NA	NA	NA	NA

TABLE E.10

GROUNDWATER ROUND 2 - INORGANICS (UNFILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-101	GW-081793-JM-102	GW-081793-JM-103	GW-081793-JM-104	GW-081793-JM-105	GW-081793-JM-106
Sample Location	-	MW-1D-93	MW-1D-93	MW-1U-93	MW-2D-93	MW-2U-93
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Rinsate		Duplicate			
Parameter						
Aluminum	ND(0.200)	**15.4(0.200)j**	**35.3(0.200)j**	**7.80(0.200)j**	**11.8(0.200)j**	**23.5(0.200)j**
Antimony	ND(0.060)	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj
Arsenic	ND(0.010)	**0.027(0.010)**	**0.067(0.050)**	**0.017(0.010)**	ND(0.010)	**0.029(0.010)**
Barium	ND(0.200)	**0.281(0.200)**	**0.458(0.200)**	**0.225(0.200)**	**0.453(0.200)**	**0.598(0.200)**
Beryllium	ND(0.005)	ND(0.005)	**0.0050(0.005)**	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	ND(5.000)	**395(5.000)**	**667(50.00)**	**550(50.00)**	**241(5.000)**	**255(5.00)**
Chromium	ND(0.010)	**0.046(0.010)**	**0.122(0.010)**	**0.029(0.010)**	**0.055(0.010)**	**0.041(0.010)**
Cobalt	ND(0.050)	ND(0.050)	**0.068(0.050)**	ND(0.050)	ND(0.050)	ND(0.050)
Copper	ND(0.025)	**0.104(0.025)**	**0.195(0.025)**	**0.106(0.025)**	**0.090(0.025)**	**0.087(0.025)**
Iron	ND(0.100)	**55.4(0.100)**	**113(0.100)**	**45.8(0.100)**	**29.2(0.100)**	**51.5(0.100)**
Lead	ND(0.003)	**0.035(0.015)**	**0.069(0.015)**	**0.105(0.015)**	**0.023(0.003)**	**0.049(0.015)**
Magnesium	ND(5.000)	**67.3(5.000)**	**104(5.000)**	**142(5.000)**	**37.7(5.000)**	**58.6(5.000)**
Manganese	ND(0.015)	**1.05(0.015)**	**2.04(0.015)**	**1.62(0.015)**	**0.450(0.015)**	**1.44(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	**0.00031(0.0002)**	ND(0.0002)	ND(0.0002)
Nickel	ND(0.040)	**0.086(0.040)**	**0.183(0.040)**	ND(0.040)	**0.042(0.040)**	**0.064(0.040)**
Potassium	ND(5.000)	**7.53(5.000)**	**17.4(5.000)**	**50.6(5.000)**	**10.3(5.000)**	**13.7(5.000)**
Selenium	ND(0.005)r	ND(0.005)r	ND(0.025)r	ND(0.025)r	ND(0.025)r	ND(0.005)r
Silver	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Sodium	ND(5.000)	**10.4(5.000)**	**13.5(5.000)**	**56.7(5.000)**	**10.8(5.000)**	**33.7(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	**0.085(0.050)**	ND(0.050)	ND(0.050)	**0.060(0.050)**
Zinc	ND(0.020)	**0.197(0.020)**	**0.423(0.020)**	**0.172(0.020)**	**0.372(0.020)**	**0.179(0.020)**
Total Cyanide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

TABLE E.10

GROUNDWATER ROUND 2 - INORGANICS (UNFILTERED)
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	GW-081793-JM-107	GW-081793-JM-108	GW-081793-JM-109	GW-081793-JM-110	GW-081793-JM-111
Sample Location	MW-3D-93	MW-3U-93	MW-4U-93	MW-6U-93	MW-5U-93
Date Sampled	8/17/93	8/17/93	8/17/93	8/17/93	8/17/93
Date Analyzed	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93	8/25-9/2/93
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Parameter					
Aluminum	**5.64(0.200)j**	**3.14(0.200)j**	**3.44(0.200)j**	**3.71(0.200)j**	**3.37(0.200)j**
Antimony	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj	ND(0.060)uj
Arsenic	ND(0.010)	ND(0.010)	ND(0.010)	**0.011(0.010)**	ND(0.010)
Barium	**0.213(0.200)**	ND(0.200)	ND(0.200)	ND(0.200)	ND(0.200)
Beryllium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cadmium	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Calcium	**113(5.00)**	**263(5.000)**	**130(5.000)**	**92.4(5.000)**	**253(5.000)**
Chromium	**0.044(0.010)**	**0.012(0.010)**	**0.012(0.010)**	**0.011(0.010)**	**0.016(0.010)**
Cobalt	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Copper	**0.070(0.025)**	**0.030(0.025)**	**0.025(0.025)**	**0.031(0.025)**	**0.035(0.025)**
Iron	**20.0(0.100)**	**15.4(0.100)**	**9.04(0.100)**	**10.2(0.100)**	**13.6(0.100)**
Lead	**0.016(0.003)**	**0.010(0.003)**	**0.018(0.003)**	**0.012(0.003)**	**0.020(0.003)**
Magnesium	**20.5(5.000)**	**60.0(5.000)**	**30.4(5.000)**	**27(5.000)**	**64.4(5.000)**
Manganese	**0.281(0.015)**	**0.526(0.015)**	**0.803(0.015)**	**0.313(0.015)**	**0.635(0.015)**
Mercury	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)	ND(0.0002)
Nickel	**0.045(0.040)**	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
Potassium	**22.9(5.000)**	ND(5.000)	**6.19(5.000)**	**6.18(5.000)**	**16.3(5.000)**
Selenium	ND(0.005)r	ND(0.025)r	ND(0.005)r	ND(0.005)r	ND(0.005)r
Silver	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Sodium	**26.6(5.000)**	**19.1(5.000)**	**25.3(5.000)**	**34.4(5.000)**	**72.1(5.000)**
Thallium	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj	ND(0.010)uj
Vanadium	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)
Zinc	**0.127(0.020)**	**0.048(0.020)**	**0.040(0.020)**	**0.059(0.020)**	**0.065(0.020)**
Total Cyanide	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)

APPENDIX F

AQUIFER HYDRAULIC TESTING

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW2U
Observation Well : MW2U - #1
Start Date/Time : 07/07/93 | 14:02:09

Static Water Level : 6.00 ft

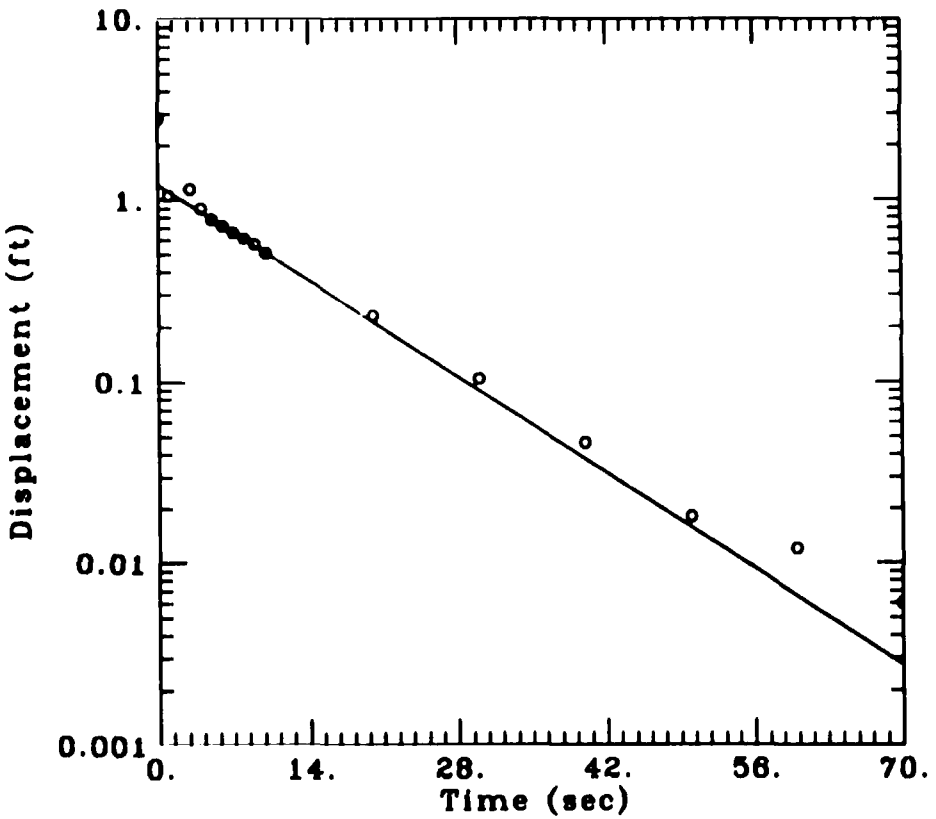
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	7.74	1.74
1	7.06	1.06
2	5.84	-0.16
3	7.15	1.15
4	6.90	0.90
5	6.78	0.78
6	6.72	0.72
7	6.66	0.66
8	6.61	0.61
9	6.57	0.57
10	6.51	0.51
20	6.23	0.23
30	6.10	0.10
40	6.05	0.05
50	6.02	0.02
60	6.01	0.01
70	6.01	0.01
80	6.00	0.00
90	6.00	0.00
100	6.00	0.00
162	6.00	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-U-93 FALLING HEAD TEST #1



DATA SET:
2u_f1.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW2U
OBS. WELL:
MW2U - #1

ESTIMATED PARAMETERS:
K = 0.0001128 ft/sec
y0 = 1.216 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 6.4 ft
H = 5.8 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW2U
Observation Well : MW2U - #2
Start Date/Time : 07/07/93 | 14:22:06

Static Water Level : 6.01 ft

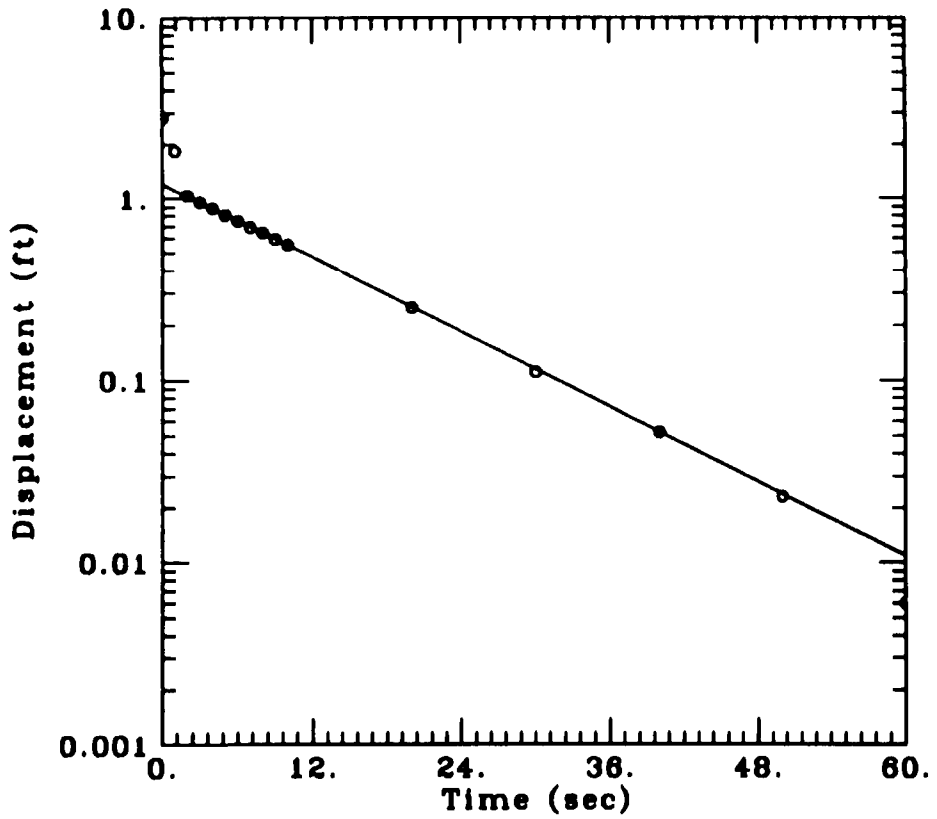
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	7.84	1.83
1	7.85	1.84
2	7.05	1.04
3	6.97	0.95
4	6.90	0.88
5	6.82	0.81
6	6.76	0.75
7	6.70	0.69
8	6.65	0.64
9	6.60	0.59
10	6.56	0.55
20	6.26	0.25
30	6.12	0.11
40	6.06	0.05
50	6.04	0.02
60	6.02	0.01
70	6.01	0.00
80	6.01	-0.01
90	6.01	-0.01
100	6.01	-0.01
171	6.01	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-U-93 FALLING HEAD TEST #2



DATA SET:
2u_f2.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW2U
OBS. WELL:
MW2U - #2

ESTIMATED PARAMETERS:
K = 0.0001017 ft/sec
y0 = 1.208 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 6.4 ft
H = 5.8 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW2U
Observation Well : MW2U - #1
Start Date/Time : 07/07/93 | 14:12:15

Static Water Level : 6.00 ft

Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	4.60	1.40
1	4.76	1.24
2	4.87	1.13
3	4.96	1.04
4	5.05	0.95
5	5.12	0.88
6	5.20	0.80
7	5.27	0.73
8	5.33	0.68
9	5.38	0.62
10	5.42	0.58
20	5.74	0.26
30	5.88	0.12
40	5.95	0.05
50	5.98	0.02
60	5.99	0.01
70	5.99	0.01
80	5.99	0.01
88	6.00	0.00

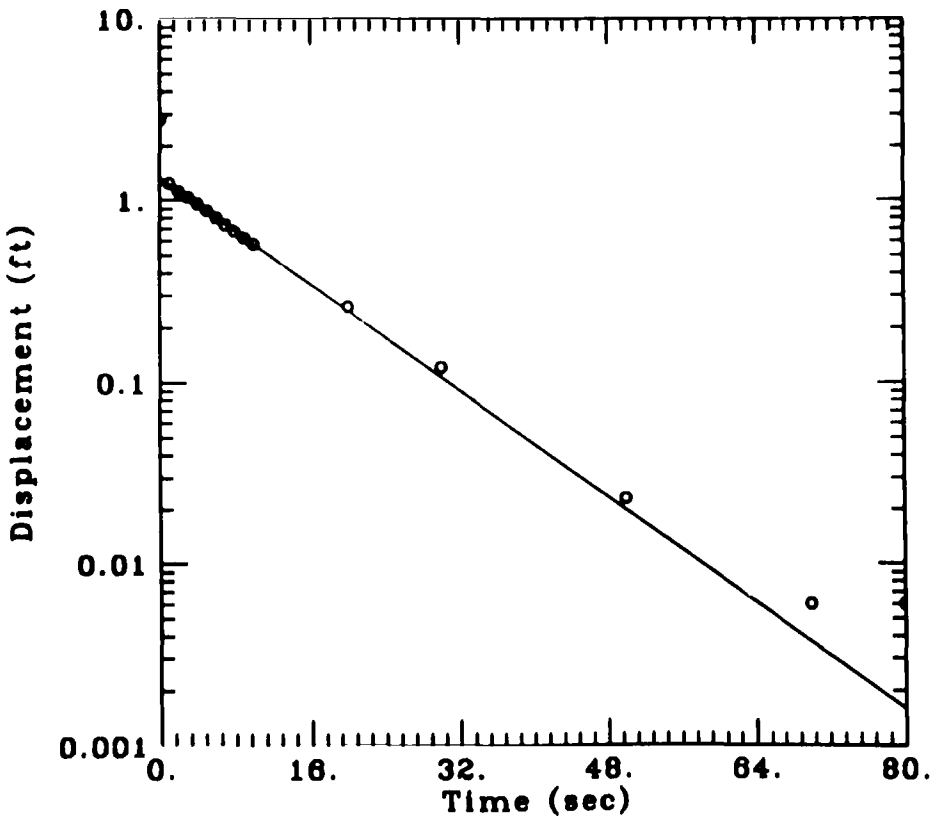
Conestoga Rovers & Associates

Project No.: 4770

Client: Dykema Gosset

Location: Textile Rd., Belleville, MI

MW2-U-93 RISING HEAD TEST #1



DATA SET:
2u_r1.dat
10/19/93

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer Rice

TEST DATE:
07/07/93

TEST WELL:
MW2U

OBS. WELL:
MW2U - #1

ESTIMATED PARAMETERS:
K = 0.000109 ft/sec
y0 = 1.336 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 6.4 ft
H = 5.8 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW2U
Observation Well : MW2U - #2
Start Date/Time : 07/07/93 | 14:27:40

Static Water Level : 6.01 ft

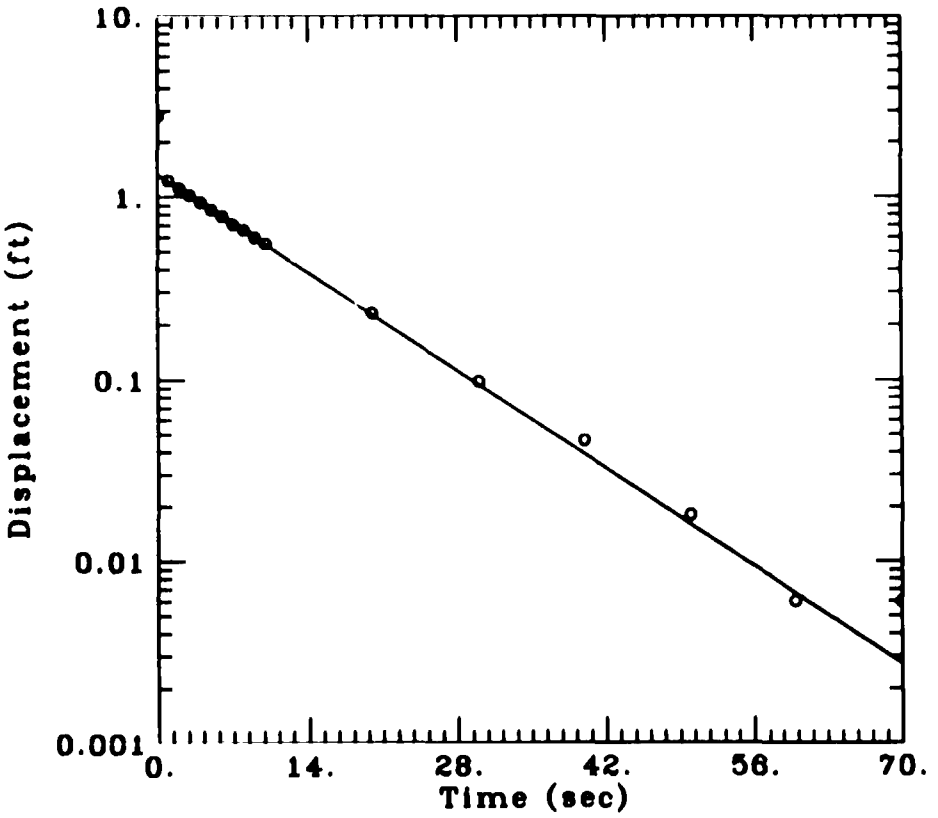
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	4.62	1.39
1	4.78	1.23
2	4.90	1.12
3	5.00	1.02
4	5.08	0.93
5	5.16	0.85
6	5.23	0.78
7	5.30	0.71
8	5.35	0.66
9	5.41	0.60
10	5.46	0.56
20	5.78	0.23
30	5.91	0.10
40	5.97	0.05
50	5.99	0.02
60	6.01	0.01
70	6.01	0.01
80	6.01	0.00
90	6.02	-0.01
97	6.01	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-U-93 RISING HEAD TEST #2



DATA SET:
2u_r2.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW2U
OBS. WELL:
MW2U #2

ESTIMATED PARAMETERS:
K = 0.0001146 ft/sec
y0 = 1.331 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 6.4 ft
H = 5.8 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW2D
Observation Well : MW2D - #1
Start Date/Time : 07/07/93 | 13:37:54

Static Water Level : 9.98 ft

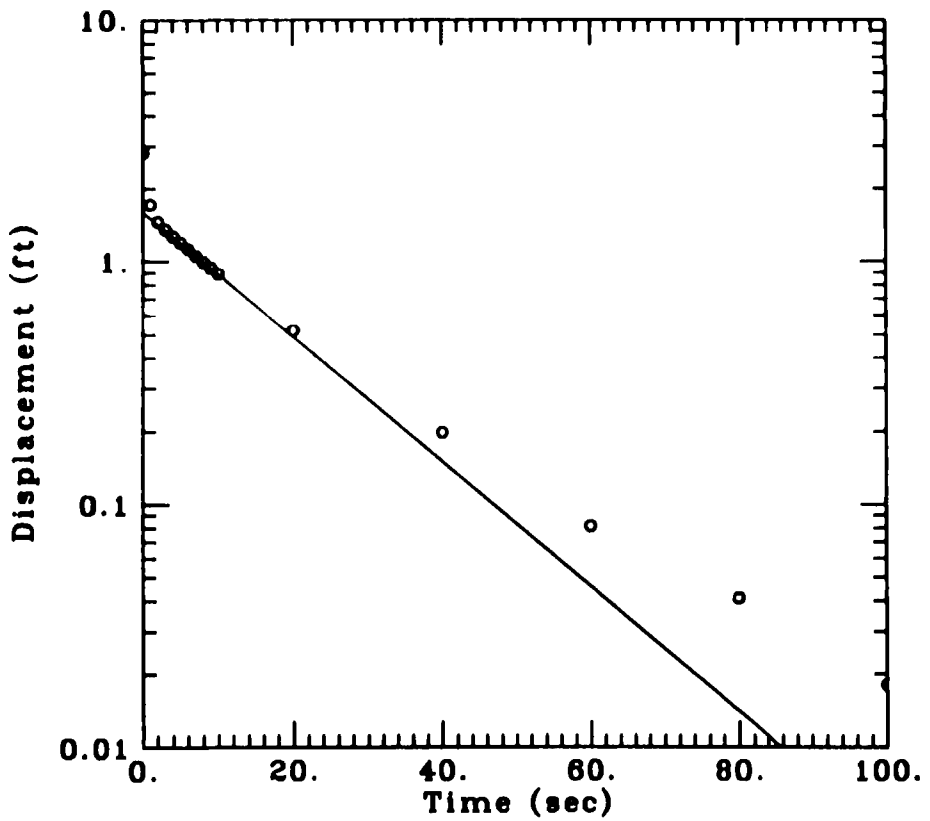
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	12.99	3.02
1	11.69	1.72
2	11.44	1.46
3	11.33	1.35
4	11.24	1.26
5	11.17	1.19
6	11.10	1.12
7	11.03	1.05
8	10.97	0.99
9	10.92	0.94
10	10.86	0.88
20	10.50	0.52
30	10.29	0.31
40	10.18	0.20
50	10.11	0.13
60	10.06	0.08
70	10.04	0.06
80	10.02	0.04
90	10.00	0.02
100	10.00	0.02
200	9.98	0.00
209	9.98	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-D-93 FALLING HEAD TEST #1



DATA SET:
2d_f1.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer-Rice
TEST DATE:
07/07/93
TEST WELL:
MW2D
OBS. WELL:
MW2D #1

ESTIMATED PARAMETERS:
K = 8.3675E-05 ft/sec
y0 = 1.593 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 12.4 ft
H = 10.6 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW2D
Observation Well : MW2D - #2
Start Date/Time : 07/07/93 | 13:50:34

Static Water Level : 9.97 ft

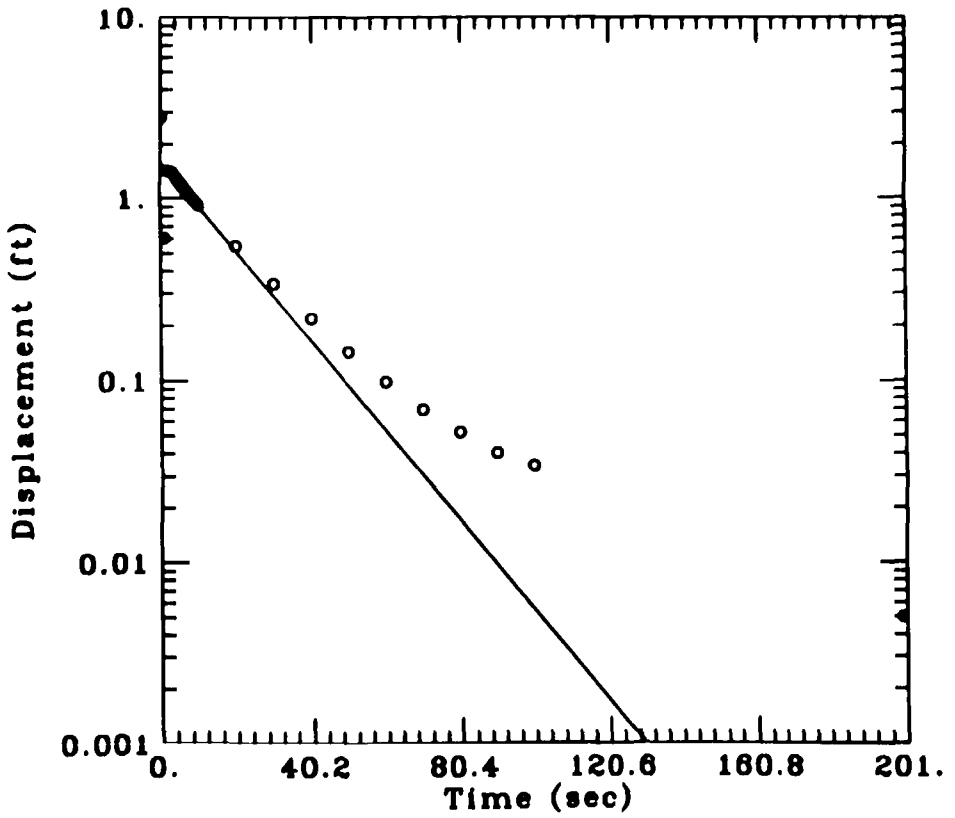
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	12.54	2.57
1	10.57	0.61
2	11.39	1.42
3	11.37	1.40
4	11.28	1.31
5	11.20	1.23
6	11.12	1.16
7	11.06	1.09
8	11.00	1.03
9	10.94	0.97
10	10.89	0.92
20	10.52	0.55
30	10.31	0.34
40	10.19	0.22
50	10.11	0.14
60	10.07	0.10
70	10.04	0.07
80	10.02	0.05
90	10.01	0.04
100	10.00	0.03
200	9.97	0.01
201	9.97	0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-D-93 FALLING HEAD TEST #2



DATA SET:
2d_f2.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW2D
OBS. WELL:
MW2D #2

ESTIMATED PARAMETERS:
K = 8.0176E-05 ft/sec
y0 = 1.581 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 12.4 ft
H = 10.6 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW2D
Observation Well : MW2D - #1
Start Date/Time : 07/07/93 | 13:44:41

Static Water Level : 9.98 ft

Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	7.56	2.42
1	7.98	2.00
2	8.16	1.82
3	8.30	1.68
4	8.42	1.56
5	8.52	1.46
6	8.61	1.37
7	8.69	1.29
8	8.77	1.21
9	8.84	1.14
10	8.90	1.07
20	9.36	0.62
30	9.60	0.38
40	9.73	0.25
50	9.81	0.17
60	9.86	0.12
70	9.90	0.08
80	9.92	0.06
90	9.93	0.05
100	9.95	0.03
184	9.97	0.01

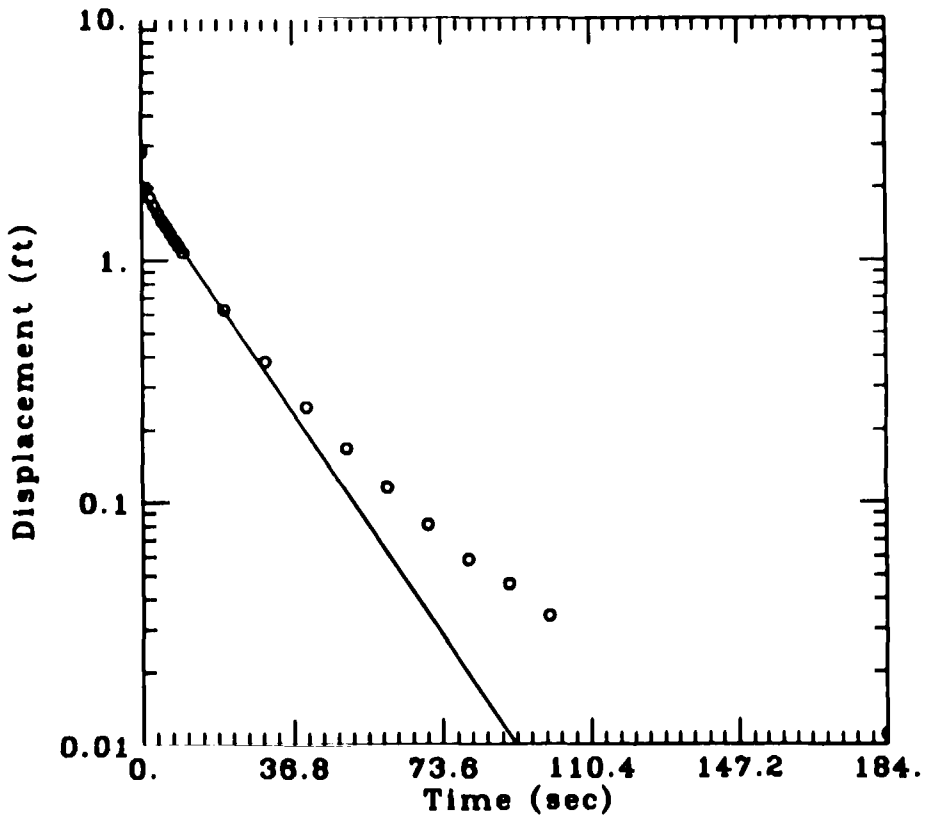
Conestoga Rovers & Associates

Project No.: **4770**

Client: **Dykema Gosset**

Location: **Textile Rd., Belleville, MI**

MW2-D-93 RISING HEAD TEST #1



DATA SET:
2d_r1.dat
10/19/93

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer Rice

TEST DATE:
07/07/93

TEST WELL:
MW2D

OBS. WELL:
MW2D #1

ESTIMATED PARAMETERS:
K = 8.126E-05 ft/sec
y0 = 1.932 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 12.4 ft
H = 10.6 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW2D
Observation Well : MW2D - #2
Start Date/Time : 07/07/93 | 14:05:08

Static Water Level : 9.96 ft

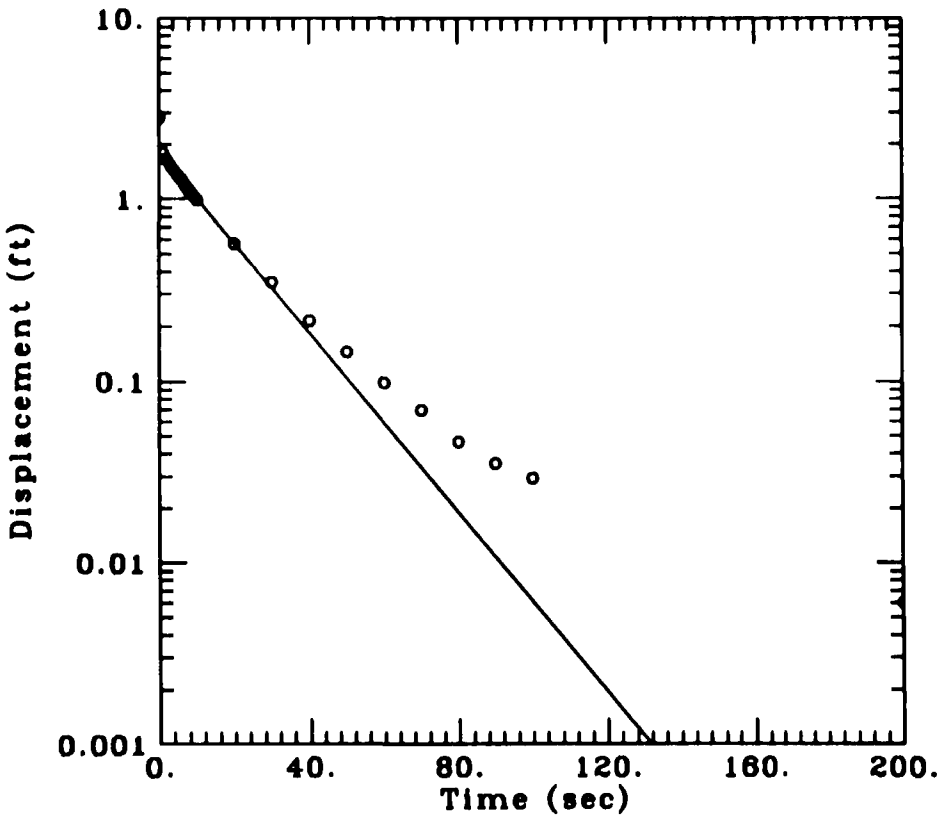
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	7.97	1.99
1	8.17	1.80
2	8.31	1.65
3	8.43	1.54
4	8.52	1.44
5	8.62	1.35
6	8.69	1.27
7	8.78	1.18
8	8.85	1.11
9	8.92	1.05
10	8.97	0.99
20	9.40	0.57
30	9.62	0.35
40	9.75	0.21
50	9.82	0.14
60	9.86	0.10
70	9.89	0.07
80	9.92	0.05
90	9.93	0.04
100	9.93	0.03
200	9.96	0.01
250	9.96	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW2-D-93 RISING HEAD TEST #2



DATA SET:
2d_r2.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW2D
OBS. WELL:
MW2D - #2

ESTIMATED PARAMETERS:
K = 8.0368E-05 ft/sec
y0 = 1.76 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 12.4 ft
H = 10.6 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW3U
Observation Well : MW3U - #1
Start Date/Time : 07/07/93 | 15:37:26

Static Water Level : 14.62 ft

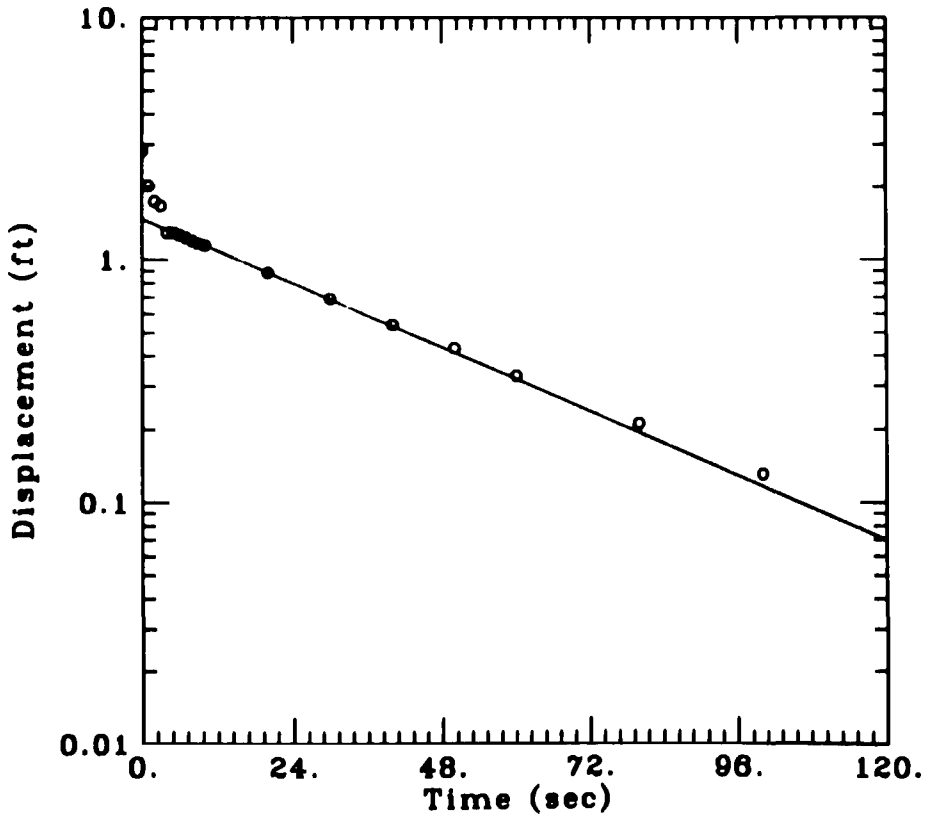
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	16.86	2.24
1	16.64	2.02
2	16.36	1.74
3	16.29	1.67
4	15.91	1.29
5	15.91	1.29
6	15.88	1.26
7	15.85	1.23
8	15.81	1.19
9	15.78	1.16
10	15.76	1.14
20	15.50	0.88
30	15.31	0.69
40	15.16	0.54
50	15.05	0.43
60	14.95	0.33
70	14.88	0.26
80	14.83	0.21
90	14.79	0.17
100	14.75	0.13
200	14.64	0.02
300	14.62	0.00
400	14.62	0.00
500	14.62	0.00
600	14.62	0.00
628	14.62	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-U-93 FALLING HEAD TEST #1



DATA SET:
MW3UF1.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3U
OBS. WELL:
MW3U #1

ESTIMATED PARAMETERS:
K = 4.155E-05 ft/sec
y0 = 1.466 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 16.8 ft
H = 18.4 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW3U
Observation Well : MW3U - #2
Start Date/Time : 07/07/93 | 16:02:54

Static Water Level : 14.62 ft

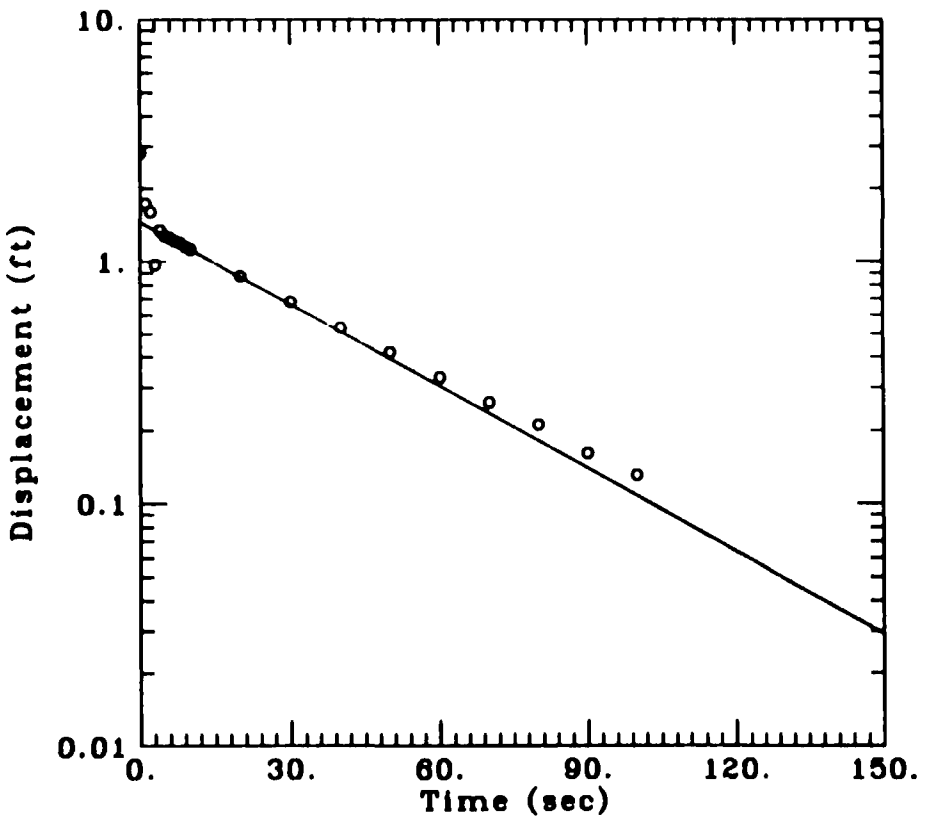
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	16.54	1.92
1	16.35	1.73
2	16.22	1.60
3	15.59	0.97
4	15.96	1.34
5	15.89	1.27
6	15.87	1.25
7	15.83	1.21
8	15.81	1.19
9	15.77	1.15
10	15.74	1.12
20	15.49	0.87
30	15.30	0.68
40	15.15	0.53
50	15.04	0.42
60	14.95	0.33
70	14.88	0.26
80	14.83	0.21
90	14.78	0.16
100	14.75	0.13
200	14.64	0.02
300	14.63	0.01
400	14.63	0.01
471	14.63	0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-U-93 FALLING HEAD TEST #2



DATA SET:
MW3U#2.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3U
OBS. WELL:
MW3U #2

ESTIMATED PARAMETERS:
K = 4.2643E-05 ft/sec
y0 = 1.453 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 16.8 ft
H = 18.4 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW3U
Observation Well : MW3U - #1
Start Date/Time : 07/07/93 | 15:47:58

Static Water Level : 14.63 ft

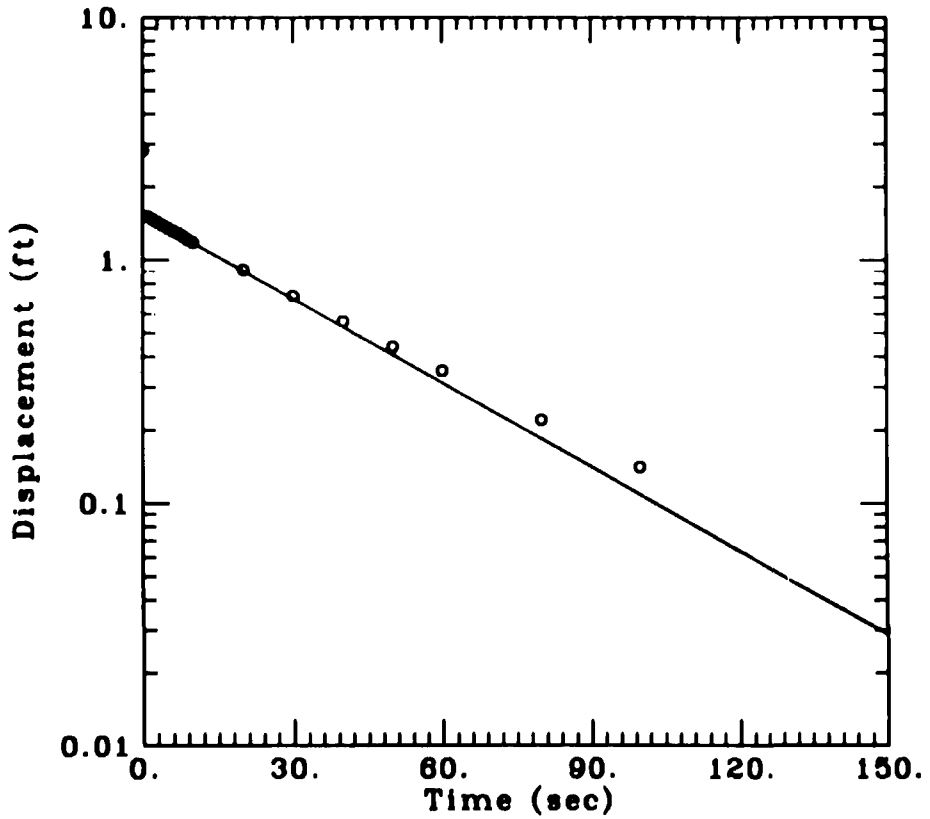
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	13.00	1.63
1	13.12	1.51
2	13.16	1.47
3	13.20	1.43
4	13.24	1.39
5	13.28	1.35
6	13.31	1.32
7	13.34	1.29
8	13.38	1.25
9	13.42	1.21
10	13.45	1.18
20	13.72	0.91
30	13.92	0.71
40	14.07	0.56
50	14.19	0.44
60	14.28	0.35
70	14.35	0.28
80	14.41	0.22
90	14.45	0.18
100	14.49	0.14
200	14.61	0.02
300	14.62	0.01
400	14.61	0.02
500	14.61	0.02
600	14.61	0.02
700	14.61	0.02
800	14.61	0.02
894	14.62	0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-U-93 RISING HEAD TEST #1



DATA SET:
MW3UR1.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3U
OBS. WELL:
MW3U - #1

ESTIMATED PARAMETERS:
K = 4.3381E-05 ft/sec
y0 = 1.532 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 16.8 ft
H = 16.4 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW3U
Observation Well : MW3U - #2
Start Date/Time : 07/07/93 | 16:10:49

Static Water Level : 14.63 ft

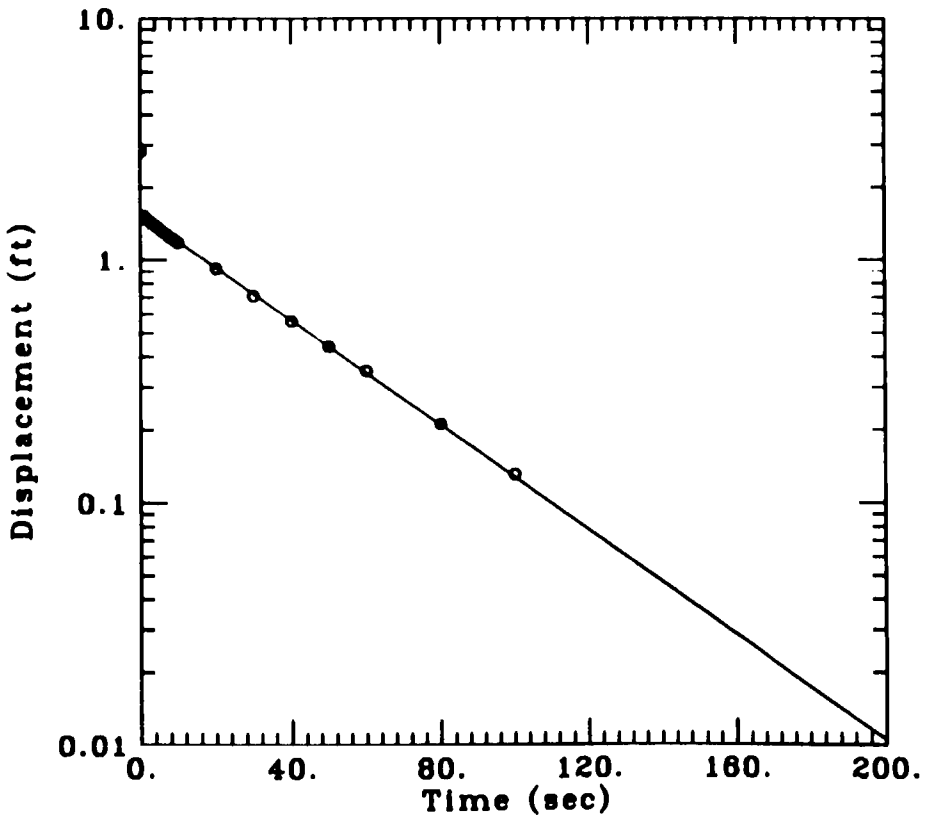
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	13.06	1.57
1	13.11	1.52
2	13.16	1.47
3	13.21	1.42
4	13.24	1.39
5	13.28	1.35
6	13.32	1.31
7	13.35	1.28
8	13.39	1.24
9	13.42	1.21
10	13.45	1.18
20	13.71	0.92
30	13.92	0.71
40	14.07	0.56
50	14.19	0.44
60	14.28	0.35
70	14.36	0.27
80	14.42	0.21
90	14.46	0.17
100	14.50	0.13
200	14.61	0.02
300	14.63	0.00
400	14.62	0.01
482	14.63	0.00

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-U-93 RISING HEAD TEST #2



DATA SET:
MW3UR2.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer-Rice
TEST DATE:
07/07/93
TEST WELL:
MW3U
OBS. WELL:
MW3U - #2

ESTIMATED PARAMETERS:
K = 4.0757E-05 ft/sec
y0 = 1.532 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 16.8 ft
H = 16.4 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW3D
Observation Well : MW3D - #1
Start Date/Time : 07/07/93 | 15:44:36

Static Water Level : 12.23 ft

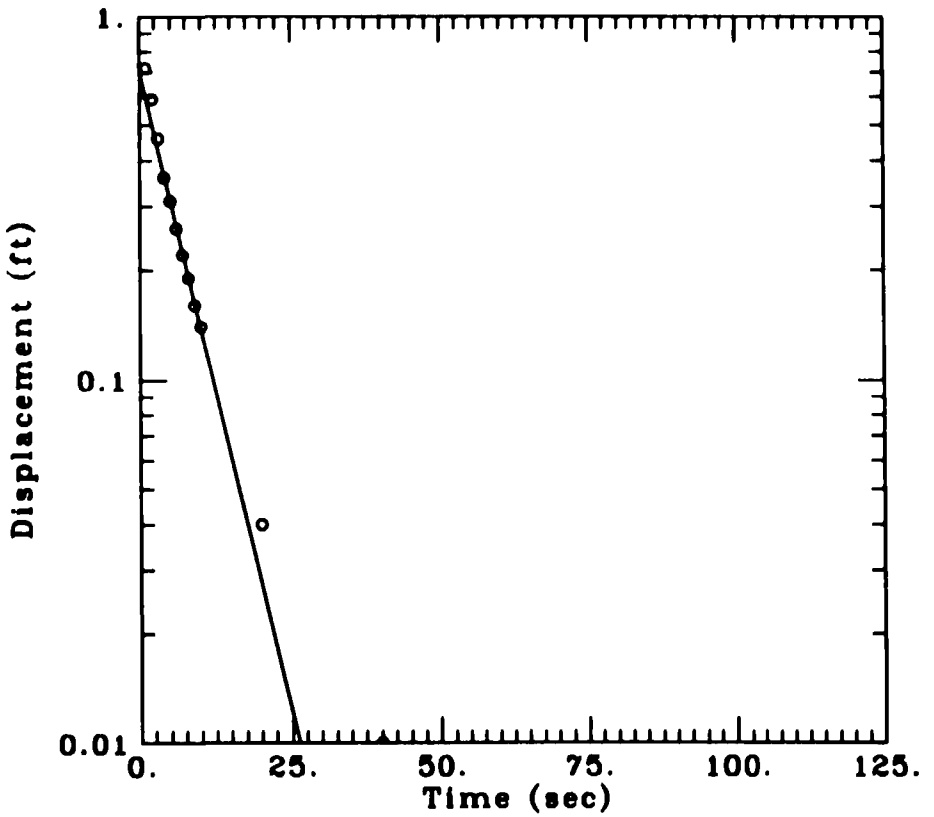
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	13.13	0.90
1	12.95	0.72
2	12.82	0.59
3	12.69	0.46
4	12.59	0.36
5	12.54	0.31
6	12.49	0.26
7	12.45	0.22
8	12.42	0.19
9	12.39	0.16
10	12.37	0.14
20	12.27	0.04
30	12.24	0.01
40	12.24	0.01
50	12.23	0.00
60	12.23	0.00
70	12.23	0.00
80	12.23	0.00
90	12.23	0.00
100	12.23	0.00
200	12.24	0.01
300	12.23	0.00
400	12.24	0.01
439	12.24	0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location. Textile Rd., Belleville, MI

MW3-D-93 FALLING HEAD TEST #1



DATA SET:
mw3df1.dat
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3D
OBS. WELL:
MW3D - #1

ESTIMATED PARAMETERS:
K = 0.0002079 ft/sec
y0 = 0.7022 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 77.2 ft
H = 13.3 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : FALLING HEAD TEST
Test Well : MW3D
Observation Well : MW3D - #2
Start Date/Time : 07/07/93 | 15:57:32

Static Water Level : 12.26 ft

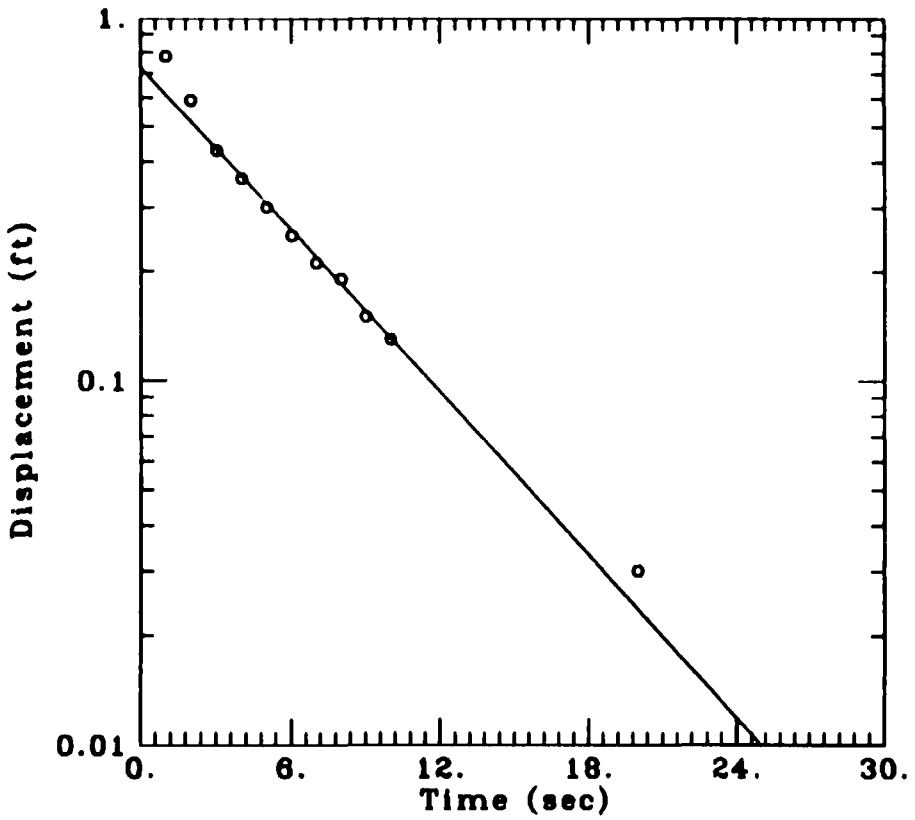
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	13.43	1.17
1	13.04	0.78
2	12.85	0.59
3	12.69	0.43
4	12.62	0.36
5	12.56	0.30
6	12.51	0.25
7	12.47	0.21
8	12.45	0.19
9	12.41	0.15
10	12.39	0.13
20	12.29	0.03
30	12.27	0.01
40	12.26	0.00
50	12.26	0.00
60	12.26	0.00
70	12.26	0.00
80	12.26	0.00
90	12.26	0.00
100	12.26	0.00
200	12.26	0.00
238	12.25	-0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-D-93 FALLING HEAD TEST #2



DATA SET:
mw3of2.dat
10/19/93

AQUIFER TYPE:
Unconfined

SOLUTION METHOD:
Bouwer Rice

TEST DATE:
07/07/93

TEST WELL:
MW3D

OBS. WELL:
MW3D - #2

ESTIMATED PARAMETERS:
K = 0.0002191 ft/sec
y0 = 0.7245 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 77.2 ft
H = 13.3 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW3D
Observation Well : MW3D - #1
Start Date/Time : 07/07/93 | 15:52:00

Static Water Level : 12.26 ft

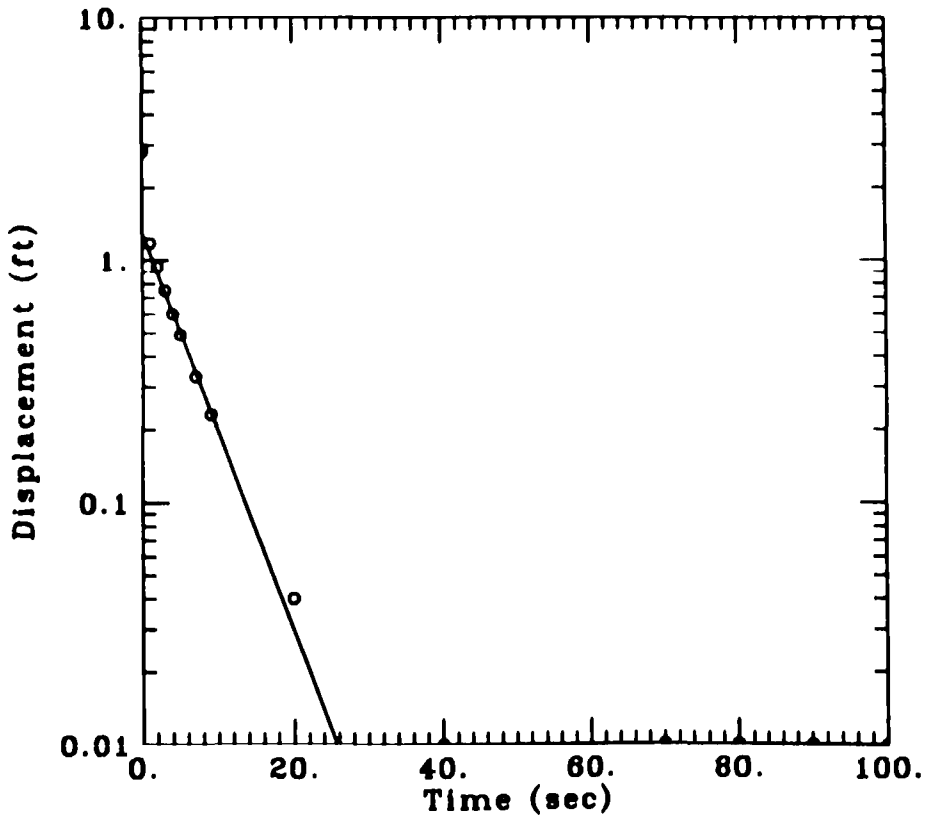
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	10.74	1.52
1	11.08	1.18
2	11.32	0.94
3	11.51	0.75
4	11.66	0.60
5	11.77	0.49
6	11.86	0.40
7	11.93	0.33
8	11.98	0.28
9	12.03	0.23
10	12.07	0.19
20	12.22	0.04
30	12.24	0.02
40	12.25	0.01
50	12.26	0.00
60	12.26	0.00
70	12.25	0.01
80	12.25	0.01
90	12.25	0.01
100	12.25	0.01
200	12.25	0.01
300	12.25	0.01
330	12.25	0.01

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-D-93 RISING HEAD TEST #1



DATA SET:
MW3DR1.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3D
OBS. WELL:
MW3D #1

ESTIMATED PARAMETERS:
K = 0.0002415 ft/sec
y0 = 1.298 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 77.2 ft
H = 13.3 ft

Client : Dykema Gosset
Site Location : Textile Rd., Belleville, MI
Project No : 4770
Test Type : RISING HEAD TEST
Test Well : MW3D
Observation Well : MW3D - #2
Start Date/Time : 07/07/93 | 16:01:33

Static Water Level : 12.26 ft

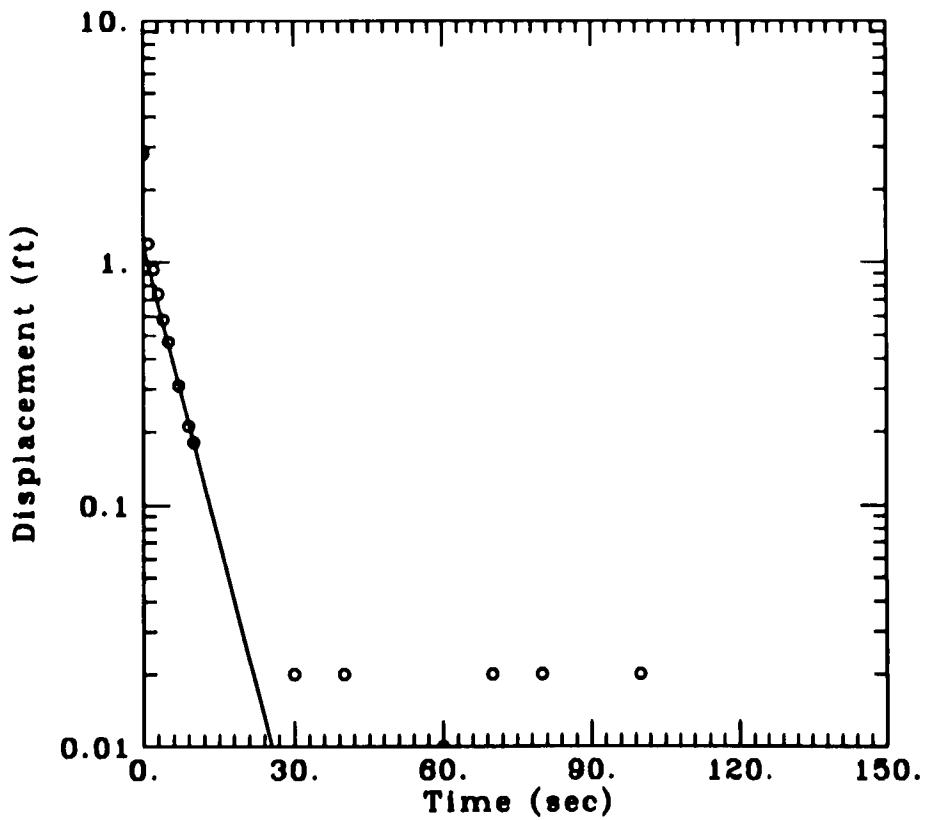
Water level measured from : TRANSDUCER ELEVATION

** TABLE OF LOG TIME DATA **

ELAPSED TIME (sec)	WATER LEVEL (ft)	DRAWDOWN (ft)
0	10.69	1.57
1	11.07	1.19
2	11.33	0.93
3	11.52	0.74
4	11.68	0.58
5	11.79	0.47
6	11.88	0.38
7	11.95	0.31
8	12.01	0.25
9	12.05	0.21
10	12.08	0.18
20	12.23	0.03
30	12.24	0.02
40	12.24	0.02
50	12.25	0.01
60	12.25	0.01
70	12.24	0.02
80	12.24	0.02
90	12.25	0.01
100	12.24	0.02
196	12.24	0.02

Conestoga Rovers & Associates	Client: Dykema Gosset
Project No.: 4770	Location: Textile Rd., Belleville, MI

MW3-D-93 RISING HEAD TEST #2



DATA SET:
MW3DR2.DAT
10/19/93

AQUIFER TYPE:
Unconfined
SOLUTION METHOD:
Bouwer Rice
TEST DATE:
07/07/93
TEST WELL:
MW3D
OBS. WELL:
MW3D #2

ESTIMATED PARAMETERS:
K = 0.000239 ft/sec
y0 = 1.163 ft

TEST DATA:
H0 = 2.812 ft
rc = 0.083 ft
rw = 0.333 ft
L = 5. ft
b = 77.2 ft
H = 13.3 ft

APPENDIX G

POND SEDIMENTS ANALYTICAL RESULTS

DATA QUALIFICATION KEY

ND	=	Analyte not detected.
( )	=	Quantitation limit.
J	=	Analyte present at level less than the quantitation limit.
B	=	Analyte present in method blank.
j	=	The associated value is an estimated quantity.
u	=	Non-detect, with the associated value becoming the quantitation limit.
uj	=	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
r	=	Unusable data.
E	=	Estimated value.

TABLE G.1

POND SEDIMENT - VOCs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-061893-4770-02	SD-061893-4770-03	SD-061893-4770-16	SD-061893-4770-17	SD-061893-4770-20	SD-061893-4770-21
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		6/28/93	6/28/93	6/28/93	6/29/93	6/28/93	6/28/93	6/28/93
Units		(mg/kg)	(mg/kg)	(mg/kg) Duplicate	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter	CAS Number							
Acetone	67-64-1	0.38(0.026)	0.074(0.013)	0.074(0.012)	1.3(0.057)	0.12(0.011)	0.26(0.013)	0.14(0.011)
Benzene	71-43-2	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Bromodichloromethane	75-27-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Bromoform	75-25-2	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Bromomethane	74-83-9	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
2-Butanone	78-93-3	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Carbon Disulfide	75-15-0	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Carbon tetrachloride	56-23-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Chlorobenzene	108-90-7	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Chloroethane	75-00-3	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Chloroform	67-66-3	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Chloromethane	74-87-3	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Dibromochloromethane	124-48-1	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,1-Dichloroethane	75-34-3	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,2-Dichloroethane	107-06-2	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,1-Dichloroethene	75-35-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,2-Dichloroethene (total)	540-59-0	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,2-Dichloropropane	78-87-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
cis-1,3-Dichloropropene	10061-01-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
trans-1,3-Dichloropropene	10061-02-6	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Ethylbenzene	100-41-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
2-Hexanone	591-78-6	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Methylene chloride	75-09-2	0.016 J (0.026)	0.003 J (0.013)	0.006 J (0.012)	0.022 J B (0.057)	0.004 J (0.011)	0.004 J (0.013)	0.003 J (0.011)
4-Methyl-2-pentanone	108-10-1	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Styrene	100-42-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,1,2,2-Tetrachloroethane	79-34-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Tetrachloroethene	127-18-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Toluene	108-88-3	ND(0.026)	0.002 J (0.013)	0.002 J (0.012)	ND(0.057)	0.002 J (0.011)	0.002 J (0.013)	ND(0.011)
1,1,1-Trichloroethane	71-55-6	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
1,1,2-Trichloroethane	79-00-5	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Trichloroethene	79-01-6	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Vinyl acetate	108-05-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Vinyl chloride	75-01-4	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)
Xylenes (total)	1330-20-7	ND(0.026)	ND(0.013)	ND(0.012)	ND(0.057)	ND(0.011)	ND(0.013)	ND(0.011)

POND SEDIMENT - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-61893-4770-02	SD-61893-4770-03	SD-62193-4770-16	SD-62193-4770-17	SD-62193-4770-20	SD-62193-4770-21
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93
units		(mg/Kg)	(mg/Kg)	(mg/Kg) Duplicate	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Base/Neutral Compounds	**CAS Number**							
Acenaphthene	83-32-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Acenaphthylene	208-96-8	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Anthracene	120-12-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzo(a)anthracene	56-55-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzo(b)fluoranthene	205-99-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzo(k)fluoranthene	207-08-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzo(g,h,i)perylene	191-24-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzo(a)pyrene	50-32-8	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzoic acid	65-85-0	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Benzyl alcohol	100-51-6	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Bis(2-chloroethoxy)methane	111-91-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Bis(2-chloroethyl)ether	111-44-4	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Bis(2-chloroisopropyl)ether	39638-32-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Bis(2-ethylhexyl)phthalate	117-81-7	0.039 J B (0.330)u	0.058 J B (0.330)u	0.042 J B (0.330)u	0.093 J B (0.330)u	0.057 J B (0.330)u	0.096 J B (0.330)u	0.046 J B (0.330)u
4-Bromophenyl phenyl ether	101-55-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Butyl benzyl phthalate	85-68-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
4-Chloroaniline	106-47-8	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2-Chloronaphthalene	91-58-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
4-Chlorophenyl phenyl ether	7005-72-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Chrysene	218-01-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Dibenz(a,h)anthracene	53-70-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Dibenzofuran	132-64-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Di-n-butyl phthalate	84-74-2	ND(0.330)	0.049 J (0.330)	ND(0.330)	0.40(0.330)	0.22 J (0.330)	0.035 J (0.330)	ND(0.330)
1,2-Dichlorobenzene	95-50-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
1,3-Dichlorobenzene	541-73-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
1,4-Dichlorobenzene	106-46-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
3,3'-Dichlorobenzidine	91-94-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Diethyl phthalate	84-66-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Dimethyl phthalate	131-11-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2,4-Dinitrotoluene	121-14-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2,6-Dinitrotoluene	606-20-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Di-n-octyl phthalate	117-84-0	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Fluoranthene	206-44-0	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Fluorene	86-73-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)

TABLE G.2

POND SEDIMENT - BNAs
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-61893-4770-02	SD-61893-4770-03	SD-62193-4770-16	SD-62193-4770-17	SD-62193-4770-20	SD-62193-4770-21
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93
units		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
				Duplicate				
Hexachlorobenzene	118-74-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Hexachlorobutadiene	87-68-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Hexachlorocyclopentadiene	77-47-4	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Hexachloroethane	67-72-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Indeno(1,2,3-cd)pyrene	193-39-5	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Isophorone	78-59-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2-Methylnaphthalene	91-57-6	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Naphthalene	91-20-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2-Nitroaniline	88-74-4	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
3-Nitroaniline	99-09-2	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
4-Nitroaniline	100-01-6	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
Nitrobenzene	98-95-3	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
N-Nitrosodiphenylamine	86-30-6	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
N-Nitroso-di-n-propylamine	621-64-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Phenanthrene	85-01-8	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Pyrene	129-00-0	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
1,2,4-Trichlorobenzene	120-82-1	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
Acid Compounds								
4-Chloro-3-methylphenol	59-50-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2-Chlorophenol	95-57-8	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2,4-Dichlorophenol	120-83-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2,4-Dimethylphenol	105-67-9	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
4,6 Dinitro-2-methylphenol	534-52-1	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
2,4-Dinitrophenol	51-28-5	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
2-Methylphenol	95-48-7	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
4-Methylphenol	106-44-5	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2-Nitrophenol	88-75-5	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
4-Nitrophenol	100-02-7	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
Pentachlorophenol	87-86-5	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
Phenol	108-95-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)
2,4,5-Trichlorophenol	95-95-4	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)	ND(0.800)
2,4,6-Trichlorophenol	88-06-2	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)	ND(0.330)

POND SEDIMENT - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-01	SD-061893-4770-02	SD-061893-4770-03	SD-061893-4770-04	SD-061893-4770-05	SD-061893-4770-06
Sample Location		SD-1-93	SD-1-93	SD-1-93	SD-2-93	SD-2-93	SD-2-93
Sample Interval (BGS)		0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	6"-24"
Date Sampled		6/18/93	6/18/93	6/18/93	6/18/93	6/18/93	6/18/93
Date Analysed		7/8/93	7/8/93	7/8/93	7/9/93	7/9/93	7/9/93
Units		(µg/kg)	(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg) Duplicate
Parameter	**CAS Number**						
Aldrin	309-00-2	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
alpha-BHC	319-84-6	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
beta-BHC	319-85-7	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
delta-BHC	319-86-8	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
Alpha-Chlordane	5103-71-9	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
Gamma-Chlordane	5103-74-2	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
4,4'-DDD	72-54-8	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
4,4'-DDE	72-55-9	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
4,4'-DDT	50-29-3	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
Dieldrin	60-57-1	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
alpha-Endosulfan	959-98-8	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
beta-Endosulfan	33213-65-9	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
Endosulfan Sulfate	1031-07-08	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
Endrin	72-20-8	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
Endrin Ketone	53494-70-5	ND(4.4)uj	ND(4.2)	ND(4.1)	NA	NA	NA
Heptachlor	76-44-8	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
Heptachlor Epoxide	1024-57-3	ND(2.3)uj	ND(2.2)	ND(2.1)	NA	NA	NA
Methoxychlor	72-43-5	ND(23)uj	ND(22)	ND(21)	NA	NA	NA
Toxaphene	8001-35-2	ND(230)uj	ND(220)	ND(210)	NA	NA	NA
Aroclor-1016	12674-11-2	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(89)uj	ND(85)	ND(84)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(44)uj	ND(42)	ND(41)	ND(33)	ND(33)	ND(33)

TABLE G.3

POND SEDIMENT - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-07	SD-061893-4770-09	SD-061893-4770-08	SD-061893-4770-10	SD-061893-4770-11	SD-061893-4770-12
Sample Location		SD-3-93	SD-3-93	SD-3-93	SD-4-93	SD-4-93	SD-5-93
Sample Interval (BGS)		0"-6"	0"-6"	6"-24"	0"-6"	6"-24"	0"-6"
Date Sampled		6/18/93	6/18/93	6/18/93	6/18/93	6/18/93	6/18/93
Date Analysed		7/9/93	7/9/93	7/9/93	7/9/93	7/9/93	7/9/93
Units		(µg/kg)	(µg/kg) Duplicate	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**						
Aldrin	309-00-2	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	NA	NA	NA	NA	NA	NA
beta-BHC	319-85-7	NA	NA	NA	NA	NA	NA
delta-BHC	319-86-8	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	NA	NA	NA	NA
4,4'-DDD	72-54-8	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	NA	NA	NA	NA	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	NA	NA	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	NA	NA	NA	NA	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)	ND(67)
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)	ND(33)

POND SEDIMENT - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		SD-061893-4770-14	SD-061893-4770-15	SD-061893-4770-16	SD-061893-4770-17	SD-061893-4770-18	SD-061893-4770-19
Sample Location		SD-6-93	SD-6-93	SD-7-93	SD-7-93	SD-8-93	SD-8-93
Sample Interval (BGS)		0"-6"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled		6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed		7/9/93	7/9/93	7/8/93	7/8/93	7/9/93	7/9/93
Units		(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
Parameter	**CAS Number**						
Aldrin	309-00-2	NA	NA	ND(2.0)	ND(2.0)	NA	NA
alpha-BHC	319-84-6	NA	NA	ND(2.0)	ND(2.0)	NA	NA
beta-BHC	319-85-7	NA	NA	ND(2.0)	ND(2.0)	NA	NA
delta-BHC	319-86-8	NA	NA	ND(2.0)	ND(2.0)	NA	NA
gamma-BHC (Lindane)	58-89-9	NA	NA	ND(2.0)	ND(2.0)	NA	NA
Alpha-Chlordane	5103-71-9	NA	NA	ND(2.0)	ND(2.0)	NA	NA
Gamma-Chlordane	5103-74-2	NA	NA	ND(2.0)	ND(2.0)	NA	NA
4,4'-DDD	72-54-8	NA	NA	ND(3.8)	ND(3.8)	NA	NA
4,4'-DDE	72-55-9	NA	NA	ND(3.8)	ND(3.8)	NA	NA
4,4'-DDT	50-29-3	NA	NA	ND(3.8)	ND(3.8)	NA	NA
Dieldrin	60-57-1	NA	NA	ND(3.8)	ND(3.8)	NA	NA
alpha-Endosulfan	959-98-8	NA	NA	ND(2.0)	ND(2.0)	NA	NA
beta-Endosulfan	33213-65-9	NA	NA	ND(3.8)	ND(3.8)	NA	NA
Endosulfan Sulfate	1031-07-08	NA	NA	ND(3.8)	ND(3.8)	NA	NA
Endrin	72-20-8	NA	NA	ND(3.8)	ND(3.8)	NA	NA
Endrin Ketone	53494-70-5	NA	NA	ND(3.8)	ND(3.8)	NA	NA
Heptachlor	76-44-8	NA	NA	ND(2.0)	ND(2.0)	NA	NA
Heptachlor Epoxide	1024-57-3	NA	NA	ND(2.0)	ND(2.0)	NA	NA
Methoxychlor	72-43-5	NA	NA	ND(20)	ND(20)	NA	NA
Toxaphene	8001-35-2	NA	NA	ND(200)	ND(200)	NA	NA
Aroclor-1016	12674-11-2	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)
Aroclor-1221	11104-28-2	ND(67)	ND(67)	ND(77)	ND(77)	ND(67)uj	ND(67)uj
Aroclor-1232	11141-16-5	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)
Aroclor-1242	53469-21-9	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)
Aroclor-1248	12672-29-6	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)uj
Aroclor-1254	11097-69-1	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)
Aroclor-1260	11096-82-5	ND(33)	ND(33)	ND(38)	ND(38)	ND(33)uj	ND(33)uj

TABLE G.3

POND SEDIMENT - PCBs/PESTICIDES
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID		**SD-061893-4770-20**	**SD-061893-4770-21**
Sample Location		**SD-9-93**	**SD-9-93**
Sample Interval (BGS)		**0"-6"**	**6"-24"**
Date Sampled		**6/21/93**	**6/21/93**
Date Analysed		**7/8/93**	**7/8/93**
Units		**(µg/kg)**	**(µg/kg)**
Parameter	**CAS Number**		
Aldrin	309-00-2	ND(2.2)uj	ND(1.9)
alpha-BHC	319-84-6	ND(2.2)uj	ND(1.9)
beta-BHC	319-85-7	ND(2.2)uj	ND(1.9)
delta-BHC	319-86-8	ND(2.2)uj	ND(1.9)
gamma-BHC (Lindane)	58-89-9	ND(2.2)uj	ND(1.9)
Alpha-Chlordane	5103-71-9	ND(2.2)uj	ND(1.9)
Gamma-Chlordane	5103-74-2	ND(2.2)uj	ND(1.9)
4,4'-DDD	72-54-8	ND(4.2)uj	ND(3.7)
4,4'-DDE	72-55-9	ND(4.2)uj	ND(3.7)
4,4'-DDT	50-29-3	ND(4.2)uj	ND(3.7)
Dieldrin	60-57-1	ND(4.2)uj	ND(3.7)
alpha-Endosulfan	959-98-8	ND(2.2)uj	ND(1.9)
beta-Endosulfan	33213-65-9	ND(4.2)uj	ND(3.7)
Endosulfan Sulfate	1031-07-08	ND(4.2)uj	ND(3.7)
Endrin	72-20-8	ND(4.2)uj	ND(3.7)
Endrin Ketone	53494-70-5	ND(4.2)uj	ND(3.7)
Heptachlor	76-44-8	ND(2.2)uj	ND(1.9)
Heptachlor Epoxide	1024-57-3	ND(2.2)uj	ND(1.9)
Methoxychlor	72-43-5	ND(22)uj	ND(19)
Toxaphene	8001-35-2	ND(220)uj	ND(190)
Aroclor-1016	12674-11-2	ND(42)uj	ND(37)
Aroclor-1221	11104-28-2	ND(86)uj	ND(74)
Aroclor-1232	11141-16-5	ND(42)uj	ND(37)
Aroclor-1242	53469-21-9	ND(42)uj	ND(37)
Aroclor-1248	12672-29-6	ND(42)uj	ND(37)
Aroclor-1254	11097-69-1	ND(42)uj	ND(37)
Aroclor-1260	11096-82-5	ND(42)uj	ND(37)

TABLE G.4

POND SEDIMENT - INORGANICS
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

Sample ID	SD-061893-4770-01	SD-061893-4770-02	SD-061893-4770-03	SD-061893-4770-16	SD-061893-4770-17	SD-061893-4770-20	SD-061893-4770-21
Sample Location	SD-1-93	SD-1-93	SD-1-93	SD-7-93	SD-7-93	SD-9-93	SD-9-93
Sample Interval (BGS)	0"-6"	6"-24"	6"-24"	0"-6"	6"-24"	0"-6"	6"-24"
Date Sampled	6/18/93	6/18/93	6/18/93	6/21/93	6/21/93	6/21/93	6/21/93
Date Analysed	7/1/93	7/1/93	7/1/93	7/1/93	7/1/93	7/1/93	7/1/93
units	(mg/kg)	(mg/kg)	(mg/kg) Duplicate	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Parameter							
Aluminum	1100(53)j	1200(51)j	770(50)j	2300(46)j	1700(46)j	2200(51)j	1200(45)j
Antimony	ND(16)	ND(15)	ND(15)j	ND(14)	ND(12)	ND(15)	ND(13)
Arsenic	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.1(2.0)	5.4(2.0)	ND(2.0)
Barium	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)	ND(40)
Beryllium	ND(1.3)	ND(1.3)	ND(1.2)	ND(1.1)	ND(1.1)	ND(1.3)	ND(1.1)
Cadmium	ND(1.3)	ND(1.3)	ND(1.2)	ND(1.1)	ND(1.1)	ND(1.3)	ND(1.1)
Calcium	36000(1000)	46000(1000)	44000(1000)	64000(1000)	65000(1000)	64000(1000)	108000(1000)
Chromium	ND(2.7)uj	3.8(2.5)j	3.7(2.5)j	7.3(2.3)j	5.4(2.3)j	7.1(2.6)j	8.8(2.2)j
Cobalt	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Copper	ND(5.0)	ND(5.0)	ND(5.0)	17(5.0)	8.1(5.0)	11(5.0)	9.6(5.0)
Iron	3200(20)j	3100(20)j	2100(20)j	6300(20)j	3700(20)j	6500(20)j	4100(20)j
Lead	4.3(0.6)	2.9(0.6)	1.9(0.6)	4.2(0.6)	4.5(0.6)	11(0.6)	4.0(0.6)
Magnesium	6900(1000)	9400(1000)	8200(1000)	10600(1000)	13000(1000)	9800(1000)	20000(1000)
Manganese	98(3.0)j	110(3.0)j	97(3.0)j	130(3.0)j	120(3.0)j	240(3.0)j	170(3.0)j
Mercury	ND(0.13)	ND(0.13)	ND(0.12)	ND(0.11)	ND(0.11)	ND(0.13)	ND(0.11)
Nickel	ND(8.0)	ND(8.0)	ND(8.0)	10(8.0)	ND(8.0)	ND(8.0)	ND(8.0)
Potassium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Selenium	ND(1.3)uj	ND(1.3)uj	ND(1.2)uj	ND(1.1)uj	ND(1.1)uj	ND(1.3)uj	ND(1.1)uj
Silver	ND(2.7)	ND(2.5)	ND(2.5)	ND(2.3)	ND(2.3)	ND(2.6)	ND(2.2)
Sodium	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)	ND(1000)
Thallium	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
Vanadium	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Zinc	17(5.3)	16(5.1)	12(5.0)	29(4.6)	17(4.6)	26(5.1)	18(4.5)
Total Cyanide	ND(0.26)r	ND(0.25)r	ND(0.25)r	ND(0.22)r	ND(0.23)r	ND(0.25)r	ND(0.22)r

APPENDIX H

CHAIN-OF-CUSTODY RECORDS

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): ENCOTEC

CHAIN OF CUSTODY RECORD

PROJECT Nº: 437-23

PROJECT NAME: Textile Rd

SAMPLER'S SIGNATURE: _____ (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
					WATER	5	
			1135				
			1200				
			121				
			1250			24	
				TOTAL NUMBER OF CONTAINERS			

ANTICIPATED CHEMICAL HAZARDS: VOC + F

RELINQUISHED BY: [1] _____ (SIGN)	DATE/TIME	RECEIVED BY: [2] _____ (SIGN)
RELINQUISHED BY: [2] _____ (SIGN)	DATE/TIME	RECEIVED BY: [3] _____ (SIGN)
RELINQUISHED BY: [3] _____ (SIGN)	DATE/TIME	RECEIVED BY: [4] _____ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: UPS Ground	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN) _____	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN) _____	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
[illegible] – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº [illegible]

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): [illegible]

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770

PROJECT NAME: TEXTILE ROAD

SAMPLER'S SIGNATURE: [illegible] (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
[illegible]	[illegible]	[illegible]			[illegible]	4	[illegible]
	[illegible]					2	[illegible]
	[illegible]					1	13
	[illegible]					1	[illegible]
	[illegible]					2	[illegible]
					"	3	[illegible]
	[illegible]	[illegible]				2	[illegible]
	[illegible]					2	
	[illegible]					2	[illegible]
						1	[illegible]
	[illegible]					1	[illegible]
	[illegible]						
	[illegible]						[illegible]
	[illegible]						[illegible]
	[illegible]					1	[illegible]
	[illegible]						[illegible]
	[illegible]						[illegible]
	[illegible]					1	[illegible]
				TOTAL NUMBER OF CONTAINERS		36	

ANTICIPATED CHEMICAL HAZARDS: [illegible]

RELINQUISHED BY: [1] (SIGN)	DATE/TIME [illegible]	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: [4] (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: [illegible]	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº [illegible]

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): [illegible]

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770

PROJECT NAME: TEXTILE ROAD

SAMPLER'S SIGNATURE: [signature] (SIGN)

SEQ. Nº.	SAMPLE Nº.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
	[illegible]				[illegible]	1	PCB
				TOTAL NUMBER OF CONTAINERS		1	

ANTICIPATED CHEMICAL HAZARDS: UNKNOWN (PCB, VOC)

RELINQUISHED BY: [1] [signature] (SIGN)	DATE/TIME 11/15/91 1650	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: [4] (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: [illegible] DELIVER	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): ENCOTEC

CHAIN OF CUSTODY RECORD

PROJECT NO: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: [signature] (SIGN)

SEQ. NO	SAMPLE NO	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	NO OF CONTAINERS	REMARKS
1	SS-1-93	5-18-93	1600	BH-1-93	SOIL	2	PCB, MS/MSD
2	SS-2-93	5-18-93	1610	BH-2-93	"	2	"
3	SS-3-93	5-18-93	1645	BH-6-93	"	2	"
4	SS-4-93	5-18-93	1700	BH-7-93	"	2	"
5	SS-5-93	5-18-93	1730	BH-14-93	"	2	"
6	SS-6-93	5-18-93	1740	BH-17-93	"	7	VOC, SVOC, PCB/PEST
							METALS, MS/MSD
7	SS-7-93	5-18-93	1805	BH-35-93	"	1	PCB
8	SS-8-93	5-18-93	1815	BH-36-93	"	1	"
9	SS-9-93	5-18-93	1830	BH-42-93	"	1	"
10	SS-10-93	5-18-93	1840	BH-44-93	"	1	"
11	DW-1-93	5-18-93	1900	Water Truck	Water	2	VOC
12	BH-11A-93	5-18-93	755	BH-11A-93	Water	5	VOC, SVOC, PCB/PEST, METALS
~~13~~	~~[illegible]~~						
13	SS-6R-93	5-18-93	1740	SS-6-93	Water	1	Metals

TOTAL NUMBER OF CONTAINERS

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: [1] [signature] (SIGN)	DATE/TIME 5-19-93 730	RECEIVED BY: ② (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: ③ (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: ④ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: DIRECT DELIVERY	SHIPPED BY: CRA	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº C

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): ENVIROTEC

CHAIN OF CUSTODY RECORD

PROJECT Nº: 477b-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: Tim Mitchell (SIGN)

SEQ. Nº	SAMPLE Nº.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	BH-31A-93	5-14-93	850	BH-31-93	SOIL	3	VOC, SVOC, PCB/PEST METALS
2	BH-31B-93	5-14-93	905	BH-31-93	"	1	PCB
3	BH-32A-93	5-14-93	815	BH-32-93	"	1	"
4	BH-32B-93	5-14-93	830	BH-32-93	"	1	"
5	BH-33A-93	5-14-93	733	BH-33-93	"	1	"
6	BH-33B-93	5-14-93	745	BH-33-93	"	1	"
7	BH-45A-93	5-15-93	915	BH-45-93	"	1	"
8	BH-45B-93	5-15-93	930	BH-45-93	"	1	"
9	BH-46D-93	5-15-93	1200	BH-46-93	"	3	VOC, SVOC, PEST, METALS
10	BH-47A-93	5-15-93	1050	BH-47-93	"	1	PCB, METALS
11	BH-47B-93	5-15-93	1100	BH-47-93	"	1	"
12	BH-48A-93	5-15-93	1337	BH-48-93	"	1	"
13	BH-48B-93	5-15-93	1345	BH-48-93	"	1	"
14	BH-49A-93	5-14-93	1250	BH-49-93	"	1	"
15	BH-56A-93	5-14-93	850	BH-49-93	"	1	"
16	BH-49B-93	5-14-93	1253	BH-49-93	"	1	"
				TOTAL NUMBER OF CONTAINERS		20	

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: [1] Tim Mitchell (SIGN)	DATE/TIME 5-17-93 1000	RECEIVED BY: (2) (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: (3) (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: (4) (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

WHITE – CRA OFFICE COPY
YELLOW – RECEIVING LABORATORY COPY
PINK – CRA LABORATORY COPY
GOLDEN ROD – SHIPPERS

Nº

CRA
CONESTOGA-ROVERS & ASSOCIATES
11677 S. Wayne Road • Suite 102
Romulus, Michigan 48174

SHIPPED TO (Laboratory name): ENCOTEC

CHAIN OF CUSTODY RECORD

PROJECT NO: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: Tom Mantell (SIGN)

SEQ. NO.	SAMPLE NO.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	NO. OF CONTAINERS	REMARKS
1	BH-2A-93	5-11-93	14:00	BH-2-93	SOIL	3	VOC, SVOC, PCB/PEST, MET
2	BH-2B-93	5-11-93	14:30	BH-2-93	"	3	"
3	BH-39A-93	5-12-93	15:00	BH-39-93	"	1	PCB
4	BH-39B-93	5-12-93	15:30	BH-39-93	"	1	"
5	BH-40A-93	5-12-93	16:00	BH-40-93	"	1	"
6	BH-40B-93	5-12-93	16:30	BH-40-93	"	1	"
7	BH-41A-93	5-12-93	9:00	BH-41-93	"	3	VOC, SVOC, PCB/PEST, MET
8	BH-41B-93	5-12-93	9:30	BH-41-93	"	1	PCB
9	BH-42A-93	5-12-93	7:55	BH-42-93	"	1	"
10	BH-42B-93	5-12-93	8:10	BH-42-93	"	1	"
11	BH-43A-93	5-11-93	16:15	BH-43-93	"	1	"
12	BH-43B-93	5-11-93	16:35	BH-43-93	"	1	"
13	BH-44A-93	5-11-93	12:45	BH-44-93	"	1	"
14	BH-44B-93	5-11-93	13:15	BH-44-93	"	1	"
15	BH-46A-93	5-12-93	10:30	BH-46-93	SOIL	3	VOC, SVOC, PCB/PEST
16	BH-46B-93	5-12-93	11:30	BH-46-93	"	3	"
				TOTAL NUMBER OF CONTAINERS		26	

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: 1 Tom Mantell (SIGN)	DATE/TIME 5-13-93 7:00	RECEIVED BY: 2 (SIGN)
RELINQUISHED BY: 2 (SIGN)	DATE/TIME	RECEIVED BY: 3 (SIGN)
RELINQUISHED BY: 3 (SIGN)	DATE/TIME	RECEIVED BY: 4 (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: DIRECT DELIVERY	SHIPPED BY: CRA	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME 5/13/93
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

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SHIPPED TO (Laboratory name): ENVIROTEC

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: _____ (SIGN)

SEQ. Nº	SAMPLE Nº.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
10	BLANK						
1	BH-46C-93	5-15-93	1107	BH-46-93	SOIL	3	VOC, BTEX, PAH'S
							PCB'S
				TOTAL NUMBER OF CONTAINERS		3	

ANTICIPATED CHEMICAL HAZARDS: PCB'S

RELINQUISHED BY: [1] _____ (SIGN)	DATE/TIME: 5-17-93 / 1030	RECEIVED BY: [2] _____ (SIGN)
RELINQUISHED BY: [2] _____ (SIGN)	DATE/TIME: /	RECEIVED BY: [3] _____ (SIGN)
RELINQUISHED BY: [3] _____ (SIGN)	DATE/TIME: /	RECEIVED BY: [4] _____ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN) _____	DATE/TIME: /
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN) _____	DATE/TIME: /

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SHIPPED TO (Laboratory name): ENVIROTEC

CHAIN OF CUSTODY RECORD

PROJECT NO: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE _____ (SIGN)

SEQ. NO	SAMPLE NO.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	NO OF CONTAINERS	REMARKS
1	BH-5D-93	5-16-93	1650	BH-5-93	SOIL	3	VOC, VOC PCB/PEST, BH-26
2	BH-17A-93	5-14-93	1620	BH-17-93	"	1	PCB
3	BH-17B-93	5-14-93	1648	BH-17-93	"	1	"
4	BH-16A 93	5-16-93	1735	BH-16-93	"	1	"
5	BH-16B-93	5-16-93	1745	BH 16-93	"	1	"
6	BH-25A-93	5-16-93	1455	BH-25-93	"	1	"
7	BH-25B-93	5-16-93	1505	BH-25-93	"	1	"
8	BH-26A-93	5-16-93	1110	BH-26-93	"	1	"
9	BH-26B 93	5-16-93	1120	BH-26-93	"	3	VOC, VOC/PCB/PEST, BH-26
10	BH-27A-93	5-16-93	925	BH-27-93	"	1	PCB
11	BH-27B-93	5-16-93	935	BH-27-93	"	1	"
12	BH-24A-93	5-14-93	505	BH 24-93	"	1	"
13	BH-24B-93	5-14-93	515	BH-24-93	"	1	"
14	BH-21A-93	5-14-93	1350	BH-21-93	"	1	"
15	BH-21B-93	5-14-93	1405	BH-21-93	"	1	"
16	BH-20A-93	5-14-93	1105	BH-20-93	"	1	"
17	BH-20B-93	5-14-93	1135	BH-20-93	"	1	"
#							
				TOTAL NUMBER OF CONTAINERS		21	

ANTICIPATED CHEMICAL HAZARDS: PCB

RELINQUISHED BY: [1] _____ (SIGN)	DATE/TIME 5-17-93 / 1030	RECEIVED BY: ② _____ (SIGN)
RELINQUISHED BY: [2] _____ (SIGN)	DATE/TIME /	RECEIVED BY: ③ _____ (SIGN)
RELINQUISHED BY: [3] _____ (SIGN)	DATE/TIME /	RECEIVED BY: ④ _____ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: DIRECT DELIVERY	SHIPPED BY: CRA	RECEIVED FOR LABORATORY BY: (SIGN) _____	DATE/TIME /
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN) _____	DATE/TIME /

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Romulus, Michigan 48174

SHIPPED TO (Laboratory name): ENCOTEC

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4TT0-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: Tom Hatfield (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	BH-21A-93	5-18-93	1555	BH-21-93	SOIL	3	VOC, SVOC, PCB/PEST, METAL
2	BH-21B-93	5-18-93	1605	BH-21-93	"	1	PCB
3	BH-22A-93	5-18-93	1950	BH-22-93	"	1	"
4	BH-22B-93	5-18-93	2000	BH-22-93	"	1	"
5	BH-23A-93	5-18-93	1900	BH-23-93	"	1	"
6	BH-23B-93	5-18-93	1910	BH-23-93	"	1	"
7	BH-57B-93	5-18-93	1910	BH-23-93	"	1	"
8	BH-24A-93	5-18-93	1620	BH-24-93	"	1	"
9	BH-24B-93	5-18-93	1825	BH-24-93	"	1	"
10	BH-50A-93	5-18-93	1715	BH-50-93	"	1	PCB / METALS
11	BH-50B-93	5-18-93	1730	BH-50-93	"	2	PCB, METALS, MS/MSD
12	BH-55B-93	5-18-93	1605	BH-21-93	"	1	PCB
13	BH-56B-93	5-18-93	2000	BH-22-93	"	1	"
~~14~~	~~BH-58B-93~~	~~5-18-93~~	~~1820~~	~~BH-24-93~~	~~"~~		
14	BH-58A-93	5-18-93	1820	BH-24-93	SOIL	1	PCB
15	BH-59A-93	5-18-93	1715	BH-50-93	"	1	PCB, METALS
16	BH-70B-93	5-18-93	1500	BH-20-93	"	1	PCB
17	BH-71A-93	5-18-93	1555	BH-21-93	SOIL	3	VOC, SVOC, PCB/PEST, METAL
18	BH-72B-93	5-18-93	1000	BH-16-93	"	3	"
				TOTAL NUMBER OF CONTAINERS		25	

ANTICIPATED CHEMICAL HAZARDS: PCBs "

RELINQUISHED BY: [1] Tom Hatfield (SIGN)	DATE/TIME 5-19-93 730	RECEIVED BY: (2) (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: (3) (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: (4) (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: DIRECT DELIVERY	SHIPPED BY: CRA	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

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SHIPPED TO (Laboratory name): ENVIROTECH

CHAIN OF CUSTODY RECORD

PROJECT NP: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: Tom Mitchell (SIGN)

SEQ. NP	SAMPLE NP.	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	NO OF CONTAINERS	REMARKS
1	BH-19A-93	5-17-93	740	BH-19-93	SOIL	1	PCB
2	BH-19B-93	5-17-93	750	BH-19-93	"	1	"
3	BH-60C-93	5-17-93	1025	BH-60-93	"	3	VOC, SVOC, PCB/PEST, META
4	BH-10A-93	5-18-93	855	BH-10-93	"	1	PCB
5	BH-10B-93	5-18-93	900	BH-10-93	"	1	"
6	BH-11A-93	5-18-93	755	BH-11-93	"	3	VOC, SVOC, PCB/PEST, MET
7	BH-11A-93	5-18-93	755	BH-11-93	"	1	MS/MSD (METALS)
8	BH-11B-93	5-18-93	805	BH-11-93	"	1	PCB
9	BH-13A-93	5-18-93	1305	BH-13-93	"	1	"
10	BH-13B-93	5-18-93	1315	BH-13-93	"	1	"
11	BH-14A-93	5-18-93	1145	BH-14-93	"	1	"
12	BH-14B-93	5-18-93	1210	BH-14-93	"	1	"
13	BH-15A-93	5-18-93	1055	BH-15-93	"	1	"
14	BH-15B-93	5-18-93	1110	BH-15-93	"	1	"
15	BH-16A-93	5-18-93	950	BH-16-93	"	1	"
16	BH-16B-93	5-18-93	1000	BH-16-93	"	3	VOC, SVOC, PCB/PEST, METAL
17	BH-20A-93	5-18-93	1440	BH-20-93	"	1	PCB
18	BH-20B-93	5-18-93	1500	BH-20-93	"	1	"
				TOTAL NUMBER OF CONTAINERS		24	

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: [1] Tom Mitchell (SIGN)	DATE/TIME: 5-19-93 | 732	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME:	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME:	RECEIVED BY: [4] (SIGN)

ADDITIONAL SIGNATURE SHEET REQUIRED ☐

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
DIRECT DELIVERY	CRA		

CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:	COOLER OPENED BY: (SIGN)	DATE/TIME

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GOLDEN ROD – SHIPPERS

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SHIPPED TO (Laboratory name): ENVIROTEC

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: Tom Mutch (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	BH-1A-93	5-17-93	1325	BH-1-93	SOIL	1	PCB
2	BH-1B-93	5-17-93	1335	BH-1-93	"	1	"
3	BH-2C-93	5-17-93	1415	BH-2-93	"	3	VOC, SVOC, PCB/PEST, METALS
4	BH-2D-93	5-17-93	1545	BH-2-93	"	3	"
5	BH-3A-93	5-17-93	1600	BH-3-93	"	1	PCB
6	BH-3B-93	5-17-93	1605	BH-3-93	"	1	"
7	BH-4A-93	5-17-93	1815	BH-4-93	"	1	"
8	BH-4B-93	5-17-93	1830	BH-4-93	"	1	"
9	BH-6A-93	5-17-93	1055	BH-6-93	"	1	"
10	BH-6B-93	5-17-93	1115	BH-6-93	"	3	VOC, SVOC PCB/P-T, METALS
11	BH-7A-93	5-17-93	1430	BH-7-93	"	1	PCB
12	BH-7B-93	5-17-93	1450	BH-7-93	"	1	"
13	BH-8A-93	5-17-93	1715	BH-8-93	"	1	"
14	BH-8B-93	5-17-93	1725	BH-8-93	"	1	"
15	BH-9A-93	5-17-93	1925	BH-9-93	"	1	"
16	BH-9B-93	5-17-93	1935	BH-9-93	"	1	"
17	BH-12A-93	5-17-93	915	BH-12-93	"	1	"
18	BH-12B-93	5-17-93	925	BH-12-93	"	1	"
				TOTAL NUMBER OF CONTAINERS		24	

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: [1] Tom Mutch (SIGN)	DATE/TIME 5-19-93 730	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: [4] (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: DIRECT DELIVERY	SHIPPED BY: CRA	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

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SHIPPED TO (Laboratory name): ENVIROTEC

CHAIN OF CUSTODY RECORD

PROJECT №: 1770-22

PROJECT NAME: TEXTILE RD. SITE

SAMPLER'S SIGNATURE: tom Hustfield (SIGN)

SEQ. №	SAMPLE №	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	№ OF CONTAINERS	REMARKS
1	BH-5A-93	5-13-93	1040	BH-5-93	SOIL	1	PCB
2	BH-5B-93	5-13-93	1050	BH-5-93	SOIL	1	"
3	BH-5R-93	5-13-93	1050	BH-5B93	WATER	1	"
4	BH-34A-93	5-13-93	1750	BH-34-93	SOIL	1	"
5	BH-34R-93	5-13-93	1750	BH-34A-93	WATER	1	"
6	BH-34B-93	5-13-93	1900	BH-34-93	SOIL	1	"
7	BH-35A-93	5-13-93	1610	BH-35-93	SOIL	1	"
8	BH-35R-93	5-13-93	1610	BH-35A-93	WATER	1	"
9	BH-35B-93	5-13-93	1620	BH-35-93	SOIL	1	"
10	BH-36A-93	5-13-93	1245	BH-36-93	SOIL	1	PCB
11	BH-36B-93	5-13-93	1255	BH-36-93	SOIL	3	VOC, SVOC PCB/PEST, MET
12	BH-36R-93	5-13-93	1255	BH-36B-93	WATER	4	"
13	BH-37A-93	5-13-93	955	BH-37-93	SOIL	1	PCB
14	BH-37B-93	5-13-93	1010	BH-37-93	SOIL	1	"
15	BH-37R-93	5-13-93	1010	BH-37B-93	WATER	1	"
16	BH-38A-93	5-13-93	805	BH-38-93	SOIL	1	"
17	BH-38R-93	5-13-93	805	BH-38A-93	WATER	1	"
18	BH-38B-93	5-13-93	815	BH-38-93	SOIL	1	"
19	BH-55B-93	5-13-93	1255	BH-36-93	SOIL	3	VOC, SVOC, PCB/PEST, MET
				TOTAL NUMBER OF CONTAINERS		26	

ANTICIPATED CHEMICAL HAZARDS: PCBs

RELINQUISHED BY: [1] tom Hustfield (SIGN)	DATE/TIME: 5-14-93 710	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME: /	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME: /	RECEIVED BY: [4] (SIGN)

ADDITIONAL SIGNATURE SHEET REQUIRED ☐

METHOD OF SHIPMENT:	SHIPPED BY:	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME: 5/14/93
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME: /

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SHIPPED TO (Laboratory name): [illegible]

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770 22

PROJECT NAME: [illegible]

SAMPLER'S SIGNATURE: [illegible] (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	[illegible]	[illegible]	[illegible]	[illegible]	SOIL	1	[illegible]
				TOTAL NUMBER OF CONTAINERS		1	

ANTICIPATED CHEMICAL HAZARDS: PCB's

RELINQUISHED BY: [1] (SIGN)	DATE/TIME [illegible]	RECEIVED BY: [2] (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME	RECEIVED BY: [3] (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME	RECEIVED BY: [4] (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: [illegible]	SHIPPED BY: [illegible]	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

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SHIPPED TO (Laboratory name): [illegible]

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770-22

PROJECT NAME: [illegible]

SAMPLER'S SIGNATURE: [illegible] (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	[illegible]	[illegible]	[illegible]	[illegible]	SO	1	[illegible]
				TOTAL NUMBER OF CONTAINERS	1		

ANTICIPATED CHEMICAL HAZARDS: [illegible]

RELINQUISHED BY: [1] (SIGN)	DATE/TIME: 5-24-93 0930	RECEIVED BY: (2) (SIGN)
RELINQUISHED BY: [2] (SIGN)	DATE/TIME:	RECEIVED BY: (3) (SIGN)
RELINQUISHED BY: [3] (SIGN)	DATE/TIME:	RECEIVED BY: (4) (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

METHOD OF SHIPMENT: [illegible]	SHIPPED BY: [illegible]	RECEIVED FOR LABORATORY BY: (SIGN)	DATE/TIME
CONDITION OF SEAL UPON RECEIPT: GENERAL CONDITION OF COOLER:		COOLER OPENED BY: (SIGN)	DATE/TIME

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Nº [illegible]

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SHIPPED TO (Laboratory name): Empire Soils

CHAIN OF CUSTODY RECORD

PROJECT Nº: 4770-22

PROJECT NAME: Textile Co. Site

SAMPLER'S SIGNATURE: _____ (SIGN)

SEQ. Nº	SAMPLE Nº	DATE	TIME	SAMPLE LOCATOIN	SAMPLE TYPE	Nº OF CONTAINERS	REMARKS
1	BH-24-93	5-1-13	1300	BH-2 13 (8-10)	Soil	1	8-10 ppm
2	BH 20 13	5-7-13	1100	BH-2-13 (70-72)	"	1	"
3	BH-24-93	5-12-13	1200	BH 5 13 (2-4)	"	1	"
4	BH-20-13	5-7-13	1100	BH-5-13 (68-70)	"	1	
5	BH-17A-13	5-15-13	1015	BH-17-13 (2-4)	"	1	"
6	BH-46A-13	5-14-13	1200	BH-46-13 (2-4)	"	1	"
7	BH-20-13	5-9-13	1330	BH-20-13 (83-85)	"	1	
8	BH-17A-13	5-10-13	0900	BH-17-13 (2-4)	"	1	
				TOTAL NUMBER OF CONTAINERS		8	

ANTICIPATED CHEMICAL HAZARDS: PCB's

RELINQUISHED BY: [1] _____ (SIGN)	DATE/TIME: 5-2-13 0900	RECEIVED BY: [2] _____ (SIGN)
RELINQUISHED BY: [2] _____ (SIGN)	DATE/TIME: _____	RECEIVED BY: [3] _____ (SIGN)
RELINQUISHED BY: [3] _____ (SIGN)	DATE/TIME: _____	RECEIVED BY: [4] _____ (SIGN)
ADDITIONAL SIGNATURE SHEET REQUIRED ☐		

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APPENDIX I

VALIDATION MEMORANDUMS

MEMO

TO: Glenn Turchan REFERENCE NO: 4770-25

FROM: Jack Lindsay DATE: September 17, 1993

RE: Data Quality Assessment and Validation for Eleven Water Samples Collected from the Textile Road Site, Washtenaw County, Michigan

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The following details a data quality assessment and validation for eleven water samples collected June 9, 1993 from the Textile Road Site, Washtenaw County, Michigan. The samples were analyzed for the parameters listed in Table 1. The analyses were performed by Environmental Control Technology Corporation (ENCOTEC) of Ann Arbor, Michigan. The quality assurance criteria were established in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 1. Due to low SVOC surrogate recoveries, the re-extraction of samples L-060993-JL-003, L-060993-JL-004 and L-060993-JL-007 was performed outside of the holding time period. The laboratory did not report the results of the reanalyses. On the basis of sample collection dates on the chain-of-custody forms and analytical reports provided by ENCOTEC, the remaining analyses were completed within the specified holding time periods.

Method Blank Samples

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The majority of method blank samples were reported to be free from detectable concentrations of target analytes, indicating no significant laboratory contamination occurred. Analytes detected in the method blank samples are listed in Table 2. The associated data should be qualified as noted in the table.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for organic analyses was monitored by surrogate recoveries. The original SVOC analysis of samples L-060993-JL-003, L-060993-JL-004 and L-060993-JL-007 violated the surrogate recovery criteria for the acid extractable compounds. The samples were reportedly re-extracted and reanalyzed; however, the results were not reported. The original data for the acid extractable compounds should be qualified as

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1 Application of relevant quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", December 1990 (Revised June 1991) and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", July 1988.

unusable (R). Table 3 list the Pest/PCB samples that should be qualified due to violation of surrogate recovery criteria. The remaining surrogate recoveries met the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results - Organic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for organic analyses. The majority of MS/MSD percent recoveries and RPDs were within the acceptance criteria, indicating adequate accuracy and precision were achieved for the methods. Table 4 lists MS/MSD results which violated the acceptance criteria. The associated data should be qualified as noted in the table.

Matrix Spike/Laboratory Duplicate (MS/DUP) Results - Inorganic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent differences of duplicate results were determined. The majority of percent recoveries and all the RPDs were within the acceptance criteria, indicating an adequate level of accuracy and precision was achieved for the methods. Table 5 lists MS results which exceeded the acceptance criteria. The associated data should be qualified as noted in the table.

Laboratory Control Sample (LCS) - Inorganic

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. All LCS data were within the control limits indicating that the analyses were performed adequately.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC collected for this sampling event consisted of one rinsate blank sample, one field duplicate sample set and one trip blank sample.

To evaluate the possibility of contamination arising from transport, the environment and/or storage, a trip blank sample was submitted to ENCOTEC for VOC analysis. The trip blank yielded a positive concentration of methylene chloride. Samples L-060993-JL-001, L-060993-JL-002, L-060993-JL-003, L-060993-JL-004, L-060993-JL-006, L-060993-JL-007, and L-060993-JL-010 contained a similar concentration of methylene chloride and the data should be qualified as non-detect (U) with the associated value becoming the quantitation limit.

As a check on cleanliness of sampling equipment, one rinsate blank sample (L-060993-JL-002) was collected an authentic sample for labeling and submission to the laboratory. Chromium was detected in the filtered and unfiltered metals samples at 0.03 mg/L. Interpretation of investigative sample data for chromium at or near this concentration should be performed with caution. Methylene chloride and bis(2-ethylhexyl)phthalate were also detected, but were previously qualified as non-detect (U) due to trip blank and method blank contamination, respectively.

Overall precision for the sampling event was monitored by the evaluation of field duplicate sample set results. The relative percent difference of the results were calculated. Field duplicate sample results are listed in Table 6. The RPDs were deemed acceptable.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

JPL/rlg

cc: Steve Day, CRA

TABLE 1

SUMMARY OF ANALYTICAL PARAMETERS
AND HOLDING TIME PERIODS
TEXTILE ROAD SITE
JUNE 1993 SAMPLING EVENT

Analysis Method[1]	*Holding Time*[2]
Volatile Organic Compounds (VOC) CLP SOW OLM01.8 water	14 Days
Semivolatile Organic Compounds (SVOC) CLP SOW OLM01.8 water	7/40 days[3]
Pesticides/Polychlorinated Biphenyls (Pest/PCB) CLP SOW OLM01.8 water	7/40 days
Metals CLP SOW ILM03.0 water	6 months (except mercury - 28 days)
Cyanide CLP SOW ILM03.0 water	14 days

1 Methods were derived from:
CLP SOW - "Contract Laboratory Program Statement of Work For Organic Analyses, Multi-Media, Multi-Concentration" and "Contract Laboratory Program Statement of Work for Inorganics Analyses, Multi-Media, Multi-Concentration", USEPA, March 1990 (or most recent revision).

2 Holding time periods are based from sample collection date to sample analysis date.

3 Seven days from sample collection to sample extraction, then forty days to sample analysis.

TABLE 2

ANALYTES DETECTED IN METHOD BLANK SAMPLES
TEXTILE ROAD SITE
JUNE 1993 SAMPLING EVENT

Analysis	*Parameter*	*Sample ID*	*Qualifier*
SVOC	bis(2-Ethylhexyl)phthalate	L-060993-JL-001	0.010U[1]
		L-060993-JL-002	0.010U
		L-060993-JL-006	0.010U
		L-060993-JL-009	0.010U
		L-060993-JL-010	0.010U

1 U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 3

VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Sample ID*	*Surrogate Compound*	*% Recovery*	*% Recovery Limits*	*Qualifier*[1]
Pest/PCB	L-060993-JL-001	Decachlorobiphenyl	38	60-150	UJ
	L-060993-JL-003	Decachlorobiphenyl	17	60-150	UJ
	L-060993-JL-004	Decachlorobiphenyl	27	60-150	UJ
	L-060993-JL-005	Decachlorobiphenyl	37	60-150	J/UJ
	L-060993-JL-006	Decachlorobiphenyl	38	60-150	J/UJ
	L-060993-JL-007	Decachlorobiphenyl	19	60-150	UJ
	L-060993-JL-008	Decachlorobiphenyl	49	60-150	UJ

1 Sample results should be qualified as:

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sam

TABLE 4

OUTLYING MS/MSD RESULTS
ORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Sample ID*	*Spiking Compound*	*MS % Recovery*	*MSD % Recovery*	*% Recovery Limits*	*RPD*	*RPD Limit*	*Qualifier*[1]
Pest/PCB	L-060993-JL-009	Dieldrin	77	63	52-126	20	19	UJ

[1] Sample results should be qualified as:

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 5

OUTLYING MATRIX SPIKE RESULTS
INORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	Spiked Sample ID	Spiking Compound	MS % Recovery	% Recovery Limits	Associated Samples	Qualified Result (mg/L)
					(unfiltered)	
Metals	L-060993-JL-001	Arsenic	45	75-125	L-060993-JL-001	0.010UJ
					L-060993-JL-002	0.010UJ
					L-0609930JL-003	0.014J
					L-0609930JL-004	0.010UJ
					L-060993-JL-005	0.032J
					L-060993-JL-006	0.031J
					L-060993-JL-007	0.021J
					L-060993-JL-008	0.021J
					L-060993-JL-009	0.013J
					L-060993-JL-010	0.010UJ
					L-060993-JL-011	0.010J
					(filtered)	
Metals	L-060993-JL-001	Arsenic	45	75-125	L-060993-JL-001	0.010UJ
					L-060993-JL-002	0.010UJ
					L-060993-JL-003	0.010UJ
					L-060993-JL-004	0.010UJ
					L-060993-JL-005	0.010UJ
					L-060993-JL-006	0.010UJ
					L-060993-JL-007	0.010UJ
					L-060993-JL-008	0.010UJ
					(unfiltered)	
Metals	L-060993-JL-001	Thallium	60	75-125	L-060993-JL-001	0.010UJ
					L-060993-JL-002	0.010UJ
					L-060993-JL-003	0.010UJ
					L-060993-JL-004	0.010UJ
					L-060993-JL-005	0.010UJ
					L-060993-JL-006	0.010UJ
					L-060993-JL-007	0.010UJ
					L-060993-JL-008	0.010UJ
					L-060993-JL-009	0.010UJ
					L-060993-JL-010	0.010UJ
					(filtered)	
Metals	L-060993-JL-001	Thallium	60	75-125	L-060993-JL-001	0.010UJ
					L-060993-JL-002	0.010UJ
					L-060993-JL-003	0.010UJ
					L-060993-JL-004	0.010UJ
					L-060993-JL-005	0.010UJ

TABLE 5

OUTLYING MATRIX SPIKE RESULTS
INORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

nalysis	*Spiked* *Sample ID*	*Spiking* *Compound*	*MS* *% Recovery*	*% Recovery* *Limits*	*Associated* *Samples*	*Qualified Result (mg/L)*
letals	L-060993-JL-001	Thallium	60	75-125	L-060993-JL-006	0.010UJ
					L-060993-JL-007	0.010UJ
					L-060993-JL-008	0.010UJ
					(filtered)	
letals	L-060993-JL-009	Thallium	56	75-125	L-060993-JL-009	0.010UJ
					L-060993-JL-010	0.010UJ
					L-060993-JL-011	0.010UJ

TABLE 6

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

	Investigative Sample L-060993-JL-005 (mg/L)	Duplicate Sample L-060993-JL-006 (mg/L)	RPD
Unfiltered Metals			
Aluminum	23	21	9
Arsenic	0.032	0.031	3
Barium	2.1	2.1	0
Calcium	770	710	8
Chromium	0.09	0.10	10
Copper	0.23	0.23	0
Iron	73	67	8
Lead	0.22	0.21	4.6
Magnesium	220	200	9.5
Manganese	2.4	2.2	8.6
Mercury	0.0005	0.0006	18
Nickel	0.09	0.09	0
Potassium	57	58	1.7
Sodium	77	77	0
Vanadium	0.07	0.06	15
Zinc	1.3	1.2	8
Filtered Metals			
Calcium	360	360	0
Chromium	0.08	0.04	66
Iron	10	9.1	9.4
Magnesium	130	130	0
Manganese	0.82	0.81	1.2
Potassium	50	51	1.9
Sodium	69	69	0
Organics			
PCB-1254	0.0084	0.0089	5
Chlorobenzene	0.032	0.032	0
Fluoranthene	0.002J[1]	0.002J	0
Phenanthrene	0.003J	0.003J	0
Pyrene	0.002J	0.002J	0
Anthracene	ND[2] (0.010)	0.001	NC[3]

1 J - Analyte present at level less than the quantitation limit.
2 ND - Not detected at the quantitation limit in parantheses.
3 NC - Non calculable.

MEMO

TO: Glenn Turchan REFERENCE NO: 4770-25

FROM: Jack Lindsay DATE: September 21, 1993

RE: Data Quality Assessment and Validation for Eleven Water Samples Collected from the Textile Road Site, Washtenaw County, Michigan

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The following details a data quality assessment and validation for the round two sampling event which consisted of the August 17, 1993 collection of eleven water samples from the Textile Road Site, Washtenaw County, Michigan. The samples were analyzed for the parameters listed in Table 1. The analyses were performed by Environmental Control Technology Corporation (ENCOTEC) of Ann Arbor, Michigan. The quality assurance criteria were established in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 1. On the basis of sample collection dates on the chain-of-custody forms and analytical reports provided by ENCOTEC, the remaining analyses were completed within the specified holding time periods.

Method Blank Samples

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The majority of method blank samples were reported to be free from detectable concentrations of target analytes, indicating no significant laboratory contamination occurred. Analytes detected in the method blank samples are listed in Table 2. The associated data should be qualified as noted in the table.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for organic analyses was monitored by surrogate recoveries. The SVOC surrogate compounds for sample GW-081793-JM-105 were reported as being diluted out. However, only a 1:2 dilution was performed on the sample and the surrogates should have been present in the diluted sample. This would indicate that the surrogate recoveries were low and the quantitation limits for parameter results should be qualified as estimated (UJ). Qualified sample data due to violation of surrogate recovery criteria are presented in Table 3. The associated sample data should be qualified as noted in the table.

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1 Application of relevant quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", December 1990 (Revised June 1991) and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", July 1988.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results - Organic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for organic analyses. The majority of MS/MSD percent recoveries and RPDs were within the acceptance criteria, indicating adequate accuracy and precision were achieved for the methods. Table 4 lists MS/MSD results which violated the acceptance criteria. The associated data should be qualified as noted in the table.

Matrix Spike/Laboratory Duplicate (MS/DUP) Results - Inorganic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent differences of duplicate results were determined. The majority of percent recoveries and RPDs were within the acceptance criteria, indicating an adequate level of accuracy and precision was achieved for the methods. Table 5 lists MS results which violated the acceptance criteria. Table 6 lists laboratory duplicate results which violated the acceptance criteria. The associated data should be qualified as noted in the respective tables.

Laboratory Control Sample (LCS) - Inorganic

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. All LCS data were within the control limits indicating that the analyses were performed adequately.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC collected for this sampling event consisted of one rinsate blank sample, one field duplicate sample set and one trip blank sample.

To evaluate the possibility of contamination arising from transport, the environment and/or storage, a trip blank sample was submitted to ENCOTEC for VOC analysis. Analytes detected in the trip blank samples are listed in Table 7. Those samples with similar concentrations of analytes should be qualified as noted in the table.

As a check on cleanliness of sampling equipment, one rinsate blank sample GW-081793-JM-101 was collected as authentic samples for labeling and submission to the laboratory. Zinc was detected in the filtered metal sample at 0.038 mg/L. Also chlorobenzene was detected at an estimated concentration of 0.002 mg/L. Interpretation of investigative sample data for zinc and chlorobenzene at or near these concentrations should be performed with caution. Acetone and 2-butanone were also detected, but were previously qualified as non-detect (U) due to trip blank contamination. Methylene chloride and bis(2-ethylhexyl)phthalate were also detected, but were previously qualified as non-detect (U) due to method blank contamination.

Overall precision for the sampling event was monitored by the evaluation of field duplicate sample set results. The relative percent difference of the results were calculated. Field duplicate sample results are listed in Table 8. The high RPDs in the unfiltered metals samples may be due to an elevated level of suspended matter in the samples.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

JPL/rlg

cc: Steve Day, CRA

TABLE 1

SUMMARY OF ANALYTICAL PARAMETERS
AND HOLDING TIME PERIODS
TEXTILE ROAD SITE
AUGUST 1993 SAMPLING EVENT

Analysis Method[1]	*Holding Time*[2]
Volatile Organic Compounds (VOC) CLP SOW OLM01.8 water	14 Days
Semivolatile Organic Compounds (SVOC) CLP SOW OLM01.8 water	7/40 days[3]
Pesticides/Polychlorinated Biphenyls (Pest/PCB) CLP SOW OLM01.8 water	7/40 days
Metals CLP SOW ILM03.0 water	6 months (except mercury - 28 days)
Cyanide CLP SOW ILM03.0 water	14 days

1 Methods were derived from:
CLP SOW - "Contract Laboratory Program Statement of Work For Organic Analyses, Multi-Media, Multi-Concentration" and "Contract Laboratory Program Statement of Work for Inorganics Analyses, Multi-Media, Multi-Concentration", USEPA, March 1990 (or most recent revision).

2 Holding time periods are based from sample collection date to sample analysis date.

3 Seven days from sample collection to sample extraction, then forty days to sample analysis.

TABLE 2

ANALYTES DETECTED IN METHOD BLANK SAMPLES
TEXTILE ROAD SITE
AUGUST 1993 SAMPLING EVENT

Analysis	*Parameter*	*Sample ID*	*Qualified Sample Result (mg/L)*[1]
VOC	methylene chloride	GW-081793-JM-101	0.010U
		GW-081793-JM-102	0.010U
		GW-081793-JM-103	0.010U
		GW-081793-JM-104	0.010U
		GW-081793-JM-110	0.010U
SVOC	bis(2-Ethylhexyl)phthalate	GW-081793-JM-101	0.010U
		GW-081793-JM-104	0.010U
		GW-081793-JM-106	0.010U
		GW-081793-JM-109	0.010U
		GW-081793-JM-110	0.010U
		GW-081793-JM-111	0.010U

1 U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 3

VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

Analysis	*Sample ID*	*Surrogate Compound*	*% Recovery*	*% Recovery Limits*	*Qualifier*[1]
Pest/PCB	GW-081793-JM-103	Decachlorobiphenyl	44	60-150	UJ
	GW-081793-JM-104	Decachlorobiphenyl	50	60-150	J/UJ
	GW-081793-JM-105	Decachlorobiphenyl	29	60-150	UJ
	GW-081793-JM-107	Decachlorobiphenyl	27	60-150	UJ

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1 Sample results should be qualified as:

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4

OUTLYING MS/MSD RESULTS
ORGANIC ANALYSES
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

Analysis	*Sample ID*	*Spiking Compound*	*MS % Recovery*	*MSD % Recovery*	*% Recovery Limits*	*RPD*	*RPD Limit*	*Qualifier*[1]
SVOC	GW-081793-JM-108	4-Nitrophenol	87	89	10-80	3.0	50	UJ

1 Sample results should be qualified as:

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 5

QUALIFIED SAMPLE DATA DUE TO VIOLATION
OF MATRIX SPIKE RECOVERY CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Results (mg/L)* [1]
					(unfiltered)	
Metals	GW-081793-JM-102	Aluminum	220	75-125	GW-081793-JM-102	15.4J
					GW-081793-JM-103	35.3J
					GW-081793-JM-104	7.80J
					GW-081793-JM-105	11.8J
					GW-081793-JM-106	23.5J
					GW-081793-JM-107	5.64J
					GW-081793-JM-108	3.14J
					GW-081793-JM-109	3.44J
					GW-081793-JM-110	3.71J
					GW-081793-JM-111	3.37J
					(unfiltered)	
Metals	GW-081793-JM-102	Antimony	67	75-125	GW-081793-JM-101	ND(0.060)UJ
					GW-081793-JM-102	ND(0.060)UJ
					GW-081793-JM-103	ND(0.060)UJ
					GW-081793-JM-104	ND(0.060)UJ
					GW-081793-JM-105	ND(0.060)UJ
					GW-081793-JM-106	ND(0.060)UJ
					GW-081793-JM-107	ND(0.060)UJ
					GW-081793-JM-108	ND(0.060)UJ
					GW-081793-JM-109	ND(0.060)UJ
					GW-081793-JM-110	ND(0.060)UJ
					GW-081793-JM-110	ND(0.060)UJ
					(unfiltered)	
Metals	GW-081793-JM-102	Selenium	0	75-125	GW-081793-JM-101	ND(0.005)
					GW-081793-JM-102	ND(0.025)R
					GW-081793-JM-103	ND(0.025)R
					GW-081793-JM-104	ND(0.025)R
					GW-081793-JM-105	ND(0.025)R
					GW-081793-JM-106	ND(0.025)R
					GW-081793-JM-107	ND(0.005)R
					GW-081793-JM-108	ND(0.025)R
					GW-081793-JM-109	ND(0.005)R
					GW-081793-JM-110	ND(0.005)R
					GW-081793-JM-111	ND(0.025)R

[1] Sample results should be qualified as:

J - The associated value is an estimated quantity.
UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 5

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF MATRIX SPIKE RECOVERY CRITERIA INORGANIC ANALYSES TEXTILE ROAD SITE AUGUST SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Results (mg/L)*
					(unfiltered)	
Metals	GW-081793-JM-102	Silver	69	75-125	GW-081793-JM-101	ND(0.010)UJ
					GW-081793-JM-102	ND(0.010)UJ
					GW-081793-JM-103	ND(0.010)UJ
Metals	GW-081793-JM-102	Silver	69	75-125	GW-081793-JM-104	ND(0.010)UJ
					GW-081793-JM-105	ND(0.010)UJ
					GW-081793-JM-106	ND(0.010)UJ
					GW-081793-JM-107	ND(0.010)UJ
					GW-081793-JM-108	ND(0.010)UJ
					GW-081793-JM-109	ND(0.010)UJ
					GW-081793-JM-110	ND(0.010)UJ
					GW-081793-JM-111	ND(0.010)UJ
					(unfiltered)	
Metals	GW-081793-JM-102	Thallium	73	75-125	GW-081793-JM-101	ND(0.010)UJ
					GW-081793-JM-102	ND(0.010)UJ
					GW-081793-JM-103	ND(0.010)UJ
					GW-081793-JM-104	ND(0.010)UJ
					GW-081793-JM-105	ND(0.010)UJ
					GW-081793-JM-106	ND(0.010)UJ
					GW-081793-JM-107	ND(0.010)UJ
					GW-081793-JM-108	ND(0.010)UJ
					GW-081793-JM-109	ND(0.010)UJ
					GW-081793-JM-110	ND(0.010)UJ
					GW-081793-JM-111	ND(0.010)UJ
					(filtered)	
Metals	GW-081793-JM-102	Selenium	40	75-125	GW-081793-JM-101	ND(0.010)UJ
					GW-081793-JM-102	ND(0.010)UJ
					GW-081793-JM-103	ND(0.010)UJ
					GW-081793-JM-104	ND(0.010)UJ
					GW-081793-JM-105	ND(0.010)UJ
					GW-081793-JM-106	ND(0.010)UJ
					GW-081793-JM-107	ND(0.010)UJ
					GW-081793-JM-108	ND(0.010)UJ
					GW-081793-JM-109	ND(0.010)UJ
					GW-081793-JM-110	ND(0.010)UJ
					GW-081793-JM-111	ND(0.010)UJ

TABLE 5

QUALIFIED SAMPLE DATA DUE TO VIOLATION
OF MATRIX SPIKE RECOVERY CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Results (mg/L)*
					(filtered)	
Metals	GW-081793-JM-102	Thallium	62	75-125	GW-081793-JM-101	ND(0.010)UJ
					GW-081793-JM-102	ND(0.010)UJ
					GW-081793-JM-103	ND(0.010)UJ
					GW-081793-JM-104	ND(0.010)UJ
					GW-081793-JM-105	ND(0.010)UJ
					GW-081793-JM-106	ND(0.010)UJ
Metals	GW-081793-JM-102	Thallium	62	75-125	GW-081793-JM-107	ND(0.010)UJ
					GW-081793-JM-108	ND(0.010)UJ
					GW-081793-JM-109	ND(0.010)UJ
					GW-081793-JM-110	ND(0.010)UJ
					GW-081793-JM-111	ND(0.010)UJ

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF
LABORATORY DUPLICATE ACCEPTANCE CRITERIA
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Result (mg/L)*[1]
					(unfiltered)	
Metals	Aluminum	GW-081793-JM-108	24	20	GW-081793-JM-102	NR
					GW-081793-JM-103	NR
					GW-081793-JM-105	NR
					GW-081793-JM-106	NR
					GW-081793-JM-107	NR
					GW-081793-JM-108	NR
					GW-081793-JM-109	NR
					GW-081793-JM-110	NR
					GW-081793-JM-111	NR

1 Sample resuts should be qualified as:

NR - No additional sample qualification was deemed necessary.

TABLE 7

ANALYTES DETECTED IN TRIP BLANK SAMPLES
TEXTILE ROAD SITE
AUGUST 1993 SAMPLING EVENT

Analyte	*Sample ID*	*Qualifier*
acetone	GW-081793-JM-101	0.010U[1]
	GW-081793-JM-104	0.016U
	GW-081793-JM-106	0.010U
	GW-081793-JM-108	0.014U
	GW-081793-JM-109	0.014U
	GW-081793-JM-110	0.010U
2-butanone	GW-081793-JM-101	0.010U
	GW-081793-JM-102	0.010U
	GW-081793-JM-103	0.010U
	GW-081793-JM-104	0.010U
	GW-081793-JM-106	0.010U
	GW-081793-JM-109	0.010U
	GW-081793-JM-110	0.010U

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1 Sample results should be qualified as:

U - The analyte was analyzed for, but was not detected abov e the reported sample quantitation limit.

TABLE 8

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
AUGUST SAMPLING EVENT

	Investigative Sample GW-081793-JM-102 (mg/L)	Duplicate Sample GW-081793-JM-103 (mg/L)	RPD
Unfiltered Metals			
Aluminum	15.4	35.3	78
Arsenic	0.027	0.067	136
Barium	0.281	0.458	47
Calcium	395	667	51
Chromium	0.046	0.122	90
Copper	0.104	0.195	60
Iron	55.4	113	68
Lead	0.035	0.069	65
Magnesium	67.3	104	42
Manganese	1.05	2.04	64
Nickel	0.086	0.183	72
Potassium	7.53	17.4	79
Sodium	10.4	13.5	25
Vanadium	ND[1] (0.005)	0.085	NC[2]
Zinc	0.197	0.423	72
Beryllium	ND(0.005)	0.023	NC
Filtered Metals			
Calcium	94.4	92.8	1.7
Iron	0.595	0.407	37
Magnesium	19.9	21.2	6
Manganese	0:077	0.049	44
Potassium	16.0	8.32	63
Sodium	14.4	11.3	24
Zinc	ND(0.020)	0.023	NC
Organics			
Acetone	0.11	0.13	16
Carbon disulfide	0.001J	0.001J	0
Chloroform	0.001J	ND(0.010)	NC

1 ND - Not detected at the quantitation limit in parantheses.
2 NC - Non calculable

MEMO

TO: Glenn Turchan REFERENCE NO: 4770-25

FROM: Jack Lindsay DATE: September 20, 1993

RE: Data Quality Assessment and Validation for Sediment Samples Collected at the Textile Road Site, Washtenaw County, Michigan

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The following details a data quality assessment and validation for sediment samples collected June18 through June 21, 1993 at the Textile Road Site, Washtenaw County, Michigan. The samples were selectively analyzed for the parameters listed in Table 1. The analyses were performed by Environmental Control Technology Corporation (ENCOTEC) of Ann Arbor, Michigan. The quality assurance criteria were established in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 1. On the basis of sample collection dates on the chain-of-custody forms and analytical reports provided by ENCOTEC, the analyses were completed within the specified holding time periods.

Method Blank Samples

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The majority of method blank samples were reported to be free from detectable concentrations of target analytes, indicating no significant laboratory contamination occurred. Analytes detected in the method blank samples are listed in Table 2. The associated data should be qualified as noted in the table.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for organic analyses was monitored by surrogate recoveries. The majority of surrogate recoveries for the analyses were within the acceptance criteria. Samples with surrogate recovered violating the acceptance criteria are listed in Table 3. The associated sample data should be qualified as noted in the table.

---

1 Application of relevant quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", December 1990 (Revised June 1991) and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", July 1988.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results - Organic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for organic analyses. The majority of MS/MSD percent recoveries and RPDs were within the acceptance criteria, indicating adequate accuracy and precision were achieved for the methods. Table 4 lists MS/MSD results which exceeded the acceptance criteria. The associated data should be qualified as noted in the table.

Matrix Spike/Laboratory Duplicate (MS/DUP) Results - Inorganic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent differences of duplicate results were determined. The majority of percent recoveries and RPDs were within the acceptance criteria, indicating an adequate level of accuracy and precision were achieved for the methods. Table 5 lists MS results which violated the acceptance criteria. Table 6 lists laboratory duplicate results which violated the CLP acceptance criteria. The associated data should be qualified as noted in the respective tables.

Laboratory Control Sample (LCS) - Inorganic

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. All LCS were within the control limits indicating that the analyses were performed adequately.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC collected for this sampling event consisted of one field duplicate sample sets.

Overall precision for the sampling event was monitored by the evaluation of a field duplicate sample set results. The relative percent differences of the results were calculated. Field duplicate sample results are listed in Table 7. The high RPD value may be attributable to the heterogeneity inherent to sediment samples.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

JPL/rlg

cc: Steve Day, CRA

TABLE 1

SUMMARY OF ANALYTICAL PARAMETERS AND HOLDING TIME PERIODS TEXTILE ROAD SITE MAY 1993 SAMPLING EVENT

Analysis Method[1]	*Holding Time*[2]
Volatile Organic Compounds (VOC) CLP SOW OLM01.8 sediment	14 Days
Semivolatile Organic Compounds (SVOC) CLP SOW OLM01.8 sediment	14/40 days[3]
Pesticides/Poly Chlorinated Biphenyls (Pest/PCB) CLP SOW OLM01.8 sediment	14/40 days
Metals CLP SOW ILM03.0 sediment	6 months (except mercury - 28 days)
Cyanide CLP SOW ILM03.0 sediment	14 days

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1 Methods were derived from:
CLP SOW - "Contract Laboratory Program Statement of Work for Organic Analyses, Multi-Media, Multi-Concentration," and "Contract Laboratory Program Statement of Work for Inorganics Analyses, Multi-Media, Multi-Concentration," USEPA, March 1990 (or almost recent revision).

2 Holding time periods are based from sample collection date to sample analysis date.

3 Fourteen days from sample collection to sample extraction, then forty days to sample analysis.

TABLE 2

ANALYTES DETECTED IN METHOD BLANKS, TEXTILE ROAD SITE JUNE 1993 SAMPLING EVENT

Analysis	*Parameter*	*Sample ID*	*Qualifier*
SVOC	bis(2-Ethylhexyl)phthalate	SD-061893-4770-01	0.330U[1]
		SD-061893-4770-02	0.330U
		SD-061893-4770-03	0.330U
		SD-062193-4770-16	0.330U
		SD-062193-4770-17	0.330U
		SD-062193-4770-20	0.330U
		SD-062193-4770-21	0.330U

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1 Sample results should be qualified as:
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 3

OUTLYING SURROGATE RECOVERIES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Sample ID*	*Surrogate Compound*	*% Recovery*	*% Recovery Limits*	*Qualifier*[1]
Pest/PCB	SD-062193-4770-20	Decachlorobiphenyl	56	60-150	UJ
	SD-061893-4770-01	Decachlorobiphenyl	52	60-150	UJ
PCB	SD-062193-4770-18	Decachlorobiphenyl	59	60-150	UJ

1 Sample results should be qualified as:

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4

OUTLYING MS/MSD RESULTS
ORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Sample ID*	*Spiking Compound*	*MS % Recovery*	*MSD % Recovery*	*% Recovery Limits*	*RPD*	*RPD Limit*	*Qualifier*[1]
PCB	SD-062193-4770-19	PCB 1221	119	72	48-163	49	20	UJ
		PCB 1248	105	65	39-155	48	19	UJ
		PCB 1260	89	68	37-166	26	23	UJ

---

1 Sample results should be qualified as:

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4

OUTLYING MS/MSD RESULTS
ORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Sample ID*	*Spiking Compound*	*MS % Recovery*	*MSD % Recovery*	*% Recovery Limits*	*RPD*	*RPD Limit*	*Qualifier*[1]
PCB	SD-062193-4770-19	PCB 1221	119	72	48-163	49	20	UJ
		PCB 1248	105	65	39-155	48	19	UJ
		PCB 1260	89	68	37-166	26	23	UJ

1 Sample results should be qualified as:

UJ - The analyhte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitatior ·essary to accurately and precisely measure the analyte in the sam

TABLE 5

OUTLYING MATRIX SPIKE RESULTS
INORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Result (mg/kg)*[1]
Cyanide	SD-062193-4770-21	Cyanide	6.9	75-125	SD-061893-4770-01	ND(0.26)R
					SD-061893-4770-02	ND(0.25)R
					SD-061893-4770-03	ND(0.25)R
					SD-062193-4770-16	ND(0.22)R
					SD-062193-4770-17	ND(0.23)R
					SD-062193-4770-20	ND(0.24)R
					SD-062193-4770-21	ND(0.22)R
Metals	SD-062193-4770-21	Selenium	59	75-125	SD-061893-4770-01	1.3UJ
					SD-061893-4770-02	1.3UJ
					SD-061893-4770-03	1.2UJ
					SD-062193-4770-16	1.1UJ
					SD-062193-4770-17	1.1UJ
					SD-062193-4770-20	1.3UJ
					SD-062193-4770-21	1.1UJ
Metals	SD-061293-4770-21	Manganese	196	75-125	SD-061893-4770-01	98J
					SD-061893-4770-02	110J
					SD-061893-4770-03	1.2J
					SD-062193-4770-16	130J
					SD-062193-4770-17	120J
					SD-062193-4770-20	240J
					SD-062193-4770-21	170J

1 Sample results should be qualified as:

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

ND( ) - Not detected at the quantitation limit in parentheses.

R - The data are unusable (Note: Analyte may or may not be present.)

TABLE 6

OUTLYING DUPLICATE RESULTS
INORGANIC ANALYSES
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Result (mg/kg*[1])
Metals	SD-062193-4770-21	Aluminum	59	35	SD-061893-4770-01	1,100J
					SD-061893-4770-02	1,200J
					SD-061893-4770-03	770J
					SD-062193-4770-16	2,300J
					SD-062193-4770-17	1,700J
					SD-062193-4770-20	2,200J
					SD-062193-4770-21	1,200J
Metals	SD-062193-4770-21	Chromium	38	35	SD-061893-4770-01	2.7UJ
					SD-061893-4770-02	3.8J
					SD-061893-4770-03	3.7J
					SD-062193-4770-16	7.3J
					SD-062193-4770-17	5.4J
					SD-062193-4770-20	7.1J
					SD-062193-4770-21	8.8J
Metals	SD-062193-4770-21	Iron	116	35	SD-061893-4770-01	3,200J
					SD-061893-4770-02	3,100J
					SD-061893-4770-03	2,100J
					SD-062193-4770-16	6,300J
					SD-062193-4770-17	3,700J
					SD-062193-4770-20	6,500J
					SD-062193-4770-21	4,100J
Metals	SD-062193-4770-21	Manganese	62	35	SD-061893-4770-01	NR
					SD-061893-4770-02	NR
					SD-061893-4770-03	NR
					SD-062193-4770-16	NR
					SD-062193-4770-17	NR
					SD-062193-4770-20	NR
					SD-062193-4770-21	NR

[1] Sample results should be qualified as:

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary accurately and precisely measure the analyte in the sample.
NR - No additional qualification was deemed necessary.

TABLE 7

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
JUNE SAMPLING EVENT

	Investigative Sample SD-061893-4770-02 (mg/kg)	Duplicate Sample SD-061893-4770-03 (mg/kg)	RPD
Aluminum	1,200	770	43
Calcium	46,000	44,000	4
Chromium	3.8	3.7	2.6
Iron	3,100	2,100	38
Lead	2.9	1.9	41
Magnesium	9,400	8,200	6
Manganese	110	97	12
Zinc	16	12	28
Methyl chloride	0.003	0.006	66
Toluene	0.002	0.002	0
Di-n-butyl phthalate	0.049J	ND[1] (0.330)	NC[2]

1 ND - Not detected at the quantitation limit in parantheses.
2 NC - Non calculable

MEMO

TO: Glenn Turchan REFERENCE NO: 4770-25

FROM: Jack Lindsay DATE: September 20, 1993

RE: Data Quality Assessment and Validation for Soil Samples and Water Samples Collected at the Textile Road Site, Washtenaw County, Michigan

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The following details a data quality assessment and validation for soil and water samples collected May, 1993 at the Textile Road Site, Washtenaw County, Michigan. The samples were selectively analyzed for the parameters listed in Table 1. The analyses were performed by Environmental Control Technology Corporation (ENCOTEC) of Ann Arbor, Michigan. The quality assurance criteria were established in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 1. On the basis of sample collection dates on the chain-of-custody forms and analytical reports provided by ENCOTEC, the analyses were completed within the specified holding time periods, with the exception of those samples listed in Table 2. The associated data should be qualified as noted in the table.

Method Blank Samples

Contamination of the samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The majority of method blank samples were reported to be free from detectable concentrations of target analytes, indicating no significant laboratory contamination occurred. Analytes detected in the method blank samples are listed in Table 3. The associated data should be qualified as noted in the table.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for organic analyses was monitored by surrogate recoveries. The majority of surrogate recoveries for the analyses were within the acceptance criteria. Due to sample dilutions required by the presence of high concentrations of target and non-target compounds, several samples could not be assessed based on surrogate recoveries. Samples with surrogate recoveries violating the acceptance criteria are presented in Table 4. The associated sample data should be qualified as noted in the table.

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1 Application of relevant quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", December 1990 (Revised June 1991) and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses", July 1988.

In addition, matrix interferences were reported to have distorted two or fewer of the surrogated compound peaks in samples BH-16B-93, BH-21A-93, and BH-72B-93. Qualification of the sample data was deemed unnecessary as the remaining surrogate(s) was recovered within the acceptance limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results - Organic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent difference (RPD) of the spike recoveries were determined for organic analyses. The majority of MS/MSD percent recoveries and RPDs were within the acceptance criteria, indicating adequate accuracy and precision were achieved for the methods. Table 5 lists MS/MSD results which violated the acceptance criteria. The associated data should be qualified as noted in the table.

Matrix Spike/Laboratory Duplicate (MS/DUP) Results - Inorganic Analyses

To assess the long term accuracy and precision of the analytical method on various matrices, matrix spike percent recoveries and relative percent differences of laboratory duplicate results were determined. The majority of percent recoveries and RPDs were within the acceptance criteria, indicating an adequate level of accuracy and precision were achieved for the methods. Table 6 lists MS results which exceeded the acceptance criteria. Table 7 lists laboratory duplicate results which violated the acceptance criteria. The associated data should be qualified as noted in the respective tables.

Laboratory Control Sample (LCS) - Inorganic

The LCS serves as a monitor of the overall performance of all steps in the analysis, including the sample preparation. All LCS were within the control limits indicating that the methods were adequately performed.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC collected for this sampling event consisted of eight rinsate blank samples and nine field duplicate sample sets.

As a check on cleanliness of sampling equipment, rinsate blank samples were collected as authentic samples for labeling and submission to the laboratory. Acetone and 1,1,1-trichloroethane were detected in two of the rinsate blanks at estimated concentrations of 0.006 and 0.001 mg/L, respectively. The remaining rinsate blanks were free from detectable concentrations of target analytes indicating the field decontamination procedure was adequate.

Overall precision for the sampling event was monitored by the evaluation of field duplicate sample set results. Relative percent difference of the results were calculated. The results of detected field duplicate sample results are listed in Table 8. The high RPD value may be attributable to the heterogeneity inherent to soil samples or may reflect a sample identification problem in the field and/or laboratory.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted above.

JPL/rlg

cc: Steve Day, CRA

TABLE 1

SUMMARY OF ANALYTICAL PARAMETERS
AND HOLDING TIME PERIODS
TEXTILE ROAD SITE
MAY 1993 SAMPLING EVENT

Analysis Method[1]	*Holding Time*[2]
Volatile Organic Compounds (VOC) CLP SOW OLM01.8 water/soil	14 Days
Semivolatile Organic Compounds (SVOC) CLP SOW OLM01.8	
water	7/40 days[3]
soil	14/40 days
Pesticides/Poly Chlorinated Biphenyls (Pest/PCB) CLP SOW OLM01.8	
water	7/40 days
soil	14/40 days
Metals CLP SOW ILM3.0 water/soil	6 months (except mercury - 28 days)
Cyanide CLP SOW ILM03.0 water/soil	14 days

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1 Methods were derived from:
CLP SOW - "Contract Laboratory Program Statement of Work for Organic Analyses, Multi-Media, Multi-Concentration" and "Contract Laboratory Program Statement of Work for Inorganics Analyses, Multi-Media, Multi-Concentration", USEPA, March 1990 (or most recent revision).

2 Holding time periods are based from sample collection date to sample analysis date.

3 Seven days from sample collection to sample extraction, then forty days to sample analysis.

TABLE 2

SAMPLE HOLDING TIME VIOLATIONS
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Sample ID*	*Qualifier*[1]
Cyanide	BH-5D-93	UJ
	BH-26B-93	J
	BH-31A-93	UJ
	BH-46D-93	UJ
	BH-46C-93	UJ
	BH-2C-93	UJ
	BH-2D-93	UJ
	BH-6B-93	UJ
	BH-60C-93	UJ
	BH-11A-93	UJ
	BH-16B-93	J
	BH-47A-93	UJ
	BH-21A-93	J
	BH-71A-93	J
	BH-72B-93	UJ
	SS-6-93	J
	BH-47B-93	UJ
	BH-48A-93	UJ
	BH-48B-93	UJ
	BH-49A-93	UJ
	BH-56A-93	UJ
	BH-49B-93	UJ
Mercury	BH-47A-93	UJ
	BH-47B-93	UJ
	BH-48A-93	UJ
	BH-48B-93	UJ
	BH-49A-93	UJ
	BH-56A-93	UJ
	BH-49B-93	UJ
VOC	DW-1-93	J/UJ
	BH-11R-93	J/UJ
	BH-36R-93	J/UJ
SVOC	BH-36R-93	UJ

1 Sample results should be qualified as:
J - The associated value is an estimated quantity for detected analytes.
UJ - The analyte was checked for, but not detected. The associated value is an estimate.

TABLE 3

ANALYTES DETECTED IN METHOD BLANKS
TEXTILE ROAD SITE
MAY 1993 SAMPLING EVENT

Analysis	*Parameter*	*Sample ID*	*Qualified Sample Result (mg/kg)* [1]
VOC	Acetone	BH-2B-93	0.017U
		BH-46D-93	0.014U
		BH-46C-93	0.014U
	2-Butanone	BH-41A-93	0.011U
		BH-5D-93	0.011U
		BH-26B-93	0.011U
		BH-31A-93	0.055U
		BH-46D-93	0.012U
		BH-46C-93	0.012U
		BH-21A-93	1.4U
		BH-71A-93	1.4U
		SS-6-93	0.012U
		DW-1-93	0.010U(mg/L)
		BH-11R-93	0.010U(mg/L)
		BH-36R-93	0.010U(mg/L)
	Methylene chloride	BH-36B-93	0.012U
		BH-55B-93	0.012U
		BH-2D-93	0.011U
		BH-60C-93	0.012U
		BH-11A-93	0.011U
		SS-6-93	0.012U
		DW-1-93	0.010U(mg/L)
		BH-11R-93	0.010U(mg/L)
		BH-36R-93	0.010U(mg/L)
SVOC	Di-n-butylphthalate	BH-2C-93	0.780U
		BH-2D-93	0.350U
		BH-60C-93	0.380U
		BH-11A-93	0.330U
		BH-72B-93	0.570U
		BH-11R-93	0.010U(mg/L)
	bis(2-Ethylhexyl)phthalate	BH-26B-93	11U
		BH-11R-93	0.010U(mg/L)

[1] Sample results should be qualified as:
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 4

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA TEXTILE ROAD SITE MAY SAMPLING EVENT

Analysis	*Sample ID*	*Surrogate Compound*	*% Recovery*	*% Recovery Limits*	*Qualifier*[1]
PCB	BH-52B-93	Decachlorobiphenyl	51	60-150	UJ
	BH-5R-93	Decachlorobiphenyl	55	60-150	UJ
		2,4,5,6-Tetrachloro m xylene	58	60-150	NR
	BH-37R-93	Decachlorobiphenyl	12	60-150	UJ
		2,4,5,6-Tetrachloro-m-xylene	21	60-150	NR
	BH-38R-93	2,4,5,6-Tetrachloro-m-xylene	40	60-150	UJ
Pest/PCB	BH-36B-93	Decachlorobiphenyl	54	60-150	UJ
	BH-55B-93	Decachlorobiphenyl	41	60-150	J/UJ
	BH-5D-93	Decachlorobiphenyl	40	60-150	UJ
	BH-26B-93	Decachlorobiphenyl	46	60-150	UJ
	BH-31A-93	Decachlorobiphenyl	19	60-150	UJ
	BH-46D-93	Decachlorobiphenyl	49	60-150	UJ
	BH-46C-93	Decachlorobiphenyl	54	60-150	UJ
	BH-2C-93	Decachlorobiphenyl	39	60-150	UJ
	BH-2D-93	Decachlorobiphenyl	34	60-150	UJ
	BH-6B-93	Decachlorobiphenyl	47	60-150	J/UJ
	BH-72B-93	Decachlorobiphenyl	20	60-150	J/UJ
	BH-60C-93	Decachlorobiphenyl	50	60-150	UJ

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[1] *Sample results should be qualified as:*

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

NR - No additional qualification was deemed necessary.

TABLE 5

OUTLYING MS/MSD RESULTS
ORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Sample ID*	*Spiking Compound*	*MS % Recovery*	*MSD % Recovery*	*% Recovery Limits*	*RPD*	*RPD Limit*	*Qualifier*[1]
Pest/PCB	BH-28-93	4,4'-DDT	54	100	23-134	60	50	UJ
		Dieldrin	25	120	31-134	131	38	UJ
		Endrin	259	464	42-139	57	45	UJ
VOC	BH-2B-93	Chlorobenzene	146	106	60-133	32	21	J
	BH-72B-93	1,1-Dichloroethane	181	111	59-172	48	22	UJ
		Toluene	143	131	59-139	95	21	UJ
PCB	BH-50B-93	PCB 1248	87	112	39-155	25	19	UJ

[1] Sample results should be qualified as:
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLOATION OF
MATRIX SPIKE ACCEPTANCE CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Result (mg/kg)*
Cyanide	BH-60C-93	Cyanide	23	75-125	BH-60C-93	ND(0.20)R
Metals	BH-2B-93	Cadmium	17	75-125	BH-2B-93	1.4J
Metals	BH-60C-93	Lead	0	75-125	BH-50A-93	69J
					BH-50B-93	68J
					BH-59A-93	80J
					BH-2C-93	13J
					BH-2D-93	8.2J
					BH-6B-93	55J
					BH-60C-93	13J
					BH-11A-93	12J
					BH-16B-93	31J
					BH-21A-93	74J
					BH-71A-93	64J
					BH-72B-93	16J
					SS-6-93	139J
Metals	BH-2B-93	Arsenic	0	75-125	BH-2B--93	15J
					BH-41A-93	3.6J
					BH-46B-93	6.1J
					BH-36B-93	9.9J
					BH-55B-93	5.0J
					BH-5D-93	6.2J
					BH-26B-93	4.1J
					BH-31A-93	4.2J
					BH-46D-93	4.3J
					BH-46C-93	6.6J
Metals	BH-60C-93	Arsenic	49	75-125	BH-50A-93	15J
					BH-50B-93	19J
					BH-59A-93	15J
					BH-2C-93	8.9J
					BH-2D-93	5.8J
					BH-6B-93	16J
					BH-60C-93	7.5J
					BH-11A-93	5.6J
					BH-16B-93	29J
					BH-21A-93	65J
					BH-71A-93	37J
					BH-72B-93	19J
					SS-6-93	20J

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLOATION OF
MATRIX SPIKE ACCEPTANCE CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Result (mg/kg)*
Metals	BH-2B-93	Antimony	21	75-125	BH-2B-93	ND(15)R
					BH-41A-93	ND(13)R
					BH-46B-93	ND(14)R
					BH-36B-93	ND(15)R
					BH-55B-93	ND(15)R
					BH-5D-93	ND(14)R
Metals	BH-2B-93	Antimony	21	75-125	BH-26B-93	ND(14)R
					BH-31A-93	ND(13)R
					BH-46D-93	ND(14)R
					BH-46C-93	ND(14)R
Metals	BH-60C-93	Antimony	29	75-125	BH-50A-93	ND(13)R
					BH-50B-93	ND(14)R
					BH-59A-93	ND(14)R
					BH-2C-93	ND(14)R
					BH-2D-93	ND(13)R
					BH-6B-93	ND(15)R
					BH-60C-93	ND(14)R
					BH-11A-93	ND(13)R
					BH-16B-93	ND(21)R
					BH-21A-93	24J
					BH-71A-93	14J
					BH-72B-93	ND(21)R
					SS-6-93	ND(14)R
Metals	BH-2B-93	Arsenic	0	75-125	BH-2B-93	ND(1.2)R
					BH-41A-93	ND(1.1)R
					BH-46B-93	ND(1.1)R
					BH-36B-93	ND(1.2)R
					BH-55B-93	ND(1.2)R
					BH-5D-93	ND(1.1)R
					BH-26B-93	ND(1.1)R
					BH-31A-93	ND(1.1)R
					BH-46D-93	ND(1.2)R
					BH-46C-93	ND(1.2)R
Metals	BH-2B-93	Chromium	161	75-125	BH-2B-93	86J
					BH-41A-93	11J
					BH-46B-93	8.3J
					BH-36B-93	14J
					BH-55B-93	21J
					BH-5D-93	7.5J
					BH-26B-93	13J

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLOATION OF
MATRIX SPIKE ACCEPTANCE CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	Spiked Sample ID	Spiking Compound	MS % Recovery	% Recovery Limits	Associated Samples	Qualified Sample Result (mg/kg)
Metals	BH-2B-93	Chromium	161	75-125	BH-31A-93	13J
					BH-46D-93	4.5J
					BH-46C-93	12J
Metals	BH-2B-93	Copper	976	75-125	BH-2B-93	495J
					BH-41A-93	14J
					BH-46B-93	11J
					BH-36B-93	36J
					BH-55B-93	109J
					BH-5D-93	18J
					BH-26B-93	58J
					BH-31A-93	34J
					BH-46D-93	15J
Metals	BH-2B-93	Copper	976	75-125	BH-46C-93	24J
Metals	BH-2B-93	Lead	258	75-125	BH-2B-93	166J
					BH-55B-93	290J
Metals	BH-2B-93	Manganese	248	75-125	BH-2B-93	13,000J
					BH-41A-93	280J
					BH-46B-93	347J
					BH-36B-93	235J
					BH-55B-93	591J
					BH-5D-93	222J
					BH-26B-93	230J
					BH-31A-93	222J
					BH-46D-93	245J
					BH-46C-93	430J
Metals	BH-60C-93	Manganese	171	75-125	BH-50A-93	328J
					BH-50B-93	366J
					BH-59A-93	488J
					BH-2C-93	16,100J
					BH-2D-93	391J
					BH-6B-93	412J
					BH-60C-93	336j
					BH-11A-93	378J
					BH-16B-93	818J
					BH-21A-93	4,170J
					BH-71A-93	3,080J
					BH-72B-93	148J
					SS-6-93	665J

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLOATION OF
MATRIX SPIKE ACCEPTANCE CRITERIA
INORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*MS % Recovery*	*% Recovery Limits*	*Associated Samples*	*Qualified Sample Result (mg/kg)*[1]
Metals	BH-2B-93	Zinc	1,100	75-125	BH-2B-93	346J
					BH-41A-93	30J
					BH-46B-93	32J
					BH-36B-93	57J
					BH-55B-93	470J
					BH-5D-93	58J
					BH-26B-93	58J
					BH-31A-93	41J
					BH-46D-93	39J
					BH-46C-93	63J
Metals	BH-56A-93	Antimony	65	75-125	BH-47A-93	ND(13)UJ
					BH-47B-93	ND(14)UJ
					BH-48A-93	ND(14)UJ
					BH-48B-93	ND(14)UJ
					BH-49A-93	ND(13)UJ
					BH-56A-93	ND(13)UJ
					BH-49B-93	ND(13)UJ
Metals	BH-56A-93	Arsenic	47	75-125	BH-47A-93	ND(2.0)UJ
					BH-47B-93	2.1J
					BH-48A-93	ND(2.0)UJ
					BH-48B-93	3.2J
					BH-49A-93	2.1J
					BH-56A-93	3.2J
					BH-49B-93	ND(2.0)UJ
Metals	BH-56A-93	Lead	34	75-125	BH-47A-93	4.1J
					BH-47B-93	8.9J
					BH-48A-93	4.8J
					BH-48B-93	5.4J
					BH-49A-93	3.0J
					BH-56A-93	4.9J
					BH-49B-93	6.1J

[1] Sample results should be qualified as:

J - The associated value is an estimated quantity.
UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R - The data are unusable.

TABLE 7

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF
LABORATORY DUPLICATE
INORGANIC ANALYSES
TEXTILE ROAD SITE
MAY SAMPLING EVENT

Analysis	*Spiked Sample ID*	*Spiking Compound*	*RPD*	*RPD Limit*	*Associated Samples*	*Qualified Sample Results (mg/kg)*[1]
Metal	BH-2B-93	Calcium	41	20	BH-2B-93	64,300J
					BH-41A-93	13,800J
					BH-46B-93	19,600J
					BH-36B-93	14,900J
					BH-55B-93	38,000J
					BH-5D-93	91,000J
					BH-26B-93	19,000J
					BH-31A-93	38,100J
					BH-46D-93	118,000J
					BH-46C-93	94,200J
Metal	BH-2B-93	Lead	39	20	BH-2B-93	166J
Metals	BH-2B-93	Manganese	49	20	BH-2B-93	NR
					BH-41A-93	NR
					BH-46B-93	NR
					BH-36B-93	NR
					BH-55B-93	NR
					BH-5D-93	NR
					BH-26B-93	NR
					BH-31A-93	NR
					BH-46D-93	NR
					BH-46C-93	NR
Metals	BH-60C-93	Lead	39	35	BH-50A-93	NR
					BH-50B-93	NR
					BH-59A-93	NR
					BH-2C-93	NR
					BH-2D-93	NR
					BH-6B-93	NR
					BH-60C-93	NR
					BH-11A-93	NR
					BH-16B-93	NR
					BH-21A-93	NR
					BH-71A-93	NR
					BH-72B-93	NR
					SS-6-93	NR

[1] Sample results should be qualified as:

J - The analyte was positively identifed; the associated numerical value is the approximate concentration of the analyte in the sample.
NR - No additional qualification was deemed necessary.

TABLE 8

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
MAY SAMPLING EVENT

	Investigative Sample BH-36B-93 (mg/kg)	Duplicate Sample BH-55B-93 (mg/kg)	RPD
Aluminum	5,910	6,720	12
Arsenic	9.9	5.0	66
Barium	254	122	70
Beryllium	1.3	ND[1] (1.2)	NC[2]
Calcium	14,900	38,000	87
Chromium	14	21	40
Copper	36	109	100
Iron	8,970	16,300	58
Lead	14	290	181
Magnesium	4,790	9,020	61
Manganese	235	591	86
Nickel	15	15	0
Vanadium	22	23	4
Zinc	57	470	156
Mercury	ND(0.12)	0.28	NC
4,4'-DDE	ND(0.0041)	0.0044	NC
4,4'-DDT	ND(0.0041)	0.0080	NC
Acetone	0.015	0.031	61
Benzene	0.003J	0.003J	0
2-Butanone	0.041	0.004J	164
Carbon disulfide	0.001J	ND(0.012)	NC
Ethylbenzene	0.002J	0.002J	0
Methlene chloride	0.005JB	0.005JB	0
4-methyl-2-pentanone	0.003J	ND(0.012)	NC
Xylenes(total)	0.004J	0.004J	0

1 ND - Non-detect
2 NC - Non calculable

TABLE 8

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
MAY SAMPLING EVENT

	Investigative Sample BH-21A-93 mg/kg	Duplicate Sample BH-71A-93 mg/kg	RPD
Aluminum	27,800	27,500	1.1
Antimony	24	14	52
Arsenic	65	37	54
Barium	46	83	57
Cadmium	2.9	2.5	14
Chromium	1,750	1,240	34
Cobalt	70	61	13
Copper	1,800	1,570	13
Iron	604,000	489,000	21
Lead	74	64	14
Manganese	4,170	3,080	27
Nickel	443	288	42
Silver	4.8	2.6	59
Vanadium	105	88	17
Zinc	448	412	0.8
PCB-1254	230	44	136
Acetone	ND(1.4)	1.7	NC
2-Butanone	1.4B	0.23J	143
Carbon disulfide	0.27J	ND(1.4)	NC
Total-xylenes	0.20J	0.20J	0
Bromomethane	ND(1.4)	0.50JB	NC
Methylene chloride	ND(1.4)	0.21J	NC
Toluene	ND(1.4)	0.46J	NC

TABLE 8

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
MAY SAMPLING EVENT

	Investigative Sample BH-16B-93 (mg/kg)	Duplicate Sample BH-72B-93 (mg/kg)	RPD
Aluminum	9,310	3,040	101
Arsenic	29	19	41
Barium	498	410	19
Beryllium	2.9	2.7	7
Cadmium	1.3	ND(1.7)	NC
Calcium	2,140	1,370	43
Chromium	193	32	143
Cobalt	16	ND(10)	NC
Copper	671	72	161
Iron	101,000	195,000	135
Lead	31	16	63
Manganese	818	148	138
Nickel	99	19	135
Selenium	1.9	ND(1.7)	NC
Vanadium	26	20	26
Zinc	82	16	134
PCB-1254	19	3.6	176
Acetone	0.56	6.2	166
Toluene	0.026J	ND(2.1)	NC
Ethylbenzene	(ND)0.087	0.46	NC
Aluminum	1,600	4,700	98
Arsenic	2.1	3.2	41
Calcium	75,000	35,000	72
Chromium	3.4	9.7	96
Copper	6.9	11	45
Iron	4,900	10,000	68
Lead	3.0	4.9	48
Magnesium	10,000	8200	19
Manganese	210	190	10
Nickel	ND(8.0)	11	NC
Vanadium	ND(10)	15	NC
Zinc	13	32	84

TABLE 8

FIELD DUPLICATE SAMPLE RESULTS
TEXTILE ROAD SITE
MAY SAMPLING EVENT

	Investigative Sample BH-16B-93 (mg/kg)	Duplicate Sample BH-72B-93 (mg/kg)	RPD
PCB-1254	19,000	3,600	136
	BH-20B-93	BH-70B-93	
PCB-1254	4,200	1,000	123
	BH-21A-93	BH-71A-93	
PCB-1254	230,000	44,000	135
	BH-21B-93	BH-55B-93	
PCB-1254	230,000	310,000	29
	BH-22B-93	BH-56B-93	
PCB-1254	49,000	50,000	2
	BH-24A-93	BH-58A-93	
PCB-1254	16,000	130,000	156

APPENDIX J

OFF-SITE WELL LOGS

Map of
Sample No.

GEOLOGICAL SURVEY DIVISION
SNESE
WATER WELL RECORD 6-31340

WELL LOG 1

County: Washtenaw | Twp.: Ypsilanti SENESWSE | Sec. 24 | Town 3 S. | Range 7 E.

Distance from Roads, Section Lines, etc.
Approx. 875' W. of Rawsonville rd } (or intersection
1850' N of Textile rd } is SE corner sec 24)

Formation	Thickness of Stratum	Depth to Bottom of Stratum
Gravel	5	5
clay	7	12
clay & rock	10	22
clay	10	32
clay and rocks	10	42
clay and sandy gravel	10	52
clay	8	60
Sand & gravel	2	62
gravel	30	92
clay & shale	10	102
dly-6-55'		

Owner: Ypsilanti Township
Address:
Driller and Address: Layne Northern - J. Turner
Well Depth: 102 ft. Date of Completion: 10-22-65
☐ Cable tool ☐ Rotary ☐ Dug ☒ D.C. ☐ Driven ☐ Jetted ☐ Bored
Use: ☐ Domestic ☒ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Dewatering ☐ Test Well ☐ _____
Casing: Diam. 18 in. to 61 ft. Depth; ____ in. to ____ ft. Depth
Height: Above/Below surface _____ ft. Type-Height
Screen: Type: _____ Dia: _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft.
Accessories:
Water levels: _____ ft. above/below _____

Procedure: 78'6" P.L.
_____ ft. after ____ hrs. pumping 1500 g.p.m.
_____ ft. after ____ hrs. pumping ____ g.p.m.
Meas. by Date
Flow: g.p.m./g.p.h. Temp °F
Water Quality in Parts Per Million: Iron (Fe) _____ Chlorides (Cl) _____ Hardness _____
Elevation: ±685' topo ft. above
Source of data:
Record by: Date:

Remarks:

H015623

WELL LOG 2

Layne NORTHERN COMP... INCORPORATED

INDIANAPOLIS • MISHAWAKA • LANSING

☐ TEST

☐ PERMANENT

Job No. [illegible]409

WELL LOG No. 7 CITY Ypsilanti County Washtenaw

Owner Ypsilanti Twp. Township Ypsilanti

Section 24

Location State Michigan

From Land Description

From Street or Road

FORMATION FOUND – DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Top Soil	0	6	6	
Sand & Gravel	6	4	3'6"	
Clay - Sand - gravely	4	18	14	
Clay - Blue - gravely	18	27	9	
Sand & Gravel & Rocks	27	54	27	46
Sand & Gravel	54	59	5	45
Sand & Gravel & Rocks	59	80	21	
Sand & Gravel	80	91	11	

Hole 12 "Dia Drilled by { Cable Tool ____ Rotary R.F. Jetting ____ / Reverse Circ. ____ Bucket ____ Auger ____

Rotary Hole Grouted: Neat Cement ____ Drilling Mud ____ Other ____

Casing ____ "OD From ____ "above ground to ____ feet below ground. Weight ____ Pounds per foot

Screen ____ " Set from ____ to ____ feet Make ____ Type ____ Slot ____

Pumping test ____ GPM drawdown to ____ feet after ____ hours pumping

H01561

Layne NORTHERN COMP WELL LOG 3

INDIANAPOLIS • MISHAWAKA • LANSING

☐ TEST

☒ PERMANENT

Job No L-32082

WELL LOG No. 9 CITY YPSILANTI County WASHTENAW

Owner YPSILANTI TOWNSHIP Township YPSILANTI

Section 24

Location State MICHIGAN

From Land Description 170' West of guardrail of Rawsonville Road

From Street or Road 610' South of Huron river (South bank)

FORMATION FOUND – DESCRIBE FULLY	FROM NATURAL GROUND LEVEL: Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Fill - clay	0	2	2	
Top fill & rocks	2	4	2	
Clay - brown	4	9	5	
Clay - sand & gravel	9	18	9	
Sand & gravel - some clay	18	25	7	
Coarse sand & fine gravel	25	49	24	
Sand & gravel - rocks & shale	49	78	29	22' 3"
Shale	78	80	2	

Hole 36" Dia Drilled by: { Cable Tool ___ Rotary ___ Jetting ___ / Reverse Circ. X Bucket ___ Auger ___ }

H015625

Rotary Hole Grouted: Neat Cement X Drilling Mud ___ Other ___

Casing 36" OD From 1'6" above ground to 35 feet below ground. Weight ___ Pounds per foot 15.83

Screen 16" Set from 79 to 59 feet Make LAYNE Type S.S. Slot 1/16

(SEE WELL PRINT)

Date Completed 9/9/60 Driller J. D. COOKROO

WELL LOG 4

Layne NORTHERN COMPANY
INCORPORATED
INDIANAPOLIS • MISHAWAKA • LANSING

249

☒ TEST Observation Well for pumping Test of pumping Well No. 5
☐ PERMANENT

Job No. L-32338

WELL LOG No. 69-E CITY YPSILANTI TOWNSHIP County Washtenaw

Owner YPSILANTI TOWNSHIP Township Ypsilanti

NE SW SW W½, SW¼ Section 24, T. 3 S., R. 7 E.

Location EL 687' repo State Michigan

From Land Description 25' West of Well No. 5 ; just W of Water Treatment Plant

From Street or Road Bridge St.

FORMATION FOUND – DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Brown clay	0	16	16	
Brown sand	16	17	1	
Blue grey clay with stones	17	33	16	
Sand & gravel, fine sand, brown	33	[illegible]	1	
Brown clay	34	38	4	
Sand & gravel, coarse	38	41	3	
Grey clay	41	42	1	
Sand & gravel - coarse	42	45	3	
Sand & gravel - medium	45	50	5	
Sand & gravel - medium with fines	50	60	10	
Sand & gravel - medium with fines & coarse	60	75	15	
Sand & gravel	75	80	5	
Sand & gravel - medium	80	85	5	
Sand & gravel - fine material black	85	90	5	(water)
Sand & gravel	90	106	[illegible]	± 50'
Hard shale - black, shaley	106	117	17	
Soft shale - clay like - grey	117	125	8	
Black shale, shaley Limestone	125 131	131 135	6 4	

Hole 5⅞" Dia Drilled by { Cable Tool _____ Rotary X Jetting _____ / Reverse Circ. _____ Bucket _____ Auger _____

Rotary Hole Growtech Neat Cement _____ Drilling Mud _____ Other _____

Casing 2" OD From 2' above ground to 99 feet below ground. Weight _____ Pounds per foot

Screen 1½" Set from 99 to 103 feet Make Johnson Type 1½" Point Slot .025

Pumping test _____ GPM drawdown to _____ feet after _____ hours pumping

Date Completed 10/8/69 Driller Burrows - McCracken

JUN 30 1970

H01552

Page of

Sample No.

MICHIGAN DEPARTMENT OF CONSERVATION
GEOLOGICAL SURVEY DIVISION

WELL LOG 5

WATER WELL RECORD

TW 65.7

County: Washtenaw | Twp.: Ypsilanti | NW ¼ of NE ¼ of NE ¼ Sec. 25 | Town 3S S/S. | Range 7E E/W.

Distance from Roads, Section Lines, etc.
100 feet south centerline of Textile. 980 feet east centerline of McKeon Road.
200 feet west of East property line.

FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Coarse gravel	10	10
Sand and gravel	11	21
Grey clay	39	60
Gravelly clay	23	83
Sand and gravel--some shale	42	125

Owner: City of Ypsilanti

Address:

Driller and Address: Layne Northern Co., Lansing

Well Depth: 125 ft. | Date of Completion: 11/1/65

☑ Cable tool ☐ Rotary ☐ Dug ☐ B.C.
☐ Driven ☐ Jetted ☐ Bored

Use: ☐ Domestic ☐ Public Supply ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Cheesering
☑ Test Well ☐ _____

Casing: Dia. ___ in. to ___ ft. Depth
___ in. to ___ ft. Depth

Screen: Above/Below surface ___ ft.
Type-Height

Screen:
Type: _____ Dia: _____
Slot/Gauge _____ Length _____
Set Between _____ ft. and _____ ft.
Accessories:

Water levels: 63 ft. above/below 150
_____ ft. above/below _____
Meas. by Driller Date 11/65

Procedure:
_____ ft. after ___ hrs. pumping ___ g.p.m.
_____ ft. after ___ hrs. pumping ___ g.p.m.
Meas. by Date

Flow:
___ g.p.m./g.p.h. Temp °F

Water Quality in Parts Per Million:
Iron (Fe) _____ Chlorides (Cl): _____
Hardness _____

Elevations:
~ 700 ft. above

Source of data:
Layne well record

Record by: R. P. Bissell Date: 7/31/68

Remarks:
* 100 feet of 1¼ inch pipe and point left in hole.

H015627

[WELL LOG 6

JUL 19 1976

WATER WELL RECORD
ACT 294 PA 1965

DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County: Washtenaw | Township Name: Ypsilanti | SW¼ NW¼ SW¼ | Section Number: 23 | Town Number: 3 S | Range Number: 7 E

Street and Number of Well Location: 5730 Tuttle Hill

3 OWNER OF WELL: Steve Moss
Address: 5730 Tuttle Hill Rd. Ypsilanti

4 WELL DEPTH: 177 ft. | Date of Completion: 5-13-76

5 ☐ Cable Tool ☑ Rotary ☐ Driven ☐ Dug ☐ Boring ☐ Other

6 USE: ☑ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well

7 CASING: ☑ Threaded ☐ Welded
Diam. 4 in. to 142 ft. | Weight: Above/Below Surface ____ lb. | 11 lbs/ft.
in. to ft. | Drive Shoe? ☐ Yes ☐ No

8 SCREEN: Type: NONE | Make: | Slot/Gauge: | Length: | Set between ft. and ft. | Fittings:

9 STATIC WATER LEVEL: 40 ft. below land surface

10 PUMPING LEVEL: 140 ft. after 1 hr. pumping 5 G.P.M.
ft. after hr. pumping G.P.M.

11 WATER QUALITY: Was a Chemical Analysis Made? Yes No | Chlorides (Cl): | Hardness: | Other:

12 WELL HEAD COMPLETION: ☐ At Approved Pitless ☑ Pitless Adapter ☐ 12" Above Grade

13 Was Grout Used? ☑ Yes ☐ No
☐ Neat Cement ☑ Bentonite ☐ Other
Depths: From ft. to 5 ft.

14 Nearest Source of Possible Contamination: ☐ Well ☐ Spring ☐ Stream ☐ Lake ☐ Pond ☐ Other
Direction: S | Distance: 200 ft. | Type: Drainfield
Was Contamination Source Inspected? ☑ Yes ☐ No

15 PUMP: ☐ Not Installed
Manufacturer's Name: Aermotor
Model Number: 502-1 | H.P.: 42 | Volts: 230
Length of Drop Pipe: 136 ft. | Capacity: 5 G.P.M.
Type: ☑ Submersible ☐ Jet ☐ Reciprocating

2 FORMATION	THICKNESS OF STRATA	DEPTH TO BOTTOM OF STRATA
Yellow Clay	5	5
Yellow Clay & Gravel	3	8
Hard Blue Clay	128	136
Broken Shale & Clay	5	141
Black Shale	36	177

16 Remarks, Disinfection, Source of Grout, etc.
Replacement well
Was this a Replacement Well? Yes
Distance from Old Well: 5 ft.
Direction: E

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Licensed Business: Layne Northern Company, Inc. | License No. 0381
Address: 1701 E. Milham Kalamazoo
Signature of Licensed Representative: Robert A. Adkins | Date: 5-18-76

H015628

GEOLOGICAL SURVEY SAMPLE No. [ ]

WELL LOG 7

WATER WELL RECORD

ACT 294 PA 1965

OF PUBLIC HEALTH 23-1

1 LOCATION OF WELL

County	Twp.	Fraction	Section No.	Town	Range
WASHTENAW	Ypsilanti	SW¼ NW¼ SW¼	23	3 S	7 E

Distance And Direction from Road Intersections: SAME

OWNER No. [ ]

Street address & City of Well Location: SAME

3 OWNER OF WELL

Name: M. Taylor (Replacement)

Address: 5521 Tuttle Hills Ypsilanti

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Gravel Sand	11	11
Blue clay —	40	51
Blue clay - Gravel	19	70
Gray Sand	20	90
Fine water Gravel	10	100

4 WELL DEPTH: (completed) 100 ft. Date of Completion: Nov 11 19 [illegible]

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING Diam. 4 in. to 96 ft. Depth; ___ in. to ___ ft. Depth. Threaded ☐ Welded ☐ Height: Above/Below surface ___ ft. Weight ___ lb./ft. Drive Shoe? Yes ☐ No ☐

8 SCREEN: Type Stainless Dia.: 4" Slot/Gauge 18 Length 4' Set between 96 ft. and 100 ft. Fittings: Hemp packer - Plug

9 STATIC WATER LEVEL ___ ft. below land surface

10 PUMPING LEVEL below land surface 70 ft. after ___ hrs. pumping 100 g.p.m. ___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ___ Chlorides (Cl) ___ Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING: Well Grouted? ☒ Yes ☐ No Possibly known to contractor. Materials: ☐ Neat Cement ☐ ___ Depths: From ___ ft. to ___ ft.

14 SANITARY: Nearest Source of possible contamination 100 ft. East Direction Water Field Type. Well disinfected upon completion ☐ Yes ☐ No

15 PUMP: Manufacturer's Name Gould. Model Number WEH HP ___ Length of Drop Pipe 54 ft. capacity 100 G.P.M. Type: ☒ Submersible ☐ ___ ☐ Jet ☐ Reciprocating

ADDED [illegible]

CORRECTED TO: 3

AMENDMENT TO: [illegible]

16 Remarks, elevation, source of data, etc.: Replacement Well

17 WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

P.E. Wisecwell Pump Co. (REGISTERED BUSINESS NAME) 0358 (REGISTRATION NO.)

Address 115 Cambridge

Signature Richard Allen (AUTHORIZED REPRESENTATIVE) Date Nov 13, 19[illegible]

8070 10M 6-65

H015629

WELL LOG 8

24-3S-7E
Ypsilanti Twp. (Washtenaw Co.)

Adolph E. Povsek

Wabash Railroad Co. No. 1 — Permit No. 25462

Drilling Contractor: Muskegon Development Company (Cable)

Location: SE SE NE Section 24, T. 3S, R. 7E
330' from South and 330' from East line of quarter section

Elevation: 653.5 feet above sea level (RR fl.)

Record by: William Martek from incomplete samples; some formation tops from Schlumberger Gamma Ray-Neutron Log (Schj)

	Thickness (feet)	Depth (feet)	
PLEISTOCENE:			
Drift:			
"Drift"	97	(97)	Schj
MISSISSIPPIAN - DEVONIAN:			
Antrim:			
Shale, brown	38	135	Schj
DEVONIAN:			
Traverse Formation:			
Shale, gray	42	177	Schj
Traverse Limestone:			
Lime, gray (water @ 195')	50	227	
Shale, gray	23	250	
Lime, gray	13	263	
[illegible]	[illegible]	[illegible]	Schj
Lime, gray	-	-	
From Samples:			
Limestone, buff, fragmental and fine grained, very fossiliferous	10	375	
Limestone, buff, white to buff, fragmental, very fossiliferous, sparry and chalky in part	8	383	
Limestone, buff to brown, fragmental, very fossiliferous, dolomitic in part	6	389	
Limestone, buff, fragmental, very fossiliferous, very sparry in part; trace porosity (Pre-report Hole full water @ 399)	21	410	
Limestone, buff white to buff, fragmental, very fossiliferous, sparry in part (412 CTH = 418 SDH)	8	418	
Limestone, buff, fragmental, very fossiliferous, dolomitic, porous; trace dead black oil	21	439	
Limestone, buff and buff white, fragmental and finely crystalline, fossiliferous, dolomitic, porous; trace dead black oil	7	446	
Limestone, buff, as above; some Quart, white, granular and chalky, dolomitic	10	456	
Dolomite, buff, finely crystalline, fossiliferous and calcareous in part, porous (7 bailers water per hour @ 456')	9	465	
Dolomite, buff, coarse crystalline, very porous, sandy with clear quartz grains, fine to medium, rounded and frosted	24	489	Schj
	(232)		

H015630

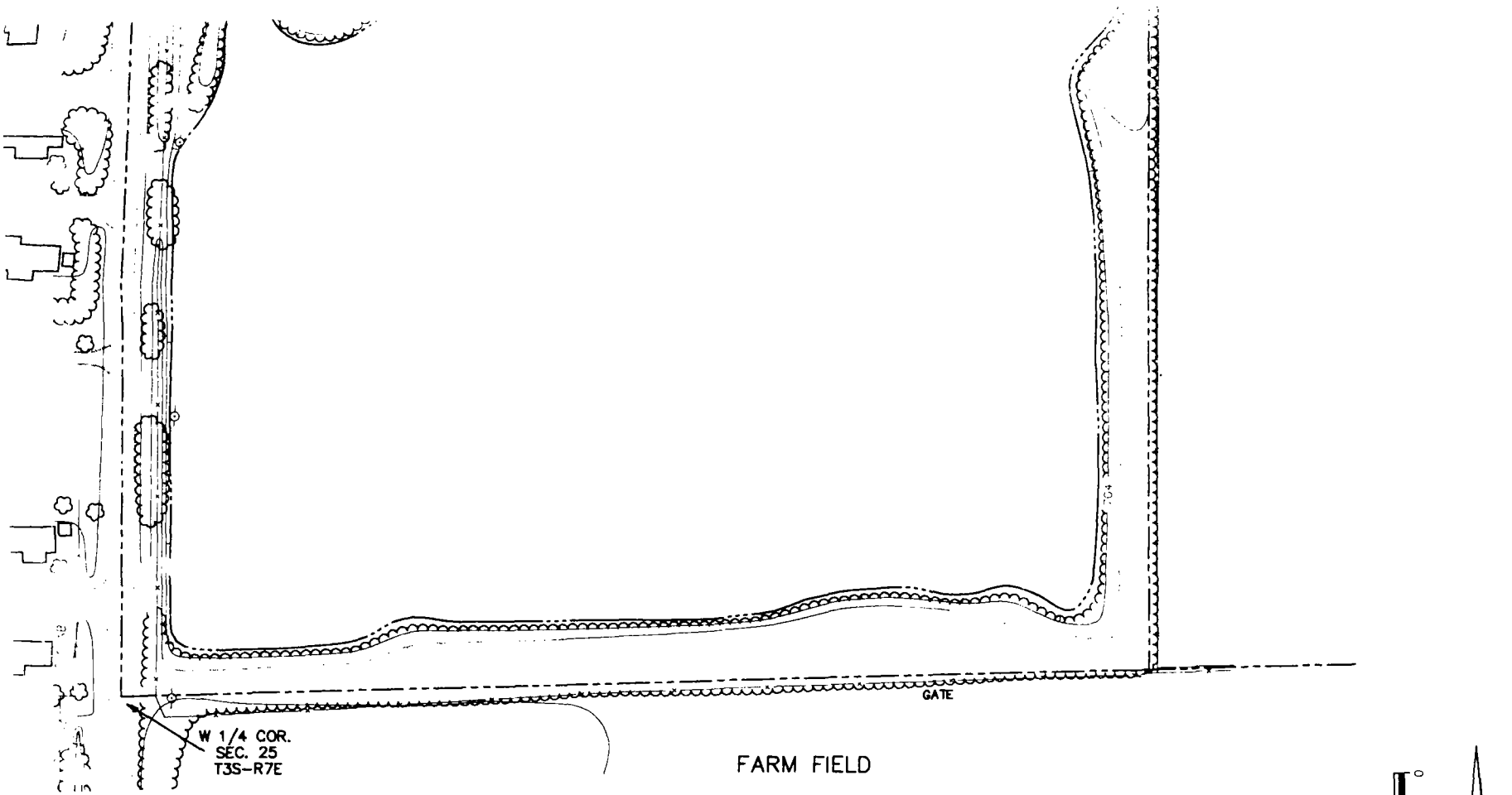
APPENDIX B

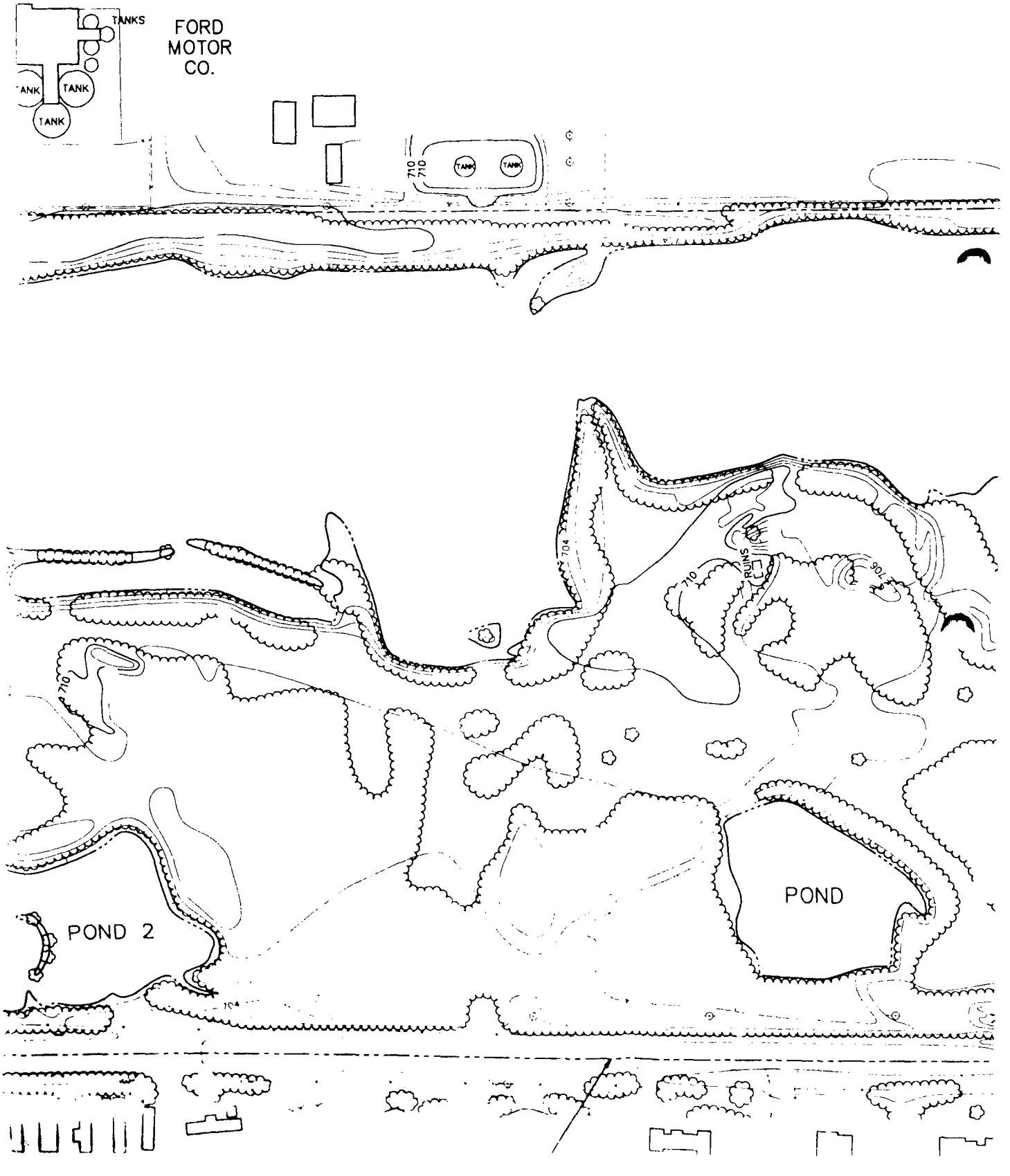
GEOTECHNICAL TESTING REPORT

GEOTECHNICAL TESTING REPORT
TEXTILE ROAD SITE
WASHTENAW COUNTY, MICHIGAN

FOR:
CONESTOGA-ROVERS & ASSOCIATES
WATERLOO, ONTARIO, CANADA

JOB NO. G047.006
JUNE, 1993


GATE
W 1/4 COR.
SEC. 25
T3S-R7E
FARM FIELD
0
50
100ft
N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FORD
MOTOR
CO.
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704
RUINS
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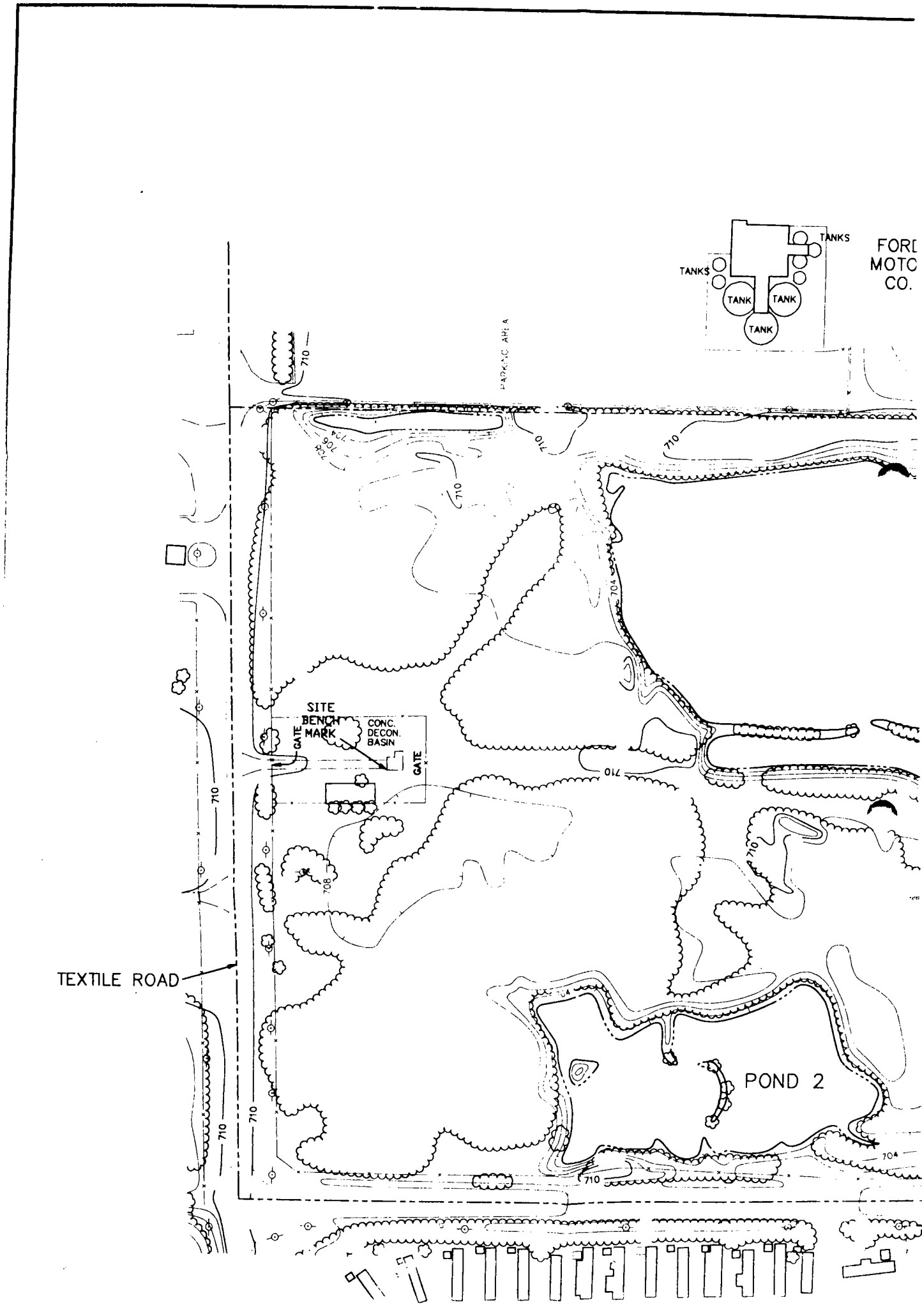
706
710
POND
POND 2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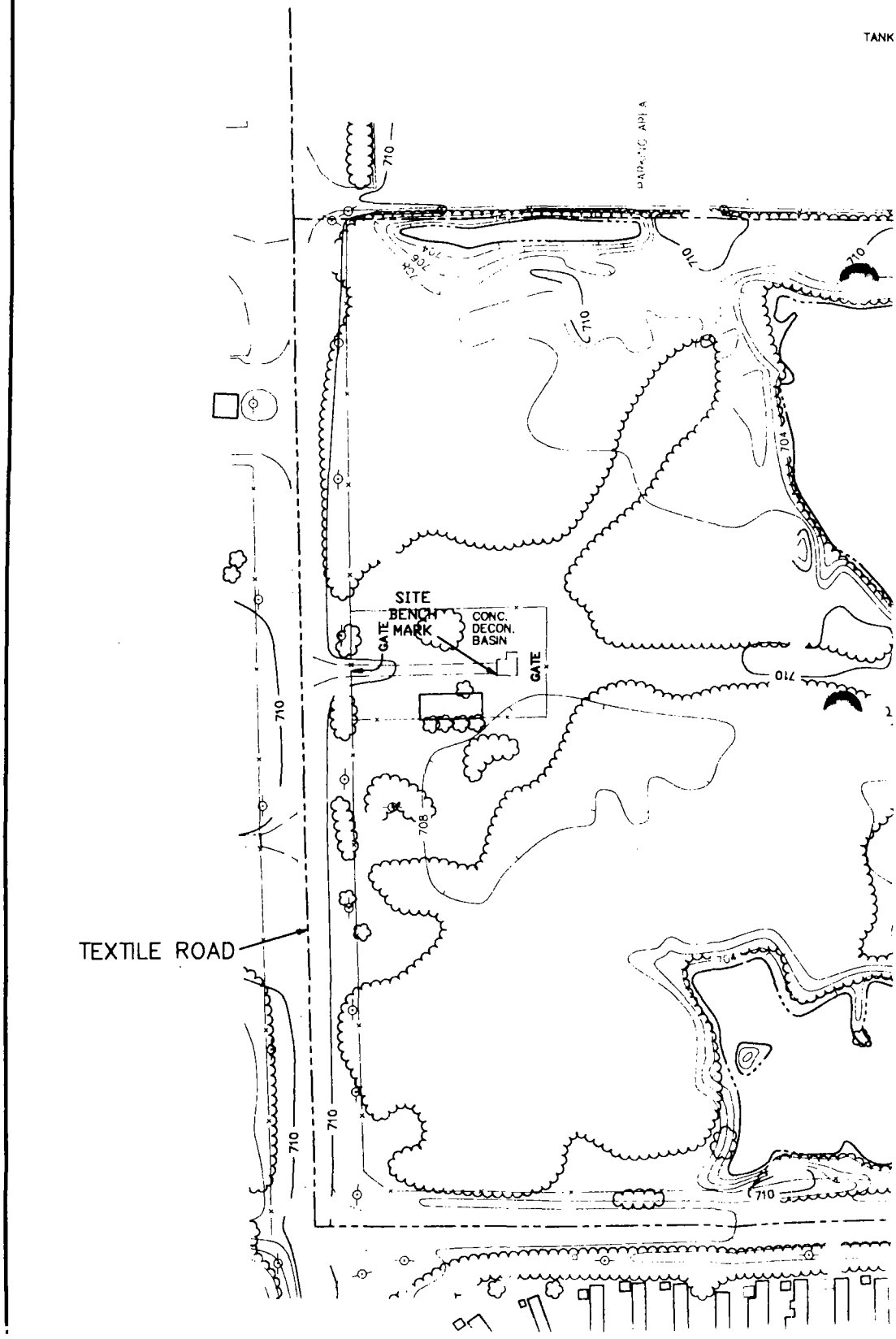
CONC.
DECON.
BASIN
GATE
GATE
TEXTILE ROAD
POND 2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708
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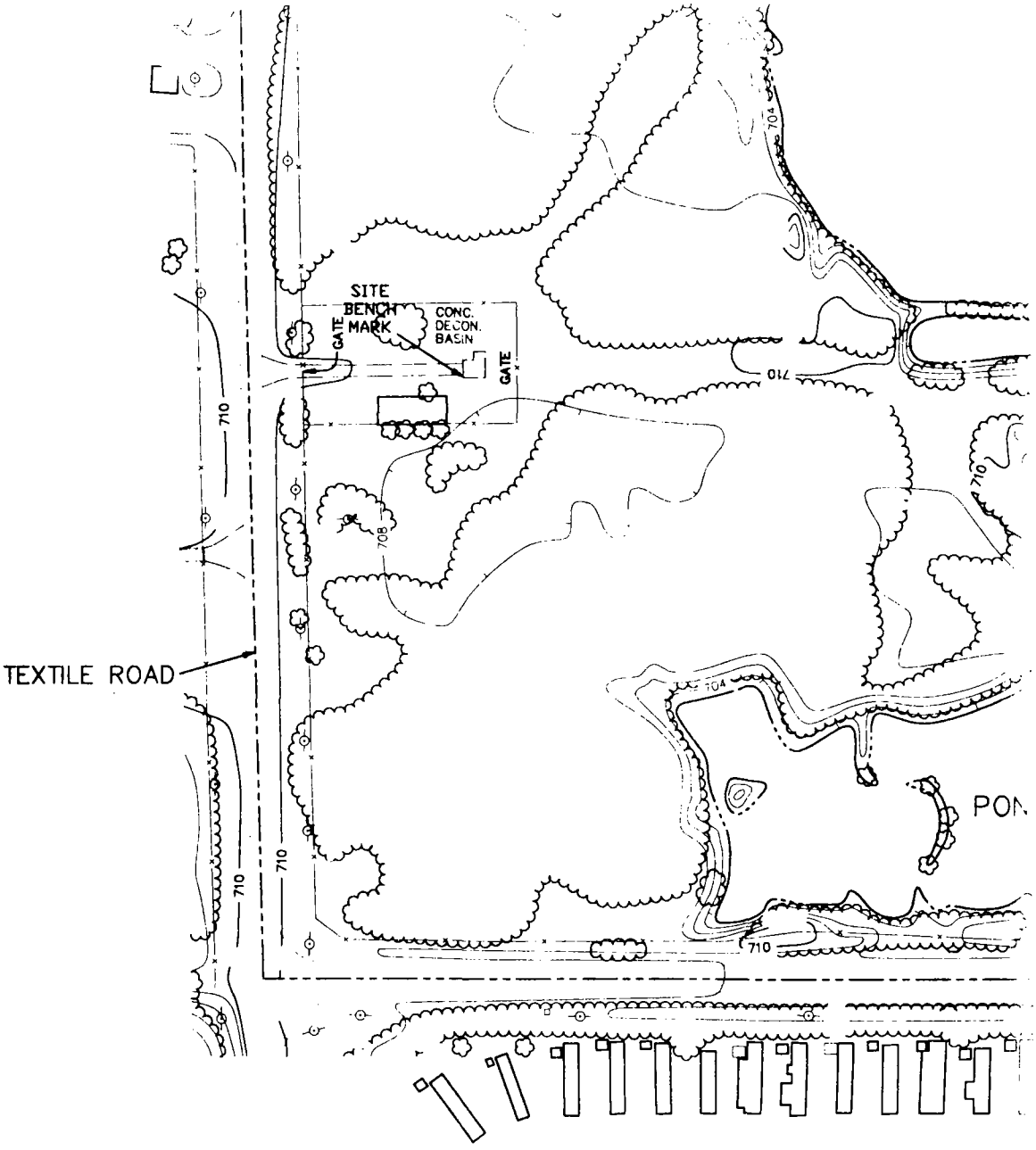
TEXTILE ROAD



LEGEND:

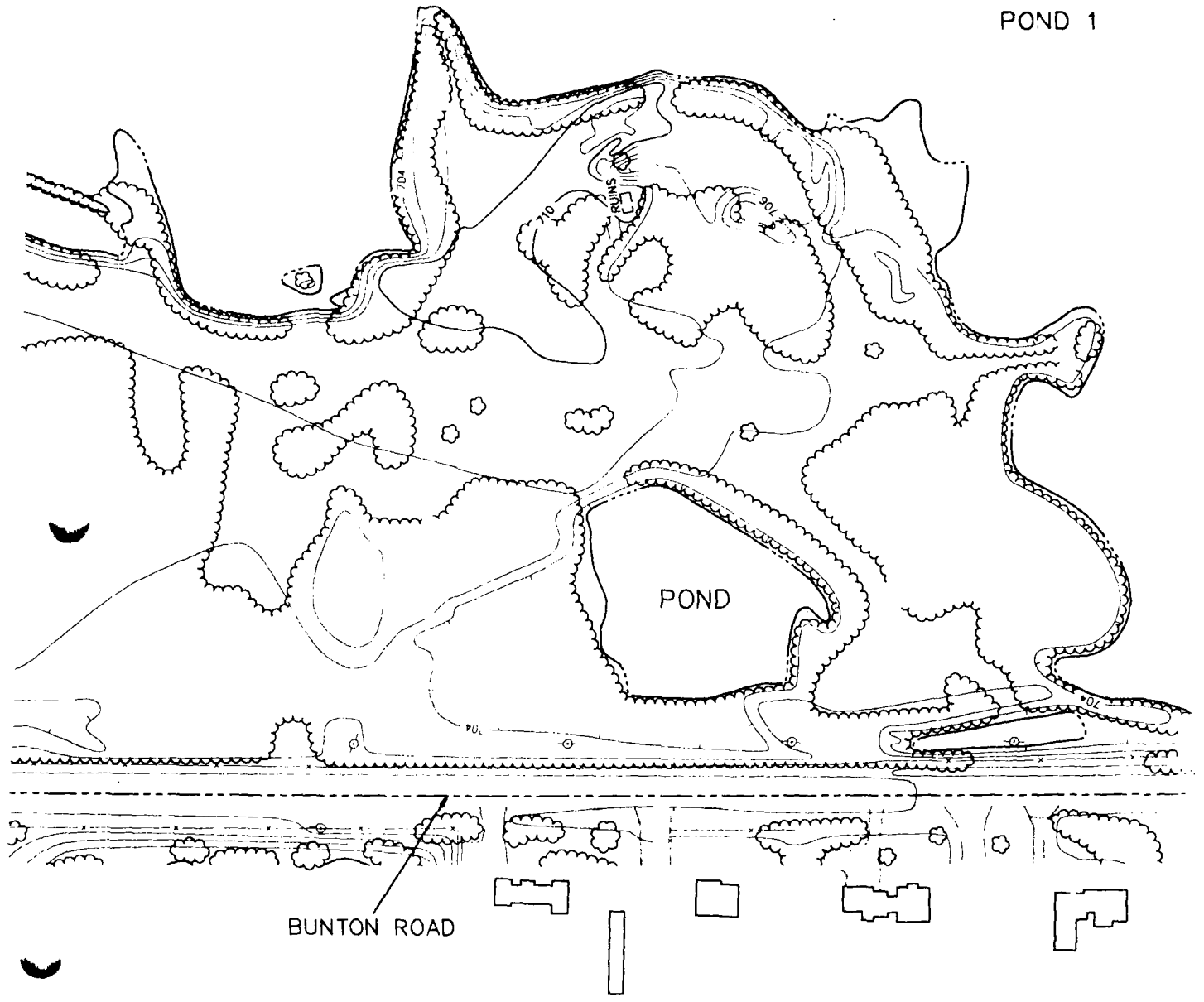
——— PROPERTY LINE

-⊙- LIGHT STANDARD

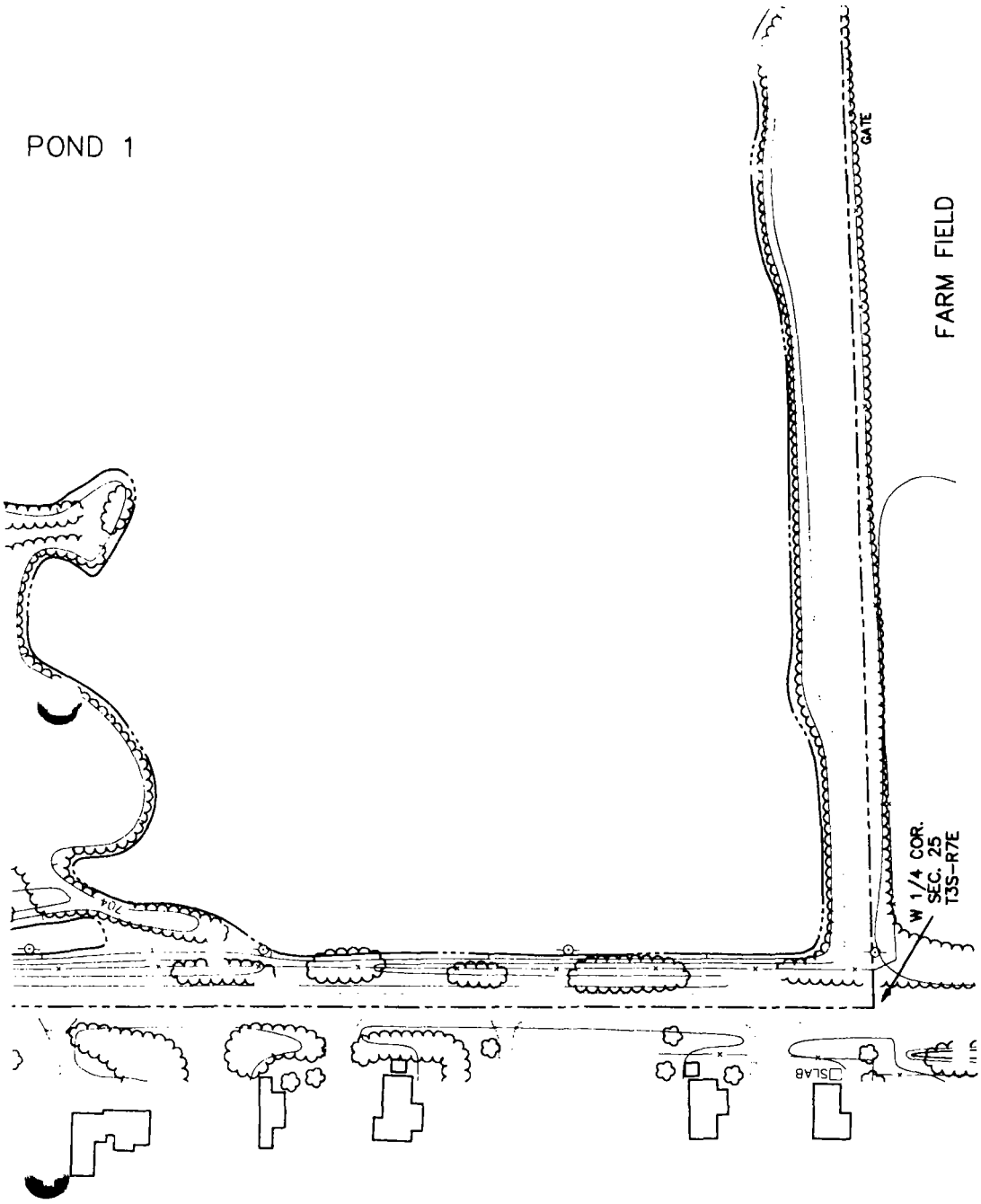
—710— EXISTING CONTOUR

ORIGINAL PLAN SURVEYED BY DARRELL D. HUGHES & ASSOCIATES, MAY 1993

POND 1

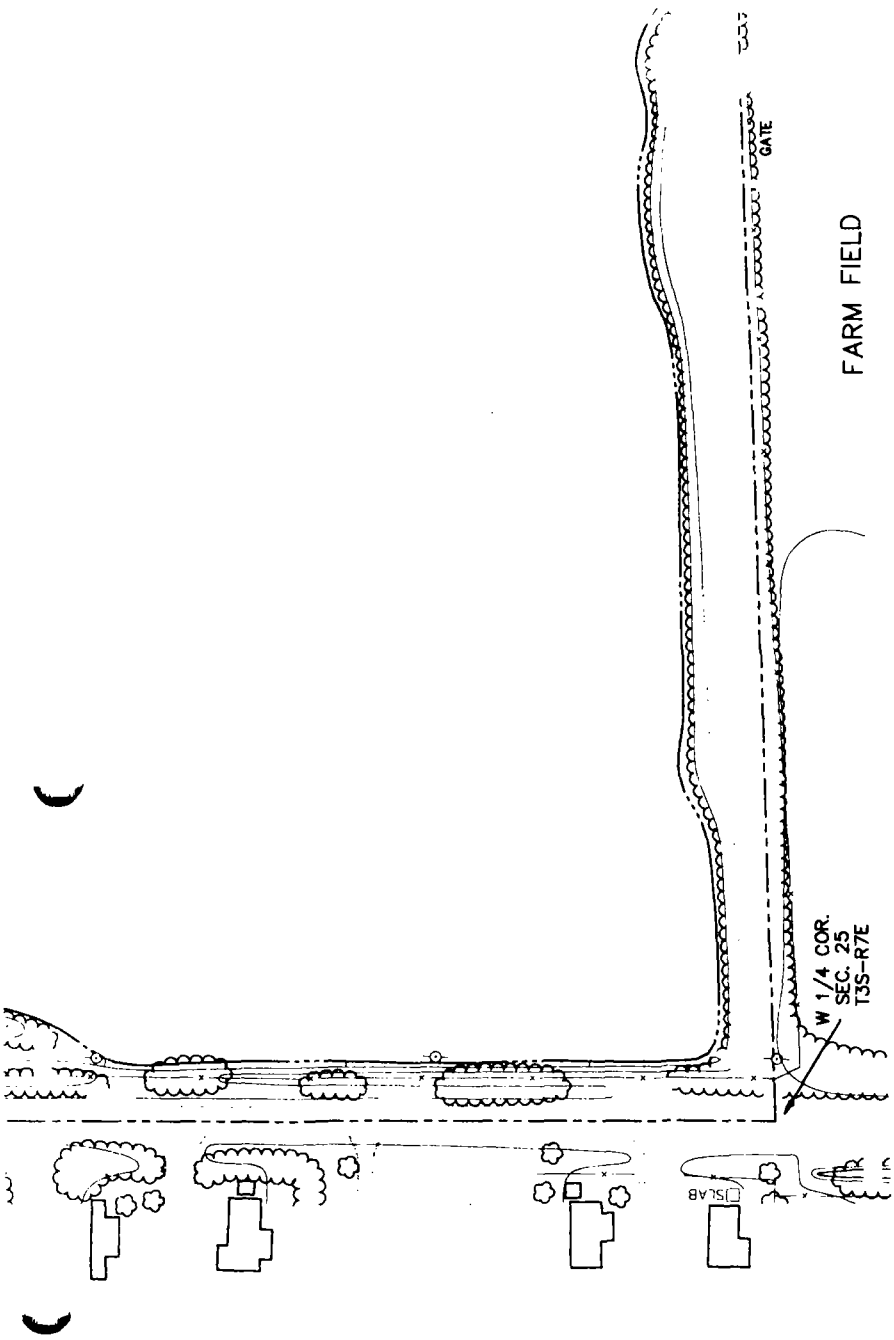


No	Revision	Date	Initial	Approved



TEXTILE ROAD SITE Washtenaw County, Michigan	**CRA** **CONESTOGA-ROVERS & ASSOCIATES**					
EOC REPORT	Drawn by: DCR	Scale: 1"=100'	Date: SEPEMBER 1993	File No: P-46	Rev No: 0	
SITE PLAN	Designed by: TG	Field book:	Project No: 4770	Drawing No: 1		
	Checked by: TG					

SEPT 28/93(W)



TEXTILE ROAD SITE
Washtenaw County, Michigan

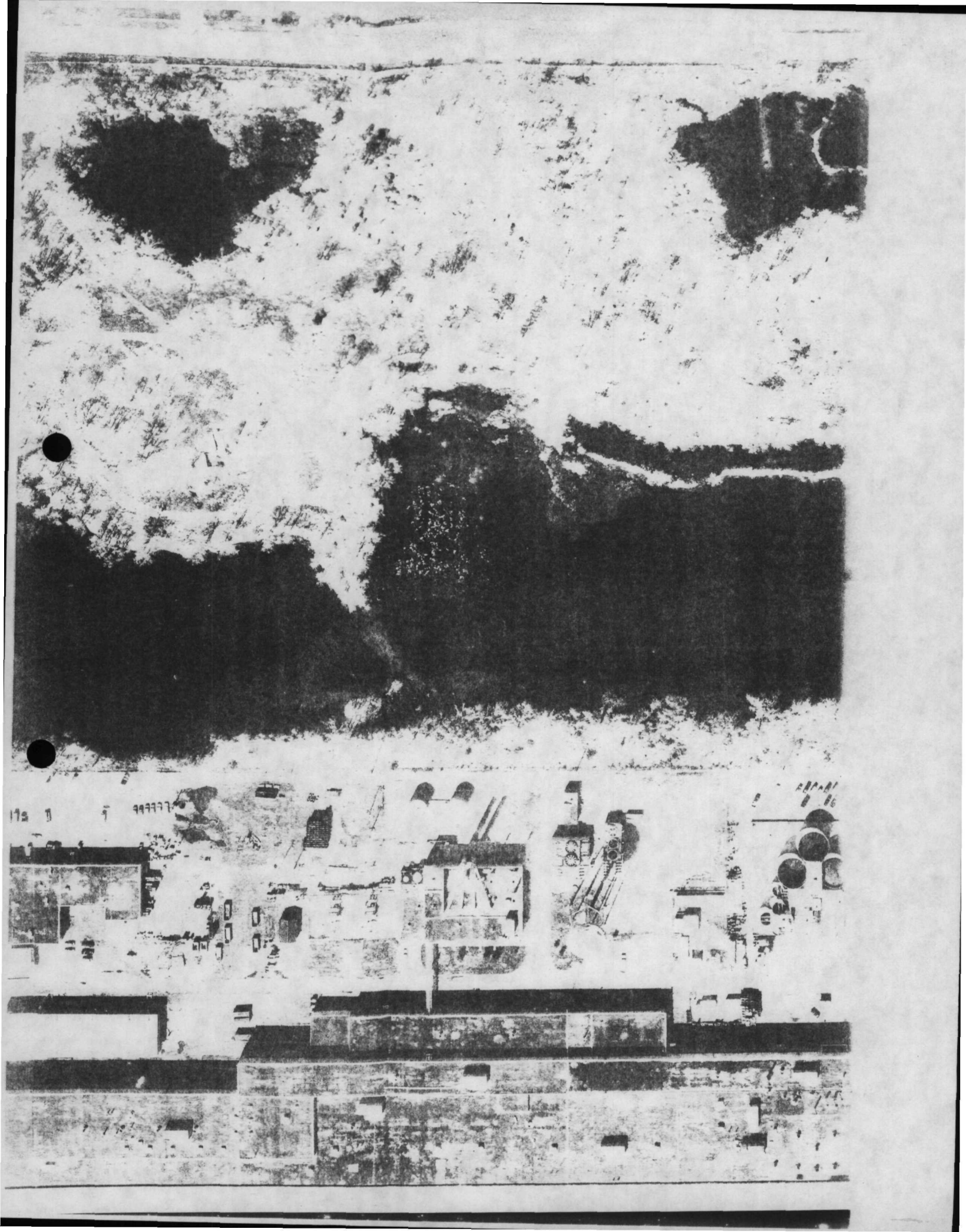
EOC REPORT

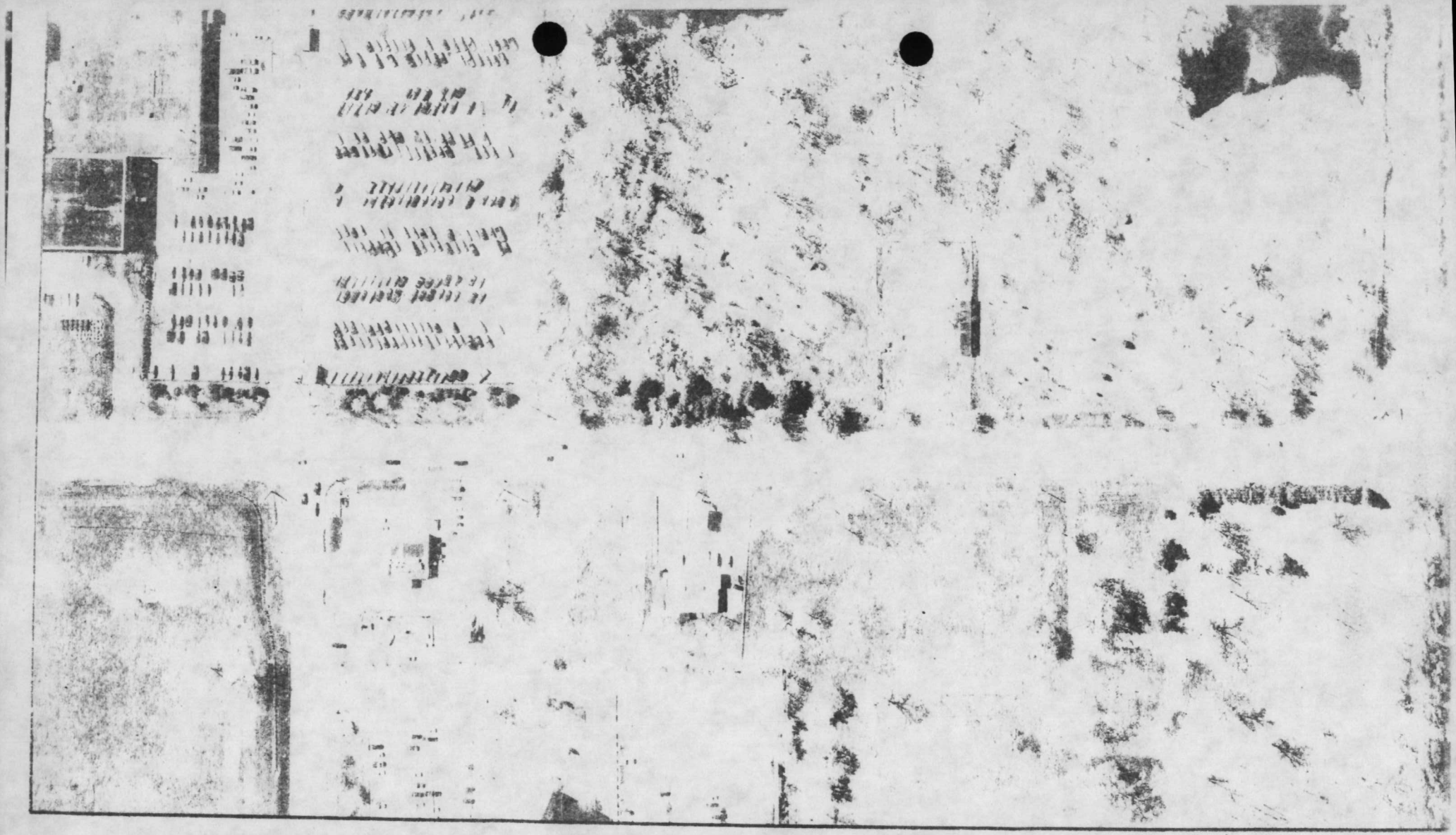
SITE PLAN

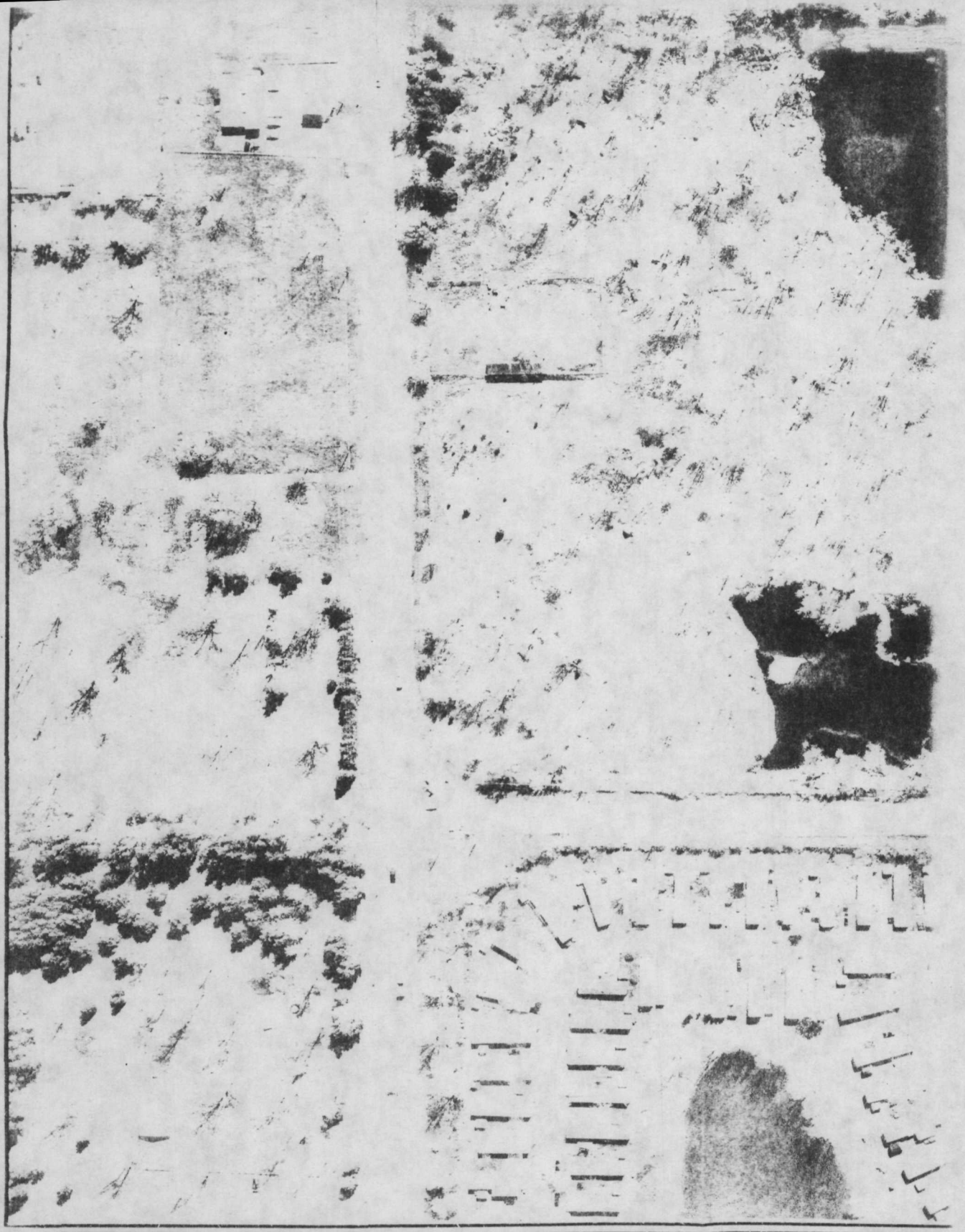
CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: DCR	Scale: 1"=100'	Date: SEPEMBER 1993	File №: P-46	Rev.№: 0
Designed by: TG				
Checked by: TG	Field book.	Project №: 4770	Drawing №: 1	

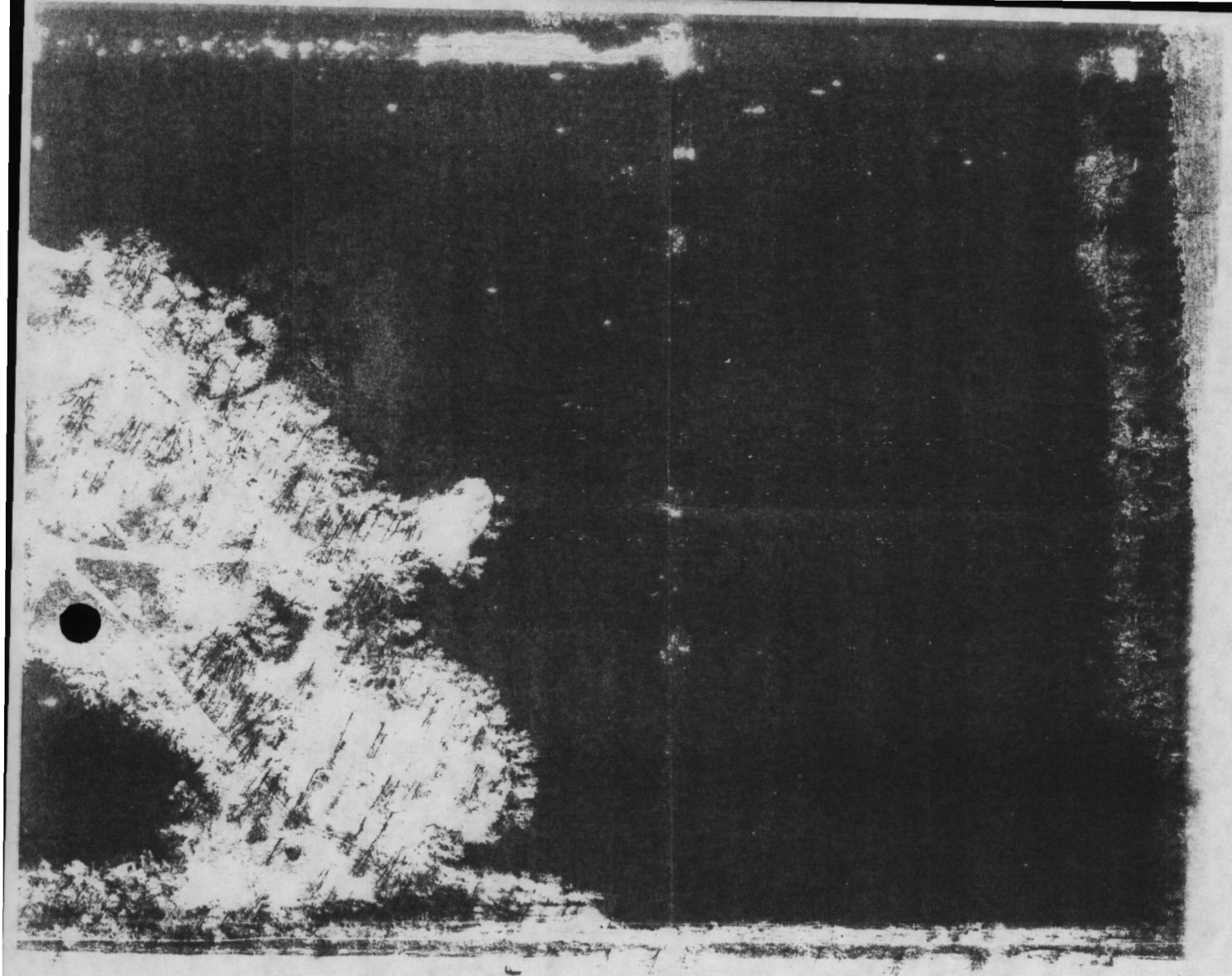
SEPT 28/93(W)

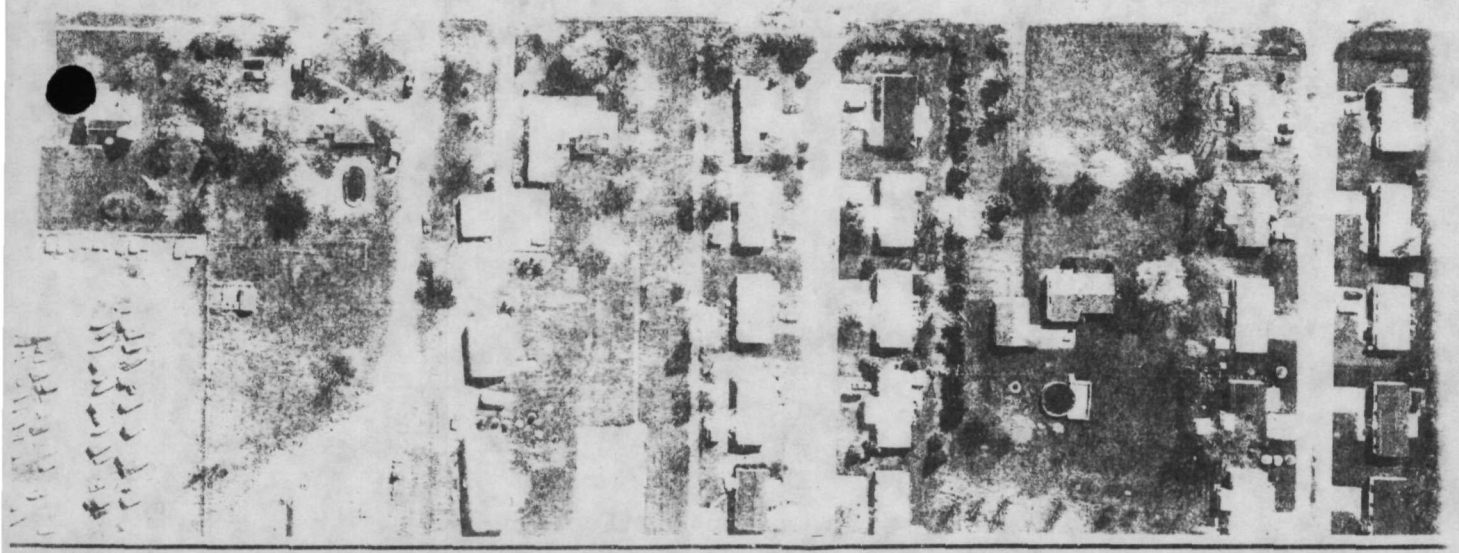






GEORGE DARRELL HUGHES & ASSOC.
MAY 1983



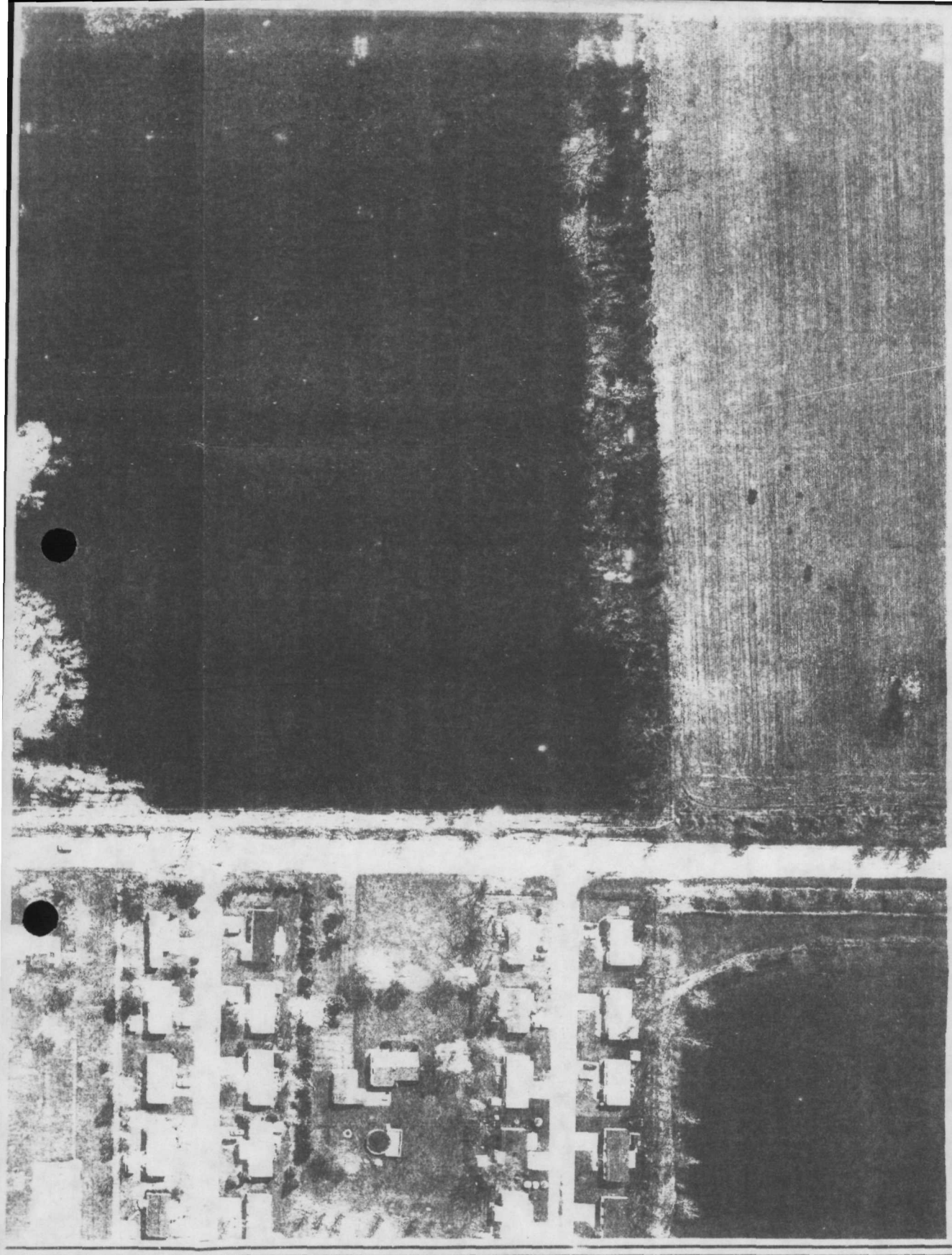


TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA
CONESTOGA-ROV

EOC REPORT

AERIAL PHOTOGRAPH



TEXTILE ROAD SITE
Washtenaw County, Michigan

CRA
CONESTOGA-ROVERS & ASSOCIATES LIMITED

EOC REPORT

AERIAL PHOTOGRAPH

	1" = 100'	OCTOBER 1983	
		4770	2