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Subject:

Aquatic Screening Evaluation, RACER Trust Saginaw Malleable Industrial Land,
Green Point Landfill, and Peninsula Property

ENVIRONMENT

Dear Ms. Armbruster:

Date:
February 8, 2017

This report summarizes the results of the aquatic screening evaluation for the RACER Trust properties including the Saginaw Malleable Industrial Land, Green Point Landfill and Peninsula Property in Saginaw, Michigan (site). The site consists of several water bodies including an approximately 17-acre former secondary settling pond, a half-acre storm water pond, several intermittent ditches, and associated wetlands (Figure 1).

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The objective of the aquatic screening evaluation is to supplement the 2003 ecological risk assessment (Exponent 2003) by evaluating the potential risks to aquatic receptors in onsite surface water bodies from constituents detected in surface water and sediment samples collected from the Trust properties in 2016.

Our ref:
B0064434.2017

CHARACTERIZATION OF CONSTITUENTS IN SURFACE WATER AND SEDIMENT

Historical surface water and sediment samples collected from the site in 1995 were analyzed for a full suite of analytes including metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/herbicides, and polychlorinated biphenyls (PCBs). Additional samples were collected in 2000 to assess ecological risk (Exponent 2003).

The 2003 ecological risk assessment report for the Malleable Iron Plant (Exponent 2003) evaluated risks to mammalian and avian populations using a food-web exposure modeling approach. The report concluded that constituent concentrations in onsite soil, sediment and surface water do not pose a significant risk to terrestrial and aquatic wildlife receptor populations that may exist at the site. The 2003 ecological risk assessment report did not evaluate risks to aquatic communities (e.g., fish, benthic invertebrates) within the onsite

man-made ditches and ponds, as they were considered part of the then operating facility, installed for water treatment and production water management purposes.

The man-made ditches and ponds ceased being used for water treatment and production water management in 2007. This change in use prompted the need for updated analytical data to provide an evaluation of potential ecological risk under current conditions at the site. In 2016, additional sediment and surface water samples were collected from the site and analyzed for select constituents that historically exhibited elevated concentrations or were of special concern (e.g., 1,4-dioxane) for human health:

- Surface water: copper, cyanide, mercury, thallium, zinc, 1,4-dioxane, bis(2-ethylhexyl) phthalate and phenanthrene
- Sediment: chromium III (trivalent), chromium VI (hexavalent), vanadium and polycyclic aromatic hydrocarbons (PAHs).

This aquatic screening evaluation evaluated the selected constituents listed above with the exception of vanadium and bis(2-ethylhexyl) phthalate which were analyzed for human health concerns and have never been an ecological concern at the site.

Attachment 1 presents the historical (1995 and 2000) and current (2016) surface water data for the site. The surface water sampling locations are shown on Figure 1. As seen in Tables A-1 and A-2, constituent concentrations in surface water have decreased significantly since 1995. Concentrations of cyanide, copper, and zinc at sample locations SW-01 (1-acre pond, located at the northeast corner of the site, north of the terminated landfill), SW-04 (storm water pond) and SW-05 (former secondary settling pond) fell from concentrations of concern in 1995 to non-detect in 2016. In the southern portion of the site, concentrations of mercury at SW-09 (ditch) and thallium at SW-32 (southern wetlands) have also decreased from 0.39 micrograms per liter (ug/L) and 7.7 ug/L, respectively to non-detect. The copper concentration at SW-29 (southern wetlands) has decreased from 13.7 ug/L in 2000 to 4.4 ug/L in 2016.

Due to detections in historical groundwater samples collected near the Green Point Landfill, 1,4-dioxane was analyzed at two surface water locations (SW-06 and SW-09) in 2016. The reported concentrations for these two samples are non-detect. In addition, phenanthrene which was detected at SW-04 in 1995 was not detected at this location in 2016.

Attachment 1 Tables A-3 and A-4 present the historical (1995 and 2000) and current (2016) sediment data for the site. The sediment sampling locations are shown on Figure 2. Sample locations SD-05, SD-07 and SD-09 (eastern ditch north of the former secondary settling pond) were dry during the October 2016 sampling event and the terrestrial vegetation present in the ditch indicates it rarely contains water. Therefore, this area is not considered viable aquatic habitat capable of supporting a benthic invertebrate community. Nevertheless, the sample results were evaluated and concentrations of chromium at these locations have decreased significantly since 1995 (e.g., at SD-05, the chromium concentration¹ decreased from 195 milligrams per kilogram (mg/kg) to 12 mg/kg in 2016).

¹ Chromium speciation data indicate the dominant species of chromium at the site is chromium III (trivalent).

Chromium III concentrations decreased significantly in the southern wetland at SD-39 and SD-62 (e.g., the chromium III concentration at SD-62 decreased from 119 mg/kg in 2000 to 3.9 mg/kg in 2016). Hexavalent chromium (Cr VI) was analyzed in 2016, however it was not detected in any sediment sample.

PAH concentrations stayed generally consistent from 1995 to 2016 in the former secondary settling pond. It has been well established that PAH toxicity is related to the amount of organic carbon in sediment, which governs the bioavailability of PAHs to benthic organisms (Swartz 1999; USEPA 2003, 2012). Total organic carbon (TOC) concentrations reported in the fourteen 2016 sediment samples range from 8,000 mg/kg (0.8%) at SD-39 (wetlands) to 54,000 mg/kg (5.4%) at SD-10 (former secondary settling pond). The geometric mean of the TOC data is 24,404 mg/kg (2.4%). TOC was not analyzed for in the historical sediment samples.

ECOLOGICAL EFFECTS EVALUATION AND RISK CHARACTERIZATION

The screening-level ecological effects evaluation involves the identification of screening ecotoxicity values for surface water and sediment. Ecotoxicity screening values (ESVs) are chemical concentrations in environmental media below which there is negligible risk to receptors exposed to those media (USEPA 2000).

Rule 57 Water Quality Values (Michigan Department of Environmental Quality [DEQ] 2016a) for the protection of aquatic life were used as ESVs for the initial screening of surface water constituents of potential ecological concern (COPECs). In the absence of DEQ sediment quality values, the U.S. Environmental Protection Agency (USEPA) Region 4 Ecological Screening Values for Freshwater Sediment (USEPA 2015) were used for the initial screening of sediment COPECs. If a Region 4 sediment ESV was not available, other sources were reviewed for appropriate screening values (e.g., USEPA Region 3 Biological Technical Assistance Group (BTAG) values, Los Alamos National Laboratory ECORISK Database (version 3.3), MacDonald et al., 2000, and available background values [Buchman 2008]).

It is important to recognize that these screening values do not constitute remediation goals, as they are sometimes based on highly conservative exposure assumptions and/or wildlife receptors that may not be applicable to a particular site. However, conservative benchmarks provide a starting point for a screening level ecological risk assessment in that they may provide an indication of the worst-case measure of the potential for adverse impacts.

Risks are calculated in this screening evaluation by dividing the exposure estimates (i.e., the maximum detected concentration or one-half the reporting limit for constituents that were not detected) by the conservative ESVs. The resulting ratio, the hazard quotient (HQ), is a surrogate for the assessment endpoint, which is the protection of aquatic plant and animal populations, communities, ecosystems, and sensitive habitats at the site. An HQ equal to or less than a value of 1 (to nearest whole number) indicates that adverse (or “ecologically significant”) impacts to ecological receptors are considered unlikely (USEPA 2015). HQs greater than 1 may indicate the need for further evaluation of the potential ecological risks posed by the site. One-half the maximum reporting limit for mercury in surface water and the maximum detected Total PAH concentration in sediment have HQs greater than 1 and require additional assessment, as discussed below. All remaining HQs are less than 1. Tables 1 and 2 present the HQs for surface water and sediment, respectively.

Mercury

Mercury was not detected in surface water during the 2016 sampling, however, one-half the reporting limit (i.e., 0.1 ug/L) exceeds the conservative ESV of 0.0013 ug/L which is based on the Rule 57 Wildlife Value (WV). WV values are protective of food chain effects in conservative upper trophic level piscivorous wildlife receptors (e.g., mink, bald eagle).

However, based on the following factors it is unlikely that piscivores could obtain a significant portion of their diet from the site:

- any fish or aquatic invertebrate community that exists in the man-made onsite water bodies is a result of colonization by opportunistic species (Exponent 2003),
- the intermittent absence of water in some of the surface water features at the site prevents the establishment and maintenance of a fish community, and
- more favorable habitat with a perennial supply of fish is available adjacent to the site (i.e., Saginaw River).

Additionally, the 2003 ecological risk assessment (Exponent 2003) concluded that constituents in surface water and sediment do not pose a significant risk to the maintenance of piscivorous bird populations or omnivorous mammal populations. Therefore, the Final Chronic Value (FCV), which is protective of aquatic life (i.e., fish and benthic invertebrates), is a more appropriate ESV for the site. The FCV for mercury is 0.77 ug/L, which is well above 0.1 ug/L. Mercury was only detected historically in one of 26 surface water samples (1/26=3.8% frequency of detection) at location SW-09, but it was not detected in 2016 at the resampled location (SW-09). Additionally, the 2016 sample had a reporting limit of 0.2 ug/L and a method detection limit of 0.09 ug/L which are less than the FCV of 0.77 ug/L. Based on these considerations, mercury is unlikely to represent an exposure concern for aquatic ecological receptors at the site.

PAHs

Since PAHs usually occur as mixtures in the environment, a common way to evaluate them is as a total concentration. The Total PAH concentration for each sample was calculated by summing the detected PAH concentrations and one-half the reporting limits of the individual PAHs that were not detected. This conservative approach is consistent with DEQ guidance (DEQ 2016b). The maximum calculated Total PAH concentration in sediment (19,860 ug/kg) resulted in a HQ of 10 (Table 2). This maximum concentration is less than the Total PAH concentration reported at the same location (SD-10) in 1995 (35,800 ug/kg) (Attachment 1).

The HQ of 10 was derived using a conservative screening value based on a consensus-based threshold effect concentration (TEC; Macdonald et al., 2000) and the maximum calculated concentration of 19,860 ug/kg. Probable effect values (e.g., consensus-based probable effect concentrations [PECs]; MacDonald et al., 2000) are often used to derive a more realistic assessment of the potential for adverse effects than threshold effect values. Generally speaking, adverse effects are considered to be possible, though not likely, at concentrations between the threshold and probable effect values. Adverse effects are probable (i.e. more likely than not) at concentrations greater than the probable effect values. The HQ based on the consensus-based PEC for Total PAHs (22,800 ug/kg; Macdonald et al., 2000) and the maximum detected concentration is less than 1.

A second line of evidence to determine the likelihood of sediment toxicity due to PAHs is assessed according to the USEPA's sediment guidelines for PAH mixtures (USEPA 2003) and the methods presented in Di Toro et al. (2000a,b). These guidelines incorporate FCVs for individual PAHs, which are used to assess the cumulative toxicity of mixtures. The FCVs are derived using the equilibrium partitioning (EqP) approach and have been validated using spiked sediment toxicity studies and evaluations of sediment toxicity at sites contaminated with PAHs (USEPA 2003, Di Toro et al. 2000a).

The FCVs are applied to PAH mixtures through the calculation of toxic unit (TU) values. For example, the TU for a PAH mixture is calculated as the sum of each PAH concentration divided by the respective FCV:

$$TU = \frac{[PAH_1]}{FCV_1} + \frac{[PAH_2]}{FCV_2} + \dots + \frac{[PAH_n]}{FCV_n}.$$

TUs were calculated for the five sediment samples collected from the former secondary settling pond that historically reported elevated PAH concentrations in sediment. Toxicity is considered possible if the TU for a PAH mixture exceeds 1 (USEPA 2003). Since the USEPA's sediment quality guidelines are designed to be applied to approximately 40 PAHs, including alkylated PAHs, a default uncertainty factor (UF) was applied to the smaller subsets available for the former secondary settling pond in the absence of site-specific data for alkylated PAHs (USEPA 2003). After applying a UF of 4.14 (95 percentile for adjusting from 23 to 34 PAHs), the calculated TUs range from 1 to 3 (Table 3).

The TUs that exceed 1 are only slightly above 1 and therefore the potential effects at these locations is expected to be limited, if any. Based on the aquatic toxicity data compiled by the USEPA (2003), these results correspond to potential chronic effects on only the most sensitive benthic species. Given the limited spatial extent and low potential for adverse effects, it is unlikely that if present, any benthic invertebrate community would be adversely affected by PAHs in pond sediment.

CONCLUSIONS

This aquatic screening evaluation was conducted to supplement the 2003 ecological risk assessment (Exponent 2003) by evaluating the potential risks to aquatic receptors in onsite surface water bodies. The 2003 ecological risk assessment report (Exponent 2003) prepared for the Malleable Iron Plant concluded that the concentrations observed at the site were not likely to result in significant incremental risk to avian and mammalian receptor populations. The man-made ditches and ponds ceased being used for water treatment and production water management in 2007. This change in use prompted the need for updated analytical data to provide an evaluation of potential ecological risk to aquatic communities under current conditions at the site. Sediment and surface water samples were collected in 2016 and evaluated. Based on the significant decrease of constituent concentrations observed in 1995 and 2000 to those reported in 2016, the overall analysis of direct contact HQs for current surface water and sediment exposures, and the TU analysis of PAHs, adverse impacts are considered unlikely for aquatic life and sediment dwelling organisms that may occur in the ditches and ponds at the site.

Please contact me at 810-225-1921 if you have any questions regarding the enclosed report or its attachments.

Sincerely,

Arcadis of Michigan, LLC



Scott Clearwater
Certified Project Manager

Enclosures:

Tables

- 1 Constituents of Potential Ecological Concern in Surface Water
- 2 Constituents of Potential Ecological Concern in Sediment
- 3 Evaluation of Polycyclic Aromatic Hydrocarbons in Sediment

Figures

- 1 Site Layout Map with Surface Water Sampling Locations
- 2 Sediment Sample Location Map

Attachments

- 1 Analytical Data Summary Tables
 - A-1 Surface Water Analytical Data
 - A-2 Surface Water Analytical Data
 - A-3 Sediment Analytical Data Inorganic Constituents
 - A-4 Organic Compound Sediment Analytical Data
- 2 References

TABLES



Table 1
Constituents of Potential Ecological Concern in Surface Water
Aquatic Screening Evaluation
RACER Trust Saginaw Malleable Industrial Land and Green Point Landfill
Saginaw, Michigan

Constituent	Frequency of Detection	Maximum Concentration (ug/L)	Ecological Screening Value (ESVs) [a] (ug/L)		Maximum HQ [b] (unitless)	Screening Level Constituent of Potential Ecological Concern? [b]	
			Value	Source		(YES/no)	Rationale
Volatile Organic Compounds							
1,4-Dioxane	0 - 2 0%	1	22,000	Rule 57 FCV	0.00005	no	HQ < 1
Semi Volatile Organic Compounds							
bis(2-Ethylhexyl)phthalate	0 - 2 0%	2.45	285	Rule 57 FAV	0.009	no	HQ < 1
Phenanthrene	0 - 1 0%	0.095	1.7	Rule 57 FCV	0.06	no	HQ < 1
Inorganics							
Copper	1 - 2 50%	4.4	14	Rule 57 FCV	0.3	no	HQ < 1
Cyanide, Total	0 - 1 0%	0.005	5.2	Rule 57 FCV	0.001	no	HQ < 1
Mercury	0 - 1 0%	0.1	0.0013	Rule 57 WV	80	see text	1/2 RL > 1
Thallium	0 - 1 0%	5	7.2	Rule 57 FCV	0.7	no	HQ < 1
Zinc	1 - 4 25%	32	185	Rule 57 FCV	0.2	no	HQ < 1

Notes:

mg/L Milligrams per liter.

RL Reporting limit.

[a] Rule 57 Water Quality Values, FCV = Final Chronic Value; FAV = Final Acute Value; WV= Wildlife Value (Michigan DEQ). Hardness dependent ESVs are based on a hardness of 170 mg/L.

[b] Constituents with a hazard quotient (HQ) greater than 1 (HQ > 1) were considered constituents of potential ecological concern (COPECs) for screening level assessment.

Table 2
Constituents of Potential Ecological Concern in Sediment
Aquatic Screening Evaluation
RACER Trust Saginaw Malleable Industrial Land and Green Point Landfill
Saginaw, Michigan

Constituent	Frequency of Detection		Maximum Concentration (ug/kg)	Ecological Screening Value (ESVs) [a]		Maximum HQ [b] (unitless)	Screening Level			
				(ug/kg)	Source		Constituent of Potential Ecological Concern? [c]			
							Value	Source	(YES/no)	Rationale
Inorganics										
Chromium	5	- 5	100%	19,000	43,400	R4	0.4	no	HQ < 1	
Chromium (as CrVI)	0	- 5	0%	2,550	43,400	R4	0.06	no	HQ < 1	
Vanadium	4	- 4	100%	27,000	50,000	NOAA	0.5	no	HQ < 1	
Semi Volatile Organic Compounds										
Acenaphthene	3	- 5	60%	270	see Total PAHs					
Acenaphthylene	0	- 5	0%	ND	see Total PAHs					
Anthracene	4	- 5	80%	500	see Total PAHs					
Benzo(a)anthracene	4	- 5	80%	620	see Total PAHs					
Benzo(a)pyrene	4	- 5	80%	360	see Total PAHs					
Benzo(b)fluoranthene	4	- 5	80%	490	see Total PAHs					
Benzo(g,h,i)perylene	4	- 5	80%	500	see Total PAHs					
Benzo(k)fluoranthene	2	- 5	40%	160	see Total PAHs					
Chrysene	4	- 5	80%	600	see Total PAHs					
Dibenz(a,h)anthracene	0	- 5	0%	ND	see Total PAHs					
Fluoranthene	5	- 5	100%	960	see Total PAHs					
Fluorene	5	- 5	100%	800	see Total PAHs					
Indeno(1,2,3-cd)pyrene	2	- 5	40%	200	see Total PAHs					
Naphthalene	5	- 5	100%	4,500	see Total PAHs					
Phenanthrene	5	- 5	100%	3,200	see Total PAHs					
Pyrene	5	- 5	100%	1,400	see Total PAHs					
2-Methylnaphthalene	5	- 5	100%	5,400	see Total PAHs					
Total PAHs	5	- 5	100%	19,860	[d]	1,610	R4	10	YES	HQ > 1

Notes:

ug/kg Micrograms per kilogram.

ND Not detected.

[a] Ecological sediment screening levels were from:
USEPA Region 4 Ecological Screening Values (USEPA 2015; R4).

The vanadium screening level is a background concentration for freshwater sediment from the NOAA Screening Quick Reference Tables (Buchman 2008).

[b] The maximum hazard quotient (HQ) is the ratio of the maximum constituent concentration to the screening level. HQs are rounded to one significant figure.

[c] Constituents with a hazard quotient (HQ) greater than 1 (HQ > 1) were considered constituents of potential ecological concern (COPECs) for screening level assessment.

[d] Total PAH concentration was calculated using one-half the reporting limit for non-detects.

Table 3
Evaluation of Polycyclic Aromatic Hydrocarbons in Sediment
Aquatic Screening Evaluation
RACER Trust Saginaw Malleable Industrial Land and Green Point Landfill
Saginaw, Michigan

Constituent	Final Chronic Value ^a (µg/goc)	SD-10			SD-13			SD-14			SD-18			SD-21		
		5.4% Organic Carbon		Toxic Units ^b	2.3% Organic Carbon		Toxic Units ^b	4.6% Organic Carbon		Toxic Units ^b	4.9% Organic Carbon		Toxic Units ^b	4.4% Organic Carbon		Toxic Units ^b
		PAH Concentration (µg/dry kg)	(µg/goc)		PAH Concentration (µg/dry kg)	(µg/goc)		PAH Concentration (µg/dry kg)	(µg/goc)		PAH Concentration (µg/dry kg)	(µg/goc)		PAH Concentration (µg/dry kg)	(µg/goc)	
<u>Unsubstituted PAHs</u>																
Acenaphthene	491	270	5	0.01	<190	4.13	0.008	110	2.39	0.005	180	3.67	0.007	<560	6.36	0.01
Acenaphthylene	452	<240	2.22	0.005	<190	4.13	0.009	<190	2.07	0.005	<44	0.4	0.0009	<560	6.36	0.01
Anthracene	594	500	9.26	0.02	<190	4.13	0.007	230	5	0.008	210	4.29	0.007	460	10.5	0.02
Benz(a)anthracene	841	620	11.5	0.01	220	9.57	0.01	360	7.83	0.009	170	3.47	0.004	<560	6.36	0.008
Benzo(a)pyrene	965	360	6.67	0.007	230	10	0.01	200	4.35	0.005	140	2.86	0.003	<560	6.36	0.007
Benzo(b)fluoranthene	979	490	9.07	0.009	430	18.7	0.02	260	5.65	0.006	200	4.08	0.004	<560	6.36	0.006
Benzo(e)pyrene	967	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	1095	500	9.26	0.008	210	9.13	0.008	280	6.09	0.006	180	3.67	0.003	<560	6.36	0.006
Benzo(k)fluoranthene	981	<240	2.22	0.002	160	6.96	0.007	<190	2.07	0.002	79	1.61	0.002	<560	6.36	0.006
Chrysene	844	600	11.1	0.01	220	9.57	0.01	310	6.74	0.008	330	6.73	0.008	<560	6.36	0.008
Dibenz(a,h)anthracene	1123	<240	2.22	0.002	<190	4.13	0.004	<190	2.07	0.002	<44	0.4	0.0004	<560	6.36	0.006
Fluoranthene	707	960	17.8	0.03	400	17.4	0.02	540	11.7	0.02	430	8.78	0.01	930	21.1	0.03
Fluorene	538	800	14.8	0.03	150	6.52	0.01	380	8.26	0.02	470	9.59	0.02	370	8.41	0.02
Indeno(1,2,3-cd)pyrene	1115	200	3.7	0.003	<190	4.13	0.004	<190	2.07	0.002	81	1.65	0.001	<560	6.36	0.006
Naphthalene	385	4500	83.3	0.2	1200	52.2	0.1	2500	54.3	0.1	2400	49	0.1	2600	59.1	0.2
Perylene	967	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	596	3200	59.3	0.1	780	33.9	0.06	1500	32.6	0.05	1700	34.7	0.06	1800	40.9	0.07
Pyrene	697	1100	20.4	0.03	400	17.4	0.02	590	12.8	0.02	440	8.98	0.01	1400	31.8	0.05
<u>Alkylated PAHs</u>																
2-Methylnaphthalene	447	5400	100	0.2	1300	56.5	0.1	3100	67.4	0.2	3200	65.3	0.1	2300	52.3	0.1
Total Toxic Units ^c				0.7				0.5						0.6		
Final Total Toxic Units ^d				3				2						2		

Acronyms and Abbreviations:

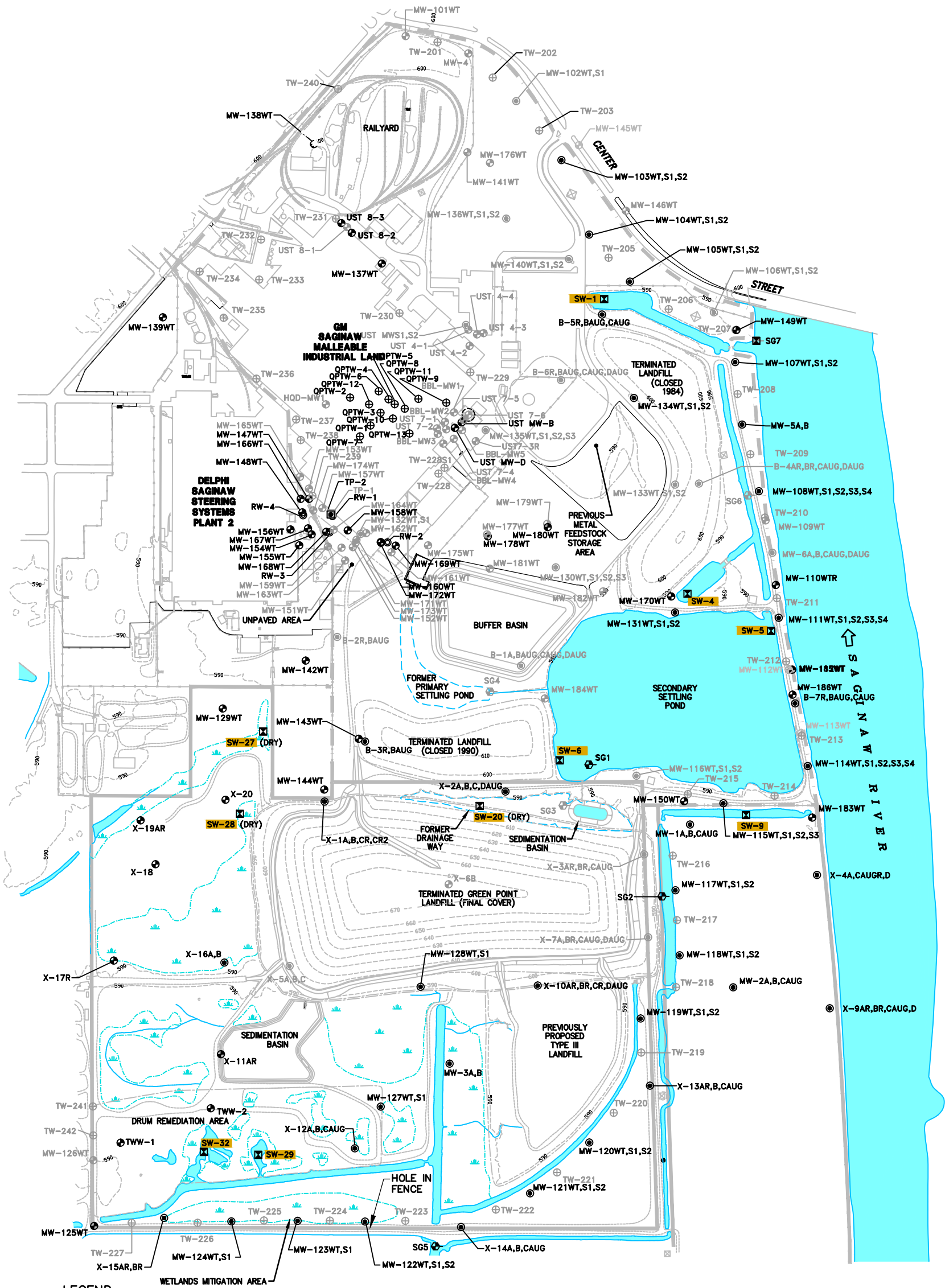
NA	Not available or applicable.
PAHs	Polycyclic aromatic hydrocarbons.
µg/kg	Micrograms per kilogram.
µg/goc	Micrograms per gram organic carbon.
< #	Constituent not detected at the reporting limit indicated.

Footnotes:

^a	From USEPA 2003.
^b	A constituent specific toxic unit is the concentration divided by the final chronic value. A cumulative toxic unit value exceeding 1.0 indicates the potential for toxicity to benthic organisms.
^c	For nondetects, 1/2 the reporting limit was used as a proxy concentration.
^d	The sample toxic unit was adjusted with an uncertainty factor (UF; 4.14) to estimate the final total toxic unit. The UF was used because the toxic unit approach is based on 34 PAHs, however data for only 17 were available. The UF used was the 95 percentile recommended UF for adjusting from 23 PAHs to 34.

FIGURES



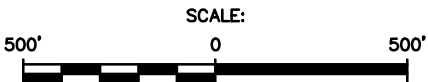


LEGEND

- SAGINAW MALLEABLE INDUSTRIAL LAND PROPERTY LINE (APPROX.)
- GREEN POINT LANDFILL PROPERTY LINE (APPROX.)
- UNPAVED ROAD
- GROUND SURFACE ELEVATION CONTOUR (10 FT INTERVAL)
- FENCE LINE
- SWAMPY AREA
- MW-4 MONITORING WELL
- MW-102WT,S1 MONITORING WELL CLUSTER
- SG5 STAFF GAGE
- TW-203 TEMPORARY MONITORING WELL
- TP-2 PIEZOMETER
- RW-4 RECOVERY WELL
- SW-1 SURFACE WATER SAMPLE
- X-6 ABANDONED MONITORING WELL
- SG3 ABANDONED STAFF GAGE
- SURFACE WATER SAMPLE LOCATION

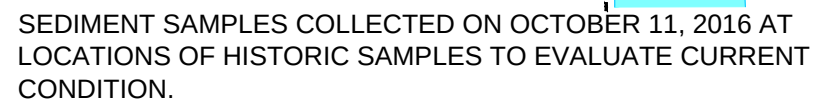
GROUNDWATER SAMPLES COLLECTED ON OCTOBER 13, 2016 AND SURFACE WATER COLLECTED ON OCTOBER 10, 2016 AT OR DOWN-GRADIENT OF AREAS WITH HISTORIC DETECTIONS AND OR EXCEEDANCES THAT WERE IDENTIFIED IN THE WORK PLAN TO BE RE-EVALUATED.

ANALYTICAL RESULTS FROM THIS INVESTIGATION FOR GROUNDWATER AND SURFACE WATER WERE BELOW PART 201 2013 AND PROPOSED 2016 GROUNDWATER SURFACE WATER INTERFACE CRITERIA.



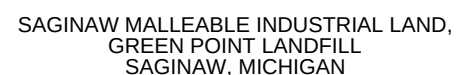
SAGINAW MALLEABLE INDUSTRIAL LAND,
GREEN POINT LANDFILL
SAGINAW, MICHIGAN

SITE LAYOUT WITH SURFACE WATER
SAMPLE LOCATIONS



ANALYTICAL RESULTS INDICATE CONCENTRATIONS WERE NOT DETECTED ABOVE NON-RESIDENTIAL PART 201 2013 OR PROPOSED 2016 DIRECT CONTACT (DC), PARTICULATE SOIL INHALATION CRITERIA (PSIC), OR GSI.

VANADIUM WAS DETECTED ABOVE THE PROPOSED 2016 RESIDENTIAL DC IN SAMPLES SD-28, SD-32, SD-33, AND SD-64, BUT NOT ABOVE THE CURRENT 2013 RESIDENTIAL DC.



SEDIMENT SAMPLE LOCATION MAP

ATTACHMENT 1

Analytical Data Summary Tables



TABLE A-1
SURFACE WATER ANALYICAL DATA, INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	Saginaw River 10/10/16	SW-1 6/13/95	SW-01 10/10/16	SW-2 6/13/95	SW-3 6/13/95	SW-4 6/14/95	SW-04 10/10/16	SW-5 6/13/95	SW-05 10/10/16	SW-6 6/14/95	SW-06 10/10/16	SW-7 6/14/95	SW-8 6/14/95	SW-9 6/14/95	SW-09 10/10/16	SW-10 6/14/95	SW-11 6/14/95	SW-12 6/14/95	SW-13 6/14/95	SW-14 6/14/95
Constituents (ug/L)		FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS [Dup]	FS	FS	FS
Aluminum	NA	375 J	NA	539 J	349 J	5,900 J	NA	491 J	NA	1,580 J	NA	1,160 J	6,070 J	282 J	NA	951 J	1,880 J [2630]	1,890 J	267 J	923
Antimony	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Arsenic	NA	1.0 UJ	NA	1.0 U	1.0 UJ	2.2	NA	1.0 UJ	NA	1.2	NA	1.0 UJ	2.6	2.4	NA	6.1	3.5 [4.6]	3.5	3.8	6.2
Barium	NA	200 U	NA	200 U	200 U	200 U	NA	200 U	NA	200 U	NA	200 U	200 U	200 U	NA	200 U	200 U [200 U]	200 U	200 U	200 U
Beryllium	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Cadmium	NA	0.79	NA	2.0	1.4	1.0	NA	1.6	NA	1.2	NA	1.0	1.9	0.20 UJ	NA	0.20 UJ	0.40 UJ [0.40 UJ]	0.40 UJ	0.20 U	0.20 UJ
Calcium	NA	48,900	NA	44,600	41,200	46,300	NA	45,200	NA	44,700	NA	41,400	43,600	68,100	NA	65,900	131000 [138000]	143,000	112,000	112,000
Chromium	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U
Cobalt	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U
Copper	NA	25 U	NA	25 U	25 U	48.4	< 25 U	25 U	NA	25 U	NA	25 U	48.7	25 U	NA	25 U	25 U [25 U]	25 U	25 U	25 U
Cyanide, Total	NA	15	< 0.010 U	5.2	5.1	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.6	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 UJ]	5.0 U	5.0 U	5.0 UJ
Iron	NA	686	NA	1,190	841	27,500	NA	897	NA	3,750	NA	3,150	23,700	535	NA	2,460	2530 [3200]	2,710	934	1,490
Lead	NA	7.6	NA	9.0	8.6	25.8	NA	8.9	NA	28.1	NA	28.2	57.8	3.0 U	NA	3.0 U	3.0 U [3.0 U]	3.0 U	3.0 U	3.0 U
Magnesium	NA	10,200	NA	9,110	8,690	11,000	NA	9,440	NA	9,420	NA	8,480	10,500	15,400	NA	37,900	46700 [49200]	55,400	101,000	45,500
Manganese	NA	206	NA	219	194	747	NA	208	NA	352	NA	287	828	519	NA	382	324 [340]	442	525	163
Mercury	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.39	< 0.20 U	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 UJ
Nickel	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U
Potassium	NA	5,000 U	NA	5,000 U	5,000 U	5,000 U	NA	5,000 U	NA	5,000 U	NA	5,000 U	5,000 U	6,530	NA	5,000 U	16800 [17700]	21,800	85,300	19,900
Selenium	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 UJ]	5.0 U	5.0 U	5.0 UJ
Silver	NA	0.50 U	NA	0.50 U	0.50 U	0.50 U	NA	0.50 U	NA	0.50 U	NA	0.50 U	0.50 U	0.50 U	NA	0.50 U	0.50 U [0.50 U]	0.50 U	0.50 U	0.50 U
Sodium	NA	24,900	NA	23,400	22,100	22,800	NA	23,500	NA	22,800	NA	21,000	21,800	49,200	NA	71,400	109000 [111000]	130,000	353,000	98,100
Thallium	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 UJ	NA	2.0 U	2.0 UJ [2.0 UJ]	2.0 UJ	2.0 UJ	2.0 UJ
Vanadium	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U
Zinc	NA	849	< 50 U	1,260	1,090	1,500	< 50 U	1,100	< 50 U	2,000	32 J	1,740	3,680	20 U	NA	20.3	23.6 [R]	20 U	20 U	44.9
pH	8	NA	7.8	NA	NA	NA	8	NA	8	NA	8	NA	NA	NA	7.8	NA	NA	NA	NA	NA
Hardness (mg/L)	270	NA	180	NA	NA	NA	250	NA	120	NA	130	NA	NA	NA	190	NA	NA	NA	NA	NA

Notes:
ug/L - micrograms per liter.
mg/L - milligrams per liter.
NA - Not analyzed.

TABLE A-1
SURFACE WATER ANALYICAL DATA, INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SW-15 6/14/95	SW-17 6/15/95	SW-19 6/15/95	SW-20 6/15/95	SW-21 6/15/95	SW-26 8/10/00	SW-27 8/10/00	SW-28 8/10/00	SW-29 8/10/00	SW-29 10/10/16	SW-31 8/10/00	SW-32 8/10/00	SW-32 10/10/16	SW-33 8/11/00
Constituents (ug/L)	FS	FS	FS	FS [Dup]	FS	FS	FS	FS	FS [Dup]	FS	FS	FS	FS	FS
Aluminum	584	281	131	150 [100 U]	100 U	100 U	62.3 B	319	58.5 B [64.2 B]	NA	640	1,880	NA	671
Antimony	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [2.4 B]	NA	5.0 U	5.0 U	NA	5.0 U
Arsenic	3.8	3.2	2.8	2.5 [2.1]	2.6	10 U	10 U	10 U	10 U [10 U]	NA	4.3 B	10 U	NA	10 U
Barium	200 U	200 U	200 U	202 [200 U]	200 U	57.4 B	393	74.8 B	91.6 B [91.3 B]	NA	84.6 B	130	NA	11.8 B
Beryllium	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U [4.0 U]	NA	4.0 U	4.0 U	NA	0.94 B
Cadmium	0.20 UJ	0.20 UJ	0.20 U	0.20 U [0.20 U]	0.20 U	0.30 B	0.36 B	1.0 U	0.34 B [1.0 U]	NA	1.0 U	1.0 U	NA	1.0 U
Calcium	103,000	124,000	48,600	54600 [52400]	52,100	69,500	92,200	76,100	86700 [89300]	NA	102,000	111,000	NA	4,070 B
Chromium	50 U	50 U	50 U	50 U [50 U]	50 U	5.0 U	5.0 U	1.7 B	5.0 U [5.0 U]	NA	2.2 B	1.6 B	NA	5.0 U
Cobalt	50 U	50 U	50 U	50 U [50 U]	50 U	10 U	10 U	10 U	10 U [10 U]	NA	10 U	10 U	NA	10 U
Copper	25 U	25 U	25 U	25 U [25 U]	25 U	8.0 B	8.5 B	25 U	13.7 B [15.6 B]	4.4 J	25 U	25 U	NA	4.2 B
Cyanide, Total	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ [10 J]	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	NA	5.0 U	5.0 U	NA	5.0 U
Iron	1,160	1,660	R	R [R]	R	1,240	4,110	1,400	655 [609]	NA	1,480	1,070	NA	100 U
Lead	3.0 U	3.0 U	3.0 U	3.0 U [3.0 U]	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U [3.0 U]	NA	3.0 U	3.0 U	NA	3.0 U
Magnesium	43,500	53,500	82,600	91600 [88300]	88,200	28,900	38,700	28,000	36600 [35600]	NA	46,800	35,500	NA	100 U
Manganese	155	363	28.1	27.2 [25.5]	24.3	244	355	360	144 [139]	NA	149	240	NA	0.99 B
Mercury	0.20 UJ	0.20 UJ	0.20 UJ	0.20 UJ [0.20 UJ]	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	NA	0.20 U	0.20 U	NA	0.20 U
Nickel	50 U	50 U	50 U	50 U [50 U]	50 U	40 U	5.9 B	3.3 B	4.0 B [4.0 B]	NA	6.8 B	3.3 B	NA	40 U
Potassium	19,200	8,790	88,900	102000 [93200]	94,300	15,500	31,100	20,900	25300 [27300]	NA	19,200	26,900	NA	54.9 B
Selenium	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ [5.0 UJ]	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	NA	5.0 U	5.0 U	NA	5.0 U
Silver	0.50 U	0.50 U	0.50 U	0.50 U [0.50 U]	0.50 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	NA	5.0 U	5.0 U	NA	5.0 U
Sodium	93,100	47,700	268,000	309000 [282000]	286,000	80,100	192,000	90,000	132000 [133000]	NA	133,000	124,000	NA	5,000 U
Thallium	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ [2.0 UJ]	2.0 UJ	10 U	8.6 B	7.6 B	10 U [5.5 B]	NA	7.0 B	7.7 B	< 10 U	10 U
Vanadium	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	NA	20 U	20 U	NA	20 U
Zinc	20.6	R	R	R [20 U]	R	20 U	20 U	20 U	20 U [20 U]	NA	20 U	20 U	NA	20 U
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	NA	NA	7.8	NA
Hardness (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	170	NA	NA	180	NA

Notes:
ug/L - micrograms per liter.
mg/L - milligrams per liter.
NA - Not analyzed.

TABLE A-2
SURFACE WATER DATA
ORGANIC COMPOUNDS ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SW-1	SW-2	SW-3	SW-4	SW-04	SW-5	SW-05	SW-6	SW-06	SW-7	SW-8	SW-9	SW-09	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-17	SW-19	
Constituents (ug/L)	6/13/95 FS	6/13/95 FS	6/13/95 FS	6/14/95 FS	10/10/16 FS	6/13/95 FS	10/10/16 FS	6/14/95 FS	10/10/16 FS	6/14/95 FS	6/14/95 FS	6/14/95 FS	10/10/16 FS	6/14/95 FS	6/14/95 FS [Dup]	6/14/95 FS	6/14/95 FS	6/14/95 FS	6/14/95 FS	6/14/95 FS	6/15/95 FS	6/15/95 FS
VOCs																						
1,1,1-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene, Total	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50 UJ	50 UJ	50 UJ	50 UJ	NA	50 UJ	NA	50 U	NA	50 UJ	50 UJ	50 UJ	NA	50 UJ	50 UJ [50 UJ]	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
2-Hexanone	50 U	50 U	50 U	50 U	NA	50 U	NA	50 J	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	50 U	50 U	50 U
4-Methyl-2-pentanone	50 U	50 U	50 U	50 U	NA	50 U	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetone	9.6 J	18 J	12 J	22 J	NA	17 J	NA	22 J	NA	33 J	24 J	50 U	NA	50 U	50 U [50 UJ]	50 U	50 U	50 UJ	50 UJ	50 UJ	50 UJ	2.6 J
Benzene	1.0 U	1.0 U	1.0 U	1.3	NA	0.50 J	NA	1.0 U	NA	1.1	1.6	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U	1.0 U	1.0 U	0.90 J	NA	1.0 U	NA	1.0 U	NA	0.50 J	0.40 J	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U	1.0 U	1.0 U	1.0 U	NA	0.70 J	NA	1.0 U	NA	1.0 J	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	0.70 J	NA	1.0 U	NA	1.0 U	NA	0.070 J	0.90 J	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total	3.0 U	3.0 U	3.0 U	3.0 U	NA	3.0 U	NA	3.0 U	NA	3.0 U	3.0 U	3.0 U	NA	3.0 U	3.0 U [3.0 U]	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
SVOCs																						
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2,2'-oxybis(dichloropropane)	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	50 U	50 U	50 U	50 U	NA	50 U	NA	50 U	NA	50 U	50 U	50 U	NA	50 U	50 U [50 U]	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	48	29	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U	0.64 J	5.0 U	7.2	NA	5.0 U	NA	3.1 J	NA	5	20	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U	5.0 U	5.0 U	0.96 J	NA	5.0 U	NA	5.0 U	NA	100 B	65	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Nitrophenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

See Notes on last page.

TABLE A-2
SURFACE WATER DATA
ORGANIC COMPOUNDS ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SW-1	SW-2	SW-3	SW-4	SW-04	SW-5	SW-05	SW-6	SW-06	SW-7	SW-8	SW-9	SW-09	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-17	SW-19
Constituents (ug/L)	6/13/95 FS	6/13/95 FS	6/13/95 FS	6/14/95 FS	10/10/16 FS	6/13/95 FS	10/10/16 FS	6/14/95 FS	10/10/16 FS	6/14/95 FS	6/14/95 FS	6/14/95 FS	10/10/16 FS	6/14/95 FS	6/14/95 FS [Dup]	6/14/95 FS	6/14/95 FS	6/14/95 FS	6/14/95 FS	6/15/95 FS	6/15/95 FS
3,3'-Dichlorobenzidine	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 UJ	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl phenyl ether	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U
4-Chlorophenyl phenyl ether	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U	5.0 U	5.0 U	0.97 J	NA	5.0 U	NA	5.0 U	NA	10	3.5 J	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Nitroaniline	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	5.0 U	5.0 U	5.0 U	0.62 J	NA	5.0 U	NA	5.0 U	NA	0.67 J	1.1 J	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Anthracene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	5.0 U	5.0 U	5.0 U	5.5	< 4.9 UJ	19	< 4.8 UJ	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	6.7 U	5.0 U	5.0 U	5.0 U
Butyl benzyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	5.0 U	5.0 U	5.0 U	0.80 J	NA	5.0 U	NA	0.57 J	NA	1.1 J	1.6 J	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Diethyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U	5.0 U	5.0 U	1.2 J	NA	5.0 U	NA	0.71 J	NA	1.4 J	2.0 J	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 UJ	5.0 UJ [5.0 U]	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U	0.66 J	5.0 U	4.0 J	NA	5.0 U	NA	2.0 J	NA	5.6	9.2	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	20 U	20 U	20 U	20 U	NA	20 U	NA	20 U	NA	20 U	20 U	20 U	NA	20 U	20 U [20 U]	20 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	5.0 U	5.0 U	5.0 U	1.9 J	< 0.19 UJ	5.0 U	NA	0.95 J	NA	2.9 J	3.2 J	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	5.0 U	5.0 U	5.0 U	4.0 J	NA	5.0 U	NA	1.7 J	NA	5.0 U	10	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pyrene	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
PCBs																					
Aroclor-1016	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1221	0.80 U	0.80 U	0.80 U	0.20 U	NA	0.80 U	NA	0.80 U	NA	0.80 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.80 U	0.80 U
Aroclor-1232	0.40 U	0.40 U	0.40 U	0.40 U	NA	0.40 U	NA	0.40 U	NA	0.40 U	0.40 U	0.40 U	NA	0.40 U	0.40 U [0.40 UJ]	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Aroclor-1242	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1248	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1254	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Aroclor-1260	0.20 U	0.20 U	0.20 U	0.20 U	NA	0.20 U	NA	0.20 U	NA	0.20 U	0.20 U	0.20 U	NA	0.20 U	0.20 U [0.20 UJ]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Total Aroclors	ND	ND	ND	ND	NA	ND	NA	ND	NA	ND	ND	ND	NA	ND	ND [ND]	ND	ND	ND	ND	ND	ND

See Notes on last page.

TABLE A-2
SURFACE WATER DATA
ORGANIC COMPOUNDS ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SW-20	SW-21	SW-26	SW-27	SW-28	SW-29	SW-31	SW-32	SW-33
Constituents (ug/L)	6/15/95 FS [Dup]	6/15/95 FS	8/10/00 FS	8/10/00 FS	8/10/00 FS	8/10/00 FS [Dup]	8/10/00 FS	8/10/00 FS	8/11/00 FS
VOCs									
1,1,1-Trichloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene, Total	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	50 UJ [50 UJ]	50 UJ	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
2-Hexanone	50 U [50 U]	50 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
4-Methyl-2-pentanone	50 U [50 U]	50 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Acetone	50 UJ [2.3 J]	50 UJ	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
Benzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U [1.0 U]	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ [1.0 UJ]	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	0.066 J	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chloroethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Chloroform	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.1
Chloromethane	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U [1.0 U]	1.0 U	0.50 U	0.11 J	0.50 U	0.50 U [0.50 U]	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Methylene chloride	1.0 U [1.0 U]	1.0 U	2.7 U	2.5 U	2.8 U	2.3 U [2.6 U]	2.2 U	2.6 U	5.4 U
Styrene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Toluene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U [1.0 U]	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U [0.50 U]	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Trichloroethene	1.0 U [1.0 U]	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Vinyl chloride	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Xylenes, Total	3.0 U [3.0 U]	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
SVOCs									
1,2,4-Trichlorobenzene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
2,2'-oxybis(dichloropropane)	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	50 U [50 U]	50 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	5.0 U [5.0 U]	5.0 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
2,4-Dimethylphenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2-Chlorophenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2-Methylnaphthalene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2-Methylphenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
2-Nitroaniline	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U
2-Nitrophenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U

See Notes on last page.

TABLE A-2
SURFACE WATER DATA
ORGANIC COMPOUNDS ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SW-20	SW-21	SW-26	SW-27	SW-28	SW-29	SW-31	SW-32	SW-33
Constituents (ug/L)	6/15/95 FS [Dup]	6/15/95 FS	8/10/00 FS	8/10/00 FS	8/10/00 FS	8/10/00 FS [Dup]	8/10/00 FS	8/10/00 FS	8/11/00 FS
3,3'-Dichlorobenzidine	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U
3-Nitroaniline	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U
4,6-Dinitro-2-methylphenol	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U
4-Bromophenyl phenyl ether	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
4-Chloroaniline	20 U [20 U]	20 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
4-Methylphenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
4-Nitroaniline	20 U [20 U]	20 U	20 U	20 U	20 U	20 U [20 U]	20 U	20 U	20 U
Acenaphthene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Acenaphthylene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Anthracene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
bis(2-Chloroethoxy)methane	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
bis(2-Chloroethyl)ether	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.3 U	4.1 J
Butyl benzyl phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Carbazole	5.0 U [5.0 U]	5.0 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U
Chrysene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Di-n-butyl phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Di-n-octyl phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Dibenzofuran	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Diethyl phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Dimethyl phthalate	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Fluoranthene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Fluorene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Hexachloroethane	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Isophorone	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
N-Nitroso-di-n-propylamine	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Naphthalene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Nitrobenzene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Pentachlorophenol	20 U [20 U]	20 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
Phenanthrene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Phenol	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	1.5 J	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
Pyrene	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U [5.0 U]	5.0 U	5.0 U	5.0 U
PCBs									
Aroclor-1016	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Aroclor-1221	0.20 U [0.80 U]	0.80 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Aroclor-1232	0.40 U [0.40 U]	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U [0.40 U]	0.40 U	0.40 U	0.40 U
Aroclor-1242	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Aroclor-1248	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Aroclor-1254	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Aroclor-1260	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U [0.20 U]	0.20 U	0.20 U	0.20 U
Total Aroclors	ND [ND]	ND	ND	ND	ND	ND [ND]	ND	ND	ND

Notes:
ug/L - micrograms per liter.
NA - Not analyzed.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-1 (0 - 1.5')	SD-1 (1.5 - 3')	SD-1 (3 - 4.5')	SD-2 (0 - 1.7')	SD-2 (1.7 - 3.4')	SD-2 (3.4 - 5')	SD-3	SD-3	SD-3	SD-3	SD-4	SD-4	SD-5	SD-5	SD-5	SD-05	SD-6	SD-6	SD-6	SD-7	SD-7	SD-7	SD-07	SD-8
	(0 - 1.5')	(1.5 - 3')	(3 - 4.5')	(0 - 1.7')	(1.7 - 3.4')	(3.4 - 5')	(0 - 1.3')		(1.3 - 2.6')	(2.6 - 3.9')	(0 - 1.5')	(1.5 - 3')	(0 - 1.8')	(1.8 - 3.6')	(3.6 - 5.4')	(0-0.5')	(0 - 1.6')	(1.6 - 3.2')	(3.2 - 4.8')	(0 - 1.3')	(1.3 - 2.6')	(2.6 - 3.9')	(0-0.5')	(0 - 1.5')
	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95	6/15/95		6/15/95	6/15/95	6/19/95	6/19/95	6/21/95	6/21/95	6/21/95	10/11/16	6/21/95	6/21/95	6/21/95	6/21/95	6/21/95	6/21/95	10/11/16	6/21/95
	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Inorganics	12,500,000	11,200,000	8,700,000	13,600,000	11,600,000	13,900,000	10,200,000	11,600,000	8,130,000	6,570,000	95,600,000	3,290,000	19,200,000	10,400,000	6,770,000	NA	8,460,000	10,400,000	4,080,000	13,900,000	9,760,000	7,950,000	NA	12,400,000
Aluminum	1,630	763 U	701 U	818 U	971 U	1,330	1,090 U	1,060 U	727 U	708	1,330 U	354 U	6,700 U	1,200	685 U	NA	778 U	1,390	465	3,050 U	1,200	1,080	NA	1,130
Antimony	9,030	17,700	10,200	7,690	11,100	8,430	9,030	7,470	6,220	4,320	3,840	5,310	2,780	5,910	3,020	NA	7,850	5,790	3,660	4,020	4,410	5,350	NA	11,800
Arsenic	92,300	94,600	81,000	100,000	88,600	103,000	82,900	88,000	54,900	46,200	89,300	32,000	134,000	62,600	58,500	NA	56,700	62,800	38,700	126,000	54,400	57,700	NA	84,500
Barium	989	763	701 U	1,060	1,170	881	1,090	1,170	873	617 U	734	709 U	1,410	788	685 U	NA	1,010	972	678 U	1,040	1,060	829	NA	1,200
Beryllium	1,100	1,080	335	936	407	109	2,090	1,740	342	174	442	115	208	442	166	NA	427	503	147	339	409	424	NA	651
Cadmium	28,300,000	42,300,000	42,300,000	34,600,000	28,100,000	39,600,000	14,200,000	14,800,000	15,900,000	18,400,000	41,800,000	36,700,000	73,100,000	24,300,000	40,800,000	NA	12,200,000	24,000,000	26,300,000	45,700,000	11,800,000	21,200,000	NA	10,700,000
Calcium	67,400	59,900	34,700	83,900	58,700	84,200	34,300	36,500	37,900	34,600	68,400	7,650	195,000	44,400	44,000	12,000	29,700	43,500	13,900	129,000	42,500	40,900	15,000	48,800
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4600	NA	NA	NA	NA	NA	NA	<4500	NA
Chromium (as CrVI)	8,240 U	7,630 U	7,010 U	8,180 U	9,710 U	6,290 U	10,900 U	10,600 U	7,270 U	6,170 U	6,670 U	7,090 U	6,700 U	7,880 U	6,850 U	NA	7,780 U	8,100 U	6,780 U	6,090 U	7,540 U	7,540 U	NA	8,540 U
Cobalt	66,700	87,000	41,200	40,400	60,800 U	33,200	59,700	63,700	26,800	14,700	22,600	4,520	19,000	43,300	11,700	NA	31,000	43,300	13,100	28,000	35,000	40,800	NA	49,800
Copper	410 U	380 U	350 U	410 U	490 U	310 U	540 U	850	360 U	310 U	330 U	510	340 U	390 U	720	NA	390 U	400 U	340 U	300 U	380 U	380 U	NA	430 U
Cyanide, Total	53,500,000	35,100,000	18,300,000	30,500,000	50,800,000	26,800,000	36,300,000	37,400,000	34,100,000	17,000,000	22,300,000	7,460,000	30,700,000	42,200,000	14,400,000	NA	37,600,000	46,900,000	13,800,000	37,400,000	42,700,000	41,300,000	NA	47,600,000
Iron	101,000	113,000	21,300	53,000	43,000	11,200	89,400	90,000	21,200	11,600	31,300	2,550	18,400	42,800	6,200	NA	33,300	57,800	11,100	27,600	38,100	50,900	NA	38,100
Lead	7,020,000	13,100,000	14,200,000	5,850,000	9,220,000	6,040,000	6,780,000	7,340,000	4,050,000	3,530,000	7,710,000	11,700,000	3,550,000	10,000,000	11,000,000	NA	4,390,000	9,820,000	8,500,000	3,260,000	3,760,000	6,870,000	NA	5,870,000
Magnesium	2,370,000	1,570,000	966,000	4,290,000	1,870,000	4,670,000	826,000	876,000	1,440,000	1,800,000	4,280,000	279,000	16,700,000	1,440,000	2,970,000	NA	730,000	955,000	500,000	10,200,000	1,310,000	1,650,000	NA	1,090,000
Manganese	82 U	150	86	82 U	97 U	63 U	109 U	106 U	73 U	62 U	67 U	71 U	67 U	79 U	69 U	NA	78 U	94	68 U	61 U	82	83	NA	85 U
Mercury	29,100	30,000	19,800	19,100	31,200	17,700	23,400	23,900	19,700	9,630	13,900	6,730	22,800	22,600	10,800	NA	19,300	24,100	8,340	20,000	21,100	21,900	NA	26,100
Nickel	1,350,000	1,580,000	1,150,000	1,380,000	1,210,000	1,750,000	1,090,000 U	1,070,000	727,000 U	699,000	1,120,000	709,000 U	1,700,000	1,070,000	981,000	NA	778,000 U	944,000	684,000	1,210,000	754,000 U	754,000 U	NA	942,000
Potassium	1,760	1,350	701 U	1,090	2,290	1,310	3,210	2,750	2,460	723	1,330 U	354 U	6,700 U	788 U	685 U	NA	778 U	810 U	339 U	3,050 U	1,190	754 U	NA	854 U
Selenium	824 U	763 U	701 U	818 U	971 U	1,260 U	1,090 U	1,060 U	727 U	617 U	1,330 U	354 U	6,700 U*	788 U*	685 U*	NA	778 U*	810 U*	339 U	3,050 U*	754 U*	754 U*	NA	854 U*
Silver	824,000 U	763,000 U	701,000 U	1,280,000	1,150,000	845,000	1,090,000 U	1,060,000 U	727,000 U	617,000 U	667,000 U	709,000 U	894,000	788,000 U	685,000 U	NA	778,000 U	810,000 U	678,000 U	766,000	754,000 U	754,000 U	NA	854,000 U
Sodium	412 U	382 U	351 U	409 U	485 U	315 U	544 U	530 U	364 U	309 U	334 U	354 U	335 U	394 U	343 U	NA	389 U	405 U	339 U	305 U	377 U	377 U	NA	427 U
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tin	12,400	17,600	19,600	18,300	12,600	26,400	10,100	11,100	7,560	10,400	18,600	11,500	23,700	8,830	14,500	NA	1,790	5,510	9,020	17,400	3,020	6,180	NA	4,870
Vanadium	207,000	185,000	67,300	1,060,000	125,000	36,000	2,560,000	2,660,000	176,000	49,100	881,000	21,000	213,000	91,700	27,100	NA	280,000	126,000	32,800	415,000	105,000	114,000	NA	731,000
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14000	NA	NA	NA	NA	NA	NA	13000	NA
Total organic carbon (TOC), mg/kg																								

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-8 (1.5 - 3')	SD-8 (3 - 4.5')	SD-9		SD-9	SD-09	SD-10	SD-10	SD-10	SD-10	SD-11	SD-11	SD-11	SD-12	SD-12	SD-12	SD-12	SD-13	SD-13	SD-13	SD-13	SD-14	SD-14
	(1.5 - 3')	(3 - 4.5')	(0 - 1.5')		(1.5 - 3')	(0-0.5')	(0 - 0.5')	(0.75 - 1.25')	(1.5 - 2')	(0-0.5')	(0 - 0.5')	(0.9 - 1.4')	(1.8 - 2.3')	(0 - 0.5')	(1.05 - 1.55')		(2.1 - 2.6')	(0 - 0.5')	(1.45 - 1.95')	(2.9 - 3.4')	(0-0.5')	(0 - 0.5')	(0.9 - 1.4')
	6/21/95	6/21/95	6/21/95		6/21/95	10/11/16	6/20/95	6/20/95	6/20/95	10/11/16	6/20/95	6/20/95	6/20/95	6/20/95	6/20/95		6/20/95	6/20/95	6/20/95	6/20/95	10/11/16	6/20/95	6/20/95
	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS
Inorganics																							
Aluminum	10,400,000	7,390,000	7,500,000	11,400,000	3,220,000	NA	9,160,000	8,990,000	5,470,000	NA	14,600,000	10,600,000	12,000,000	10,600,000	11,100,000	13,900,000	13,000,000	14,700,000	17,300,000	11,100,000	NA	16,900,000	18,800,000
Antimony	1,090	828	3,020 U *	3,150 U *	354 U	NA	488 U	903	341 U	NA	913	1,510	1,420	968	1,750 U	1,620 U	979	1,550 U	1,190	612	NA	1,590	1,780 U
Arsenic	6,080	4,330	1,960	4,720	9,630	NA	4,830	7,490	4,480	NA	5,680	5,620	5,940	5,450	9,810	11,300	9,600	5,980	15,200	7,660	NA	5,020	6,650
Barium	59,200	70,900	77,500	114,000	35,400	NA	86,600	73,400	44,600	NA	117,000	67,700	93,100	93,600	77,100	77,100	98,700	94,200	86,900	74,100	NA	103,000	92,800
Beryllium	1,090	671	604 U	756	708 U	NA	975	1,030 U	683 U	NA	1,250	997	1,080 U	1,300 U	1,750 U	1,620 U	1,000 U	1,550 U	1,800 U	899 U	NA	1,320	1,780 U
Cadmium	950	287	171	180	166	NA	1,890	968	127	NA	1,140	485	660	1,950	1,280	1,780	943 S	1,830	900	319	NA	1,680	1,300
Calcium	11,700,000	28,200,000	33,000,000	49,300,000	38,100,000	NA	5,620,000	13,500,000	34,000,000	NA	6,450,000	8,360,000	27,100,000	7,130,000	10,900,000	10,400,000	27,600,000	7,560,000	11,800,000	27,900,000	NA	8,180,000	11,100,000
Chromium	58,000	56,600	77,900	128,000	13,900	19,000	29,000	39,100	17,300	NA	27,000	45,100	33,000	35,300	34,500	41,100	29,300	42,300	48,300	23,400	NA	39,800	44,300
Chromium (as CrVI)	NA	NA	NA	NA	NA	<4700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	8,390 U	6,710 U	6,040 U	6,300 U	7,080 U	NA	9,750 U	10,300 U	6,830 U	NA	8,930 U	9,970 U	10,800 U	13,000 U	17,500 U	16,200 U	10,000 U	15,500 U	18,000 U	8,990 U	NA	13,200 U	17,800 U
Copper	44,100	38,300	17,100	23,400	5,740	NA	65,600	51,300	13,000	NA	50,800	45,700	52,600	79,500	52,600	54,700	40,700	72,200	60,600	42,900	NA	73,100	46,600
Cyanide, Total	420 U	340 U	300 U	310 U	350 U	NA	490 U	570	340 U	NA	450 U	660	540 U	650 U	880 U	810 U	500 U	820	920	450 U	NA	660 U	890 U
Iron	63,300,000	35,600,000	19,200,000	30,700,000	8,090,000	NA	32,800,000	36,800,000	13,000,000	NA	32,800,000	54,300,000	36,500,000	41,900,000	40,900,000	48,700,000	26,200,000	44,800,000	51,300,000	28,400,000	NA	45,300,000	51,400,000
Lead	34,500	30,800	15,600	15,000	2,980	NA	101,000	63,600	19,100	NA	61,000	32,000	163,000	111,000	139,000	139,000	119,000	110,000	138,000	21,100	NA	111,000	95,200
Magnesium	5,270,000	8,130,000	3,000,000	3,290,000	11,400,000	NA	3,640,000	3,520,000	12,200,000	NA	5,520,000	3,720,000	10,600,000	4,190,000	3,610,000	4,250,000	13,900,000	5,350,000	4,770,000	11,700,000	NA	6,240,000	5,980,000
Manganese	1,090,000	1,910,000	6,510,000	11,000,000	838,000	NA	744,000	1,290,000	821,000	NA	692,000	882,000	701,000	998,000	724,000	787,000	645,000	921,000	806,000	495,000	NA	983,000	718,000
Mercury	91	79	60 U	63 U	71 U	NA	98 U	103 U	68 U	NA	89 U	100 U	129	130 U	175 U	162 U	100 U	155 U	180 U	109	NA	132 U	178 U
Nickel	35,800	23,300	35,100	55,700	9,990	NA	21,100	27,500	14,600	NA	17,200	36,100	36,200	25,900	31,700	34,800	30,000	28,700	35,400	26,000	NA	24,400	34,500
Potassium	839,000 U	789,000	697,000	1,090,000	708,000 U	NA	975,000 U	1,030,000 U	761,000	NA	1,260,000	997,000 U	1,120,000	1,300,000 U	1,750,000 U	1,620,000 U	1,660,000	1,550,000 U	1,800,000 U	1,020,000	NA	1,320,000 U	1,780,000 U
Selenium	839 U	671 U	3,020 U*	3,150 U*	354 U	NA	901	593	341 U	NA	893 U*	1,980	1,600	1,300 U *	1,750 U *	1,620 U *	1,000 U*	1,550 U	1,660	1,230	NA	1,320 U*	1,780 U*
Silver	839 U*	671 U*	3,020 U *	3,150 U *	354 U	NA	488 U	513 U	341 U	NA	893 U *	997 U	1,080 U	648 U	1,750 U *	1,620 U *	500 U	1,550 U	902 U	449 U	NA	1,320 U *	1,780 U *
Sodium	839,000 U	671,000 U	607,000	830,000	708,000 U	NA	975,000 U	1,030,000 U	683,000 U	NA	893,000 U	997,000 U	1,080,000 U	1,300,000 U	1,750,000 U	1,620,000 U	1,000,000 U	1,550,000 U	1,800,000 U	899,000 U	NA	1,320,000 U	1,780,000 U
Thallium	420 U	335 U	302 U	315 U	354 U	NA	488 U	513 U	341 U	NA	446 U	498 U	538 U	648 U	876 U	810 U	500 U	774 U	902 U	449 U	NA	659 U	889 U
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	1,680 U	8,790	16,400	25,400	9,850	NA	11,300	15,400	14,300	NA	7,850	13,500	23,100	12,800	16,800	18,000	29,600	16,900	22,000	21,900	NA	7,770	10,700
Zinc	541,000	100,000	164,000	142,000	20,800	NA	3,570,000	1,370,000	92,300	NA	2,510,000	675,000	233,000	4,030,000	761,000	1,740,000	177,000	3,270,000	468,000	72,500	NA	2,800,000	1,080,000
Total organic carbon (TOC), mg/kg	NA	NA	NA	NA	NA	13000	NA	NA	NA	54000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23000	NA	NA

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-14 (1.8 - 2.3') 6/20/95	SD-14 (0-0.5') 10/11/16	SD-15 (0 - 0.5') 6/20/95	SD-15 (0.9 - 1.4') 6/20/95	SD-15 (1.8 - 2.3') 6/20/95	SD-16 (0 - 0.5') 6/20/95	SD-16 (0 - 0.5') 6/20/95	SD-16 (0.95 - 1.45') 6/20/95	SD-17 (1.9 - 2.4') 6/20/95	SD-17 (0 - 0.5') 6/20/95	SD-17 (1.1 - 1.6') 6/20/95	SD-17 (2.2 - 2.7') 6/20/95	SD-18 (0 - 0.5') 6/20/95	SD-18 (2.25 - 2.75') 6/20/95	SD-18 (4.5 - 5') 6/20/95	SD-18 (0-0.5') 10/11/16	SD-19 (0 - 0.5') 6/20/95	SD-19 (1.75 - 2.25') 6/20/95	SD-19 (3.5 - 4') 6/20/95	SD-20 (0 - 0.5') 6/20/95	SD-20 (0.7 - 1.2') 6/20/95	SD-20 (1.4 - 1.9') 6/20/95	SD-21 (0 - 0.5') 6/20/95
	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Inorganics																							
Aluminum	16,200,000	NA	16,400,000	17,600,000	8,320,000	NA	NA	NA	NA	10,900,000	11,400,000	11,000,000	15,800,000	17,300,000	9,550,000	NA	19,000,000	14,500,000	8,310,000	12,300,000	16,200,000	9,270,000	13,800,000
Antimony	1,510	NA	1,570	1,670	969	1,480	809 U	1,300	1,470	999 U	1,380	769	2,100 U	1,340	743 U	NA	1,540 U	1,350	778	1,350 U	1,950	1,200	1,480 U
Arsenic	7,430	NA	7,370	9,060	5,730	8,720	6,030	5,460	9,850	9,370	6,240	4,590	5,460	7,470	6,600	NA	5,780	8,940	3,860	7,050	6,610	4,600	5,180
Barium	115,000	NA	90,800	80,100	62,200	61,200	67,600	70,100	75,700	67,300	52,500	59,500	74,000	88,500	66,000	NA	96,800	80,500	45,000	104,000	93,600	83,200	109,000
Beryllium	1,140	NA	1,430 U	1,440 U	924 U	939	971	1,050	1,010	999	776	813 U	1,570	1,530	743	NA	1,700	1,370	806	1,490	1,830	931 U	1,480
Cadmium	810	NA	1,440	1,880	677	180	175	294	473	774	436	102	1,200	669	340	NA	2,560 S	872	400	2,600	1,620	1,090	2,630
Calcium	28,600,000	NA	7,100,000	10,100,000	55,100,000	NA	NA	NA	NA	7,450,000	8,200,000	18,600,000	10,000,000	15,400,000	42,500,000	NA	10,600,000	18,100,000	26,000,000	11,100,000	12,700,000	52,400,000	8,920,000
Chromium	41,300	NA	42,000	47,800	19,400	54,400	53,400	27,800	32,100	28,600	33,100	22,800	30,600	44,500	22,000	NA	40,600	50,500	24,200	49,400	40,100	22,300	40,500
Chromium (as CrVI)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	10,300 U	NA	14,300 U	14,400 U	9,240 U	7,820 U	8,090 U	8,740 U	7,750 U	9,990 U	7,760 U	8,130 U	10,500 U	10,900 U	7,430 U	NA	15,400 U	10,500 U	7,330 U	13,500 U	15,300 U	9,310 U	14,800 U
Copper	52,300	NA	69,200	51,900	25,600	42,200	27,300	36,100	56,600	51,000	47,500	41,000	37,400	58,000	28,200	NA	66,900	64,900	30,000	79,900	58,000	36,600	93,800
Cyanide, Total	520 U	NA	720 U	810	460 U	440	400 U	660	590	650	700	410 U	550	560	370 U	NA	780	750	570	680 U	760 U	470 U	740 U
Iron	43,700,000	NA	42,900,000	51,100,000	18,300,000	NA	NA	NA	NA	39,800,000	43,300,000	39,400,000	36,400,000	49,200,000	29,300,000	NA	48,400,000	51,100,000	31,100,000	47,700,000	53,000,000	23,600,000	49,500,000
Lead	123,000	NA	83,300	112,000	91,500	22,700	25,300	44,000	72,200	72,100	104,000	15,800	59,100	75,500	25,300	NA	167,000	112,000	42,100	149,000	111,000	118,000	147,000
Magnesium	13,000,000	NA	5,640,000	4,860,000	20,700,000	NA	NA	NA	NA	3,490,000	2,790,000	7,020,000	4,940,000	6,140,000	14,100,000	NA	6,620,000	6,250,000	9,480,000	4,690,000	5,000,000	19,100,000	5,450,000
Manganese	821,000	NA	781,000	800,000	455,000	NA	NA	NA	NA	824,000	773,000	781,000	662,000	959,000	649,000	NA	994,000	1,060,000	612,000	1,630,000	854,000	593,000	1,090,000
Mercury	114	NA	143 U	144 U	92 U	78 U	81 U	87 U	79	100 U	78 U	81 U	118	125	74 U	NA	154 U	105 U	73 U	135 U	199	137	258
Nickel	36,700	NA	26,900	36,400	21,100	31,100	28,200	24,900	30,700	24,600	28,300	25,900	19,800	30,000	19,100	NA	25,300	36,000	18,900	26,600	34,500	25,100	26,900
Potassium	2,230,000	NA	1,430,000 U	1,440,000 U	1,310,000	NA	NA	NA	NA	999,000 U	776,000 U	949,000	1,050,000 U	1,380,000	1,040,000	NA	1,540,000 U	1,160,000	733,000 U	1,350,000 U	1,530,000 U	1,460,000	1,480,000 U
Selenium	1,030 U*	NA	1,400	2,460	462 U	391 U	809 U	874 U*	1,960	999 U	1,510	799	2,100 U	1,090 U*	743 U*	NA	1,540 U*	1,050 U*	733 U*	1,350 U*	1,530 U*	931 U*	1,480 U*
Silver	1,030 U *	NA	716 U	1,440 U	462 U	782 U	809 U	874 U	775 U	999 U	776 U	406 U	2,100 U*	1,090 U *	743 U *	NA	1,540 U *	1,050 U *	733 U *	1,350 U *	1,530 U *	931 U *	1,480 U *
Sodium	1,030,000 U	NA	1,430,000 U	1,440,000 U	924,000 U	NA	NA	NA	NA	999,000 U	776,000 U	813,000 U	1,050,000 U	1,090,000 U	743,000 U	NA	1,540,000 U	1,050,000 U	733,000 U	1,350,000 U	1,530,000 U	931,000 U	1,480,000 U
Thallium	517 U	NA	716 U	719 U	462 U	391 U	404 U	437 U	388 U	499 U	388 U	406 U	525 U	546 U	371 U	NA	772 U	526 U	366 U	675 U	763 U	466 U	740 U
Tin	NA	NA	NA	NA	NA	156,000 U	162,000 U	175,000 U	155,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	26,000	NA	17,500	21,400	19,200	15,900	17,600	15,300	20,500	13,000	15,400	17,900	5,770	11,700	15,900	NA	8,500	7,790	6,960	6,750	11,600	19,400	7,400
Zinc	214,000	NA	1,890,000	1,350,000	146,000	212,000	231,000	128,000	148,000	2,020,000	163,000	39,900	1,350,000	169,000	59,700	NA	4,950,000	213,000	81,200	4,310,000	1,030,000	169,000	4,140,000
Total organic carbon (TOC), mg/kg	NA	46000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49000	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-21 (0.65 - 1.15') 6/20/95 FS	SD-21 (1.3 - 1.8') 6/20/95 FS	SD-21 (0-0.5') 10/11/16 FS	SD-22 (0 - 1.2') 6/19/95 FS	SD-22 (1.2 - 2.4') 6/19/95 FS	SD-22 (2.4 - 3.6') 6/19/95 FS	SD-23 (0 - 1.2') 6/19/95 FS	SD-23 (1.2 - 2.4') 6/19/95 FS	SD-23 (2.4 - 3.6') 6/19/95 FS	SD-24 (0 - 1.5') 6/19/95 FS	SD-24 (1.5 - 3') 6/19/95 FS	SD-25 (0 - 1.1') 6/19/95 FS	SD-25 (1.1 - 2.2') 6/19/95 FS	SD-25 (2.2 - 3.3') 6/19/95 FS	SD-26 (0 - 1.2') 6/19/95 FS	SD-26 (1.2 - 2.4') 6/19/95 FS	SD-26 (2.4 - 3.6') 6/19/95 FS	SD-27 (0 - 1.3') 6/19/95 FS	SD-27 (1.3 - 2.6') 6/19/95 FS	SD-27 (2.6 - 3.9') 6/19/95 FS	SD-28 (0 - 1.2') 6/19/95 FS	SD-28 (1.2 - 2.4') 6/19/95 FS	SD-28 (2.4 - 3.6') 6/19/95 FS
Inorganics																							
Aluminum	20,400,000	10,300,000	NA	9,790,000	8,020,000	5,530,000	8,700,000	6,730,000	2,840,000	10,700,000	4,690,000	6,020,000	3,400,000	3,940,000	8,550,000	8,660,000	2,890,000	10,800,000	3,160,000	2,120,000	16,300,000	8,960,000	3,130,000
Antimony	1,670	1,070	NA	1,220 U	669 U	349	1,520 U	433	343 U	856	437	429	368	373	390 U	414	336 U	782 U	353 U	340 U	990	718 U	382
Arsenic	5,360	3,540	NA	5,110	5,480	4,410	10,900	9,030	7,040	11,300	12,100	10,800	2,550	2,740	7,850	6,130	4,030	7,190	5,030	2,150	9,290	8,360	3,660
Barium	98,600	74,700	NA	121,000	69,000	43,900	70,800	56,200	26,000	71,900	43,200	42,400	26,100	25,100	70,200	63,900	27,100	83,400	31,300	19,900	111,000	69,300	27,300
Beryllium	1,770	875 U	NA	796	736	668 U	607	737 U	686 U	793 U	777 U	701 U	657 U	695 U	780 U	731 U	672 U	782 U	706 U	681 U	998	718 U	669 U
Cadmium	1,860	568	NA	75	395	94	105	227	76	285	130	271	76	120	235	155	72	213	94	44	408	256	56
Calcium	12,400,000	34,800,000	NA	42,300,000	37,800,000	38,400,000	40,800,000	48,700,000	43,100,000	41,800,000	66,500,000	41,500,000	26,800,000	35,100,000	38,300,000	48,600,000	43,000,000	32,100,000	47,500,000	33,400,000	41,200,000	30,600,000	30,600,000
Chromium	40,000	22,400	NA	74,600	52,700	20,300	46,500	14,500	5,900	18,900	9,870	12,900	7,230	8,550	16,800	14,900	6,310	19,900	7,270	5,100	28,500	17,400	6,750
Chromium (as CrVI)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	16,100 U	8,750 U	NA	6,120 U	6,690 U	6,680 U	6,070 U	7,370 U	6,860 U	7,930 U	7,770 U	7,010 U	6,570 U	6,950 U	7,800 U	7,310 U	6,720 U	8,130	7,060 U	6,810 U	9,890	7,180	6,690 U
Copper	40,900	25,900	NA	4,900	24,400	6,830	27,300	16,200	3,800	15,200	7,860	8,600	4,020	4,280	12,800	10,300	3,770	15,400	4,870	2,620	21,500	14,200	4,570
Cyanide, Total	1,000	440 U	NA	2,000	1,100	840	2,400	R	R	R	R	350 U	330 U	350 U	R	R	R	R	R	R	R	R	R
Iron	44,000,000	25,000,000	NA	18,400,000	18,800,000	10,700,000	24,100,000	11,800,000	6,310,000	15,600,000	11,300,000	12,800,000	7,270,000	6,980,000	17,100,000	14,400,000	6,000,000	19,900,000	7,360,000	4,840,000	25,000,000	15,200,000	5,910,000
Lead	85,600	32,900	NA	6,810	6,510	4,150	9,460	6,650	2,020	9,360	3,930	6,400	2,780	2,470	8,890	5,740	2,110	9,610	2,580	1,730	13,800	8,800	2,700
Magnesium	7,290,000	18,000,000	NA	7,170,000	9,570,000	12,600,000	8,730,000	15,100,000	10,500,000	16,300,000	17,400,000	17,100,000	10,500,000	12,100,000	12,800,000	14,200,000	11,100,000	11,900,000	11,700,000	8,060,000	15,300,000	10,400,000	7,480,000
Manganese	619,000	484,000	NA	5,130,000	3,150,000	1,040,000	3,100,000	629,000	272,000	416,000	532,000	504,000	183,000	168,000	538,000	501,000	246,000	445,000	316,000	188,000	603,000	358,000	195,000
Mercury	161 U	121	NA	61 U	67 U	67 U	61 U	74 U	69 U	79 U	78 U	70 U	66 U	70 U	78 U	73 U	67 U	78 U	71 U	68 U	91 U	72 U	67 U
Nickel	31,600	24,100	NA	14,300	17,500	9,290	12,100	11,800	4,190	14,400	9,010	11,000	5,910	7,160	14,400	12,400	4,430	16,600	6,290	3,610	23,200	15,400	5,150
Potassium	1,610,000 U	1,340,000	NA	1,090,000	954,000	784,000	1,460,000	1,200,000	686,000 U	1,900,000	901,000	856,000	657,000 U	695,000 U	1,240,000	1,660,000	672,000 U	1,610,000	706,000 U	681,000 U	2,780,000	1,490,000	669,000 U
Selenium	1,610 U*	875 U*	NA	1,220 U	1,160	334 U	1,520 U	550	343 U	793 U*	389 U	350 U	328 U	348 U	414	365 U	336 U	782 U	353 U	340 U	908 U*	718 U*	334 U
Silver	1,610 U *	875 U *	NA	1,220 U	669 U	334 U	1,520 U	368 U	343 U	793 U	389 U	350 U	328 U	348 U	390 U	365 U	336 U	782 U	353 U	340 U	908 U	718 U	334 U
Sodium	1,610,000 U	875,000 U	NA	612,000 U	669,000 U	668,000 U	607,000 U	737,000 U	686,000 U	793,000 U	777,000 U	701,000 U	657,000 U	695,000 U	780,000 U	731,000 U	672,000 U	782,000 U	706,000 U	681,000 U	908,000 U	718,000 U	669,000 U
Thallium	803 U	438 U	NA	306 U	334 U	334 U	303 U	368 U	343 U	397 U	389 U	350 U	328 U	348 U	390 U	365 U	336 U	391 U	353 U	340 U	454 U	359 U	334 U
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	12,800	19,300	NA	17,100	16,000	15,000	21,500	15,700	8,550	24,900	12,300	17,300	12,100	14,400	18,200	19,000	7,920	24,800	9,150	6,210	33,500	20,600	8,930
Zinc	1,910,000	251,000	NA	81,800	40,800	33,600	47,400	40,900	13,500	60,200	24,700	44,900	20,700	23,200	53,000	34,800	14,200	55,300	16,300	10,200	87,800	52,600	16,200
Total organic carbon (TOC), mg/kg	NA	NA	44000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-28	SD-29	SD-29	SD-29	SD-30	SD-30	SD-30	SD-31	SD-31	SD-31	SD-32	SD-32	SD-32	SD-32	SD-32	SD-33	SD-33	SD-33	SD-33	SD-34	SD-34	SD-34	SD-35
	(0-0.5')	(0 - 1.2')	(1.2 - 2.4')	(2.4 - 3.6')	(0 - 1.1')	(1.1 - 2.2')	(2.2 - 3.3')	(0 - 1.1')	(1.1 - 2.2')	(2.2 - 3.3')	(0 - 1.4')		(1.4 - 2.8')	(2.8 - 4.2')	(0-0.5')	(0 - 1.3')	(1.3 - 2.6')	(2.6 - 3.9')	(0-0.5')	(0 - 1.3')	(1.3 - 2.6')	(2.6 - 3.9')	(0 - 1.5')
	10/11/16	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95	6/19/95		6/19/95	6/19/95	10/11/16	6/19/95	6/19/95	6/19/95	10/11/16	6/21/95	6/21/95	6/21/95	6/21/95
	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Inorganics																							
Aluminum	NA	9,560,000	5,560,000	6,040,000	10,200,000	1,090,000	2,830,000	9,580,000	3,670,000	1,520,000	17,300,000	12,800,000	4,090,000	2,030,000	NA	19,200,000	13,200,000	2,120,000	NA	8,110,000	7,280,000	5,190,000	13,500,000
Antimony	NA	599	359 U	369 U	443	314 U	329 U	580	357	307 U	785	683	330 U	381	NA	933	618	295 U	NA	714 U	746 U	364	992 U
Arsenic	NA	8,520	7,580	6,570	5,350	2,690	2,770	7,630	3,580	1,530	15,900	12,100	2,720	2,070	NA	13,600	6,460	2,800	NA	4,890	5,300	5,240	6,400
Barium	NA	71,700	45,000	53,300	76,200	12,500	26,700	81,500	37,000	13,000	114,000	103,000	36,500	21,000	NA	129,000	104,000	16,800	NA	55,800	60,700	44,100	92,700
Beryllium	NA	815 U	717 U	739 U	862 U	628 U	659 U	883 U	681 U	614 U	1,030 U	1,070 U	659 U	623 U	NA	1,060 U	819 U	591 U	NA	999	746 U	699 U	992
Cadmium	NA	210	148	106	257	36	64	261	72	31 U	390	411	118	47	NA	489	264	37	NA	219	240	134	504
Calcium	NA	32,600,000	56,800,000	66,600,000	44,500,000	23,100,000	40,400,000	51,500,000	52,400,000	22,000,000	35,000,000	34,700,000	18,000,000	30,600,000	NA	43,800,000	38,500,000	11,200,000	NA	14,200,000	53,400,000	58,400,000	40,900,000
Chromium	NA	18,900	10,800	10,900	17,600	2,890	5,730	17,200	7,280	3,260	30,400	24,200	8,050	4,240	NA	33,600	23,500	4,140	NA	26,400	17,800	10,400	30,600
Chromium (as CrVI)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	8,150 U	7,170 U	7,390 U	8,620 U	6,280 U	6,590 U	8,830 U	6,810 U	6,140 U	10,300 U	10,700 U	6,590 U	6,230 U	NA	11,100	8,190 U	5,910 U	NA	7,140 U	7,460 U	6,990 U	9,920 U
Copper	NA	12,700	7,410	16,600	12,200	1,330	4,050	15,600	6,600	2,460	22,800	22,200	7,850	3,680	NA	25,700	18,300	2,840	NA	14,700	13,700	8,040	26,900
Cyanide, Total	NA	R	R	R	R	R	R	440 U	340 U	310 U	510 U	530 U	330 U	310	NA	530 U	410 U	300 U	NA	360 U	370 U	350 U	500 U
Iron	NA	21,500,000	8,460,000	11,500,000	16,600,000	2,960,000	5,330,000	19,000,000	7,170,000	3,420,000	25,900,000	23,600,000	7,300,000	4,280,000	NA	30,900,000	19,300,000	3,650,000	NA	17,200,000	14,000,000	9,470,000	31,100,000
Lead	NA	8,440	3,870	3,700	7,710	1,060	2,200	8,580	2,960	1,210	13,600	13,100	5,090	1,860	NA	16,400	12,100	1,890	NA	10,900	9,480	4,100	21,300
Magnesium	NA	10,100,000	16,400,000	18,400,000	14,800,000	4,780,000	9,570,000	18,900,000	13,600,000	5,240,000	13,300,000	12,300,000	5,040,000	7,310,000	NA	16,600,000	13,700,000	3,160,000	NA	4,350,000	18,500,000	19,200,000	13,400,000
Manganese	NA	530,000	321,000	524,000	536,000	115,000	277,000	511,000	278,000	102,000	527,000	512,000	145,000	164,000	NA	660,000	354,000	76,600	NA	459,000	488,000	365,000	602,000
Mercury	NA	82 U	72 U	74 U	86 U	63 U	66 U	88 U	68 U	61 U	103 U	107 U	66 U	62 U	NA	106 U	82 U	59 U	NA	71 U	89	83	118
Nickel	NA	13,900	9,320	9,160	14,800	2,510 U	5,670	16,100	6,190	2,700	25,700	21,400	7,060	3,860	NA	26,700	18,200	3,780	NA	14,400	13,700	10,300	26,400
Potassium	NA	1,240,000	1,120,000	1,320,000	1,570,000	628,000 U	659,000 U	1,440,000	770,000	614,000 U	2,890,000	1,800,000	659,000 U	623,000 U	NA	2,990,000	2,130,000	591,000 U	NA	887,000	1,210,000	980,000	2,080,000
Selenium	NA	408 U	359 U	369 U	431 U	314 U	329 U	442 U	340 U	307 U	513 U	534 U	330 U	311 U	NA	532 U	409 U	295 U	NA	714 U	746 U	349 U	992 U
Silver	NA	408 U	359 U	369 U	431 U	314 U	329 U	442 U	340 U	307 U	513 U	534 U	330 U	311 U	NA	532 U	409 U	295 U	NA	714 U*	746 U*	349 U	992 U*
Sodium	NA	815,000 U	717,000 U	739,000 U	862,000 U	628,000 U	659,000 U	883,000 U	681,000 U	614,000 U	1,030,000 U	1,070,000 U	659,000 U	623,000 U	NA	1,060,000 U	819,000 U	591,000 U	NA	714,000 U	746,000 U	699,000 U	1,110,000
Thallium	NA	408 U	359 U	369 U	431 U	314 U	329 U	442 U	340 U	307 U	513 U	534 U	330 U	311 U	NA	532 U	409 U	295 U	NA	357 U	373 UW	349 U	496 U
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	27,000	17,600	13,700	13,300	22,000	4,210	8,090	22,300	12,000	5,960	36,300	27,800	10,700	6,730	24,000	38,200	29,100	7,030	22,000	10,900	16,100	13,200	17,600
Zinc	NA	109,000	27,500	25,500	55,400	6,030	13,000	53,700	15,900	7,490	95,100	93,400	23,000	9,160	NA	143,000	58,600	10,500	NA	169,000	49,600	24,100	247,000
Total organic carbon (TOC), mg/kg	36000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26000	NA	NA	NA	36000	NA	NA	NA	NA

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-35	SD-35	SD-36	SD-36	SD-36	SD-37	SD-37	SD-37	SD-37	SD-38	SD-38	SD-38	SD-39	SD-39	SD-39	SD-39	SD-40	SD-40	SD-41	SD-41	SD-42	SD-42	SD-43	SD-43
	(1.5 - 3')	(3 - 4.5')	(0 - 1.2')	(1.2 - 2.4')	(2.4 - 3.6')	(0 - 1.3')	(1.3 - 2.6')	(2.6 - 3.9')	(0 - 1.2')	(1.2 - 2.4')	(0 - 1')	(0 - 1')	(1 - 2')	(0-0.5')	(0 - 1.1')	(1.1 - 2.2')	(0 - 1')	(1 - 2')	(0 - 1')	(1 - 2')	(0 - 1')	(1 - 2')	(0 - 0.8')	(0.8 - 1.6')
	6/21/95	6/21/95	6/19/95	6/19/95	6/19/95	6/19/95																		
	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS
Inorganics																								
Aluminum	8,320,000	7,230,000	4,270,000	4,450,000	7,250,000	5,560,000	6,360,000	8,330,000	5,080,000	12,300,000	5,750,000	1,160,000	9,600,000	1,040,000	NA	9,620,000	11,300,000	12,500,000	4,720,000	2,150,000	8,400,000	5,980,000	5,620,000	
Antimony	704 U	470	361 U	375	467	510	394	373 U	330 U	839	330 U	305 U	2,680 U *	310 U	NA	737	510	940	524	357	493	2,310	892	
Arsenic	5,990	4,170	2,680	2,570	4,270	7,520	6,790	4,700	4,750	6,540	3,400	1,250	1,640	1,320	NA	4,600	3,550	5,510	2,320	845	2,940	4,830	3,420	
Barium	63,100	66,500	35,800	36,900	68,700	43,400	57,200	63,900	45,400	100,000	40,500	11,000	105,000	7,930	NA	76,900	72,900	47,100	21,200	11,900	38,300	66,200	66,300	
Beryllium	704 U	738 U	722 U	698 U	757 U	707 U	732 U	746 U	659 U	999 U	660 U	611 U	642	619 U	NA	893 U	683 U	822	601 U	525 U	638 U	707 U	594 U	
Cadmium	501	221	95	89	142	148	153	149	132	350	99	31 U	27 U	31 U	NA	181	109	219	84	58	110	240	138	
Calcium	29,500,000	59,500,000	31,300,000	31,900,000	75,600,000	20,900,000	60,300,000	62,800,000	41,600,000	59,300,000	39,800,000	9,510,000	42,700,000	9,330,000	NA	16,000,000	51,200,000	24,700,000	7,910,000	1,350,000	37,400,000	24,400,000	32,800,000	
Chromium	22,000	19,900	8,230	8,240	13,300	9,470	11,800	13,900	9,560	22,000	10,900	2,870	101,000	2,290	8,700	21,600	21,000	34,700	20,700	8,400	22,400	35,300	36,900	
Chromium (as CrVI)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5100	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	7,040 U	7,380 U	7,220 U	6,980 U	7,570 U	7,070 U	7,320 U	7,460 U	6,590 U	9,990 U	6,600 U	6,110 U	5,350 U	6,190 U	NA	8,930 U	7,170	7,120	6,010 U	5,250 U	6,380 U	7,070 U	5,940 U	
Copper	20,000	15,500	7,070	6,700	11,700	8,910	9,450	9,920	9,030	36,800	10,800	2,690	19,300	1,490	NA	17,800	14,700	38,300	11,500	10,700	18,500	47,000	22,300	
Cyanide, Total	350 U	370 U	360 U	350 U	380 U	3,500	370 U	370 U	330 U	500 U	330 U	310 U	270 U	310 U	NA	450 U	340 U	340 U	300 U	260 U	850	350 U	300 U	
Iron	21,400,000	15,500,000	7,370,000	7,570,000	12,900,000	10,200,000	12,300,000	13,200,000	9,440,000	21,400,000	9,970,000	2,360,000	23,300,000	2,120,000	NA	19,100,000	16,800,000	39,800,000	14,600,000	9,090,000	17,300,000	94,400,000	21,100,000	
Lead	20,300	14,300	3,680	3,710	5,240	5,390	5,340	5,560	4,250	14,000	4,580	2,150	14,400	1,060	NA	12,800	6,970	21,800	9,130	4,450	10,100	13,400	20,700	
Magnesium	9,570,000	19,200,000	9,320,000	9,480,000	23,400,000	6,970,000	18,700,000	19,700,000	14,000,000	16,900,000	12,900,000	1,690,000	2,960,000	1,560,000	NA	5,920,000	16,400,000	11,500,000	2,370,000	755,000	12,400,000	5,760,000	4,900,000	
Manganese	418,000	536,000	202,000	206,000	475,000	240,000	444,000	466,000	309,000	587,000	204,000	39,400	8,710,000	24,200	NA	263,000	319,000	441,000	508,000	161,000	364,000	954,000	1,480,000	
Mercury	96	88	72 U	70 U	76 U	71 U	73 U	75 U	66 U	100 U	66 U	61 U	54 U	62 U	NA	89 U	68 U	91	60 U	53 U	64 U	71 U	59 U	
Nickel	16,300	15,700	7,000	6,350	12,500	8,060	11,800	12,900	11,000	20,500	10,800	2,990	44,400	2,540	NA	19,100	20,000	33,200	13,800	9,130	17,500	26,400	14,500	
Potassium	1,190,000	1,160,000	796,000	836,000	1,420,000	920,000	1,180,000	1,850,000	808,000	2,140,000	1,180,000	611,000 U	917,000	619,000 U	NA	926,000	1,730,000	2,020,000	601,000 U	525,000 U	1,760,000	1,180,000	1,220,000	
Selenium	704 U	369 U	361 U	349 U	379 U	353 U	366 U	373 U	330 U	500 U	330 U	305 U	2,680 U*	310 U	NA	893 U*	683 U*	1,370 U *	601 U *	262 U	319 U	4,580	594 U	
Silver	704 U*	369 U	361 U	349 U	379 U	353 U	366 U	373 U	330 U	500 U	330 U	305 U	2,680 U *	310 U	NA	446 U	341 U	685 U	300 U	262 U	319 U	1,410 U	594 U	
Sodium	732,000	738,000 U	722,000 U	698,000 U	757,000 U	707,000 U	732,000 U	746,000 U	659,000 U	999,000 U	660,000 U	611,000 U	661,000	619,000 U	NA	893,000 U	683,000 U	982,000	601,000 U	525,000 U	638,000 U	899,000	616,000	
Thallium	352 U	369 U	361 U	349 U	379 U	353 U	366 U	373 U	330 U	500 U	330 U	305 U	268 U	310 U	NA	446 U	341 U	343 U	300 U	262 U	319 U	353 U	297 U	
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	11,700	16,400	11,700	12,100	19,000	12,900	16,100	21,300	13,800	28,600	15,600	3,480	20,000	3,030	NA	22,300	27,600	20,400	8,290	4,510	17,700	1,410 U	10,300	
Zinc	66,600	51,700	23,500	18,900	32,200	25,800	26,400	27,700	31,500	68,800	23,200	7,690	147,000	5,700	NA	66,700	38,800	249,000	59,900	64,000	80,700	70,800	36,000	
Total organic carbon (TOC), mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8000	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes on last page.

TABLE A-3
SEDIMENT ANALYTICAL DATA
INORGANIC CONSTITUENTS
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-44 (0 - 0.9') 6/15/95	SD-44 (0.9 - 1.8') 6/15/95	SD-45 (0 - 0.7') 6/15/95	SD-45 (0.7 - 1.4') 6/15/95	SD-46 (0 - 1.5') 6/15/95	SD-46 (1.5 - 3') 6/15/95	SD-46 (3 - 4.5') 6/15/95	SD-47 (0 - 1.5') 6/15/95	SD-47 (1.5 - 3') 6/15/95	SD-48 (0 - 1.3') 6/15/95	SD-48 (1.3 - 2.6') 6/15/95	SD-59 (0 - 0.5') 8/10/00	SD-60 (0 - 0.5') 8/10/00	SD-61 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-62 (0-0.5') 10/11/16	SD-64 (0 - 0.5') 8/10/00	SD-64 (0-0.5') 10/11/16	SD-65 (0 - 0.5') 8/10/00
	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS
Inorganics																				
Aluminum	12,300,000	12,800,000	9,790,000	9,590,000	9,890,000	6,180,000	4,200,000	2,950,000	3,640,000	5,110,000	7,490,000	10,600,000	3,190,000	6,620,000	6,530,000	7,490,000	NA	16,400,000	NA	2,760,000
Antimony	1,040	822	689 U	1,320 U	957 U	743 U	670 U	623 U	668 U	640 U	670 U	10,000 U	10,100 U	9,700 U	35,800	30,400	NA	12,500 U	NA	9,700 U
Arsenic	6,850	4,940 S	4,300	4,480	8,840	9,390	2,680 U	4,060	3,980	2,840	6,330	6,500	3,400	4,500	12,500	11,700	NA	11,000	NA	2,300
Barium	142,000	150,000	76,200	86,600	109,000	71,500	41,400	35,800	41,400	47,700	76,800	77,700	79,900	45,800	57,000	68,400	NA	115,000	NA	23,900
Beryllium	1,010 U	793	689 U	658 U	957 U	743 U	670 U	623 U	668 U	640 U	670 U	840 U	840 U	810 U	640 U	700 U	NA	1,000 U	NA	810 U
Cadmium	447	299	170	170	400	281	76	72	80	163	231	190	840 U	180	1,300 U	700 U	NA	1,000 U	NA	810 U
Calcium	32,500,000	54,000,000	55,300,000	33,400,000	40,000,000	47,400,000	58,100,000	28,400,000	46,400,000	40,300,000	61,500,000	9,390,000	30,300,000	8,000,000	27,300,000	38,000,000	NA	30,600,000	NA	11,700,000
Chromium	45,100	71,500	19,400	18,200	34,400	15,800	8,970	8,100	8,480	13,400	16,500	20,100	13,900	12,600	119,000	136,000	3,900	28,700	NA	16,600
Chromium (as CrVI)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2200	NA	NA	NA
Cobalt	10,100 U	7,930 U	6,960	7,310	9,570 U	7,430 U	6,700 U	6,230 U	6,680 U	6,400 U	6,700 U	5,800	1,900	3,500	6,100	5,800	NA	8,800	NA	1,700
Copper	45,000	24,900	11,600	11,300	33,400	16,600	6,760	6,110	6,880	10,900	12,900	21,700	24,400	14,100	1,140,000	1,170,000	NA	26,700	NA	8,700
Cyanide, Total	500 U	250 U	340 U	500	480 U	370 U	330 U	310 U	330 U	320 U	330 U	840 U	840 U	810 U	270	700 U	NA	1,000 U	NA	810 U
Iron	48,600,000	26,600,000	14,600,000	16,200,000	35,200,000	14,600,000	8,160,000	8,530,000	8,770,000	12,000,000	13,400,000	14,500,000	24,800,000	8,940,000	72,500,000	71,700,000	NA	22,800,000	NA	5,720,000
Lead	32,500	32,400	5,690	6,930	19,800	7,600	2,990	3,580	3,640	8,710	6,310	25,100	14,300	21,400	237,000	245,000	NA	21,300	NA	7,000
Magnesium	12,200,000	17,600,000	20,700,000	15,100,000	12,000,000	15,600,000	15,000,000	5,160,000	12,600,000	11,900,000	19,700,000	4,730,000	1,810,000	3,400,000	1,300,000	1,530,000	NA	12,400,000	NA	1,830,000
Manganese	887,000	2,390,000	409,000	294,000	781,000	525,000	318,000	248,000	293,000	387,000	554,000	211,000	329,000	92,700	3,800,000	4,480,000	NA	363,000	NA	732,000
Mercury	111	95	69 U	66 U	99	74 U	67 U	62 U	67 U	64 U	67 U	85	16	46	120	120	NA	75	NA	15
Nickel	36,200	32,800	18,100	16,800	26,400	16,300	10,200	7,790	9,080	13,600	17,500	17,700	17,600	11,400	36,100	30,300	NA	24,900	NA	4,000
Potassium	2,190,000	2,660,000	2,170,000	1,940,000	1,710,000	757,000	801,000	623,000 U	668,000 U	906,000	973,000	1,530,000	426,000	1,200,000	629,000	736,000	NA	2,750,000	NA	441,000
Selenium	1,010 U*	396 U*	689 U *	1,320 U*	957 U*	743 U*	670 U*	623 U*	668 U*	640 U*	670 U*	2,000	1,600	880	1,300 U	4,600	NA	2,500	NA	560
Silver	1,010 U *	396 U *	689 U *	1,320 U*	957 U *	743 U *	670 U *	623 U*	668 U *	640 U *	670 U *	1,700 U	1,700 U	1,600 U	10,100	13,400	NA	2,100 U	NA	1,600 U
Sodium	1,300,000	836,000	689,000 U	658,000 U	957,000 U	743,000 U	670,000 U	623,000 U	668,000 U	640,000 U	670,000 U	240,000	313,000	558,000	196,000	236,000	NA	759,000	NA	166,000
Thallium	504 U	396 U	345 U	329 U	478 U	371 U	335 U	311 U	334 U	320 U	335 UW	1,700	1,400	1,600 U	880	6,500	NA	2,200	NA	1,200
Tin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	23,400	32,700	24,100	23,800	19,800	17,800	12,000	8,290	10,100	12,700	18,900	21,600	6,300	16,200	15,400	18,600	NA	36,100	22,000	7,100
Zinc	263,000	130,000	36,500	34,800	123,000	43,500	18,800	19,400	21,200	35,900	36,200	68,400	91,400	47,200	179,000	123,000	NA	73,900	NA	19,700
Total organic carbon (TOC), mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8900	NA	38000	NA

Notes:
ug/kg - micrograms per kilogram.
mg/kg - milligrams per kilogram.
NA - Not analyzed.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-1 (0 - 1.5') 6/15/95	SD-1 (1.5 - 3') 6/15/95	SD-1 (3 - 4.5') 6/15/95	SD-2 (0 - 1.7') 6/15/95	SD-2 (1.7 - 3.4') 6/15/95	SD-2 (3.4 - 5') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (1.3 - 2.6') 6/15/95	SD-3 (2.6 - 3.9') 6/15/95	SD-4 (0 - 1.5') 6/19/95	SD-4 (1.5 - 3') 6/19/95	SD-5 (0 - 1.8') 6/21/95	SD-5 (1.8 - 3.6') 6/21/95	SD-5 (3.6 - 5.4') 6/21/95	SD-6 (0 - 1.6') 6/21/95	SD-6 (1.6 - 3.2') 6/21/95	SD-6 (3.2 - 4.8') 6/21/95	SD-7 (0 - 1.3') 6/21/95	SD-7 (1.3 - 2.6') 6/21/95	SD-7 (2.6 - 3.9') 6/21/95	SD-8 (0 - 1.5') 6/21/95	SD-8 (1.5 - 3') 6/21/95	SD-8 (3 - 4.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (1.5 - 3') 6/21/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS
Volatile Organic Compounds (VOCs)																											
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 UJ	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,1,2,2-Tetrachloroethane	8.2 UJ	7.6 UJ	7.0 UJ	8.2 U	9.7 U	6.3 U	36 UJ	11 U	7.3 U	6.2 U	2,800 UJ	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,1,2-Trichloroethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,1-Dichloroethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 J	6.7 U	6.0 U	6.3 U	7.1 U
1,1-Dichloroethene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,2-Dichloroethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,2-Dichloroethene, Total [a]	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,2-Dichloropropane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,3-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,4-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	38 J	33 J	70 UJ	14 J	39 J	3.2 J	360 UJ	110 U	7.4 J	3.1 J	28,000 U	8,900 UJ	67 UJ	4.6 J	6.4 J	78 U	6.9 J	8.6 J	5.4 J	75 U	4.8 J	7.5 J	25 J	4.2 J	60 U	63 U	11 J
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	82 UJ	76 UJ	70 UJ	82 UJ	97 UJ	63 UJ	360 UJ	110 U	73 UJ	62 UJ	28,000 UJ	8,900 UJ	67 UJ	79 U	69 U	78 U	81 U	68 U	61 U	75 UJ	75 U	85 UJ	84 UJ	67 U	60 U	63 U	71 U
3-Chloro-1-propene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	82 UJ	76 UJ	70 UJ	82 UJ	97 UJ	63 UJ	360 UJ	110 U	73 UJ	62 UJ	28,000 U	8,900 U	67 U	79 UJ	69 U	78 U	81 U	68 U	61 U	75 UJ	75 U	85 UJ	84 UJ	67 U	60 U	63 U	71 U
Acetone	270 J	170 J	25 J	81 J	260 J	21 J	330 J	19 UJ	38 J	15 J	28,000 U	8,900 UJ	4.6 J	79 U	68 U	78 U	81 U	68 U	61 U	75 U	22 J	43 J	140 J	17 J	12 J	63 UJ	48 J
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	1,800 J	890 U	6.7 U	7.9 U	6.9 U	10	8.1 U	6.8 U	6.1 U	7.0 J	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Bromodichloromethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 UJ	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Bromoform	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Bromomethane	8.2 UJ	7.6 UJ	7.0 UJ	8.2 U	9.7 U	6.3 U	36 UJ	11 UJ	7.3 U	6.2 U	2,800 U	890 UJ	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Carbon disulfide	8.2 UJ	7.6 UJ	7.0 U	8.2 U	6.0 J	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 UJ	890 UJ	6.7 U	7.9 U	6.9 U	4.5 J	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	12	3.5 J	6.0 U	6.3 U	7.1 U
Carbon tetrachloride	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 UJ	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Chlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Chlorodibromomethane	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Chloroethane	8.2 UJ	7.6 UJ	7.0 UJ	8.2 U	9.7 U	6.3 U	36 UJ	11 UJ	7.3 U	6.2 U	2,800 U	890 J	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Chloroform	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Chloromethane	8.2 UJ	7.6 UJ	7.0 UJ	8.2 U	9.7 U	6.3 U	36 UJ	11 UJ	7.3 U	6.2 U	2,800 U	890 UJ	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 UJ	7.1 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene [b]	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	240 UJ	180 UJ	9.9 U	140 U	70 U	21 U	1,200	280 U	29 UJ	16 U	100,000	4,000	130 U	30 U	20 U	72 U	23 U	38 U	20 U	29 U	36 U	54 UJ	73 UJ	16 U	6.9 U	6.0 U	7.0 U
Propionitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U						

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-1 (0 - 1.5') 6/15/95	SD-1 (1.5 - 3') 6/15/95	SD-1 (3 - 4.5') 6/15/95	SD-2 (0 - 1.7') 6/15/95	SD-2 (1.7 - 3.4') 6/15/95	SD-2 (3.4 - 5') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (1.3 - 2.6') 6/15/95	SD-3 (2.6 - 3.9') 6/15/95	SD-4 (0 - 1.5') 6/19/95	SD-4 (1.5 - 3') 6/19/95	SD-5 (0 - 1.8') 6/21/95	SD-5 (1.8 - 3.6') 6/21/95	SD-5 (3.6 - 5.4') 6/21/95	SD-6 (0 - 1.6') 6/21/95	SD-6 (1.6 - 3.2') 6/21/95	SD-6 (3.2 - 4.8') 6/21/95	SD-7 (0 - 1.3') 6/21/95	SD-7 (1.3 - 2.6') 6/21/95	SD-7 (2.6 - 3.9') 6/21/95	SD-8 (0 - 1.5') 6/21/95	SD-8 (1.5 - 3') 6/21/95	SD-8 (3 - 4.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (1.5 - 3') 6/21/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS
Semi-Volatile Organic Compounds (SVOCs)																											
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
1,2-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 UJ	7.5 U	8.5 UJ	8.4 UJ	6.7 U	6.0 U	6.3 U	7.1 U
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	8.2 UJ	7.6 UJ	7.0 U	8.2 U	9.7 U	6.3 U	36 U	11 U	7.3 U	6.2 U	2,800 U	890 U	6.7 U	7.9 U	6.9 U	7.8 U	8.1 U	6.8 U	6.1 U	7.5 U	7.5 U	8.5 U	8.4 U	6.7 U	6.0 U	6.3 U	7.1 U
1,4-Naphthoquinone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(dichloropropane)	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 UJ	230 UJ	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2,4,6-Trichlorophenol	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2,4-Dichlorophenol	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2,4-Dimethylphenol	360 J	220 J	230 U	2,700 U	630	130	7,200 U	7,000 U	410	280	2,200 U	230 U	130	550	230 U	350	400	220 U	1,000 U	440	410	190	1,400 U	220 U	800 U	830 U	230 U
2,4-Dinitrophenol	5,300 U	6,100 U	1,100 U	13,000 U	3,100 U	2,000 U	35,000 U	34,000 U	1,200 U	2,000 U	11,000 UJ	1,100 U	1,100 U	2,500 U	1,100 U	1,200 U	3,200 U	1,100 U	4,900 U	3,000 U	2,400 U	1,400 U	6,700 U	1,100 U	3,900 U	4,000 U	1,100 U
2,4-Dinitrotoluene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2-Chlorophenol	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2-Methylphenol	230 J	1,300 U	230 U	2,700 U	360	70	7,200 U	7,000 U	310	150	2,200 U	230 U	70	520 U	230 U	220	120	220 U	1,000 U	230	78	180	1,400 U	220 U	800 U	830 U	230 U
2-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	5,300 U	6,100 U	1,100 U	13,000 U	3,100 U	2,000 U	35,000 U	34,000 U	1,200 U	2,000 U	11,000 U	1,100 U	1,100 U	2,500 U	1,100 U	1,200 U	3,200 U	1,100 U	4,900 U	3,000 U	2,400 U	1,400 U	6,700 U	1,100 U	3,900 U	4,000 U	1,100 U
2-Nitrophenol	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U
2-Picoline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	2,200 U	2,500 U	460 U	5,400 U	1,300 U	830 U	14,000 U	14,000 U	480 U	810 U	4,400 U	470 U	440 U	1,000 U	450 U	510 U	1,300 U	450 U	2,000 U	1,200 U	990 U	560 U	2,800 U	440 U	1,600 U	1,700 U	470 U
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	NA	NA	NA																								

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-1 (0 - 1.5') 6/15/95	SD-1 (1.5 - 3') 6/15/95	SD-1 (3 - 4.5') 6/15/95	SD-2 (0 - 1.7') 6/15/95	SD-2 (1.7 - 3.4') 6/15/95	SD-2 (3.4 - 5') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (1.3 - 2.6') 6/15/95	SD-3 (2.6 - 3.9') 6/15/95	SD-4 (0 - 1.5') 6/19/95	SD-4 (1.5 - 3') 6/19/95	SD-5 (0 - 1.8') 6/21/95	SD-5 (1.8 - 3.6') 6/21/95	SD-5 (3.6 - 5.4') 6/21/95	SD-6 (0 - 1.6') 6/21/95	SD-6 (1.6 - 3.2') 6/21/95	SD-6 (3.2 - 4.8') 6/21/95	SD-7 (0 - 1.3') 6/21/95	SD-7 (1.3 - 2.6') 6/21/95	SD-7 (2.6 - 3.9') 6/21/95	SD-8 (0 - 1.5') 6/21/95	SD-8 (1.5 - 3') 6/21/95	SD-8 (3 - 4.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (1.5 - 3') 6/21/95	
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS		
Methyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitroso-di-n-propylamine	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 UJ	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodiphenylamine	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosomorpholine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosopiperidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Nitrobenzene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
o-Toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Phenylene diamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachlorophenol	5,300 U	6,100 U	1,100 U	13,000 U	3,100 UJ	2,000 U	35,000 U	34,000 U	1,200 U	2,000 UJ	11,000 U	1,100 U	1,100 U	2,500 U	1,100 U	1,200 U	3,200 U	1,100 U	4,900 U	3,000 U	2,400 U	1,400 U	6,700 U	1,100 U	3,900 U	4,000 U	1,100 U	
Phenacetin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Phenol	340 J	1,300 U	230 U	2,700 U	390	73	7,200 U	7,000 U	310	140	2,200 U	230 U	39	520 U	230 U	260 U	670 U	220 U	1,000 U	300	79	280 U	1,400 U	220 U	800 U	86	230 U	
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Safrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Tetraethyl Dithiopyrophosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Polycyclic Aromatic Hydrocarbons (PAHs)																												
Acenaphthene	1,100 U	1,300 U	230 U	2,700 U	200	50	7,200 U	7,000 U	150	92	2,200 U	230 U	24	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
Acenaphthylene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
Anthracene	170	140	230 U	2,700 U	230	70	7,200 U	7,000 U	180	110	2,200 U	230 U	53	520 U	230 U	100	110	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	85	100	230 U	
Fluorene	300	1,300 U	230 U	2,700 U	520	130	7,200 U	7,000 U	400	230	2,200 U	230 U	100	520 U	230 U	180	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
Naphthalene	1,500	700	48	1,900	2,800	630	3,800	4,400	1,700	1,200	610	230 U	510	610	230 U	1,000	1,100	38	600	820	330	710	1,500	220	250	200	230 U	
Phenanthrene	1,100	640	70	2,700 U	1,800	540	2,200	2,300	1,200	840	2,200 U	230 U	380	430	230 U	750	690	34	450	430	240	290	720	140	760	1,000	230 U	
Benzo(a)anthracene	1,100 U	1,300 U	230 U	2,700 U	200	75	7,200 U	7,000 U	160	99	2,200 U	230 U	44	520 U	230 U	77	85	220 U	1,000 U	620 U	69	280 U	1,400 U	220 U	800 U	550	230 U	
Benzo(a)pyrene	130	1,300 U	230 U	2,700 U	220	420 U	7,200 U	7,000 U	100	78	2,200 U	230 U	28	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	330	640	230 U	
Benzo(b)fluoranthene	150	1,300 U	230 U	2,700 U	280	95	7,200 U	7,000 U	130	120	2,200 U	230 U	40	520 U	230 U	120	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	580	1,100	230 U	
Benzo(g,h,i)perylene	1,100 U	1,300 U	230 U	2,700 U	150	45	7,200 U	7,000 U	82	83	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	140	220	230 U	
Benzo(k)fluoranthene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	390	230 U	
Chrysene	1,100 U	260	230 U	2,700 U	270	100	7,200 U	7,000 U	210	130	2,200 U	230 U	65	520 U	230 U	120	150	220 U	1,000 U	620 U	86	280 U	1,400 U	220 U	490	770	230 U	
Dibenz(a,h)anthracene	1,100 U	1,300 U	230 U	2,700 U	640 U	420 U	7,200 U	7,000 U	240 U	410 U	2,200 U	230 U	220 U	520 U	230 U	260 U	670 U	220 U	1,000 U	620 U	500 U	280 U	1,400 U	220 U	800 U	830 U	230 U	
Fluoranthene	390	420	75	770	710	180	1,000	1,100	520	290	2,200 U	230 U	110	150	230 U	220	250	220 U	270	150	150	280 U	210	60	1,200	1,700	31	
Indeno(1,2,3-cd)pyrene	1,100 U	1,300 U	230 U	2,700 U	70	420 U	7,200 U	7,000 U																				

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-1 (0 - 1.5') 6/15/95	SD-1 (1.5 - 3') 6/15/95	SD-1 (3 - 4.5') 6/15/95	SD-2 (0 - 1.7') 6/15/95	SD-2 (1.7 - 3.4') 6/15/95	SD-2 (3.4 - 5') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (0 - 1.3') 6/15/95	SD-3 (1.3 - 2.6') 6/15/95	SD-3 (2.6 - 3.9') 6/15/95	SD-4 (0 - 1.5') 6/19/95	SD-4 (1.5 - 3') 6/19/95	SD-5 (0 - 1.8') 6/21/95	SD-5 (1.8 - 3.6') 6/21/95	SD-5 (3.6 - 5.4') 6/21/95	SD-6 (0 - 1.6') 6/21/95	SD-6 (1.6 - 3.2') 6/21/95	SD-6 (3.2 - 4.8') 6/21/95	SD-7 (0 - 1.3') 6/21/95	SD-7 (1.3 - 2.6') 6/21/95	SD-7 (2.6 - 3.9') 6/21/95	SD-8 (0 - 1.5') 6/21/95	SD-8 (1.5 - 3') 6/21/95	SD-8 (3 - 4.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (0 - 1.5') 6/21/95	SD-9 (1.5 - 3') 6/21/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS
Pesticide/Herbicide																											
2,4,5-T	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34 U	39 U	34 U	39 U	40 U	34 U	30 U	38 U	38 U	43 U	42 U	34 U	NA	NA	NA
2,4,5-TP(Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34 U	39 U	34 U	39 U	40 U	34 U	30 U	38 U	38 U	43 U	42 U	34 U	NA	NA	NA
2,4-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130 U	160 U	140 U	160 U	160 U	140 U	120 U	150 U	150 U	170 U	170 U	130 U	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
Aldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	2.3 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	2.8 U	2.8 U*	4.5 U*	NA	NA	NA
beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
Dinoseb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 UJ	16 UJ	14 UJ	16 UJ	16 UJ	14 UJ	12 UJ	15 UJ	15 UJ	17 UJ	17 UJ	13 UJ	NA	NA	NA
Endosulfan I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	2.3 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	2.8 U	2.8 U*	4.5 U*	NA	NA	NA
Endosulfan II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 *	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
Endrin aldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
Endrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.5 U*	5.2 U	2.3 U	5.2 U*	5.4 U*	4.5 U*	16 U	50 U	20 U	2.8 U	5.6 U*	8.9 U*	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	2.3 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	2.8 U	2.8 U*	4.5 U*	NA	NA	NA
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
Heptachlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U*	2.6 U	1.2 U	2.6 U*	2.7 U*	2.3 U*	8.1 U	25 U	10 U	1.5 U	2.8 U*	4.5 U*	NA	NA	NA
Isodrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11 U	13 U	11 U	12 U	13 U	11 U	9.8 U	25 U	12 U	14 U	13 U	11 U	NA	NA	NA
Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	130 U	110 U	120 U	130 U	110 U	210 *	400 U	160 U	140 U	130 U	110 U	NA	NA	NA
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34 UJ	39 UJ	34 UJ	39 UJ	40 U	34 U	81 U	250 U	100 U	43 U	42 U	34 U	NA	NA	NA
Toxaphene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110 U	130 U	120 U	130 U	140 U	120 U	410 U	1,300 U	500 U	150 U	140 U	110 U	NA	NA	NA
Dioxin/Furan																											
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0058	0.0087	0.0013 U	0.004	0.008	0.0014 U	0.013	0.0064	0.011	0.0028	0.0026	0.0018	NA	NA	NA
HxCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	0.24	0.013	0.052	0.14	0.016	0.079	0.095	0.2	0.037	0.049	0.064	NA	NA	NA
HxCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.13	0.13	0.0030 U	0.063	0.2	0.019	0.082	0.37	0.48	0.075	0.057	0.044	NA	NA	NA
PeCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0099	0.032	0.0024 U	0.0067 U	0.02	0.0028 U	0.0065 U	0.011 U	0.05	0.0059 U	0.0054 U	0.0065 U	NA	NA	NA
PeCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.094	0.21	0.0066 U	0.29	0.57	0.056	0.16	2.5	1.3	0.35	0.33	0.12	NA	NA	NA
TCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	NA	NA	NA
TCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.26	0.47	0.04	0.62	1.2	0.2	0.39	6.6	2.4	0.73	0.72	0.28	NA	NA	NA
2,3,7,8-TCDD TEQ (mammal)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.027	0.058	0.0014	0.052	0.12	0.016	0.047	0.65	0.29	0.056	0.039	0.021	NA	NA	NA

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-10 (0 - 0.5') 6/20/95	SD-10 (0.75 - 1.25') 6/20/95	SD-10 (1.5 - 2') 6/20/95	SD-10 (0-0.5') 10/11/16	SD-11 (0 - 0.5') 6/20/95	SD-11 (0.9 - 1.4') 6/20/95	SD-11 (1.8 - 2.3') 6/20/95	SD-12 (0 - 0.5') 6/20/95	SD-12 (1.05 - 1.55') 6/20/95	SD-12 (1.05 - 1.55') 6/20/95	SD-12 (2.1 - 2.6') 6/20/95	SD-13 (0 - 0.5') 6/20/95	SD-13 (1.45 - 1.95') 6/20/95	SD-13 (2.9 - 3.4') 6/20/95	SD-13 (0-0.5') 10/11/16	SD-14 (0 - 0.5') 6/20/95	SD-14 (0.9 - 1.4') 6/20/95	SD-14 (1.8 - 2.3') 6/20/95	SD-14 (0-0.5') 10/11/16	SD-15 (0 - 0.5') 6/20/95	SD-15 (0.9 - 1.4') 6/20/95	SD-15 (1.8 - 2.3') 6/20/95	SD-16 (0 - 0.5') 6/20/95	SD-16 (1.1 - 1.6') 6/20/95	SD-16 (2.2 - 2.7') 6/20/95	SD-17 (0 - 0.5') 6/20/95	SD-17 (0 - 0.5') 6/20/95	
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	
Volatile Organic Compounds (VOCs)																												
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U
1,1,1-Trichloroethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
1,1,2,2-Tetrachloroethane	9.8 UJ	R	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
1,1,2-Trichloroethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
1,1-Dichloroethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
1,1-Dichloroethene	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31 U	20 U	
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
1,2-Dichlorobenzene	9.8 U	R	6.8 U	NA	8.9 U	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 U	R	16 U	10 U	
1,2-Dichloroethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 UJ	8.1 UJ	16 U	10 U	
1,2-Dichloroethene, Total [a]	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	NA	NA	
1,2-Dichloropropane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
1,3-Dichlorobenzene	9.8 U	R	6.8 U	NA	8.9 U	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
1,4-Dichlorobenzene	9.8 U	R	6.8 U	NA	8.9 U	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	R	R	
2-Butanone	18 J	14 J	3.7 J	NA	13 J	5.1 J	21 J	18 J	45 J	11 J	46 J	30 J	46 J	7.6 J	NA	24 J	31 J	18 J	NA	37 J	28 J	23 J	26 J	7.3 J	23 J	18 J	8.2 J	
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 UJ	
2-Hexanone	98 UJ	R	68 U	NA	R	100 U	110 U	130 U	180 U	160 U	100 U	150 U	180 UJ	90 UJ	NA	130 U	180 U	100 U	NA	140 U	140 U	92 U	R	78 UJ	R	160 U	100 UJ	
3-Chloro-1-propene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
4-Methyl-2-pentanone	98 UJ	R	68 U	NA	R	100 U	110 U	130 U	180 U	160 U	100 U	150 U	180 UJ	90 UJ	NA	130 U	180 U	100 U	NA	140 U	140 U	92 U	R	78 UJ	R	160 U	100 U	
Acetone	61 J	63 J	14 J	NA	58 J	22 J	90 J	96 J	240	59 J	240	120 J	190 J	31 J	NA	130	110 JB	100 U	NA	210	150	100	99 J	26 J	110 J	89 J	40 J	
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160 U	100 U	
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160 U	100 UJ	
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160 U	100 U	
Benzene	9.8 U	82 J	6.8 U	NA	26 J	10 U	11 U	9.2 J	18 U	16 U	10 U	8.4 J	18 U	9.0 UJ	NA	9.1 J	18 U	10 U	NA	14 U	14 U	9.2 U	36 J	7.8 U	8.1 UJ	16 U	10 U	
Bromodichloromethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Bromoform	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Bromomethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Carbon disulfide	9.8 U	4.9 J	6.8 U	NA	R	7.9 J	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	4.6 J	16 U	10 U	
Carbon tetrachloride	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Chlorobenzene	9.8 UJ	R	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
Chlorodibromomethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Chloroethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Chloroform	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Chloromethane	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
cis-1,3-Dichloropropene [b]	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
Ethylbenzene	9.8 UJ	6.9 J	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	4.4 J	7.8 UJ	R	16 U	10 U	
Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31 U	20 UJ	
Isobutyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,600 U	R	
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	63 U	40 U	
Methyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 U	10 U	
Methylene chloride	29 U	24	26 U	NA	R	11 U	36 U	13 U	26 U	25 U	17 U	330 U	240 U	160 UJ	NA	57 U	81 U	28 U	NA	490 U	75 U	84 U	71 UJ	5.9 U	24 UJ	540 U	170 U	
Propionitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	63 U	40 U	
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U	
Styrene	9.8 UJ	R	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
Tetrachloroethene	9.8 UJ	R	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	R	7.8 UJ	R	16 U	10 U	
Toluene	9.8 UJ	41 J	6.8 U	NA	8.4 J	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 UJ	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	11 J	7.8 UJ	R	16 U	10 U	
trans-1,2-Dichloroethene	9.8 U	10 UJ	6.8 U	NA	R	10 U	11 U	13 U	18 U	16 U	10 U	15 U	18 U	9.0 UJ	NA	13 U	18 U	10 U	NA	14 U	14 U	9.2 U	10 UJ	7.8 U	8.1 UJ	16 U	10 U	
trans-1,3-Dichloropropene [b]	9.8 U	10 UJ	6.8 U																									

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-10 (0 - 0.5')	SD-10 (0.75 - 1.25')	SD-10 (1.5 - 2')	SD-10 (0-0.5')	SD-11 (0 - 0.5')	SD-11 (0.9 - 1.4')	SD-11 (1.8 - 2.3')	SD-12 (0 - 0.5')	SD-12 (1.05 - 1.55')	SD-12 (1.05 - 1.55')	SD-12 (2.1 - 2.6')	SD-13 (0 - 0.5')	SD-13 (1.45 - 1.95')	SD-13 (2.9 - 3.4')	SD-13 (0-0.5')	SD-14 (0 - 0.5')	SD-14 (0.9 - 1.4')	SD-14 (1.8 - 2.3')	SD-14 (0-0.5')	SD-15 (0 - 0.5')	SD-15 (0.9 - 1.4')	SD-15 (1.8 - 2.3')	SD-16 (0 - 0.5')	SD-16 (1.1 - 1.6')	SD-16 (2.2 - 2.7')	SD-17 (0 - 0.5')	SD-17 (0 - 0.5')
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	
Methyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U	
N-Nitroso-di-n-propylamine	6,400 U	6,800 U	1,100 U	NA	290 U	6,600 U	1,400 U	1,700 U	2,300 UJ	2,100 U	1,300 U	2,600 U	3,000 U	740 UJ	NA	1,700 U	2,300 U	1,400 U	NA	2,400 U	1,900 U	300 U	1,300 U	1,000 UJ	540 U	650 U	530 U
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosodiphenylamine	6,400 U	6,800 U	1,100 U	NA	290 U	6,600 U	1,400 U	1,700 U	2,300 U	2,100 U	1,300 U	2,600 U	3,000 U	740 UJ	NA	1,700 U	2,300 U	1,400 U	NA	2,400 U	1,900 U	300 U	1,300 U	1,000 UJ	540 U	650 U	530 U
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosomorpholine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosopiperidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
Nitrobenzene	6,400 U	6,800 U	1,100 U	NA	290 U	6,600 U	1,400 U	1,700 U	2,300 U	2,100 U	1,300 U	2,600 U	3,000 U	740 UJ	NA	1,700 U	2,300 U	1,400 U	NA	2,400 U	1,900 U	300 U	1,300 U	1,000 UJ	540 U	650 U	530 U
o-Toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
p-Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300 U	1,100 U
p-Phenylene diamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100 UJ	2,600 U
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100 U	2,600 U
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100 U	2,600 U
Pentachlorophenol	31,000 U	33,000 U	5,500 U	NA	1,400 U	32,000 U	6,900 U	8,300 U	11,000 U	10,000 U	6,400 U	12,000 U	14,000 U	3,600 U	NA	8,400 U	11,000 U	6,600 U	NA	11,000 U	9,200 U	1,500 U	6,400 U	5,000 UJ	2,600 U	3,100 U	2,600 U
Phenacetin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100 U	2,600 U
Phenol	5,100	6,800 U	1,100 U	NA	2,200	6,600 U	1,400 U	2,500	490	610	1,300 U	2,600 U	3,000 U	740 U	NA	1,100	470	1,400 U	NA	740	1,900 U	40	840	530	540 U	440	290
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300 U	1,100 U
Safrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	650 U	530 U
Tetraethyl Dithiopyrophosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,100 U	2,600 U
Polycyclic Aromatic Hydrocarbons (PAH)																											
Acenaphthene	6,400 U	6,800 U	1,100 U	270	100	6,600 U	1,400 U	540	670	660	1,300 U	2,600 U	3,000 U	740 U	<190	1,700 U	2,300 U	1,400 U	110	2,400 U	290	53	1,300 U	380	540 U	400	250
Acenaphthylene	6,400 U	6,800 U	1,100 U	<240	290 U	6,600 U	1,400 U	1,700 U	2,300 U	2,100 U	1,300 U	2,600 U	3,000 U	740 U	<190	1,700 U	2,300 U	1,400 U	<190	2,400 U	1,900 U	300 U	1,300 U	1,000 U	540 U	650 U	530 U
Anthracene	1,000	6,800 U	1,100 U	500	690	6,600 U	220	780	1,400	990	820	440	500	94	<190	350	620	150	230	2,400 U	430	76	320	500	540 U	620	450
Fluorene	6,400 U	6,800 U	1,100 U	800	620	6,600 U	470	1,500	2,100	1,800	320	2,600 U	1,300	190	150	700	1,000	370	380	560	850	180	1,300 U	1,100	540 U	1,300	930
Naphthalene	12,000	2,100	180	4,500	3,600	6,300	990	8,300	8,100	8,000	670	5,000	5,600	1,000	1,200	4,100	4,500	760	2,500	3,800	3,400	450	3,400	4,800	680	5,900	4,400
Phenanthrene	6,700	860	1,100 U	3,200	2,100	3,700	890	5,000	6,200	5,400	800	2,500	3,000	620	780	2,200	2,900	780	1,500	1,700	2,300	430	1,900	3,400	430	4,400	3,200
Benzo(a)anthracene	6,400 U	6,800 U	1,100 U	620	160	6,600 U	1,400 U	1,700 U	940	2,100 U	1,300 U	2,600 U	3,000 U	80	220	1,700 U	2,300 U	1,400 U	360	2,400 U	270	75	1,300 U	310	540 U	330	260
Benzo(a)pyrene	6,400 U	6,800 U	1,100 U	360	73	6,600 U	1,400 U	250	470	350	1,300 U	2,600 U	3,000 U	740 U	230	1,700 U	2,300 U	1,400 U	200	2,400 U	1,900 U	300 U	1,300 U	250	540 U	180	120
Benzo(b)fluoranthene	6,400 U	6,800 U	1,100 U	490	140	6,600 U	1,400 U	460	980	690	150	2,600 U	3,000 U	740 U	430	1,700 U	380	1,400 U	260	2,400 U	1,900 U	53	1,300 U	390	540 U	350	250
Benzo(g,h,i)perylene	6,400 U	6,800 U	1,100 U	500	45	6,600 U	1,400 U	200	290	220	1,300 U	2,600 U	3,000 U	740 U	210	1,700 U	2,300 U	1,400 U	280	2,400 U	1,900 U	300 U	1,300 U	150	540 U	140	93
Benzo(k)fluoranthene	6,400 U	6,800 U	1,100 U	<240	290 U	6,600 U	1,400 U	1,700 U	2,300 U	2,100 U	1,300 U	2,600 U	3,000 U	740 U	160	1,700 U	2,300 U	1,400 U	<190	2,400 U	1,900 U	300 U	1,300 U	1,000 U	540 U	650 U	530 U
Chrysene	6,400 U	6,800 U	1,100 U	600	200	6,600 U	1,400 U	630	1,400	910	220	2,600 U	650	120	220	350	660	1,400 U	310	270	430	130	1,300 U	510	100	550	400
Dibenz(a,h)anthracene	6,400 U	6,800 U	1,100 U	<240	290 U	6,600 U	1,400 U	1,700 U	2,300 U	2,100 U	1,300 U	2,600 U	3,000 U	740 U	<190	1,700 U	2,300 U	1,400 U	<190	2,400 U	1,900 U	300 U	1,300 U	1,000 U	540 U	650 U	530 U
Fluoranthene	1,800	6,800 U	1,100 U	960	1900	1,200	310	1,800	2,600	2,400	420	800	1,000	170	400	720	1100	340	540								

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-10 (0 - 0.5') 6/20/95	SD-10 (0.75 - 1.25') 6/20/95	SD-10 (1.5 - 2') 6/20/95	SD-10 (0-0.5') 10/11/16	SD-11 (0 - 0.5') 6/20/95	SD-11 (0.9 - 1.4') 6/20/95	SD-11 (1.8 - 2.3') 6/20/95	SD-12 (0 - 0.5') 6/20/95	SD-12 (1.05 - 1.55') 6/20/95	SD-12 (1.05 - 1.55') 6/20/95	SD-12 (2.1 - 2.6') 6/20/95	SD-13 (0 - 0.5') 6/20/95	SD-13 (1.45 - 1.95') 6/20/95	SD-13 (2.9 - 3.4') 6/20/95	SD-13 (0-0.5') 10/11/16	SD-14 (0 - 0.5') 6/20/95	SD-14 (0.9 - 1.4') 6/20/95	SD-14 (1.8 - 2.3') 6/20/95	SD-14 (0-0.5') 10/11/16	SD-15 (0 - 0.5') 6/20/95	SD-15 (0.9 - 1.4') 6/20/95	SD-15 (1.8 - 2.3') 6/20/95	SD-16 (0 - 0.5') 6/20/95	SD-16 (1.1 - 1.6') 6/20/95	SD-16 (2.2 - 2.7') 6/20/95	SD-17 (0 - 0.5') 6/20/95	SD-17 (0 - 0.5') 6/20/95	
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	
Pesticide/Herbicide				NA											NA				NA									
2,4,5-T	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39 U	40 U
2,4,5-TP(Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39 U	40 U
2,4-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160 U	160 U
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U*	5.4 U*
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 UJ*	5.4 UJ*
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U*	5.4 U*
Aldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 UJ*	2.7 UJ*
alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U*	2.7 U*
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 UJ*	2.7 UJ*
beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U*	2.7 UJ*
delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U*	2.7 UJ*
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U*	5.4 U*
Dinoseb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16 UJ	16 UJ
Endosulfan I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.6 U	2.7 U*
Endosulfan II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 UJ*	5.4 UJ*
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U *	5.4 U *
Endrin aldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 UJ*	5.4 UJ*
Endrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.2 U*	5.4 U*
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U*	2.7 U*
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 UJ*	2.7 UJ*
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 UJ*	2.7 UJ*
Heptachlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U*	2.7 U*
Isodrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13 U	13 U
Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130 U	130 U
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39 U	40 U
Toxaphene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130 U	140 U
Dioxin/Furan				NA											NA				NA									
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0018 U	0.0019
HxCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.045	0.036
HxCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.038	0.02
PeCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA</			

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-17 (0.95 - 1.45') 6/20/95	SD-17 (1.9 - 2.4') 6/20/95	SD-18 (0 - 0.5') 6/20/95	SD-18 (2.25 - 2.75') 6/20/95	SD-18 (4.5 - 5') 6/20/95	SD-18 (0-0.5') 10/11/16	SD-19 (0 - 0.5') 6/20/95	SD-19 (1.75 - 2.25') 6/20/95	SD-19 (3.5 - 4') 6/20/95	SD-20 (0 - 0.5') 6/20/95	SD-20 (0.7 - 1.2') 6/20/95	SD-20 (1.4 - 1.9') 6/20/95	SD-21 (0 - 0.5') 6/20/95	SD-21 (0.65 - 1.15') 6/20/95	SD-21 (1.3 - 1.8') 6/20/95	SD-21 (0-0.5') 10/11/16	SD-22 (0 - 1.2') 6/19/95	SD-22 (1.2 - 2.4') 6/19/95	SD-22 (2.4 - 3.6') 6/19/95	SD-23 (0 - 1.2') 6/19/95	SD-23 (1.2 - 2.4') 6/19/95	SD-23 (2.4 - 3.6') 6/19/95	SD-24 (0 - 1.5') 6/19/95	SD-24 (1.5 - 3') 6/19/95	SD-25 (0 - 1.1') 6/19/95	SD-25 (1.1 - 2.2') 6/19/95	SD-25 (2.2 - 3.3') 6/19/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Volatile Organic Compounds (VOCs)																											
1,1,1,2-Tetrachloroethane	8.7 UJ	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,1,2,2-Tetrachloroethane	8.7 UJ	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,1,2-Trichloroethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,1-Dichloroethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,1-Dichloroethene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,2,3-Trichloropropane	8.7 UJ	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	17 UJ	16 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	8.7 U	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,2-Dichloroethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,2-Dichloroethene, Total [a]	NA	NA	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,2-Dichloropropane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,3-Dichlorobenzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,4-Dichlorobenzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,4-Dioxane	R	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	41 J	13 J	38 J	5.7 J	4.9 J	NA	94 J	4.5 J	73 U	27 J	21 J	28 J	150 U	16 J	10 J	NA	61 U	5.2 UJ	6.4 U	7,600 U	5.5 J	69 U	19 J	9.9 J	3.8 U	4.5 U	5.9 U
2-Chloro-1,3-butadiene	8.7 UJ	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	87 UJ	78 UJ	660 U	110 U	74 U	NA	770 U	110 U	73 U	140 U	150 U	93 U	150 U	160 U	88 U	NA	61 UJ	67 UJ	67 U	7,600 U	74 U	69 U	79 U	78 U	70 U	66 U	70 U
3-Chloro-1-propene	8.7 U	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	87 UJ	78 UJ	660 U	110 U	74 U	NA	770 U	110 U	73 U	140 U	150 U	93 U	150 U	160 U	88 U	NA	61 UJ	67 UJ	67 U	7,600 U	74 U	69 U	79 U	78 U	70 U	66 U	70 U
Acetone	190 J	53 J	160 J	24 J	21 J	NA	610 J	37 J	9.7 J	93 U	120 J	120	150 U	98 J	83 J	NA	9.9 UJ	37 UJ	33 UJ	7,600 U	21 U	12 J	120 JB	43 J	18 UJ	24 UJ	34 UJ
Acetonitrile	87 U	78 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	87 UJ	78 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	87 U	78 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Bromodichloromethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Bromoform	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Bromomethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 UJ	760 UJ	7.4 U	6.9 U	7.9 U	7.8 U	7.0 UJ	6.6 UJ	7.0 UJ
Carbon disulfide	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Carbon tetrachloride	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Chlorobenzene	8.7 UJ	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Chlorodibromomethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Chloroethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 UJ	760 UJ	7.4 UJ	6.9 U	7.9 UJ	7.8 U	7.0 UJ	6.6 UJ	7.0 UJ
Chloroform	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Chloromethane	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 UJ	760 UJ	7.4 U	6.9 U	7.9 U	7.8 U	7.0 UJ	6.6 UJ	7.0 UJ
cis-1,2-Dichloroethene	8.7 U	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene [b]	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Dibromomethane	8.7 U	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	8.7	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	8.7 UJ	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Iodomethane	17 U	16 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutyl alcohol	R	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	35 U	31 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	8.7 U	7.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	74 U	44 UJ	890 U	11 U	12 U	NA	1,600	28 U	19 U	25 U	61 U	44 U	13 U	21 U	9.3 U	NA	6.0 U	12 U	11 U	8,000 U	96 U	40 U	7.9 U	8.4 U	7.0 U	15 U	7.0 U
Propionitrile	35 U	31 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	8.7 UJ	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
Tetrachloroethene	8.7 UJ	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-17 (0.95 - 1.45') 6/20/95	SD-17 (1.9 - 2.4') 6/20/95	SD-18 (0 - 0.5') 6/20/95	SD-18 (2.25 - 2.75') 6/20/95	SD-18 (4.5 - 5') 6/20/95	SD-18 (0-0.5') 10/11/16	SD-19 (0 - 0.5') 6/20/95	SD-19 (1.75 - 2.25') 6/20/95	SD-19 (3.5 - 4') 6/20/95	SD-20 (0 - 0.5') 6/20/95	SD-20 (0.7 - 1.2') 6/20/95	SD-20 (1.4 - 1.9') 6/20/95	SD-21 (0 - 0.5') 6/20/95	SD-21 (0.65 - 1.15') 6/20/95	SD-21 (1.3 - 1.8') 6/20/95	SD-21 (0-0.5') 10/11/16	SD-22 (0 - 1.2') 6/19/95	SD-22 (1.2 - 2.4') 6/19/95	SD-22 (2.4 - 3.6') 6/19/95	SD-23 (0 - 1.2') 6/19/95	SD-23 (1.2 - 2.4') 6/19/95	SD-23 (2.4 - 3.6') 6/19/95	SD-24 (0 - 1.5') 6/19/95	SD-24 (1.5 - 3') 6/19/95	SD-25 (0 - 1.1') 6/19/95	SD-25 (1.1 - 2.2') 6/19/95	SD-25 (2.2 - 3.3') 6/19/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Semi-Volatile Organic Compounds (SVC)																											
1,2,4,5-Tetrachlorobenzene	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
1,2-Dichlorobenzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 UJ	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,3,5-Trinitrobenzene	R	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	8.7 U	7.8 UJ	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 UJ	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,3-Dinitrobenzene	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	8.7 U	7.8 U	66 U	11 U	7.4 U	NA	77 U	11 U	7.3 U	14 U	15 U	9.3 U	15 U	16 U	8.8 U	NA	6.1 U	6.7 U	6.7 U	760 U	7.4 U	6.9 U	7.9 U	7.8 U	7.0 U	6.6 U	7.0 U
1,4-Naphthoquinone	14,000 U	26,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Naphthylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(dichloropropane)	720 U	1,300 U	870 U	3,600 UJ	490 UJ	NA	5,100 UJ	3,500 UJ	970 UJ	4,500 UJ	2,000 UJ	1,500 UJ	9,800 UJ	2,600 UJ	720 UJ	NA	200 UJ	220 U	220 UJ	200 U	240 U	230 U	260 U	260 U	230 UJ	220 UJ	230 UJ
2,3,4,6-Tetrachlorophenol	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2,4,6-Trichlorophenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2,4-Dichlorophenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2,4-Dimethylphenol	340	460	350	3,600 U	490 U	NA	5,100 U	3,500 U	350	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2,4-Dinitrophenol	3,500 UJ	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 UJ	1,100 UJ	1,100 UJ	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 UJ	1,100 UJ	1,100 UJ
2,4-Dinitrotoluene	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 UJ	220 UJ	200 U	240 U	230 U	260 U	260 U	230 U	220 UJ	230 U
2,6-Dichlorophenol	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 UJ	220 UJ	200 U	240 U	230 U	260 U	260 U	230 U	220 UJ	230 U
2-Acetylaminofluorene	1,400 U	2,600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2-Chlorophenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2-Methylphenol	160	270	260	3,600 U	75	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2-Naphthylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	3,500 U	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 U	1,100 U	1,100 U	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 U	1,100 U	1,100 U
2-Nitrophenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
2-Picoline	1,400 U	2,600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1,400 U	2,600 U	1,700 U	7,200 U	980 U	NA	10,000 U	6,900 U	1,900 U	8,900 U	4,000 U	3,100 U	20,000 U	5,300 U	1,400 U	NA	400 U	440 U	440 U	400 U	490 U	450 U	520 U	510 U	460 U	430 U	460 U
3,3'-Dimethylbenzidine	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylcholanthrene	7,200 U	13,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	170	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	3,500 U	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 U	1,100 U	1,100 U	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 U	1,100 U	1,100 U
4,6-Dinitro-2-methylphenol	3,500 U	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 U	1,100 UJ	1,100 UJ	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 U	1,100 UJ	1,100 U
4-Aminobiphenyl	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
4-Chloro-3-methylphenol	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
4-Chloroaniline	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
4-Chlorophenyl phenyl ether	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 UJ	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
4-Methylphenol	170	300	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U
4-Nitroaniline	3,500 U	6,200 UJ	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 UJ	1,100 UJ	1,100 UJ	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 UJ	1,100 UJ	1,100 UJ
4-Nitrophenol	3,500 U	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 UJ	1,100 UJ	1,100 UJ	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 UJ	1,100 UJ	1,100 UJ
4-Nitroquinoline1-oxide	7,200 UJ	R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	7,200 U	13,000 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha,alpha-Dimethyl phenethylamine	7,000 UJ	12,000 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	720 U	1,300 U	NA	NA	NA</																						

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-17 (0.95 - 1.45')	SD-17 (1.9 - 2.4')	SD-18 (0 - 0.5')	SD-18 (2.25 - 2.75')	SD-18 (4.5 - 5')	SD-18 (0-0.5')	SD-19 (0 - 0.5')	SD-19 (1.75 - 2.25')	SD-19 (3.5 - 4')	SD-20 (0 - 0.5')	SD-20 (0.7 - 1.2')	SD-20 (1.4 - 1.9')	SD-21 (0 - 0.5')	SD-21 (0.65 - 1.15')	SD-21 (1.3 - 1.8')	SD-21 (0-0.5')	SD-22 (0 - 1.2')	SD-22 (1.2 - 2.4')	SD-22 (2.4 - 3.6')	SD-23 (0 - 1.2')	SD-23 (1.2 - 2.4')	SD-23 (2.4 - 3.6')	SD-24 (0 - 1.5')	SD-24 (1.5 - 3')	SD-25 (0 - 1.1')	SD-25 (1.1 - 2.2')	SD-25 (2.2 - 3.3')	
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS		
Methyl methanesulfonate	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitroso-di-n-propylamine	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
N-Nitrosodi-n-butylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosodiethylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosodimethylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosodiphenylamine	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
N-Nitrosomethylethylamine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosomorpholine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosopiperidine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Nitrosopyrrolidine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrobenzene	720 U	1,300 U	870 U	3,600 U	490 U	NA	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
o-Toluidine	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
p-Chlorobenzilate	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
p-Dimethylaminoazobenzene	1,400 U	2,600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
p-Phenylene diamine	3,500 U	6,200 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachlorobenzene	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachloroethane	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachloronitrobenzene	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pentachlorophenol	3,500 UJ	6,200 U	4,200 U	17,000 U	2,400 U	NA	25,000 U	17,000 U	4,700 U	22,000 U	9,800 U	7,500 U	47,000 U	13,000 U	3,500 U	NA	980 U	1,100 U	1,100 U	970 U	1,200 U	1,100 U	1,300 U	1,200 U	1,100 U	1,100 U	1,100 U	
Phenacetin	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenol	98	1,300 U	200	3,600 U	490 U	NA	5,100 U	510	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	NA	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Pronamide	1,400 U	2,600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Safrole, Total	720 U	1,300 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Tetraethyl Dithiopyrophosphate	3,500 U	6,200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Polycyclic Aromatic Hydrocarbons (PAH)																												
Acenaphthene	150	220	870 U	3,600 U	490 U	180	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Acenaphthylene	720 U	1,300 U	870 U	3,600 U	490 U	<44	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Anthracene	250	220	190	690	92	210	750	470	150	4,500 U	340	1,500 U	9,800 U	410	120	460	200 U	41	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Fluorene	530	500	380	1,500	160	470	1,400	1,100	320	4,500 U	700	1,500 U	9,800 U	890	250	370	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Naphthalene	2,000	2,100	2,000	6,100	560	2,400	8,100	4,100	1,400	2,400	2,200	420	6,600	3,700	810	2,600	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Phenanthrene	1,700	1,600	1,300	4,300	460	1,700	4,000	3,100	960	1,500	1,700	510	3,900	2,200	610	1,800	49	210	220 U	72	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Benzo(a)anthracene	180	170	870 U	3,600 U	51	170	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	110	<560	64	280	220 U	47	53	230 U	260 U	260 U	230 U	220 U	230 U	
Benzo(a)pyrene	100	1,300 U	870 U	3,600 U	490 U	140	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	55	250	220 U	64	70	48	260 U	260 U	230 U	220 U	230 U	
Benzo(b)fluoranthene	160	1,300 U	870 U	410	490 U	200	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	70	280	220 U	90	82	230 U	260 U	260 U	230 U	220 U	230 U	
Benzo(g,h,i)perylene	720 U	1,300 U	870 U	3,600 U	490 U	180	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	200 U	91	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Benzo(k)fluoranthene	720 U	1,300 U	870 U	3,600 U	490 U	79	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	200 U	220 U	220 U	53	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Chrysene	260	260	870 U	3,600 U	82	330	5,100 U	3,500 U	180	4,500 U	2,000 U	1,500 U	9,800 U	520	160	<560	74	340	220 U	68	62	230 U	260 U	260 U	230 U	220 U	230 U	
Dibenz(a,h)anthracene	720 U	1,300 U	870 U	3,600 U	490 U	<44	5,100 U	3,500 U	970 U	4,500 U	2,000 U	1,500 U	9,800 U	2,600 U	720 U	<560	200 U	220 U	220 U	200 U	240 U	230 U	260 U	260 U	230 U	220 U	230 U	
Fluoranthene	400	420	290	1,100	110	430	1100	900	210	4,500 U	590	1,500 U	9,800 U	760	240	930	120	560	220 U	130	65	230 U	260 U	260 U	230 U	220 U	230 U	
Indeno(1,2,3-cd)pyrene	720 U	1,300 U	870 U	3,600 U	490 U	81	5,100 U																					

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-17 (0.95 - 1.45') 6/20/95	SD-17 (1.9 - 2.4') 6/20/95	SD-18 (0 - 0.5') 6/20/95	SD-18 (2.25 - 2.75') 6/20/95	SD-18 (4.5 - 5') 6/20/95	SD-18 (0-0.5') 10/11/16	SD-19 (0 - 0.5') 6/20/95	SD-19 (1.75 - 2.25') 6/20/95	SD-19 (3.5 - 4') 6/20/95	SD-20 (0 - 0.5') 6/20/95	SD-20 (0.7 - 1.2') 6/20/95	SD-20 (1.4 - 1.9') 6/20/95	SD-21 (0 - 0.5') 6/20/95	SD-21 (0.65 - 1.15') 6/20/95	SD-21 (1.3 - 1.8') 6/20/95	SD-21 (0-0.5') 10/11/16	SD-22 (0 - 1.2') 6/19/95	SD-22 (1.2 - 2.4') 6/19/95	SD-22 (2.4 - 3.6') 6/19/95	SD-23 (0 - 1.2') 6/19/95	SD-23 (1.2 - 2.4') 6/19/95	SD-23 (2.4 - 3.6') 6/19/95	SD-24 (0 - 1.5') 6/19/95	SD-24 (1.5 - 3') 6/19/95	SD-25 (0 - 1.1') 6/19/95	SD-25 (1.1 - 2.2') 6/19/95	SD-25 (2.2 - 3.3') 6/19/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Pesticide/Herbicide						NA										NA											
2,4,5-T	44 UJ	39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP(Silvex)	44 UJ	39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	170 UJ	160 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	12 U*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	12 UJ*	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	12 U*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	5.8 U*	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	12 U*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	17 UJ	16 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	5.8 U*	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	12 UJ*	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	12 U *	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	12 UJ*	10 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	12 U*	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	5.8 U*	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	5.8 UJ*	5.1 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	5.8 U*	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isodrin	14 U	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	140 U	120 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	58 U*	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	290 U*	260 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan						NA										NA											
2,3,7,8-TCDD	0.0065	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDDs, Total	0.23	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDFs, Total	0.069	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDDs, Total	0.011	0.095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDFs, Total	0.22	0.47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDDs, Total	0.069	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDFs, Total	0.68	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD TEQ (mammal)	0.04	0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-26 (0 - 1.2') 6/19/95	SD-26 (1.2 - 2.4') 6/19/95	SD-26 (2.4 - 3.6') 6/19/95	SD-27 (0 - 1.3') 6/19/95	SD-27 (1.3 - 2.6') 6/19/95	SD-27 (2.6 - 3.9') 6/19/95	SD-28 (0 - 1.2') 6/19/95	SD-28 (1.2 - 2.4') 6/19/95	SD-28 (2.4 - 3.6') 6/19/95	SD-29 (0 - 1.2') 6/19/95	SD-29 (1.2 - 2.4') 6/19/95	SD-29 (2.4 - 3.6') 6/19/95	SD-30 (0 - 1.1') 6/19/95	SD-30 (1.1 - 2.2') 6/19/95	SD-30 (2.2 - 3.3') 6/19/95	SD-31 (0 - 1.1') 6/19/95	SD-31 (1.1 - 2.2') 6/19/95	SD-31 (2.2 - 3.3') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (1.4 - 2.8') 6/19/95	SD-32 (2.8 - 4.2') 6/19/95	SD-33 (0 - 1.3') 6/19/95	SD-33 (1.3 - 2.6') 6/19/95	SD-33 (2.6 - 3.9') 6/19/95	SD-34 (0 - 1.3') 6/21/95	SD-34 (1.3 - 2.6') 6/21/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS
Volatile Organic Compounds (VOCs)																											
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,1,2,2-Tetrachloroethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,1,2-Trichloroethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,1-Dichloroethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,1-Dichloroethene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,2-Dichloroethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,2-Dichloroethene, Total [a]	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,2-Dichloropropane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,3-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,4-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	27 J	11 J	5.9 J	9,800 U	5.1 J	68 U	23,000 U	4.6 J	3.5 J	82 U	72 U	5.6 J	86 U	63 U	4.3 J	88 U	68 U	61 U	100 U	52 J	66 J	62 U	57 J	71 J	59 J	9.1 J	3.9 J
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	78 U	73 U	67 U	9,800 U	71 U	68 U	23,000 U	72 U	67 U	82 U	72 U	74 U	86 U	63 U	66 UJ	88 U	68 U	61 U	100 U	110 J	66 J	62 U	110 J	140 J	59 J	71 UJ	75 U
3-Chloro-1-propene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	78 U	73 U	67 U	9,800 U	71 U	68 U	23,000 U	72 U	67 U	82 U	72 U	74 U	86 U	63 U	66 UJ	88 U	68 U	61 U	100 U	110 U	66 U	62 U	110 U	140 U	59 U	71 UJ	75 U
Acetone	150 J	51 J	25 U	9,800 U	29 U	18 J	23,000 U	28 U	26 J	9.4 J	72 UJ	23 J	86 UJ	5.4 J	18 J	88 U	68 U	61 U	200 U	200 J	66 U	62 U	230 J	290 J	59 UJ	71 U	75 U
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Bromodichloromethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Bromoform	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Bromomethane	7.8 U	7.3 U	6.7 U	980 UJ	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 J	6.8 J	6.1 J	10 J	11 U	6.6 U	6.2 J	11 U	14 U	5.9 U	7.1 U	7.5 U
Carbon disulfide	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Carbon tetrachloride	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Chlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 UJ	7.5 U
Chlorodibromomethane	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Chloroethane	7.8 U	7.3 U	6.7 UJ	980 UJ	7.1 UJ	6.8 U	2,300 UJ	7.2 UJ	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 J	6.8 J	6.1 J	10 J	11 U	6.6 U	6.2 J	11 U	14 U	5.9 U	7.1 U	7.5 U
Chloroform	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Chloromethane	7.8 U	7.3 U	6.7 U	980 UJ	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 J	6.8 J	6.1 J	10 J	11 U	6.6 U	6.2 J	11 U	14 U	5.9 U	7.1 U	7.5 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene [b]	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 UJ	7.5 U
Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	7.8 U	7.6 U	3.6 U	18,000 U	52 U	13 U	66,000	28 U	42 U	8.2 U	7.2 U	13 U	8.6 U	4.8 U	6.6 U	11 U	11 U	6.0 U	10 U	68 U	9.5 U	9.1 U	52 U	34 U	6.0 U	7.1 U	7.0 U
Propionitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 UJ	7.5 U
Tetrachloroethene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2																			

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-26 (0 - 1.2') 6/19/95 FS	SD-26 (1.2 - 2.4') 6/19/95 FS	SD-26 (2.4 - 3.6') 6/19/95 FS	SD-27 (0 - 1.3') 6/19/95 FS	SD-27 (1.3 - 2.6') 6/19/95 FS	SD-27 (2.6 - 3.9') 6/19/95 FS	SD-28 (0 - 1.2') 6/19/95 FS	SD-28 (1.2 - 2.4') 6/19/95 FS	SD-28 (2.4 - 3.6') 6/19/95 FS	SD-29 (0 - 1.2') 6/19/95 FS	SD-29 (1.2 - 2.4') 6/19/95 FS	SD-29 (2.4 - 3.6') 6/19/95 FS	SD-30 (0 - 1.1') 6/19/95 FS	SD-30 (1.1 - 2.2') 6/19/95 FS	SD-30 (2.2 - 3.3') 6/19/95 FS	SD-31 (0 - 1.1') 6/19/95 FS	SD-31 (1.1 - 2.2') 6/19/95 FS	SD-31 (2.2 - 3.3') 6/19/95 FS	SD-32 (0 - 1.4') 6/19/95 FS	SD-32 (0 - 1.4') 6/19/95 DUP	SD-32 (1.4 - 2.8') 6/19/95 FS	SD-32 (2.8 - 4.2') 6/19/95 FS	SD-33 (0 - 1.3') 6/19/95 FS	SD-33 (1.3 - 2.6') 6/19/95 FS	SD-33 (2.6 - 3.9') 6/19/95 FS	SD-34 (0 - 1.3') 6/21/95 FS	SD-34 (1.3 - 2.6') 6/21/95 FS	
Semi-Volatile Organic Compounds (SVC)																												
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
1,2-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 UJ	7.5 U	
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 UJ	7.5 U	
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	7.8 U	7.3 U	6.7 U	980 U	7.1 U	6.8 U	2,300 U	7.2 U	6.7 U	8.2 U	7.2 U	7.4 U	8.6 U	6.3 U	6.6 U	8.8 U	6.8 U	6.1 U	10 U	11 U	6.6 U	6.2 U	11 U	14 U	5.9 U	7.1 U	7.5 U	
1,4-Naphthoquinone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,2'-oxybis(dichloropropane)	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,4,6-Trichlorophenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,4-Dichlorophenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,4-Dimethylphenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,4-Dinitrophenol	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U	
2,4-Dinitrotoluene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,6-Dinitrotoluene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chloronaphthalene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2-Chlorophenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2-Methylphenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Nitroaniline	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U	
2-Nitrophenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
2-Picoline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3,3'-Dichlorobenzidine	510 U	480 U	440 U	520 U	470 U	450 U	600 U	470 U	440 U	540 U	470 U	490 U	570 U	410 U	430 U	580 U	450 U	410 U	680 U	700 U	440 U	410 U	700 U	540 U	390 U	470 U	490 U	
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3-Methylcholanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3-Nitroaniline	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U	
4,6-Dinitro-2-methylphenol	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U	
4-Aminobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Bromophenyl phenyl ether	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
4-Chloro-3-methylphenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
4-Chloroaniline	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
4-Chlorophenyl phenyl ether	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
4-Methylphenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U	
4-Nitroaniline	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 UJ	1,100 UJ	980 U	1,600 UJ	1,700 U	1,100 UJ	1,000 U	1,700 UJ	1,300 UJ	950 U	1,100 U	1,200 U	
4-Nitrophenol	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U	
4-Nitroquinoline1-oxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5-Nitro-o-toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
alpha,alpha-Dimethyl phenethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
bis(2-Chloroethoxy)methane	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U															

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-26 (0 - 1.2') 6/19/95	SD-26 (1.2 - 2.4') 6/19/95	SD-26 (2.4 - 3.6') 6/19/95	SD-27 (0 - 1.3') 6/19/95	SD-27 (1.3 - 2.6') 6/19/95	SD-27 (2.6 - 3.9') 6/19/95	SD-28 (0 - 1.2') 6/19/95	SD-28 (1.2 - 2.4') 6/19/95	SD-28 (2.4 - 3.6') 6/19/95	SD-29 (0 - 1.2') 6/19/95	SD-29 (1.2 - 2.4') 6/19/95	SD-29 (2.4 - 3.6') 6/19/95	SD-30 (0 - 1.1') 6/19/95	SD-30 (1.1 - 2.2') 6/19/95	SD-30 (2.2 - 3.3') 6/19/95	SD-31 (0 - 1.1') 6/19/95	SD-31 (1.1 - 2.2') 6/19/95	SD-31 (2.2 - 3.3') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (1.4 - 2.8') 6/19/95	SD-32 (2.8 - 4.2') 6/19/95	SD-33 (0 - 1.3') 6/19/95	SD-33 (1.3 - 2.6') 6/19/95	SD-33 (2.6 - 3.9') 6/19/95	SD-34 (0 - 1.3') 6/19/95	SD-34 (1.3 - 2.6') 6/19/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS
Methyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
o-Toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Phenylene diamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1,200 U	1,200 U	1,100 U	1,300 U	1,100 U	1,100 U	1,500 U	1,100 U	1,100 U	1,300 U	1,100 U	1,200 U	1,400 U	1,000 U	1,100 U	1,400 U	1,100 U	980 U	1,600 U	1,700 U	1,100 U	1,000 U	1,700 U	1,300 U	950 U	1,100 U	1,200 U
Phenacetin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Safrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl Dithiopyrophosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromatic Hydrocarbons (PAH)																											
Acenaphthene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Acenaphthylene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Anthracene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	36	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	41	250 U
Fluorene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	47	270 U	190 U	240 U	250 U
Naphthalene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	430	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	100	220 U	210 U	240	110	190 U	520	170
Phenanthrene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	65	96	220 U	210 U	190	120	190 U	320	150
Benzo(a)anthracene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	36	32	190 U	51	250 U
Benzo(a)pyrene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	31	190 U	45	33
Benzo(b)fluoranthene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	57	47	190 U	61	42
Benzo(g,h,i)perylene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Benzo(k)fluoranthene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Chrysene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	43	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	47	220 U	210 U	49	42	190 U	65	44
Dibenz(a,h)anthracene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	350 U	270 U	190 U	240 U	250 U
Fluoranthene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	59	240 U	240 U	280 U	210 U	220 U	290 U	220 U	200 U	340 U	350 U	220 U	210 U	80	68	190 U	93	81
Indeno(1,2,3-cd)pyrene	260 U	240 U	220 U	260 U	230 U	220 U	300 U	240 U	220 U	270 U	240 U	240 U	28														

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-26 (0 - 1.2') 6/19/95	SD-26 (1.2 - 2.4') 6/19/95	SD-26 (2.4 - 3.6') 6/19/95	SD-27 (0 - 1.3') 6/19/95	SD-27 (1.3 - 2.6') 6/19/95	SD-27 (2.6 - 3.9') 6/19/95	SD-28 (0 - 1.2') 6/19/95	SD-28 (1.2 - 2.4') 6/19/95	SD-28 (2.4 - 3.6') 6/19/95	SD-29 (0 - 1.2') 6/19/95	SD-29 (1.2 - 2.4') 6/19/95	SD-29 (2.4 - 3.6') 6/19/95	SD-30 (0 - 1.1') 6/19/95	SD-30 (1.1 - 2.2') 6/19/95	SD-30 (2.2 - 3.3') 6/19/95	SD-31 (0 - 1.1') 6/19/95	SD-31 (1.1 - 2.2') 6/19/95	SD-31 (2.2 - 3.3') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (0 - 1.4') 6/19/95	SD-32 (1.4 - 2.8') 6/19/95	SD-32 (2.8 - 4.2') 6/19/95	SD-33 (0 - 1.3') 6/19/95	SD-33 (1.3 - 2.6') 6/19/95	SD-33 (2.6 - 3.9') 6/19/95	SD-34 (0 - 1.3') 6/21/95	SD-34 (1.3 - 2.6') 6/21/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	
Pesticide/Herbicide																											
2,4,5-T	39 UJ	37 UJ	34 UJ	39 UJ	35 UJ	34 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4,5-TP(Silvex)	39 UJ	37 UJ	34 UJ	39 UJ	35 UJ	34 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,4-D	160 U	150 U	130 U	160 U	140 U	140 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4,4'-DDD	2.6 U	2.4 U	2.2 U	4.2 U*	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4,4'-DDE	2.6 UJ	2.4 UJ	2.2 UJ	4.2 UJ*	2.3 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4,4'-DDT	2.6 U	2.4 U	2.2 U	4.2 U*	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aldrin	1.3 UJ	1.2 UJ	1.1 UJ	2.1 UJ*	1.2 UJ	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
alpha-BHC	1.3 U	1.2 U	1.1 U	2.1 U*	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
alpha-Chlordane	2.6 UJ	2.4 UJ	2.2 UJ	2.1 UJ*	2.3 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
beta-BHC	1.3 UJ	1.2 UJ	1.1 UJ	2.1 UJ*	1.2 UJ	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
delta-BHC	1.3 UJ	1.2 UJ	1.1 UJ	2.1 UJ*	1.2 UJ	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dieldrin	2.6 U	2.4 U	2.2 U	4.2 U*	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dinoseb	16 UJ	15 UJ	13 UJ	16 UJ	14 UJ	14 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endosulfan I	2.6 U	2.4 U	2.2 U	2.6 U	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endosulfan II	2.6 UJ	2.4 UJ	2.2 UJ	4.2 UJ*	2.3 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endosulfan sulfate	2.6 U	2.4 U	2.2 U	4.2 U *	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endrin aldehyde	2.6 UJ	2.4 UJ	2.2 UJ	4.2 UJ*	2.3 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Endrin	2.6 U	2.4 U	2.2 U	4.2 U*	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
gamma-BHC (Lindane)	1.3 U	1.2 U	1.1 U	2.1 U*	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
gamma-Chlordane	2.6 UJ	2.4 UJ	2.2 UJ	2.1 UJ*	2.3 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Heptachlor epoxide	1.3 U	1.2 UJ	1.1 UJ	2.1 UJ*	1.2 UJ	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Heptachlor	1.3 U	1.2 U	1.1 U	2.1 U*	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isodrin	12 U	12 U	11 U	13 U	11 U	11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Kepone	120 U	120 U	110 U	130 U	110 U	110 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Methoxychlor	39 U	37 U	34 U	39 U	35 U	34 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Toxaphene	130 U	120 U	110 U	130 U	120 U	120 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dioxin/Furan																											
2,3,7,8-TCDD	0.0011 U	0.00032 U	0.00043 U	0.00094 U	0.00029 U	0.00029 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HxCDDs, Total	0.01	0.0025 U	0.00055 U	0.0098	0.00076 U	0.00041 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HxCDFs, Total	0.14	0.024	0.00020 U	0.18	0.0038 U	0.000095 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PeCDDs, Total	0.0036 U	0.0018 U	0.0017 U	0.0046 U	0.0018 U	0.0017 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PeCDFs, Total	0.45	0.089	0.00048 U	0.5	0.0052 U	0.00025 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TCDDs, Total	0.018	0.0037	0.00074 U	0.017	0.00074 U	0.00052 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TCDFs, Total	0.71	0.16	0.00047 U	0.69	0.018	0.00029 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2,3,7,8-TCDD TEQ (mammal)	0.09	0.02	-	0.098	0.000032	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-34 (2.6 - 3.9') 6/21/95	SD-35 (0 - 1.5') 6/21/95	SD-35 (1.5 - 3') 6/21/95	SD-35 (3 - 4.5') 6/21/95	SD-36 (0 - 1.2') 6/19/95	SD-36 (1.2 - 2.4') 6/19/95	SD-36 (2.4 - 3.6') 6/19/95	SD-37 (0 - 1.3') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (2.6 - 3.9') 6/19/95	SD-38 (0 - 1.2') 6/19/95	SD-38 (1.2 - 2.4') 6/19/95	SD-39 (0 - 1') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-40 (0 - 1.1') 6/22/95	SD-40 (1.1 - 2.2') 6/22/95	SD-41 (0 - 1') 6/22/95	SD-41 (1 - 2') 6/22/95	SD-42 (0 - 1') 6/22/95	SD-42 (1 - 2') 6/22/95	SD-43 (0 - 0.8') 6/15/95	SD-43 (0.8 - 1.6') 6/15/95	SD-44 (0 - 0.9') 6/15/95	SD-44 (0.9 - 1.8') 6/15/95	SD-45 (0 - 0.7') 6/15/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Volatile Organic Compounds (VOCs)																											
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,1,2,2-Tetrachloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	R	6.0 U	5.2 U	6.4 U	7.1 UJ	5.9 U	10 U	7.9 U	6.9 U
1,1,2-Trichloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,1-Dichloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,1-Dichloroethene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 U	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,2-Dichloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,2-Dichloroethene, Total [a]	7.0 U	5.1 J	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,2-Dichloropropane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,3-Dichlorobenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 U	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,4-Dichlorobenzene	7.0 U	9.9 U	5.3 J	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	4.1 J	2.8 J	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	3.6 J	10 J	4.0 J	3.5 J	8.1 J	5.2 J	19 J	17 J	3.4 J	8.8 J	8.1 J	21 J	4.3 J	61 UJ	54 UJ	62 UJ	14 J	13 UJ	5.4 J	60 UJ	52 UJ	64 UJ	71 UJ	59 UJ	18 J	6.9 J	8.7 J
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	70 U	99 UJ	70 UJ	74 U	72 J	70 J	76 J	71 J	73 J	75 J	66 J	100 J	66 J	61 UJ	54 UJ	62 UJ	89 UJ	68 UJ	R	60 UJ	52 UJ	64 UJ	71 UJ	59 UJ	100 U	79 U	69 U
3-Chloro-1-propene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	70 U	99 U	70 U	74 U	72 U	70 U	76 U	71 U	73 U	75 U	66 U	100 J	66 U	61 U	54 U	62 UJ	89 UJ	68 U	69 UJ	60 UJ	52 UJ	64 UJ	71 UJ	59 UJ	100 U	79 U	69 U
Acetone	70 U	100	48 J	74 UJ	30 J	18 J	79 J	75 J	12 J	33 J	30 J	99 J	15 J	3.0 J	4.1 J	8.9 J	58 J	65 J	75 J	11 J	52 UJ	4.4 J	86 J	10 J	80 J	32 J	70 J
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	6.3 J	7.9 U	6.9 U
Bromodichloromethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Bromoform	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Bromomethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 UJ	5.9 U	10 U	7.9 U	6.9 U
Carbon disulfide	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Carbon tetrachloride	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Chlorobenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	2.7 J	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	R	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Chlorodibromomethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Chloroethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 UJ	5.9 U	10 UJ	7.9 UJ	6.9 UJ
Chloroform	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Chloromethane	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	5.8 J	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 UJ	5.9 U	10 U	7.9 U	6.9 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene [b]	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 UJ	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	R	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	7.0 U	9.9 U	7.0 U	7.0 U	42 U	75 U	100 U	74 U	63 U	88 U	81 U	28 U	28 U	6.1 U	5.4 U	5.7 U	8.9 U	7.0 U	6.9 UJ	6.0 U	5.2 U	6.4 U	74 U	14 U	84 U	36 U	42 U
Propionitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	R	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
Tetrachloroethene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U</														

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-34 (2.6 - 3.9') 6/21/95	SD-35 (0 - 1.5') 6/21/95	SD-35 (1.5 - 3') 6/21/95	SD-35 (3 - 4.5') 6/21/95	SD-36 (0 - 1.2') 6/19/95	SD-36 (1.2 - 2.4') 6/19/95	SD-36 (2.4 - 3.6') 6/19/95	SD-37 (0 - 1.3') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (2.6 - 3.9') 6/19/95	SD-38 (0 - 1.2') 6/19/95	SD-38 (1.2 - 2.4') 6/19/95	SD-39 (0 - 1') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-40 (0 - 1.1') 6/22/95	SD-40 (1.1 - 2.2') 6/22/95	SD-41 (0 - 1') 6/22/95	SD-41 (1 - 2') 6/22/95	SD-42 (0 - 1') 6/22/95	SD-42 (1 - 2') 6/22/95	SD-43 (0 - 0.8') 6/15/95	SD-43 (0.8 - 1.6') 6/15/95	SD-44 (0 - 0.9') 6/15/95	SD-44 (0.9 - 1.8') 6/15/95	SD-45 (0 - 0.7') 6/15/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Semi-Volatile Organic Compounds (SVOCs)																											
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
1,2-Dichlorobenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 U	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	7.0 U	9.9 U	7.0 U	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	6.9 U	6.0 U	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	7.0 U	9.9 U	5.3	7.4 U	7.2 U	7.0 U	7.6 U	7.1 U	7.3 U	7.5 U	6.6 U	10 U	6.6 U	6.1 U	5.4 U	6.2 U	8.9 U	6.8 U	4.1	2.8	5.2 U	6.4 U	7.1 U	5.9 U	10 U	7.9 U	6.9 U
1,4-Naphthoquinone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(dichloropropane)	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 UJ	180 U	200 UJ	290 U	230 UJ	450 U	200 U	170 UJ	210 UJ	230 U	200 U	660 U	260 U	230 U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2,4,6-Trichlorophenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2,4-Dichlorophenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2,4-Dimethylphenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	34	170 U	100	120	200 U	100	260 U	230 U
2,4-Dinitrophenol	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,100 U	1,600 U	1,100 U	1,100 U	980 U	860 U	990 U	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U
2,4-Dinitrotoluene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2-Chlorophenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2-Methylphenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	91	42	170 U	110	100	200 U	150	260 U	230 U
2-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,200 U	1,100 U	1,600 U	1,100 U	980 UJ	860 U	990 U	1,400 U	1,100 UJ	2,200 U	960 U	840 UJ	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U
2-Nitrophenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
2-Picoline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	460 U	660 U	460 U	490 U	480 U	460 U	500 U	470 U	480 U	490 U	440 U	660 U	440 U	400 U	350 U	410 U	590 U	450 U	900 U	400 U	350 U	420 U	470 U	390 U	1,300 U	520 U	450 U
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,200 U	1,100 U	1,600 U	1,100 U	980 U	860 U	990 U	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U
4,6-Dinitro-2-methylphenol	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,200 U	1,100 U	1,600 U	1,100 U	980 U	860 U	990 UJ	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U
4-Aminobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
4-Chloro-3-methylphenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
4-Chloroaniline	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
4-Chlorophenyl phenyl ether	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U
4-Methylphenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	80	230 U	310	69	170 U	110	120	38	140	260 U	230 U
4-Nitroaniline	1,100 U	1,600 U	1,100 U	1,200 U	1,200 UJ	1,100 U	1,200 U	1,100 UJ	1,200 U	1,200 U	1,100 U	1,600 UJ	1,100 UJ	980 U	860 U	990 U	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 UJ	1,100 U
4-Nitrophenol	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,200 U	1,100 U	1,600 U	1,100 U	980 U	860 U	990 U	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U
4-Nitroquinoline1-oxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha,alpha-Dimethyl phenethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U													

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-34 (2.6 - 3.9') 6/21/95	SD-35 (0 - 1.5') 6/21/95	SD-35 (1.5 - 3') 6/21/95	SD-35 (3 - 4.5') 6/21/95	SD-36 (0 - 1.2') 6/19/95	SD-36 (1.2 - 2.4') 6/19/95	SD-36 (2.4 - 3.6') 6/19/95	SD-37 (0 - 1.3') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (2.6 - 3.9') 6/19/95	SD-38 (0 - 1.2') 6/19/95	SD-38 (1.2 - 2.4') 6/19/95	SD-39 (0 - 1') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-40 (0 - 1.1') 6/22/95	SD-40 (1.1 - 2.2') 6/22/95	SD-41 (0 - 1') 6/22/95	SD-41 (1 - 2') 6/22/95	SD-42 (0 - 1') 6/22/95	SD-42 (1 - 2') 6/22/95	SD-43 (0 - 0.8') 6/15/95	SD-43 (0.8 - 1.6') 6/15/95	SD-44 (0 - 0.9') 6/15/95	SD-44 (0.9 - 1.8') 6/15/95	SD-45 (0 - 0.7') 6/15/95		
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS		
Methyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitroso-di-n-propylamine	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 UJ	180 U	200 U	290 U	230 UJ	450 U	200 U	170 UJ	210 U	230 U	200 U	660 U	260 U	230 U		
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosodiphenylamine	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U		
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosomorpholine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosopiperidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Nitrobenzene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U		
o-Toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
p-Phenylene diamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pentachlorophenol	1,100 U	1,600 U	1,100 U	1,200 U	1,200 U	1,100 U	1,200 U	1,100 U	1,200 U	1,200 U	1,100 U	1,600 U	1,100 U	980 U	860 U	990 U	1,400 U	1,100 U	2,200 U	960 U	840 U	1,000 U	1,100 U	950 U	3,200 U	1,300 U	1,100 U		
Phenacetin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Phenol	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	220	230 U	260	130	99	170	190	120	910	120	230 U		
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Safrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Tetraethyl Dithiopyrophosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Polycyclic Aromatic Hydrocarbons (PAH)																													
Acenaphthene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	45	41	32	87	260 U	230 U		
Acenaphthylene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U		
Anthracene	230 U	330 U	46	240 U	27	230 U	250 U	230 U	240 U	250 U	220 U	39	220 U	200 U	180 U	200 U	290 U	230 U	120	23	40	100	72	37	110	58	230 U		
Fluorene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	70	29	170 U	83	79	68	150	64	230 U		
Naphthalene	230 U	260	480	88	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	320	30	1,400	320	450	1,100	870	560	2,300	380	230 U		
Phenanthrene	230 U	180	330	55	94	230 U	250 U	230 U	240 U	250 U	220 U	150	42	200 U	180 U	200 U	160	26	1,000	190	330	680	510	240	840	320	230 U		
Benzo(a)anthracene	230 U	330 U	62	240 U	120	230 U	250 U	230 U	240 U	250 U	220 U	170	38	200 U	180 U	200 U	46	230 U	120	27	41	110	120	90	140	120	230 U		
Benzo(a)pyrene	230 U	330 U	66	240 U	150	230 U	250 U	230 U	240 U	250 U	220 U	260	57	200 U	180 U	200 U	58	230 U	90	25	26	89	120	130	88	110	230 U		
Benzo(b)fluoranthene	230 U	330 U	110	240 U	200	230 U	250 U	230 U	240 U	250 U	220 U	320	68	200 U	180 U	200 U	85	230 U	190	36	41	130	210	140	120	140	230 U		
Benzo(g,h,i)perylene	230 U	330 U	230 U	240 U	56	230 U	250 U	230 U	240 U	250 U	220 U	110	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	23	54	42	60	660 U	59	230 U		
Benzo(k)fluoranthene	230 U	330 U	230 U	240 U	96	230 U	250 U	230 U	240 U	250 U	220 U	160	32	200 U	180 U	200 U	290 U	230 U	50	200 U	170 U	210 U	230 U	200 U	660 U	55	230 U		
Chrysene	230 U	330 U	91	240 U	140	230 U	250 U	230 U	240 U	250 U	220 U	190	45	200 U	180 U	200 U	62	230 U	240	36	57	150	150	110	240	140	230 U		
Dibenz(a,h)anthracene	230 U	330 U	230 U	240 U	240 U	230 U	250 U	230 U	240 U	250 U	220 U	330 U	220 U	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	210 U	230 U	200 U	660 U	260 U	230 U		
Fluoranthene	230 U	60	160	240 U	280	230 U	250 U	230 U	240 U	250 U	220 U	320	83	200 U	180 U	200 U	99	230 U	350	59	100	240	230	180	350	220	230 U		
Indeno(1,2,3-cd)pyrene	230 U	330 U	230 U	240 U	57	230 U	250 U	230 U	240 U	250 U	220 U	100	23	200 U	180 U	200 U	290 U	230 U	450 U	200 U	170 U	25	26	49	660 U	46	230 U		
Pyrene	230 U	58	100	240 U	150	230 U	25																						

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-34 (2.6 - 3.9') 6/21/95	SD-35 (0 - 1.5') 6/21/95	SD-35 (1.5 - 3') 6/21/95	SD-35 (3 - 4.5') 6/21/95	SD-36 (0 - 1.2') 6/19/95	SD-36 (1.2 - 2.4') 6/19/95	SD-36 (2.4 - 3.6') 6/19/95	SD-37 (0 - 1.3') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (1.3 - 2.6') 6/19/95	SD-37 (2.6 - 3.9') 6/19/95	SD-38 (0 - 1.2') 6/19/95	SD-38 (1.2 - 2.4') 6/19/95	SD-39 (0 - 1') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-39 (1 - 2') 6/22/95	SD-40 (0 - 1.1') 6/22/95	SD-40 (1.1 - 2.2') 6/22/95	SD-41 (0 - 1') 6/22/95	SD-41 (1 - 2') 6/22/95	SD-42 (0 - 1') 6/22/95	SD-42 (1 - 2') 6/22/95	SD-43 (0 - 0.8') 6/15/95	SD-43 (0.8 - 1.6') 6/15/95	SD-44 (0 - 0.9') 6/15/95	SD-44 (0.9 - 1.8') 6/15/95	SD-45 (0 - 0.7') 6/15/95
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	DUP	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Pesticide/Herbicide																											
2,4,5-T	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP(Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan																											
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD TEQ (mammal)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-45 (0.7 - 1.4') 6/15/95	SD-46 (0 - 1.5') 6/15/95	SD-46 (1.5 - 3') 6/15/95	SD-46 (3 - 4.5') 6/15/95	SD-47 (0 - 1.5') 6/15/95	SD-47 (1.5 - 3') 6/15/95	SD-48 (0 - 1.3') 6/15/95	SD-48 (1.3 - 2.6') 6/15/95	SD-59 (0 - 0.5') 8/10/00	SD-60 (0 - 0.5') 8/10/00	SD-61 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-64 (0 - 0.5') 8/10/00	SD-65 (0 - 0.5') 8/10/00
Constituents (ug/kg)	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS
Volatile Organic Compounds (VOCs)															
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,1,2,2-Tetrachloroethane	6.6 U	9.6 UJ	7.4 UJ	6.7 UJ	31 UJ	6.7 UJ	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,1,2-Trichloroethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
1,1-Dichloroethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,1-Dichloroethene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,2-Dichloroethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,2-Dichloroethene, Total [a]	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,2-Dichloropropane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
1,3-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,4-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	9.6 J	28 J	18 J	6.8 J	310 UJ	67 UJ	64 U	6.7 J	33 U	34 U	32 U	26 U	28 U	42 U	32 U
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	66 U	96 UJ	74 UJ	67 UJ	310 UJ	67 UJ	64 U	67 U	33 U	34 U	32 U	26 UJ	28 UJ	42 UJ	32 U
3-Chloro-1-propene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	66 U	96 UJ	74 UJ	67 UJ	310 UJ	67 UJ	64 U	67 U	33 U	34 U	32 U	26 U	28 U	42 U	32 U
Acetone	67 J	180 J	82 J	29 J	22 J	7.2 J	12 J	33 J	33 U	32 J	33 J	23 J	15 J	24 J	32 U
Acetonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Bromodichloromethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Bromoform	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
Bromomethane	6.6 U	9.6 UJ	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	17 U	17 U	16 U	13 U	14 U	21 U	16 U
Carbon disulfide	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Carbon tetrachloride	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Chlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	1.2 J	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
Chlorodibromomethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Chloroethane	6.6 UJ	9.6 UJ	7.4 U	6.7 UJ	31 U	6.7 U	6.4 UJ	6.7 UJ	17 U	17 U	16 U	13 U	14 U	21 U	16 U
Chloroform	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Chloromethane	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	17 U	17 U	16 U	13 U	14 U	21 U	16 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene [b]	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Dibromomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
Iodomethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isobutyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	16 U	53 U	97 U	260 U	500 U	15 B	14 U	10 U	8.4 U	11 U	9.1 U	120	52	20 U	23
Propionitrile	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
Tetrachloroethene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
Toluene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
trans-1,2-Dichloroethene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene [b]	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 U	7.0 U	10 U	8.1 U
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	17 U	17 U	16 U	13 U	14 U	21 U	16 U
Xylenes, Total	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	8.4 U	8.4 U	8.1 U	6.4 UJ	7.0 UJ	10 UJ	8.1 U

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

	SD-45 (0.7 - 1.4') 6/15/95 FS	SD-46 (0 - 1.5') 6/15/95 FS	SD-46 (1.5 - 3') 6/15/95 FS	SD-46 (3 - 4.5') 6/15/95 FS	SD-47 (0 - 1.5') 6/15/95 FS	SD-47 (1.5 - 3') 6/15/95 FS	SD-48 (0 - 1.3') 6/15/95 FS	SD-48 (1.3 - 2.6') 6/15/95 FS	SD-59 (0 - 0.5') 8/10/00 FS	SD-60 (0 - 0.5') 8/10/00 FS	SD-61 (0 - 0.5') 8/10/00 FS	SD-62 (0 - 0.5') 8/10/00 FS	SD-62 (0 - 0.5') 8/10/00 DUP	SD-64 (0 - 0.5') 8/10/00 FS	SD-65 (0 - 0.5') 8/10/00 FS
Semi-Volatile Organic Compounds (SVOCs)															
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,2-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6.6 U	9.6 U	7.4 U	6.7 U	31 U	6.7 U	6.4 U	6.7 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
1,4-Naphthoquinone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-oxybis(dichloropropane)	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,4,6-Trichlorophenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,4-Dichlorophenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,4-Dimethylphenol	220 U	240	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,4-Dinitrophenol	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 UJ	2,700 UJ	2,600 UJ	8,200 UJ	5,600 UJ	3,300 UJ	2,600 UJ
2,4-Dinitrotoluene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2,6-Dichlorophenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2-Acetylaminofluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2-Chlorophenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2-Methylphenol	220 U	200	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2-Naphthylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
2-Nitrophenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
2-Picoline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	430 U	630 U	490 U	440 U	410 U	440 U	420 U	440 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
4,6-Dinitro-2-methylphenol	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
4-Aminobiphenyl	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
4-Chloro-3-methylphenol	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
4-Chloroaniline	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
4-Chlorophenyl phenyl ether	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
4-Methylphenol	220 U	220	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
4-Nitroaniline	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
4-Nitrophenol	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
4-Nitroquinoline1-oxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha,alpha-Dimethyl phenethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
bis(2-Chloroethyl)ether	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
bis(2-Ethylhexyl)phthalate	220 U	320 U	250 U	510 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Butyl benzyl phthalate	220 U	320 U	250 U	390	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Carbazole	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	730	530	690 U	540 U
Di-n-butyl phthalate	1,000	460	500	3,500	3,700 D	220 U	3,200	3,500	550 U	790	530 U	1,700 U	1,200 U	690 U	540 U
Di-n-octyl phthalate	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Diallyate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	220 U	260	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	330	260	690 U	540 U
Diethyl phthalate	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	850 U
Dimethyl phthalate	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Diphenylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Hexachlorobutadiene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Hexachlorocyclopentadiene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	2,700 U	2,700 U	2,600 U	8,200 U	5,600 U	3,300 U	2,600 U
Hexachloroethane	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Hexachloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Isosafrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-45 (0.7 - 1.4') 6/15/95	SD-46 (0 - 1.5') 6/15/95	SD-46 (1.5 - 3') 6/15/95	SD-46 (3 - 4.5') 6/15/95	SD-47 (0 - 1.5') 6/15/95	SD-47 (1.5 - 3') 6/15/95	SD-48 (0 - 1.3') 6/15/95	SD-48 (1.3 - 2.6') 6/15/95	SD-59 (0 - 0.5') 8/10/00	SD-60 (0 - 0.5') 8/10/00	SD-61 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-62 (0 - 0.5') 8/10/00	SD-64 (0 - 0.5') 8/10/00	SD-65 (0 - 0.5') 8/10/00
	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	DUP	FS	FS
Methyl methanesulfonate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
o-Toluidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Phenylene diamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1,100 U	1,500 U	1,200 U	1,100 U	1,000 U	1,100 U	1,000 U	1,100 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Phenacetin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	220 U	210	250 U	220 U	210 U	220 U	210 U	220 U	550 U	220	530 U	1,700 U	1,200 U	690 U	540 U
Pronamide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Safrole, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl Dithiopyrophosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polycyclic Aromatic Hydrocarbons (PAH)															
Acenaphthene	220 U	68	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	450	350	690 U	540 U
Acenaphthylene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,700 U	1,200 U	690 U	540 U
Anthracene	220 U	120	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	1,400	1,100	690 U	63
Fluorene	220 U	160	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	350	240	690 U	540 U
Naphthalene	220 U	1,400	250 U	220 U	210 U	220 U	210 U	220 U	550 U	230	530 U	370	310	690 U	540 U
Phenanthrene	220 U	880	250 U	220 U	210 U	220 U	81	220 U	550 U	180	530 U	5,600	4,400	690 U	250
Benzo(a)anthracene	220 U	100	250 U	220 U	210 U	220 U	34	220 U	550 U	550 U	530 U	4,800	3,400	690 U	250
Benzo(a)pyrene	220 U	61	250 U	220 U	210 U	220 U	32	220 U	550 U	550 U	530 U	6,700	4,900	690 U	350
Benzo(b)fluoranthene	220 U	95	250 U	220 U	210 U	220 U	43	220 U	550 U	550 U	530 U	8,400	5,800	690 U	480
Benzo(g,h,i)perylene	220 U	36	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	3,800	2,700	690 U	240
Benzo(k)fluoranthene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	2,900	2,500	690 U	150
Chrysene	220 U	140	250 U	220 U	210 U	220 U	46	220 U	550 U	550 U	530 U	5,500	4,000	690 U	300
Dibenz(a,h)anthracene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	990	710	690 U	540 U
Fluoranthene	220 U	330	250 U	220 U	210 U	220 U	86	220 U	550 U	550 U	530 U	9,200	6,900	690 U	510
Indeno(1,2,3-cd)pyrene	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	550 U	550 U	530 U	3,900	2,700	690 U	230
Pyrene	220 U	160	250 U	220 U	210 U	220 U	55	220 U	550 U	550 U	530 U	7,800	5,800	690 U	420
2-Methylnaphthalene	220 U	1,700	250 U	220 U	210 U	220 U	85	220 U	550 U	320	530 U	200	150	690 U	540 U
Total PAH [a]	220 U	5,250	250 U	220 U	210 U	220 U	462	220 U	550 U	730	530 U	62,360	45,960	690 U	3,243
Total PAH [b]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (PCBs)															
Aroclor-1016	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	53 U	42 U	230 U	69 U	54 U
Aroclor-1221	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	53 U	42 U	230 U	69 U	54 U
Aroclor-1232	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	53 U	42 U	230 U	69 U	54 U
Aroclor-1242	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	53 U	42 U	230 U	69 U	54 U
Aroclor-1248	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	53 U	42 U	230 U	69 U	54 U
Aroclor-1254	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	36	53 U	230	550	69 U	54 U
Aroclor-1260	220 U	320 U	250 U	220 U	210 U	220 U	210 U	220 U	55 U	55 U	17	42 U	230 U	69 U	54 U
Total Aroclors	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	17	230	550	ND	ND

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Constituents (ug/kg)	SD-45 (0.7 - 1.4') 6/15/95 FS	SD-46 (0 - 1.5') 6/15/95 FS	SD-46 (1.5 - 3') 6/15/95 FS	SD-46 (3 - 4.5') 6/15/95 FS	SD-47 (0 - 1.5') 6/15/95 FS	SD-47 (1.5 - 3') 6/15/95 FS	SD-48 (0 - 1.3') 6/15/95 FS	SD-48 (1.3 - 2.6') 6/15/95 FS	SD-59 (0 - 0.5') 8/10/00 FS	SD-60 (0 - 0.5') 8/10/00 FS	SD-61 (0 - 0.5') 8/10/00 FS	SD-62 (0 - 0.5') 8/10/00 FS	SD-62 (0 - 0.5') 8/10/00 DUP	SD-64 (0 - 0.5') 8/10/00 FS	SD-65 (0 - 0.5') 8/10/00 FS
Pesticide/Herbicide															
2,4,5-T	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP(Silvex)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kepone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dioxin/Furan															
2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HxCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PeCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDDs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCDFs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,7,8-TCDD TEQ (mammal)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on last page.

TABLE A-4
SEDIMENT ANALYTICAL DATA
ORGANIC COMPOUNDS SEDIMENT ANALYTICAL DATA
RACER TRUST
SAGINAW MALLEABLE INDUSTRIAL LAND AND GREEN POINT LANDFILL
SAGINAW, MICHIGAN

Notes:
ug/kg - micrograms per kilogram.
NA - Not analyzed.
TEQ - Toxic equivalency.
[a] Total PAHs calcuated using a proxy concentration of 0 for non-detects.
[b] Total PAHs calcuated using a proxy concentration of 1/2 the reporting limit for non-detects (only 2016 samples).

ATTACHMENT 2

References



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