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Table 2

Estimated Surface Water Concentrations form Outfall Discharge

Chemical	Sum of Groundwater Discharge Concentrations (mg/L)	Sum of Sewer Outfall Discharge Concentrations (mg/L)	Sum of Outfall and Groundwater Discharge Concentrations (mg/L)	MDEQ Cancer-Based Drinking Water Quality Standard (mg/L)	Ratio of Discharge Conc to MDEQ Cancer-Based Drinking WQS	MDEQ Non-Cancer-Based Drinking Water Quality Standard (mg/L)	Ratio of Discharge Conc to MDEQ Non-Cancer-Based Drinking WQS	Federal AWQC: Water + Organism (mg/L)	Ratio of Discharge Conc to Federal AWQC: Water + Organism	MDEQ Part 201 Residential Drinking Water Criteria (mg/L)	Ratio of Discharge Conc to Part 201 DW Criteria
Benzene	2.8E-04		2.8E-04	1.2E-02	2.3E-02	1.9E-02	1.5E-02	2.2E-03	1.3E-01	5.0E-03	5.6E-02
Chloroethane	8.5E-07	3.2E-07	1.2E-06		0.0E+00		0.0E+00		0.0E+00	4.3E-01	2.7E-06
1,1-Dichloroethane	1.8E-06	4.8E-06	6.6E-06		0.0E+00		0.0E+00		0.0E+00	8.8E-01	7.5E-06
cis-1,2-Dichloroethene	2.1E-06	1.1E-05	1.3E-05		0.0E+00		0.0E+00		0.0E+00	7.0E-02	1.9E-04
trans-1,2-Dichloroethene	7.7E-08	1.0E-06	1.1E-06		0.0E+00		0.0E+00	1.4E-01	7.9E-06	1.0E-01	1.1E-05
1,1,1-Trichloroethane	1.6E-05	2.3E-07	1.6E-05		0.0E+00		0.0E+00		0.0E+00	2.0E-01	8.0E-05
Trichloroethene	2.3E-04	9.5E-06	2.4E-04	2.9E-02	8.1E-03		0.0E+00	2.5E-03	9.4E-02	5.0E-03	4.7E-02
Vinyl Chloride	1.6E-07	1.3E-05	1.4E-05		0.0E+00		0.0E+00	2.5E-05	5.4E-01	2.0E-03	6.8E-03
Xylenes (total)	2.1E-05	3.1E-08	2.1E-05		0.0E+00		0.0E+00		0.0E+00	1.0E+01	2.1E-06
PCBs	4.5E-08	2.5E-05	2.5E-05	2.6E-08	**9.8E+02**		0.0E+00	6.4E-08	**4.0E+02**	5.0E-04	5.1E-02
Cyanide (total)	2.9E-05	0.0E+00	2.9E-05		0.0E+00	6.0E-01	4.8E-05	1.4E-01	2.1E-04	2.0E-01	1.4E-04
Mercury	4.9E-08	0.0E+00	4.9E-08		0.0E+00	1.8E+00	2.7E-08		0.0E+00	2.0E-03	2.4E-05
Selenium	3.0E-06	0.0E+00	3.0E-06		0.0E+00		0.0E+00	1.7E-01	1.7E-05	5.0E-02	5.9E-05
Silver	1.8E-07	0.0E+00	1.8E-07		0.0E+00		0.0E+00		0.0E+00	3.4E-02	5.4E-06

Notes:

1. Ratios greater than 1.0 are highlighted in bold.
2. The sum of groundwater discharge concentrations and the sum of sewer outfall discharge concentrations are calculated in Appendix G and discussed in Section 6.5.2.6.
3. The Michigan Water Quality Standard and Federal AWQC for PCBs are below the analytical Target Detection Limit (TDL) of 0.2 ug/L.
4. The groundwater concentration used in the calculations for cyanide (total) is a dissolved (filtered) result. The groundwater concentrations for all other chemicals used in the calculations are total (unfiltered) results.
5. Groundwater concentrations are based on the maximum detected concentrations or the maximum limit, if the chemical was not detected, for GSI monitoring well locations.
6. Sewer Outfall concentrations are shown for chemicals detected in the 2002 sewer sampling.