



Pollutant Load Analysis
Entire Watershed

Ecorse Creek Whole-Watershed Summary

Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Biochemical Oxygen Demand (lbs./year)

Table G1-1.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	BOD Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	BOD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	38	18.8	31	0.9	0.219	686,584	49.2%	46.9%
Medium Density Residential	0.0	38	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	14	51.4	31	0.9	0.513	24,503	1.8%	1.9%
Transportation	2,284.6	24	52.9	31	0.9	0.526	182,421	13.1%	8.2%
Commercial	3,289.1	21	56.2	31	0.9	0.556	242,777	17.4%	11.8%
Mixed Residential/Commercial Use	0.0	30	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	3	1.9	31	0.9	0.067	2,674	0.2%	7.6%
Wetland	2,183.7	4	2.4	31	0.9	0.072	3,955	0.3%	7.9%
Water	151.3	4	100.0	31	0.9	0.950	3,636	0.3%	0.5%
Active Agriculture	1,281.8	3	2.0	31	0.9	0.068	1,654	0.1%	4.6%
Urban Open	753.3	3	10.9	31	0.9	0.148	2,117	0.2%	2.7%
Industrial	2,191.9	24	75.9	31	0.9	0.733	243,886	17.5%	7.9%
Total	27,810.0						1,394,205	100.0%	100.0%

Table G1-1.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	BOD Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	BOD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	38	2.4	31	0.9	0.072	224,267	30.4%	46.9%
Medium Density Residential	0.0	38	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	14	30.3	31	0.9	0.323	15,425	2.1%	1.9%
Transportation	2,284.6	24	22.7	31	0.9	0.254	88,176	12.0%	8.2%
Commercial	3,289.1	21	43.9	31	0.9	0.445	194,422	26.4%	11.8%
Mixed Residential/Commercial Use	0.0	30	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	3	1.1	31	0.9	0.060	2,387	0.3%	7.6%
Wetland	2,183.7	4	2.4	31	0.9	0.072	3,955	0.5%	7.9%
Water	151.3	4	100.0	31	0.9	0.950	3,636	0.5%	0.5%
Active Agriculture	1,281.8	3	0.1	31	0.9	0.051	1,238	0.2%	4.6%
Urban Open	753.3	3	4.2	31	0.9	0.088	1,255	0.2%	2.7%
Industrial	2,191.9	24	61.9	31	0.9	0.607	201,969	27.4%	7.9%
Total	27,810.0						736,730	100.0%	100.0%

Table G1-1.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	BOD Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	BOD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	38	18.8	31	0.9	0.219	287,281	13.9%	19.6%
Medium Density Residential	6,171.4	38	37.8	31	0.9	0.390	578,691	28.0%	22.2%
High Density Residential	3,884.8	14	51.4	31	0.9	0.513	176,306	8.5%	14.0%
Transportation	3,062.3	24	52.9	31	0.9	0.526	244,523	11.8%	11.0%
Commercial	3,686.7	21	56.2	31	0.9	0.556	272,124	13.3%	13.3%
Mixed Residential/Commercial Use	1,333.6	30	47.0	31	0.9	0.473	117,679	5.7%	4.8%
Forest & Rural Open	405.8	3	1.9	31	0.9	0.067	517	0.0%	1.5%
Wetland	0.0	4	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	4	100.0	31	0.9	0.950	2,920	0.1%	0.4%
Active Agriculture	233.6	3	2.0	31	0.9	0.068	301	0.0%	0.8%
Urban Open	0.0	3	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	24	75.9	31	0.9	0.733	384,906	18.6%	12.4%
Total	27,812.7						2,065,248	100.0%	100.0%

Table G1-1.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	BOD Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	BOD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	38	2.4	31	0.9	0.072	93,838	7.6%	19.6%
Medium Density Residential	6,171.4	38	16.6	31	0.9	0.199	295,722	23.9%	22.2%
High Density Residential	3,884.8	14	30.3	31	0.9	0.323	110,991	9.0%	14.0%
Transportation	3,062.3	24	22.7	31	0.9	0.254	118,194	9.5%	11.0%
Commercial	3,686.7	21	43.9	31	0.9	0.445	217,925	17.6%	13.3%
Mixed Residential/Commercial Use	1,333.6	30	30.3	31	0.9	0.322	80,174	6.5%	4.8%
Forest & Rural Open	405.8	3	1.1	31	0.9	0.060	461	0.0%	1.5%
Wetland	0.0	4	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	4	100.0	31	0.9	0.950	2,920	0.2%	0.4%
Active Agriculture	233.6	3	0.1	31	0.9	0.051	226	0.0%	0.8%
Urban Open	0.0	3	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	24	61.9	31	0.9	0.607	318,751	25.7%	12.4%
Total	27,812.7						1,239,202	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Chemical Oxygen Demand (lbs./year)

Table G1-2.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	COD Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	COD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	124	18.8	31	0.9	0.219	2,240,432	44.5%	46.9%
Medium Density Residential	0.0	124	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	79	51.4	31	0.9	0.513	138,265	2.7%	1.9%
Transportation	2,284.6	103	52.9	31	0.9	0.526	782,889	15.6%	8.2%
Commercial	3,289.1	80	56.2	31	0.9	0.556	924,863	18.4%	11.8%
Mixed Residential/Commercial Use	0.0	102	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	27	1.9	31	0.9	0.067	24,065	0.5%	7.6%
Wetland	2,183.7	6	2.4	31	0.9	0.072	5,933	0.1%	7.9%
Water	151.3	6	100.0	31	0.9	0.950	5,454	0.1%	0.5%
Active Agriculture	1,281.8	53	2.0	31	0.9	0.068	29,214	0.6%	4.6%
Urban Open	753.3	27	10.9	31	0.9	0.148	19,049	0.4%	2.7%
Industrial	2,191.9	85	75.9	31	0.9	0.733	863,763	17.2%	7.9%
Total	27,810.0						5,033,927	100.0%	100.0%

Table G1-2.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	COD Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	COD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	124	2.4	31	0.9	0.072	731,820	26.9%	46.9%
Medium Density Residential	0.0	124	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	79	30.3	31	0.9	0.323	87,042	3.2%	1.9%
Transportation	2,284.6	103	22.7	31	0.9	0.254	378,423	13.9%	8.2%
Commercial	3,289.1	80	43.9	31	0.9	0.445	740,656	27.2%	11.8%
Mixed Residential/Commercial Use	0.0	102	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	27	1.1	31	0.9	0.060	21,482	0.8%	7.6%
Wetland	2,183.7	6	2.4	31	0.9	0.072	5,933	0.2%	7.9%
Water	151.3	6	100.0	31	0.9	0.950	5,454	0.2%	0.5%
Active Agriculture	1,281.8	53	0.1	31	0.9	0.051	21,868	0.8%	4.6%
Urban Open	753.3	27	4.2	31	0.9	0.088	11,293	0.4%	2.7%
Industrial	2,191.9	85	61.9	31	0.9	0.607	715,306	26.3%	7.9%
Total	27,810.0						2,719,278	100.0%	100.0%

Table G1-2.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	COD Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	COD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	124	18.8	31	0.9	0.219	937,444	12.2%	19.6%
Medium Density Residential	6,171.4	124	37.8	31	0.9	0.390	1,888,359	24.6%	22.2%
High Density Residential	3,884.8	79	51.4	31	0.9	0.513	994,870	12.9%	14.0%
Transportation	3,062.3	103	52.9	31	0.9	0.526	1,049,410	13.6%	11.0%
Commercial	3,686.7	80	56.2	31	0.9	0.556	1,036,664	13.5%	13.3%
Mixed Residential/Commercial Use	1,333.6	102	47.0	31	0.9	0.473	406,892	5.3%	4.8%
Forest & Rural Open	405.8	27	1.9	31	0.9	0.067	4,649	0.1%	1.5%
Wetland	0.0	6	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	6	100.0	31	0.9	0.950	4,380	0.1%	0.4%
Active Agriculture	233.6	53	2.0	31	0.9	0.068	5,324	0.1%	0.8%
Urban Open	0.0	27	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	85	75.9	31	0.9	0.733	1,363,208	17.7%	12.4%
Total	27,812.7						7,691,200	100.0%	100.0%

Table G1-2.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	COD Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	COD Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	124	2.4	31	0.9	0.072	306,209	6.6%	19.6%
Medium Density Residential	6,171.4	124	16.6	31	0.9	0.199	964,989	20.7%	22.2%
High Density Residential	3,884.8	79	30.3	31	0.9	0.323	626,306	13.5%	14.0%
Transportation	3,062.3	103	22.7	31	0.9	0.254	507,251	10.9%	11.0%
Commercial	3,686.7	80	43.9	31	0.9	0.445	830,190	17.8%	13.3%
Mixed Residential/Commercial Use	1,333.6	102	30.3	31	0.9	0.322	277,211	6.0%	4.8%
Forest & Rural Open	405.8	27	1.1	31	0.9	0.060	4,150	0.1%	1.5%
Wetland	0.0	6	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	6	100.0	31	0.9	0.950	4,380	0.1%	0.4%
Active Agriculture	233.6	53	0.1	31	0.9	0.051	3,985	0.1%	0.8%
Urban Open	0.0	27	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	85	61.9	31	0.9	0.607	1,128,910	24.3%	12.4%
Total	27,812.7						4,653,581	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary

Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Total Suspended Solids (lbs./year)

Table G1-3.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TSS Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	TSS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	70	18.8	31	0.9	0.219	1,233,769	26.5%	46.9%
Medium Density Residential	0.0	70	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	97	51.4	31	0.9	0.513	169,624	3.6%	1.9%
Transportation	2,284.6	141	52.9	31	0.9	0.526	834,201	17.9%	8.2%
Commercial	3,289.1	77	56.2	31	0.9	0.556	871,496	18.7%	11.8%
Mixed Residential/Commercial Use	0.0	74	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	51	1.9	31	0.9	0.067	42,568	0.9%	7.6%
Wetland	2,183.7	6	2.4	31	0.9	0.072	5,789	0.1%	7.9%
Water	151.3	6	100.0	31	0.9	0.950	4,082	0.1%	0.5%
Active Agriculture	1,281.8	145	2.0	31	0.9	0.068	76,185	1.6%	4.6%
Urban Open	753.3	51	10.9	31	0.9	0.148	31,639	0.7%	2.7%
Industrial	2,191.9	149	75.9	31	0.9	0.733	1,393,681	29.9%	7.9%
Total	27,810.0						4,663,035	100.0%	100.0%

Table G1-3.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TSS Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	TSS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	70	2.4	31	0.9	0.072	403,001	14.0%	46.9%
Medium Density Residential	0.0	70	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	97	30.3	31	0.9	0.323	106,784	3.7%	1.9%
Transportation	2,284.6	141	22.7	31	0.9	0.254	403,226	14.0%	8.2%
Commercial	3,289.1	77	43.9	31	0.9	0.445	697,918	24.2%	11.8%
Mixed Residential/Commercial Use	0.0	74	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	51	1.1	31	0.9	0.060	38,000	1.3%	7.6%
Wetland	2,183.7	6	2.4	31	0.9	0.072	5,789	0.2%	7.9%
Water	151.3	6	100.0	31	0.9	0.950	4,082	0.1%	0.5%
Active Agriculture	1,281.8	145	0.1	31	0.9	0.051	57,027	2.0%	4.6%
Urban Open	753.3	51	4.2	31	0.9	0.088	18,757	0.6%	2.7%
Industrial	2,191.9	149	61.9	31	0.9	0.607	1,154,145	40.0%	7.9%
Total	27,810.0						2,888,730	100.0%	100.0%

Table G1-3.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TSS Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	TSS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	70	18.8	31	0.9	0.219	498,211	6.6%	19.6%
Medium Density Residential	6,171.4	70	37.8	31	0.9	0.390	1,066,009	14.1%	22.2%
High Density Residential	3,884.8	97	51.4	31	0.9	0.513	1,221,405	16.2%	14.0%
Transportation	3,062.3	141	52.9	31	0.9	0.526	1,199,051	15.9%	11.0%
Commercial	3,686.7	77	56.2	31	0.9	0.556	978,105	13.0%	13.3%
Mixed Residential/Commercial Use	1,333.6	74	47.0	31	0.9	0.473	293,201	3.9%	4.8%
Forest & Rural Open	405.8	51	1.9	31	0.9	0.067	5,895	0.1%	1.5%
Wetland	0.0	6	2.4	31	0.9	0.072	-143	0.0%	0.0%
Water	121.5	6	100.0	31	0.9	0.950	3,008	0.0%	0.4%
Active Agriculture	233.6	145	2.0	31	0.9	0.068	10,825	0.1%	0.8%
Urban Open	0.0	51	10.9	31	0.9	0.148	-4,343	-0.1%	0.0%
Industrial	3,459.3	149	75.9	31	0.9	0.733	2,269,178	30.1%	12.4%
Total	27,812.7						7,541,402	100.0%	100.0%

Table G1-3.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TSS Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	TSS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	70	2.4	31	0.9	0.072	172,860	3.3%	19.6%
Medium Density Residential	6,171.4	70	16.6	31	0.9	0.199	544,752	10.5%	22.2%
High Density Residential	3,884.8	97	30.3	31	0.9	0.323	769,009	14.8%	14.0%
Transportation	3,062.3	141	22.7	31	0.9	0.254	694,393	13.4%	11.0%
Commercial	3,686.7	77	43.9	31	0.9	0.445	799,057	15.4%	13.3%
Mixed Residential/Commercial Use	1,333.6	74	30.3	31	0.9	0.322	199,755	3.9%	4.8%
Forest & Rural Open	405.8	51	1.1	31	0.9	0.060	7,840	0.2%	1.5%
Wetland	0.0	6	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	6	100.0	31	0.9	0.950	4,380	0.1%	0.4%
Active Agriculture	233.6	145	0.1	31	0.9	0.051	10,903	0.2%	0.8%
Urban Open	0.0	51	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	149	61.9	31	0.9	0.607	1,978,912	38.2%	12.4%
Total	27,812.7						5,181,860	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary

Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Total Dissolved Solids (lbs./year)

Table G1-4.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TDS Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	TDS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	144	18.8	31	0.9	0.219	2,601,792	22.6%	46.9%
Medium Density Residential	0.0	144	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	189	51.4	31	0.9	0.513	330,785	2.9%	1.9%
Transportation	2,284.6	294	52.9	31	0.9	0.526	2,234,653	19.4%	8.2%
Commercial	3,289.1	294	56.2	31	0.9	0.556	3,398,872	29.5%	11.8%
Mixed Residential/Commercial Use	0.0	219	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	415	1.9	31	0.9	0.067	369,883	3.2%	7.6%
Wetland	2,183.7	12	2.4	31	0.9	0.072	11,865	0.1%	7.9%
Water	151.3	12	100.0	31	0.9	0.950	10,908	0.1%	0.5%
Active Agriculture	1,281.8	415	2.0	31	0.9	0.068	228,754	2.0%	4.6%
Urban Open	753.3	415	10.9	31	0.9	0.148	292,795	2.5%	2.7%
Industrial	2,191.9	202	75.9	31	0.9	0.733	2,052,708	17.8%	7.9%
Total	27,810.0						11,533,015	100.0%	100.0%

Table G1-4.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TDS Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	TDS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	144	2.4	31	0.9	0.072	849,856	11.7%	46.9%
Medium Density Residential	0.0	144	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	189	30.3	31	0.9	0.323	208,241	2.9%	1.9%
Transportation	2,284.6	294	22.7	31	0.9	0.254	1,080,160	14.9%	8.2%
Commercial	3,289.1	294	43.9	31	0.9	0.445	2,721,911	37.5%	11.8%
Mixed Residential/Commercial Use	0.0	219	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	415	1.1	31	0.9	0.060	330,194	4.5%	7.6%
Wetland	2,183.7	12	2.4	31	0.9	0.072	11,865	0.2%	7.9%
Water	151.3	12	100.0	31	0.9	0.950	10,908	0.2%	0.5%
Active Agriculture	1,281.8	415	0.1	31	0.9	0.051	171,229	2.4%	4.6%
Urban Open	753.3	415	4.2	31	0.9	0.088	173,581	2.4%	2.7%
Industrial	2,191.9	202	61.9	31	0.9	0.607	1,699,903	23.4%	7.9%
Total	27,810.0						7,257,847	100.0%	100.0%

Table G1-4.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TDS Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	TDS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	144	18.8	31	0.9	0.219	1,088,645	6.5%	19.6%
Medium Density Residential	6,171.4	144	37.8	31	0.9	0.390	2,192,933	13.1%	22.2%
High Density Residential	3,884.8	189	51.4	31	0.9	0.513	2,380,131	14.3%	14.0%
Transportation	3,062.3	294	52.9	31	0.9	0.526	2,995,403	17.9%	11.0%
Commercial	3,686.7	294	56.2	31	0.9	0.556	3,809,742	22.8%	13.3%
Mixed Residential/Commercial Use	1,333.6	219	47.0	31	0.9	0.473	873,620	5.2%	4.8%
Forest & Rural Open	405.8	415	1.9	31	0.9	0.067	71,462	0.4%	1.5%
Wetland	0.0	12	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	12	100.0	31	0.9	0.950	8,759	0.1%	0.4%
Active Agriculture	233.6	415	2.0	31	0.9	0.068	41,689	0.2%	0.8%
Urban Open	0.0	415	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	202	75.9	31	0.9	0.733	3,239,625	19.4%	12.4%
Total	27,812.7						16,702,008	100.0%	100.0%

Table G1-4.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TDS Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _i	Runoff Coefficient (Rvu)	TDS Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	144	2.4	31	0.9	0.072	355,597	3.3%	19.6%
Medium Density Residential	6,171.4	144	16.6	31	0.9	0.199	1,120,632	10.3%	22.2%
High Density Residential	3,884.8	189	30.3	31	0.9	0.323	1,498,378	13.8%	14.0%
Transportation	3,062.3	294	22.7	31	0.9	0.254	1,447,882	13.3%	11.0%
Commercial	3,686.7	294	43.9	31	0.9	0.445	3,050,946	28.1%	13.3%
Mixed Residential/Commercial Use	1,333.6	219	30.3	31	0.9	0.322	595,188	5.5%	4.8%
Forest & Rural Open	405.8	415	1.1	31	0.9	0.060	63,794	0.6%	1.5%
Wetland	0.0	12	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	12	100.0	31	0.9	0.950	8,759	0.1%	0.4%
Active Agriculture	233.6	415	0.1	31	0.9	0.051	31,205	0.3%	0.8%
Urban Open	0.0	415	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	202	61.9	31	0.9	0.607	2,682,821	24.7%	12.4%
Total	27,812.7						10,855,205	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Total Phosphorus (lbs./year)

Table G1-5.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TP Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TP Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.52	18.8	31	0.9	0.219	9,395	45.4%	46.9%
Medium Density Residential	0.0	0.52	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.24	51.4	31	0.9	0.513	420	2.0%	1.9%
Transportation	2,284.6	0.43	52.9	31	0.9	0.526	3,268	15.8%	8.2%
Commercial	3,289.1	0.33	56.2	31	0.9	0.556	3,815	18.4%	11.8%
Mixed Residential/Commercial Use	0.0	0.43	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.11	1.9	31	0.9	0.067	98	0.5%	7.6%
Wetland	2,183.7	0.08	2.4	31	0.9	0.072	79	0.4%	7.9%
Water	151.3	0.08	100.0	31	0.9	0.950	73	0.4%	0.5%
Active Agriculture	1,281.8	0.37	2.0	31	0.9	0.068	204	1.0%	4.6%
Urban Open	753.3	0.11	10.9	31	0.9	0.148	78	0.4%	2.7%
Industrial	2,191.9	0.32	75.9	31	0.9	0.733	3,252	15.7%	7.9%
Total	27,810.0						20,682	100.0%	100.0%

Table G1-5.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TP Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TP Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.52	2.4	31	0.9	0.072	3,069	27.6%	46.9%
Medium Density Residential	0.0	0.52	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.24	30.3	31	0.9	0.323	264	2.4%	1.9%
Transportation	2,284.6	0.43	22.7	31	0.9	0.254	1,580	14.2%	8.2%
Commercial	3,289.1	0.33	43.9	31	0.9	0.445	3,055	27.5%	11.8%
Mixed Residential/Commercial Use	0.0	0.43	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.11	1.1	31	0.9	0.060	88	0.8%	7.6%
Wetland	2,183.7	0.08	2.4	31	0.9	0.072	79	0.7%	7.9%
Water	151.3	0.08	100.0	31	0.9	0.950	73	0.7%	0.5%
Active Agriculture	1,281.8	0.37	0.1	31	0.9	0.051	153	1.4%	4.6%
Urban Open	753.3	0.11	4.2	31	0.9	0.088	46	0.4%	2.7%
Industrial	2,191.9	0.32	61.9	31	0.9	0.607	2,693	24.3%	7.9%
Total	27,810.0						11,099	100.0%	100.0%

Table G1-5.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TP Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TP Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.52	18.8	31	0.9	0.219	3,931	12.9%	19.6%
Medium Density Residential	6,171.4	0.52	37.8	31	0.9	0.390	7,919	26.0%	22.2%
High Density Residential	3,884.8	0.24	51.4	31	0.9	0.513	3,022	9.9%	14.0%
Transportation	3,062.3	0.43	52.9	31	0.9	0.526	4,381	14.4%	11.0%
Commercial	3,686.7	0.33	56.2	31	0.9	0.556	4,276	14.0%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.43	47.0	31	0.9	0.473	1,695	5.6%	4.8%
Forest & Rural Open	405.8	0.11	1.9	31	0.9	0.067	19	0.1%	1.5%
Wetland	0.0	0.08	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.08	100.0	31	0.9	0.950	58	0.2%	0.4%
Active Agriculture	233.6	0.37	2.0	31	0.9	0.068	37	0.1%	0.8%
Urban Open	0.0	0.11	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.32	75.9	31	0.9	0.733	5,132	16.8%	12.4%
Total	27,812.7						30,472	100.0%	100.0%

Table G1-5.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TP Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TP Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.52	2.4	31	0.9	0.072	1,284	7.0%	19.6%
Medium Density Residential	6,171.4	0.52	16.6	31	0.9	0.199	4,047	22.1%	22.2%
High Density Residential	3,884.8	0.24	30.3	31	0.9	0.323	1,903	10.4%	14.0%
Transportation	3,062.3	0.43	22.7	31	0.9	0.254	2,118	11.6%	11.0%
Commercial	3,686.7	0.33	43.9	31	0.9	0.445	3,425	18.7%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.43	30.3	31	0.9	0.322	1,155	6.3%	4.8%
Forest & Rural Open	405.8	0.11	1.1	31	0.9	0.060	17	0.1%	1.5%
Wetland	0.0	0.08	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.08	100.0	31	0.9	0.950	58	0.3%	0.4%
Active Agriculture	233.6	0.37	0.1	31	0.9	0.051	28	0.2%	0.8%
Urban Open	0.0	0.11	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.32	61.9	31	0.9	0.607	4,250	23.2%	12.4%
Total	27,812.7						18,284	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Ortho-Phosphorus (lbs./year)

Table G1-6.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	O-P Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Ortho-P Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.27	18.8	31	0.9	0.219	4,878	49.0%	46.9%
Medium Density Residential	0.0	0.27	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.08	51.4	31	0.9	0.513	140	1.4%	1.9%
Transportation	2,284.6	0.22	52.9	31	0.9	0.526	1,672	16.8%	8.2%
Commercial	3,289.1	0.17	56.2	31	0.9	0.556	1,965	19.8%	11.8%
Mixed Residential/Commercial Use	0.0	0.22	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.03	1.9	31	0.9	0.067	27	0.3%	7.6%
Wetland	2,183.7	0.04	2.4	31	0.9	0.072	40	0.4%	7.9%
Water	151.3	0.04	100.0	31	0.9	0.950	36	0.4%	0.5%
Active Agriculture	1,281.8	0.09	2.0	31	0.9	0.068	50	0.5%	4.6%
Urban Open	753.3	0.03	10.9	31	0.9	0.148	21	0.2%	2.7%
Industrial	2,191.9	0.11	75.9	31	0.9	0.733	1,118	11.2%	7.9%
Total	27,810.0						9,947	100.0%	100.0%

Table G1-6.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	O-P Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Ortho-P Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.27	2.4	31	0.9	0.072	1,593	31.0%	46.9%
Medium Density Residential	0.0	0.27	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.08	30.3	31	0.9	0.323	88	1.7%	1.9%
Transportation	2,284.6	0.22	22.7	31	0.9	0.254	808	15.7%	8.2%
Commercial	3,289.1	0.17	43.9	31	0.9	0.445	1,574	30.6%	11.8%
Mixed Residential/Commercial Use	0.0	0.22	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.03	1.1	31	0.9	0.060	24	0.5%	7.6%
Wetland	2,183.7	0.04	2.4	31	0.9	0.072	40	0.8%	7.9%
Water	151.3	0.04	100.0	31	0.9	0.950	36	0.7%	0.5%
Active Agriculture	1,281.8	0.09	0.1	31	0.9	0.051	37	0.7%	4.6%
Urban Open	753.3	0.03	4.2	31	0.9	0.088	13	0.2%	2.7%
Industrial	2,191.9	0.11	61.9	31	0.9	0.607	926	18.0%	7.9%
Total	27,810.0						5,139	100.0%	100.0%

Table G1-6.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	O-P Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Ortho-P Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.27	18.8	31	0.9	0.219	2,041	14.3%	19.6%
Medium Density Residential	6,171.4	0.27	37.8	31	0.9	0.390	4,112	28.8%	22.2%
High Density Residential	3,884.8	0.08	51.4	31	0.9	0.513	1,007	7.1%	14.0%
Transportation	3,062.3	0.22	52.9	31	0.9	0.526	2,241	15.7%	11.0%
Commercial	3,686.7	0.17	56.2	31	0.9	0.556	2,203	15.4%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.22	47.0	31	0.9	0.473	878	6.1%	4.8%
Forest & Rural Open	405.8	0.03	1.9	31	0.9	0.067	5	0.0%	1.5%
Wetland	0.0	0.04	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.04	100.0	31	0.9	0.950	29	0.2%	0.4%
Active Agriculture	233.6	0.09	2.0	31	0.9	0.068	9	0.1%	0.8%
Urban Open	0.0	0.03	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.11	75.9	31	0.9	0.733	1,764	12.3%	12.4%
Total	27,812.7						14,290	100.0%	100.0%

Table G1-6.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	O-P Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Ortho-P Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.27	2.4	31	0.9	0.072	667	8.0%	19.6%
Medium Density Residential	6,171.4	0.27	16.6	31	0.9	0.199	2,101	25.2%	22.2%
High Density Residential	3,884.8	0.08	30.3	31	0.9	0.323	634	7.6%	14.0%
Transportation	3,062.3	0.22	22.7	31	0.9	0.254	1,083	13.0%	11.0%
Commercial	3,686.7	0.17	43.9	31	0.9	0.445	1,764	21.1%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.22	30.3	31	0.9	0.322	598	7.2%	4.8%
Forest & Rural Open	405.8	0.03	1.1	31	0.9	0.060	5	0.1%	1.5%
Wetland	0.0	0.04	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.04	100.0	31	0.9	0.950	29	0.3%	0.4%
Active Agriculture	233.6	0.09	0.1	31	0.9	0.051	7	0.1%	0.8%
Urban Open	0.0	0.03	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.11	61.9	31	0.9	0.607	1,461	17.5%	12.4%
Total	27,812.7						8,349	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary

Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Total Kjeldahl Nitrogen (lbs./year)

Table G1-7.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TKN Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TKN Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	3.32	18.8	31	0.9	0.219	59,986	49.5%	46.9%
Medium Density Residential	0.0	3.32	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	1.17	51.4	31	0.9	0.513	2,048	1.7%	1.9%
Transportation	2,284.6	1.82	52.9	31	0.9	0.526	13,834	11.4%	8.2%
Commercial	3,289.1	1.74	56.2	31	0.9	0.556	20,116	16.6%	11.8%
Mixed Residential/Commercial Use	0.0	2.53	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.94	1.9	31	0.9	0.067	838	0.7%	7.6%
Wetland	2,183.7	0.79	2.4	31	0.9	0.072	781	0.6%	7.9%
Water	151.3	0.79	100.0	31	0.9	0.950	718	0.6%	0.5%
Active Agriculture	1,281.8	1.92	2.0	31	0.9	0.068	1,058	0.9%	4.6%
Urban Open	753.3	0.94	10.9	31	0.9	0.148	663	0.5%	2.7%
Industrial	2,191.9	2.08	75.9	31	0.9	0.733	21,137	17.4%	7.9%
Total	27,810.0						121,178	100.0%	100.0%

Table G1-7.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TKN Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TKN Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	3.32	2.4	31	0.9	0.072	19,594	30.3%	46.9%
Medium Density Residential	0.0	3.32	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	1.17	30.3	31	0.9	0.323	1,289	2.0%	1.9%
Transportation	2,284.6	1.82	22.7	31	0.9	0.254	6,687	10.3%	8.2%
Commercial	3,289.1	1.74	43.9	31	0.9	0.445	16,109	24.9%	11.8%
Mixed Residential/Commercial Use	0.0	2.53	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.94	1.1	31	0.9	0.060	748	1.2%	7.6%
Wetland	2,183.7	0.79	2.4	31	0.9	0.072	781	1.2%	7.9%
Water	151.3	0.79	100.0	31	0.9	0.950	718	1.1%	0.5%
Active Agriculture	1,281.8	1.92	0.1	31	0.9	0.051	792	1.2%	4.6%
Urban Open	753.3	0.94	4.2	31	0.9	0.088	393	0.6%	2.7%
Industrial	2,191.9	2.08	61.9	31	0.9	0.607	17,504	27.1%	7.9%
Total	27,810.0						64,615	100.0%	100.0%

Table G1-7.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	TKN Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TKN Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	3.32	18.8	31	0.9	0.219	25,099	14.3%	19.6%
Medium Density Residential	6,171.4	3.32	37.8	31	0.9	0.390	50,559	28.7%	22.2%
High Density Residential	3,884.8	1.17	51.4	31	0.9	0.513	14,734	8.4%	14.0%
Transportation	3,062.3	1.82	52.9	31	0.9	0.526	18,543	10.5%	11.0%
Commercial	3,686.7	1.74	56.2	31	0.9	0.556	22,547	12.8%	13.3%
Mixed Residential/Commercial Use	1,333.6	2.53	47.0	31	0.9	0.473	10,093	5.7%	4.8%
Forest & Rural Open	405.8	0.94	1.9	31	0.9	0.067	162	0.1%	1.5%
Wetland	0.0	0.79	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.79	100.0	31	0.9	0.950	577	0.3%	0.4%
Active Agriculture	233.6	1.92	2.0	31	0.9	0.068	193	0.1%	0.8%
Urban Open	0.0	0.94	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	2.08	75.9	31	0.9	0.733	33,359	19.0%	12.4%
Total	27,812.7						175,866	100.0%	100.0%

Table G1-7.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	TKN Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	TKN Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	3.32	2.4	31	0.9	0.072	8,198	7.8%	19.6%
Medium Density Residential	6,171.4	3.32	16.6	31	0.9	0.199	25,837	24.4%	22.2%
High Density Residential	3,884.8	1.17	30.3	31	0.9	0.323	9,276	8.8%	14.0%
Transportation	3,062.3	1.82	22.7	31	0.9	0.254	8,963	8.5%	11.0%
Commercial	3,686.7	1.74	43.9	31	0.9	0.445	18,057	17.1%	13.3%
Mixed Residential/Commercial Use	1,333.6	2.53	30.3	31	0.9	0.322	6,876	6.5%	4.8%
Forest & Rural Open	405.8	0.94	1.1	31	0.9	0.060	144	0.1%	1.5%
Wetland	0.0	0.79	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.79	100.0	31	0.9	0.950	577	0.5%	0.4%
Active Agriculture	233.6	1.92	0.1	31	0.9	0.051	144	0.1%	0.8%
Urban Open	0.0	0.94	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	2.08	61.9	31	0.9	0.607	27,625	26.1%	12.4%
Total	27,812.7						105,697	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Nitrite + Nitrate Nitrogen (lbs./year)

Table G1-8.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	NO ₂ +NO ₃ Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	NO ₂ +NO ₃ Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	1.83	18.8	31	0.9	0.219	33,064	40.7%	46.9%
Medium Density Residential	0.0	1.83	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	2.12	51.4	31	0.9	0.513	3,710	4.6%	1.9%
Transportation	2,284.6	0.83	52.9	31	0.9	0.526	6,309	7.8%	8.2%
Commercial	3,289.1	1.23	56.2	31	0.9	0.556	14,220	17.5%	11.8%
Mixed Residential/Commercial Use	0.0	1.53	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.8	1.9	31	0.9	0.067	713	0.9%	7.6%
Wetland	2,183.7	0.59	2.4	31	0.9	0.072	583	0.7%	7.9%
Water	151.3	0.59	100.0	31	0.9	0.950	536	0.7%	0.5%
Active Agriculture	1,281.8	4.06	2.0	31	0.9	0.068	2,238	2.8%	4.6%
Urban Open	753.3	0.8	10.9	31	0.9	0.148	564	0.7%	2.7%
Industrial	2,191.9	1.89	75.9	31	0.9	0.733	19,206	23.7%	7.9%
Total	27,810.0						81,144	100.0%	100.0%

Table G1-8.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	NO ₂ +NO ₃ Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	NO ₂ +NO ₃ Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	1.83	2.4	31	0.9	0.072	10,800	22.9%	46.9%
Medium Density Residential	0.0	1.83	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	2.12	30.3	31	0.9	0.323	2,336	4.9%	1.9%
Transportation	2,284.6	0.83	22.7	31	0.9	0.254	3,049	6.5%	8.2%
Commercial	3,289.1	1.23	43.9	31	0.9	0.445	11,388	24.1%	11.8%
Mixed Residential/Commercial Use	0.0	1.53	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0.8	1.1	31	0.9	0.060	637	1.3%	7.6%
Wetland	2,183.7	0.59	2.4	31	0.9	0.072	583	1.2%	7.9%
Water	151.3	0.59	100.0	31	0.9	0.950	536	1.1%	0.5%
Active Agriculture	1,281.8	4.06	0.1	31	0.9	0.051	1,675	3.5%	4.6%
Urban Open	753.3	0.8	4.2	31	0.9	0.088	335	0.7%	2.7%
Industrial	2,191.9	1.89	61.9	31	0.9	0.607	15,905	33.7%	7.9%
Total	27,810.0						47,244	100.0%	100.0%

Table G1-8.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	NO ₂ +NO ₃ Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	NO ₂ +NO ₃ Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	1.83	18.8	31	0.9	0.219	13,835	10.6%	19.6%
Medium Density Residential	6,171.4	1.83	37.8	31	0.9	0.390	27,869	21.4%	22.2%
High Density Residential	3,884.8	2.12	51.4	31	0.9	0.513	26,698	20.5%	14.0%
Transportation	3,062.3	0.83	52.9	31	0.9	0.526	8,456	6.5%	11.0%
Commercial	3,686.7	1.23	56.2	31	0.9	0.556	15,939	12.2%	13.3%
Mixed Residential/Commercial Use	1,333.6	1.53	47.0	31	0.9	0.473	6,103	4.7%	4.8%
Forest & Rural Open	405.8	0.8	1.9	31	0.9	0.067	138	0.1%	1.5%
Wetland	0.0	0.59	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.59	100.0	31	0.9	0.950	431	0.3%	0.4%
Active Agriculture	233.6	4.06	2.0	31	0.9	0.068	408	0.3%	0.8%
Urban Open	0.0	0.8	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	1.89	75.9	31	0.9	0.733	30,311	23.3%	12.4%
Total	27,812.7						130,187	100.0%	100.0%

Table G1-8.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	NO ₂ +NO ₃ Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _f	Runoff Coefficient (Rvu)	NO ₂ +NO ₃ Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	1.83	2.4	31	0.9	0.072	4,519	5.5%	19.6%
Medium Density Residential	6,171.4	1.83	16.6	31	0.9	0.199	14,241	17.3%	22.2%
High Density Residential	3,884.8	2.12	30.3	31	0.9	0.323	16,807	20.4%	14.0%
Transportation	3,062.3	0.83	22.7	31	0.9	0.254	4,088	5.0%	11.0%
Commercial	3,686.7	1.23	43.9	31	0.9	0.445	12,764	15.5%	13.3%
Mixed Residential/Commercial Use	1,333.6	1.53	30.3	31	0.9	0.322	4,158	5.0%	4.8%
Forest & Rural Open	405.8	0.8	1.1	31	0.9	0.060	123	0.1%	1.5%
Wetland	0.0	0.59	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.59	100.0	31	0.9	0.950	431	0.5%	0.4%
Active Agriculture	233.6	4.06	0.1	31	0.9	0.051	305	0.4%	0.8%
Urban Open	0.0	0.8	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	1.89	61.9	31	0.9	0.607	25,102	30.4%	12.4%
Total	27,812.7						82,538	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Lead (lbs./year)

Table G1-9.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Pb Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Pb Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.057	18.8	31	0.9	0.219	1,030	36.7%	46.9%
Medium Density Residential	0.0	0.057	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.041	51.4	31	0.9	0.513	72	2.6%	1.9%
Transportation	2,284.6	0.049	52.9	31	0.9	0.526	372	13.3%	8.2%
Commercial	3,289.1	0.049	56.2	31	0.9	0.556	566	20.2%	11.8%
Mixed Residential/Commercial Use	0.0	0.053	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.9	31	0.9	0.067	0	0.0%	7.6%
Wetland	2,183.7	0.011	2.4	31	0.9	0.072	11	0.4%	7.9%
Water	151.3	0.011	100.0	31	0.9	0.950	10	0.4%	0.5%
Active Agriculture	1,281.8	0	2.0	31	0.9	0.068	0	0.0%	4.6%
Urban Open	753.3	0.014	10.9	31	0.9	0.148	10	0.4%	2.7%
Industrial	2,191.9	0.072	75.9	31	0.9	0.733	732	26.1%	7.9%
Total	27,810.0						2,803	100.0%	100.0%

Table G1-9.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Pb Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Pb Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.057	2.4	31	0.9	0.072	336	20.4%	46.9%
Medium Density Residential	0.0	0.057	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.041	30.3	31	0.9	0.323	45	2.7%	1.9%
Transportation	2,284.6	0.049	22.7	31	0.9	0.254	180	10.9%	8.2%
Commercial	3,289.1	0.049	43.9	31	0.9	0.445	454	27.5%	11.8%
Mixed Residential/Commercial Use	0.0	0.053	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.1	31	0.9	0.060	0	0.0%	7.6%
Wetland	2,183.7	0.011	2.4	31	0.9	0.072	11	0.7%	7.9%
Water	151.3	0.011	100.0	31	0.9	0.950	10	0.6%	0.5%
Active Agriculture	1,281.8	0	0.1	31	0.9	0.051	0	0.0%	4.6%
Urban Open	753.3	0.014	4.2	31	0.9	0.088	6	0.4%	2.7%
Industrial	2,191.9	0.072	61.9	31	0.9	0.607	606	36.8%	7.9%
Total	27,810.0						1,648	100.0%	100.0%

Table G1-9.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Pb Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Pb Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.057	18.8	31	0.9	0.219	431	10.0%	19.6%
Medium Density Residential	6,171.4	0.057	37.8	31	0.9	0.390	868	20.1%	22.2%
High Density Residential	3,884.8	0.041	51.4	31	0.9	0.513	516	11.9%	14.0%
Transportation	3,062.3	0.049	52.9	31	0.9	0.526	499	11.5%	11.0%
Commercial	3,686.7	0.049	56.2	31	0.9	0.556	635	14.7%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.053	47.0	31	0.9	0.473	211	4.9%	4.8%
Forest & Rural Open	405.8	0	1.9	31	0.9	0.067	0	0.0%	1.5%
Wetland	0.0	0.011	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.011	100.0	31	0.9	0.950	8	0.2%	0.4%
Active Agriculture	233.6	0	2.0	31	0.9	0.068	0	0.0%	0.8%
Urban Open	0.0	0.014	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.072	75.9	31	0.9	0.733	1,155	26.7%	12.4%
Total	27,812.7						4,324	100.0%	100.0%

Table G1-9.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Pb Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Pb Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.057	2.4	31	0.9	0.072	141	5.1%	19.6%
Medium Density Residential	6,171.4	0.057	16.6	31	0.9	0.199	444	16.0%	22.2%
High Density Residential	3,884.8	0.041	30.3	31	0.9	0.323	325	11.7%	14.0%
Transportation	3,062.3	0.049	22.7	31	0.9	0.254	241	8.7%	11.0%
Commercial	3,686.7	0.049	43.9	31	0.9	0.445	508	18.4%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.053	30.3	31	0.9	0.322	144	5.2%	4.8%
Forest & Rural Open	405.8	0	1.1	31	0.9	0.060	0	0.0%	1.5%
Wetland	0.0	0.011	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.011	100.0	31	0.9	0.950	8	0.3%	0.4%
Active Agriculture	233.6	0	0.1	31	0.9	0.051	0	0.0%	0.8%
Urban Open	0.0	0.014	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.072	61.9	31	0.9	0.607	956	34.6%	12.4%
Total	27,812.7						2,768	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Copper (lbs./year)

Table G1-10.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Cu Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cu Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.026	18.8	31	0.9	0.219	470	25.5%	46.9%
Medium Density Residential	0.0	0.026	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.033	51.4	31	0.9	0.513	58	3.1%	1.9%
Transportation	2,284.6	0.037	52.9	31	0.9	0.526	281	15.3%	8.2%
Commercial	3,289.1	0.037	56.2	31	0.9	0.556	428	23.3%	11.8%
Mixed Residential/Commercial Use	0.0	0.032	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.9	31	0.9	0.067	0	0.0%	7.6%
Wetland	2,183.7	0.007	2.4	31	0.9	0.072	7	0.4%	7.9%
Water	151.3	0.007	100.0	31	0.9	0.950	6	0.3%	0.5%
Active Agriculture	1,281.8	0	2.0	31	0.9	0.068	0	0.0%	4.6%
Urban Open	753.3	0	10.9	31	0.9	0.148	0	0.0%	2.7%
Industrial	2,191.9	0.058	75.9	31	0.9	0.733	589	32.0%	7.9%
Total	27,810.0						1,839	100.0%	100.0%

Table G1-10.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Cu Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cu Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.026	2.4	31	0.9	0.072	153	13.1%	46.9%
Medium Density Residential	0.0	0.026	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.033	30.3	31	0.9	0.323	36	3.1%	1.9%
Transportation	2,284.6	0.037	22.7	31	0.9	0.254	136	11.6%	8.2%
Commercial	3,289.1	0.037	43.9	31	0.9	0.445	343	29.3%	11.8%
Mixed Residential/Commercial Use	0.0	0.032	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.1	31	0.9	0.060	0	0.0%	7.6%
Wetland	2,183.7	0.007	2.4	31	0.9	0.072	7	0.6%	7.9%
Water	151.3	0.007	100.0	31	0.9	0.950	6	0.5%	0.5%
Active Agriculture	1,281.8	0	0.1	31	0.9	0.051	0	0.0%	4.6%
Urban Open	753.3	0	4.2	31	0.9	0.088	0	0.0%	2.7%
Industrial	2,191.9	0.058	61.9	31	0.9	0.607	488	41.7%	7.9%
Total	27,810.0						1,170	100.0%	100.0%

Table G1-10.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Cu Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cu Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.026	18.8	31	0.9	0.219	197	6.7%	19.6%
Medium Density Residential	6,171.4	0.026	37.8	31	0.9	0.390	396	13.5%	22.2%
High Density Residential	3,884.8	0.033	51.4	31	0.9	0.513	416	14.2%	14.0%
Transportation	3,062.3	0.037	52.9	31	0.9	0.526	377	12.9%	11.0%
Commercial	3,686.7	0.037	56.2	31	0.9	0.556	479	16.4%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.032	47.0	31	0.9	0.473	126	4.3%	4.8%
Forest & Rural Open	405.8	0	1.9	31	0.9	0.067	0	0.0%	1.5%
Wetland	0.0	0.007	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.007	100.0	31	0.9	0.950	5	0.2%	0.4%
Active Agriculture	233.6	0	2.0	31	0.9	0.068	0	0.0%	0.8%
Urban Open	0.0	0	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.058	75.9	31	0.9	0.733	930	31.8%	12.4%
Total	27,812.7						2,925	100.0%	100.0%

Table G1-10.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Cu Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cu Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.026	2.4	31	0.9	0.072	64	3.3%	19.6%
Medium Density Residential	6,171.4	0.026	16.6	31	0.9	0.199	202	10.3%	22.2%
High Density Residential	3,884.8	0.033	30.3	31	0.9	0.323	262	13.4%	14.0%
Transportation	3,062.3	0.037	22.7	31	0.9	0.254	182	9.3%	11.0%
Commercial	3,686.7	0.037	43.9	31	0.9	0.445	384	19.6%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.032	30.3	31	0.9	0.322	86	4.4%	4.8%
Forest & Rural Open	405.8	0	1.1	31	0.9	0.060	0	0.0%	1.5%
Wetland	0.0	0.007	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.007	100.0	31	0.9	0.950	5	0.3%	0.4%
Active Agriculture	233.6	0	0.1	31	0.9	0.051	0	0.0%	0.8%
Urban Open	0.0	0	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.058	61.9	31	0.9	0.607	770	39.4%	12.4%
Total	27,812.7						1,955	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Zinc (lbs./year)

Table G1-11.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Zn Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Zn Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.161	18.8	31	0.9	0.219	2,909	22.1%	46.9%
Medium Density Residential	0.0	0.161	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.218	51.4	31	0.9	0.513	382	2.9%	1.9%
Transportation	2,284.6	0.156	52.9	31	0.9	0.526	1,186	9.0%	8.2%
Commercial	3,289.1	0.156	56.2	31	0.9	0.556	1,803	13.7%	11.8%
Mixed Residential/Commercial Use	0.0	0.159	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.9	31	0.9	0.067	0	0.0%	7.6%
Wetland	2,183.7	0.03	2.4	31	0.9	0.072	30	0.2%	7.9%
Water	151.3	0.03	100.0	31	0.9	0.950	27	0.2%	0.5%
Active Agriculture	1,281.8	0	2.0	31	0.9	0.068	0	0.0%	4.6%
Urban Open	753.3	0.04	10.9	31	0.9	0.148	28	0.2%	2.7%
Industrial	2,191.9	0.671	75.9	31	0.9	0.733	6,819	51.7%	7.9%
Total	27,810.0						13,184	100.0%	100.0%

Table G1-11.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Zn Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Zn Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.161	2.4	31	0.9	0.072	950	10.6%	46.9%
Medium Density Residential	0.0	0.161	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.218	30.3	31	0.9	0.323	240	2.7%	1.9%
Transportation	2,284.6	0.156	22.7	31	0.9	0.254	573	6.4%	8.2%
Commercial	3,289.1	0.156	43.9	31	0.9	0.445	1,444	16.2%	11.8%
Mixed Residential/Commercial Use	0.0	0.159	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.1	31	0.9	0.060	0	0.0%	7.6%
Wetland	2,183.7	0.03	2.4	31	0.9	0.072	30	0.3%	7.9%
Water	151.3	0.03	100.0	31	0.9	0.950	27	0.3%	0.5%
Active Agriculture	1,281.8	0	0.1	31	0.9	0.051	0	0.0%	4.6%
Urban Open	753.3	0.04	4.2	31	0.9	0.088	17	0.2%	2.7%
Industrial	2,191.9	0.671	61.9	31	0.9	0.607	5,647	63.2%	7.9%
Total	27,810.0						8,928	100.0%	100.0%

Table G1-11.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Zn Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Zn Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.161	18.8	31	0.9	0.219	1,217	5.7%	19.6%
Medium Density Residential	6,171.4	0.161	37.8	31	0.9	0.390	2,452	11.4%	22.2%
High Density Residential	3,884.8	0.218	51.4	31	0.9	0.513	2,745	12.8%	14.0%
Transportation	3,062.3	0.156	52.9	31	0.9	0.526	1,589	7.4%	11.0%
Commercial	3,686.7	0.156	56.2	31	0.9	0.556	2,021	9.4%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.159	47.0	31	0.9	0.473	632	2.9%	4.8%
Forest & Rural Open	405.8	0	1.9	31	0.9	0.067	0	0.0%	1.5%
Wetland	0.0	0.03	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.03	100.0	31	0.9	0.950	22	0.1%	0.4%
Active Agriculture	233.6	0	2.0	31	0.9	0.068	0	0.0%	0.8%
Urban Open	0.0	0.04	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.671	75.9	31	0.9	0.733	10,761	50.2%	12.4%
Total	27,812.7						21,441	100.0%	100.0%

Table G1-11.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Zn Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Zn Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.161	2.4	31	0.9	0.072	398	2.6%	19.6%
Medium Density Residential	6,171.4	0.161	16.6	31	0.9	0.199	1,253	8.3%	22.2%
High Density Residential	3,884.8	0.218	30.3	31	0.9	0.323	1,728	11.4%	14.0%
Transportation	3,062.3	0.156	22.7	31	0.9	0.254	768	5.1%	11.0%
Commercial	3,686.7	0.156	43.9	31	0.9	0.445	1,619	10.7%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.159	30.3	31	0.9	0.322	431	2.8%	4.8%
Forest & Rural Open	405.8	0	1.1	31	0.9	0.060	0	0.0%	1.5%
Wetland	0.0	0.03	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.03	100.0	31	0.9	0.950	22	0.1%	0.4%
Active Agriculture	233.6	0	0.1	31	0.9	0.051	0	0.0%	0.8%
Urban Open	0.0	0.04	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.671	61.9	31	0.9	0.607	8,912	58.9%	12.4%
Total	27,812.7						15,130	100.0%	100.0%

Ecorse Creek Whole-Watershed Summary
Estimated Stormwater and Snowmelt Runoff-Generated Annual Pollutant Loads: Cadmium (lbs./year)

Table G1-12.a. Existing (2000) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Cd Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cd Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.004	18.8	31	0.9	0.219	71	37.8%	46.9%
Medium Density Residential	0.0	0.004	37.8	31	0.9	0.390	0	0.0%	0.0%
High Density Residential	539.9	0.003	51.4	31	0.9	0.513	5	2.8%	1.9%
Transportation	2,284.6	0.003	52.9	31	0.9	0.526	23	12.2%	8.2%
Commercial	3,289.1	0.003	56.2	31	0.9	0.556	35	18.6%	11.8%
Mixed Residential/Commercial Use	0.0	0.004	47.0	31	0.9	0.473	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.9	31	0.9	0.067	0	0.0%	7.6%
Wetland	2,183.7	0.001	2.4	31	0.9	0.072	1	0.5%	7.9%
Water	151.3	0.001	100.0	31	0.9	0.950	1	0.5%	0.5%
Active Agriculture	1,281.8	0	2.0	31	0.9	0.068	0	0.0%	4.6%
Urban Open	753.3	0.001	10.9	31	0.9	0.148	1	0.4%	2.7%
Industrial	2,191.9	0.005	75.9	31	0.9	0.733	51	27.2%	7.9%
Total	27,810.0						187	100.0%	100.0%

Table G1-12.b. Existing (2000) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Cd Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cd Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	13,034.0	0.004	2.4	31	0.9	0.072	24	21.4%	46.9%
Medium Density Residential	0.0	0.004	16.6	31	0.9	0.199	0	0.0%	0.0%
High Density Residential	539.9	0.003	30.3	31	0.9	0.323	3	3.0%	1.9%
Transportation	2,284.6	0.003	22.7	31	0.9	0.254	11	10.0%	8.2%
Commercial	3,289.1	0.003	43.9	31	0.9	0.445	28	25.2%	11.8%
Mixed Residential/Commercial Use	0.0	0.004	30.3	31	0.9	0.322	0	0.0%	0.0%
Forest & Rural Open	2,100.4	0	1.1	31	0.9	0.060	0	0.0%	7.6%
Wetland	2,183.7	0.001	2.4	31	0.9	0.072	1	0.9%	7.9%
Water	151.3	0.001	100.0	31	0.9	0.950	1	0.8%	0.5%
Active Agriculture	1,281.8	0	0.1	31	0.9	0.051	0	0.0%	4.6%
Urban Open	753.3	0.001	4.2	31	0.9	0.088	0	0.4%	2.7%
Industrial	2,191.9	0.005	61.9	31	0.9	0.607	42	38.2%	7.9%
Total	27,810.0						110	100.0%	100.0%

Table G1-12.c. Future (2030) Land Use, Total Impervious Area (TIA)

Land Use Category	Acres (Au)	Cd Conc. (mg/L) (Cu)	Percent Total Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cd Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.004	18.8	31	0.9	0.219	30	10.3%	19.6%
Medium Density Residential	6,171.4	0.004	37.8	31	0.9	0.390	61	20.8%	22.2%
High Density Residential	3,884.8	0.003	51.4	31	0.9	0.513	38	12.9%	14.0%
Transportation	3,062.3	0.003	52.9	31	0.9	0.526	31	10.4%	11.0%
Commercial	3,686.7	0.003	56.2	31	0.9	0.556	39	13.3%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.004	47.0	31	0.9	0.473	14	4.8%	4.8%
Forest & Rural Open	405.8	0	1.9	31	0.9	0.067	0	0.0%	1.5%
Wetland	0.0	0.001	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.001	100.0	31	0.9	0.950	1	0.2%	0.4%
Active Agriculture	233.6	0	2.0	31	0.9	0.068	0	0.0%	0.8%
Urban Open	0.0	0.001	10.9	31	0.9	0.148	0	0.0%	0.0%
Industrial	3,459.3	0.005	75.9	31	0.9	0.733	80	27.3%	12.4%
Total	27,812.7						293	100.0%	100.0%

Table G1-12.d. Future (2030) Land Use, Directly Connected Impervious Area (DCIA)

Land Use Category	Acres (Au)	Cd Conc. (mg/L) (Cu)	Percent Directly Connected Imperviousness (Iu)	Annual Precipitation (in.) (P)	P _j	Runoff Coefficient (Rvu)	Cd Annual Load (lbs/yr)	% of Total Load	% of Land Use
Low Density Residential	5,453.7	0.004	2.4	31	0.9	0.072	10	5.3%	19.6%
Medium Density Residential	6,171.4	0.004	16.6	31	0.9	0.199	31	16.6%	22.2%
High Density Residential	3,884.8	0.003	30.3	31	0.9	0.323	24	12.7%	14.0%
Transportation	3,062.3	0.003	22.7	31	0.9	0.254	15	7.9%	11.0%
Commercial	3,686.7	0.003	43.9	31	0.9	0.445	31	16.6%	13.3%
Mixed Residential/Commercial Use	1,333.6	0.004	30.3	31	0.9	0.322	10	5.1%	4.8%
Forest & Rural Open	405.8	0	1.1	31	0.9	0.060	0	0.0%	1.5%
Wetland	0.0	0.001	2.4	31	0.9	0.072	0	0.0%	0.0%
Water	121.5	0.001	100.0	31	0.9	0.950	1	0.4%	0.4%
Active Agriculture	233.6	0	0.1	31	0.9	0.051	0	0.0%	0.8%
Urban Open	0.0	0.001	4.2	31	0.9	0.088	0	0.0%	0.0%
Industrial	3,459.3	0.005	61.9	31	0.9	0.607	66	35.4%	12.4%
Total	27,812.7						187	100.0%	100.0%