

Table 4-4. Summary of 1994-2000 Mass Emissions Results by Year

Class Constituent	DL	Units	1994-95						1995-96						1996-97					
			No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV
Miscellaneous Constituents																				
Cyanide	0.01	mg/l	9	9	0	S.I.D.	S.I.D.	S.I.D.	24	23	4	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.
TPH	1	mg/l	9	5	44	1.9	0.5	0.96	26	10	62	2.4	1.7	0.89	17	11	35	1.9	0.5	1.20
Oil and Grease	1	mg/l	6	3	50	2.0	1.4	0.94	26	10	62	2.4	1.7	0.89	17	11	35	1.8	0.5	1.18
Total Phenols	0.1	mg/l	9	9	0	S.I.D.	S.I.D.	S.I.D.	24	23	4	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.
Indicator Bacteria																				
Total Coliform	20	MPN/100ml	9	0	100	423,333	240,000	1.07	26	2	92	3,997,462	1,700,000	1.26	17	0	100	1,346,894	240,000	2.83
Fecal Coliform	20	MPN/100ml	9	0	100	195,444	230,000	0.79	26	0	100	2,581,288	900,000	1.94	17	0	100	71,918	24,000	1.27
Ratio Fecal Coliform/Total Coliform			9	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	1	0	100	S.I.D.	S.I.D.	S.I.D.
Fecal Streptococcus	20	MPN/100ml	9	0	100	279,222	90,000	1.81	26	2	92	1,305,032	700,000	1.49	17	0	100	248,047	240,000	1.06
Fecal Enterococcus	20	MPN/100ml	9	0	100	243,789	50,000	2.12	26	2	92	667,424	270,000	1.06	4	0	100	73,050	60,000	1.02
General Minerals																				
Ammonia	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	10	41	0.7	0.1	1.44	16	4	75	0.5	0.3	1.16
Calcium	1.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	39	38	0.52	16	0	100	21	17	0.54
Magnesium	1.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	13.4	9.7	0.95	16	0	100	4.9	3.7	0.77
Potassium	1.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	4.5	4.0	0.44	16	0	100	3.5	3.3	0.58
Sodium	1.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	37	32	0.60	16	0	100	15	10	0.68
Bicarbonate	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	77	81	0.54	16	0	100	41	34	0.44
Carbonate	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Chloride	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	34	32	0.57	16	0	100	18	10	0.85
Fluoride	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	0.2	0.2	0.23	16	10	38	0.1	0.1	0.62
Nitrate	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	13.2	12.8	0.38	16	0	100	5.2	3.3	0.74
Sulfate	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	88	63	0.94	16	0	100	29	18	0.80
Alkalinity	4.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	77	81	0.54	16	0	100	41	34	0.44
Hardness	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	152	135	0.66	16	0	100	73	56	0.57
COD	5	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	10	33	20	3	1.56	16	1	94	121	108	0.80
pH	0-14		0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	7.7	7.7	0.04	16	0	100	7.3	7.2	0.04
Specific Conductance	1.0	umhos/cm	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	465	425	0.55	16	0	100	244	225	0.57
Total Dissolved Solids	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	310	280	0.58	16	0	100	163	153	0.59
Turbidity	0.1	NTU	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	75	61	0.75	16	0	100	40	26	0.97
Total Suspended Solids	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	348	360	0.60	16	0	100	205	182	0.58
Volatile Suspended Solids	1.0	mg/l/hr	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	54	56	0.48	16	0	100	47	45	0.53
MBAS	0.05	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Organic Carbon	1.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	0	100	12	10	0.49	16	0	100	12	9	0.86
BOD	2.0	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	14	0	100	34	30	0.45	16	0	100	33	31	0.42
Nutrients																				
Dissolved Phosphorus	0.05	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	0.3	0.2	0.60	16	0	100	0.3	0.2	0.49
Total Phosphorus	0.05	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	0.4	0.3	0.74	16	0	100	0.8	0.8	0.43
NH3-N	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	14	9	36	0.5	0.1	1.58	16	6	63	0.4	0.2	1.19
Nitrate-N	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	3.0	2.9	0.38	16	0	100	1.2	0.7	0.74
Nitrite-N	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	3	81	0.13	0.08	0.89	16	0	100	0.13	0.09	0.80
TKN	0.1	mg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	0	100	2.3	1.7	0.65	16	0	100	3.0	2.9	0.64
Metals																				
Dissolved Aluminum	100	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	14	13	S.I.D.	S.I.D.	S.I.D.
Total Aluminum	100	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	11	31	1130	50	1.91
Dissolved Antimony	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Antimony	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Arsenic	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	15	6	S.I.D.	S.I.D.	S.I.D.
Total Arsenic	5	µg/l	1	0	100	S.I.D.	S.I.D.	S.I.D.	17	16	6	S.I.D.	S.I.D.	S.I.D.	16	10	38	2.0	3	0.34
Dissolved Barium	10	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	7	56	10	6	0.67
Total Barium	10	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	16	6	S.I.D.	S.I.D.	S.I.D.	16	5	69	41	23	1.33
Dissolved Beryllium	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Beryllium	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Boron	100	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	17	16	6	S.I.D.	S.I.D.	S.I.D.	16	14	13	S.I.D.	S.I.D.	S.I.D.
Total Boron	100	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.	16	11	31	84	50	0.68
Dissolved Cadmium	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Cadmium	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Chromium	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	11	31	2.4	3	0.36
Total Chromium	5	µg/l	1	0	100	S.I.D.	S.I.D.	S.I.D.	17	11	35	14.0	2.5	1.73	16	3	81	11.1	3.5	1.55
Dissolved Chromium +6	10	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Chromium +6	10	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.

Table 4-4. Summary of 1994-2000 Mass Emissions Results by Year

Class Constituent	DL	Units	1994-95						1995-96						1996-97					
			No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV
Dissolved Copper	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.	16	9	44	3.0	2.5	0.75
Total Copper	5	µg/l	1	0	100	S.I.D.	S.I.D.	S.I.D.	17	3	82	27.1	24	0.84	16	1	94	24.6	13	1.26
Dissolved Iron	100	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	10	41	134	50	1.23	16	8	50	217	100	1.11
Total Iron	100	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	0	100	2642	1110	1.39	16	0	100	1821	790	1.44
Dissolved Lead	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.	16	14	13	S.I.D.	S.I.D.	S.I.D.
Total Lead	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	11	35	18	2.5	2.46	16	2	88	21	9.0	1.61
Dissolved Manganese	100	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	13	24	50	50	0.13	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Manganese	100	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	2	88	97	65	1.01	16	11	31	94	50	1.27
Dissolved Mercury	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Mercury	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.	16	15	6	S.I.D.	S.I.D.	S.I.D.
Dissolved Nickel	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	15	12	S.I.D.	S.I.D.	S.I.D.	16	13	19	S.I.D.	S.I.D.	S.I.D.
Nickel	5	µg/l	1	0	100	S.I.D.	S.I.D.	S.I.D.	17	7	59	14.6	16.0	0.85	16	4	75	7.4	3.3	1.31
Dissolved Selenium	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Selenium	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	14	18	S.I.D.	S.I.D.	S.I.D.	16	13	19	S.I.D.	S.I.D.	S.I.D.
Dissolved Silver	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Silver	1	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	16	6	S.I.D.	S.I.D.	S.I.D.	16	15	6	S.I.D.	S.I.D.	S.I.D.
Dissolved Thallium	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Total Thallium	5	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	17	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Zinc	50	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	13	24	37	25	0.64	16	12	25	34	25	0.52
Total Zinc	50	µg/l	1	1	0	S.I.D.	S.I.D.	S.I.D.	17	7	59	91	73	0.99	16	2	88	118	71	1.19
SVOCs																				
Bis(2-ethylhexyl)phthalate	1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	4	73	19	14.4	1.12	16	5	69	9	4.2	1.26
PAHs																				
Acenaphthene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Acenaphthylene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Antracene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Benzo(a)anthracene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Benzo(a)pyrene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Benzo(b)fluoranthene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Benzo(k)fluoranthene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Chrysene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Dibenz(a,h)anthracene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Fluoranthene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Fluorene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Indeno (1,2,3-cd)pyrene	0.1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Naphthalene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Phenanthrene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Pyrene	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
All other SVOCs	0.05-5.0	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Pesticides																				
Organochlorine Pesticides & PCBs	0.05-1.0	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	11	11	0	S.I.D.	S.I.D.	S.I.D.
Carbofuran	5	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	13	13	0	S.I.D.	S.I.D.	S.I.D.
Glyphosate	25	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Organo-Phosphate Pesticides																				
Diazinon	0.01	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Chlorpyrifos	0.05	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
N- and P-Containing Pesticides																				
Thiobencarb	1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
All other N- and P- Pesticides	1.0-2.0	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	15	15	0	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Phenoxyacetic Acid Herbicides																				
2,4-D	10	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
2,4,5-TP	1	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.
Bentazon	2	µg/l	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	16	16	0	S.I.D.	S.I.D.	S.I.D.

Table 4-4. Summary of 1994-2000 Mass Emissions Results by Year

Class Constituent	DL	Units	1997-98						1998-99						1999-2000					
			No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV
Miscellaneous Constituents																				
Cyanide	0.01	mg/l	31	25	19	S.I.D.	S.I.D.	S.I.D.	44	34	23	0.014	0.005	2.800	36	36	0	S.I.D.	S.I.D.	S.I.D.
TPH	1	mg/l	31	23	26	0.9	0.5	1.12	44	25	43	1.3	0.5	1.2	36	15	58	1.6	1.4	0.79
Oil and Grease	1	mg/l	31	22	29	1.4	0.5	2.62	44	24	45	2.9	0.5	2.6	36	13	64	2.1	2.1	0.79
Total Phenols	0.1	mg/l	31	30	3	S.I.D.	S.I.D.	S.I.D.	44	43	2	S.I.D.	S.I.D.	S.I.D.	35	35	0	S.I.D.	S.I.D.	S.I.D.
Indicator Bacteria																				
Total Coliform	20	MPN/100ml	31	0	100	2,909,484	500,000	1.80	44	3	93	414,967	240,000	2.02	36	0	100	585,231	240,000	2.59
Fecal Coliform	20	MPN/100ml	31	0	100	2,536,606	130,000	2.12	44	3	93	53,090	9,000	1.96	36	0	100	161,347	50,000	1.85
Ratio Fecal Coliform/Total Coliform			0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	2	0	100	S.I.D.	S.I.D.	S.I.D.	3	0	100	54%	44%	0.76
Fecal Streptococcus	20	MPN/100ml	31	0	100	985,903	240,000	2.98	44	3	93	147,983	31,500	1.92	36	0	100	216,153	145,000	1.17
Fecal Enterococcus	20	MPN/100ml	0	0	S.I.D.	S.I.D.	S.I.D.	S.I.D.	24	0	100	67,393	22,500	1.67	36	0	100	98,494	16,500	2.14
General Minerals																				
Ammonia	0.1	mg/l	47	0	100	1.0	0.7	0.96	56	22	61	0.7	0.2	1.91	52	28	46	0.4	0.1	2.17
Calcium	1.0	mg/l	38	0	100	38	33	0.67	58	0	100	57	49	0.70	52	0	100	41	28	0.95
Magnesium	1.0	mg/l	38	0	100	14.6	8.4	1.07	58	0	100	24	15	1.08	52	0	100	16.6	6.8	1.51
Potassium	1.0	mg/l	46	0	100	4.3	4.3	0.39	58	0	100	4.6	4.4	0.38	54	0	100	4.3	4.1	0.51
Sodium	1.0	mg/l	47	0	100	36	24	0.95	58	0	100	53	41	0.86	54	0	100	44	29	1.01
Bicarbonate	2.0	mg/l	40	0	100	76	62	0.70	58	0	100	105	101	0.55	53	0	100	98	71	0.73
Carbonate	2.0	mg/l	40	40	0	S.I.D.	S.I.D.	S.I.D.	58	56	3	S.I.D.	S.I.D.	S.I.D.	53	53	0	S.I.D.	S.I.D.	S.I.D.
Chloride	2.0	mg/l	41	0	100	35	26	0.86	58	1	98	57	48	0.82	54	0	100	42	28	0.96
Fluoride	0.1	mg/l	41	14	66	0.1	0.1	0.74	58	6	90	0.3	0.3	0.58	54	10	81	0.2	0.2	0.68
Nitrate	0.1	mg/l	41	0	100	5.0	4.4	0.65	58	2	97	8	6	0.97	54	1	98	7.2	5.5	0.84
Sulfate	0.1	mg/l	41	0	100	91	42	1.19	58	1	98	125	76	1.20	54	0	100	115	47	1.43
Alkalinity	4.0	mg/l	40	0	100	76	62	0.70	58	0	100	105	101	0.55	53	0	100	82	60	0.75
Hardness	2.0	mg/l	38	0	100	151	120	0.85	58	0	100	234	177	0.86	52	0	100	172	98	1.15
COD	5	mg/l	47	0	100	119	88	0.88	58	2	97	61	51	0.65	54	5	91	50	39	0.79
pH	0-14		40	0	100	7.3	7.4	0.06	58	0	100	7.7	7.7	0.06	53	0	100	7.3	7.2	0.06
Specific Conductance	1.0	umhos/cm	38	0	100	463	360	0.83	57	0	100	757	577	0.84	53	0	100	571	321	1.03
Total Dissolved Solids	2.0	mg/l	38	0	100	291	224	0.84	57	0	100	479	360	0.83	53	0	100	346	206	1.04
Turbidity	0.1	NTU	40	0	100	212	102	1.29	57	0	100	78	54	1.03	53	0	100	98	66	1.06
Total Suspended Solids	2.0	mg/l	39	0	100	467	284	1.05	58	0	100	148	88	1.13	53	0	100	232	140	1.04
Volatile Suspended Solids	1.0	mg/l/hr	39	0	100	81	53	0.92	58	1	98	36	23	1.05	53	0	100	46	32	0.94
MBAS	0.05	mg/l	46	46	0	S.I.D.	S.I.D.	S.I.D.	56	22	61	0.11	0.07	1.31	51	18	65	0.08	0.07	1.08
Total Organic Carbon	1.0	mg/l	45	0	100	11	10	0.69	52	0	100	10	7	0.82	54	0	100	9	8	0.70
BOD	2.0	mg/l	37	0	100	25	25	0.52	52	3	94	33	19	1.53	54	3	94	13	7	1.48
Nutrients																				
Dissolved Phosphorus	0.05	mg/l	44	0	100	0.5	0.5	0.60	55	2	96	0.3	0.3	0.63	51	3	94	0.3	0.3	0.58
Total Phosphorus	0.05	mg/l	44	0	100	0.6	0.5	0.69	55	1	98	0.4	0.3	0.63	51	0	100	0.4	0.3	0.59
NH3-N	0.1	mg/l	47	0	100	0.9	0.6	0.95	56	24	57	0.6	0.2	1.90	52	33	37	0.4	0.1	2.17
Nitrate-N	0.1	mg/l	38	1	97	1.2	1.0	0.66	58	3	95	1.7	1.4	0.97	54	1	98	1.6	1.2	0.85
Nitrite-N	0.1	mg/l	42	6	86	0.16	0.08	1.14	58	15	74	0.26	0.12	1.16	54	11	80	0.19	0.10	1.61
TKN	0.1	mg/l	46	0	100	3.5	2.8	0.78	58	1	98	3.6	3.0	0.67	53	0	100	2.2	1.4	0.96
Metals																				
Dissolved Aluminum	100	μg/l	47	7	85	1813	958	1.12	58	47	19	S.I.D.	S.I.D.	S.I.D.	54	29	46	159	50	1.30
Total Aluminum	100	μg/l	47	0	100	6086	2970	1.72	58	3	95	506	199	2.11	54	5	91	336	246	0.80
Dissolved Antimony	5	μg/l	47	45	4	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Antimony	5	μg/l	47	45	4	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	53	2	S.I.D.	S.I.D.	S.I.D.
Dissolved Arsenic	5	μg/l	47	46	2	S.I.D.	S.I.D.	S.I.D.	58	57	2	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Arsenic	5	μg/l	47	37	21	4.3	3	1.14	58	56	3	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Barium	10	μg/l	47	8	83	54	48	0.70	58	3	95	44	40	0.48	54	3	94	41	34	0.70
Total Barium	10	μg/l	47	8	83	124	83	1.27	58	3	95	56	51	0.64	54	1	98	51	42	0.72
Dissolved Beryllium	1	μg/l	44	44	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Beryllium	1	μg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Boron	100	μg/l	47	3	94	214	209	0.43	58	4	93	263	247	0.50	54	20	63	146	117	0.81
Total Boron	100	μg/l	47	1	98	301	276	0.38	58	2	97	325	309	0.46	54	14	74	186	147	0.77
Dissolved Cadmium	1	μg/l	47	32	32	1.4	1	1.46	58	56	3	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Cadmium	1	μg/l	47	26	45	1.9	1	1.43	58	51	12	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Chromium	5	μg/l	47	36	23	5.6	3	1.26	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	52	4	S.I.D.	S.I.D.	S.I.D.
Total Chromium	5	μg/l	47	14	70	19.4	10.8	1.38	58	49	16	S.I.D.	S.I.D.	S.I.D.	54	50	7	S.I.D.	S.I.D.	S.I.D.
Dissolved Chromium +6	10	μg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Chromium +6	10	μg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.

Table 4-4. Summary of 1994-2000 Mass Emissions Results by Year

Class Constituent	DL	Units	1997-98						1998-99						1999-2000					
			No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV	No. of Samples	No. of Non-detects	Percent Detects	Mean	Median	CV
Dissolved Copper	5	µg/l	47	8	83	30.7	15.0	1.59	58	28	52	5.7	5.3	0.67	54	31	43	5.5	2.5	0.93
Total Copper	5	µg/l	47	0	100	49.1	28	1.54	58	1	98	13.3	10	0.75	54	3	94	10.9	9	0.64
Dissolved Iron	100	µg/l	47	7	85	2553	870	1.40	58	38	34	156	50	2.39	54	25	54	207	130	1.25
Total Iron	100	µg/l	47	0	100	14577	8900	1.31	58	9	84	658	248	2.21	54	7	87	529	340	0.98
Dissolved Lead	5	µg/l	47	25	47	37	2.5	2.35	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	52	4	S.I.D.	S.I.D.	S.I.D.
Total Lead	5	µg/l	47	14	70	74	15.9	2.69	58	50	14	S.I.D.	S.I.D.	S.I.D.	54	38	30	4	2.5	0.90
Dissolved Manganese	100	µg/l	47	24	49	157	50	1.03	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Manganese	100	µg/l	47	5	89	291	186	1.00	58	44	24	90	50	1.00	54	50	7	S.I.D.	S.I.D.	S.I.D.
Dissolved Mercury	1	µg/l	45	45	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Mercury	1	µg/l	45	44	2	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Nickel	5	µg/l	47	21	55	10.2	6.0	1.31	58	53	9	S.I.D.	S.I.D.	S.I.D.	54	46	15	S.I.D.	S.I.D.	S.I.D.
Nickel	5	µg/l	47	14	70	18.0	9.7	1.47	58	34	41	5.4	2.5	0.84	54	32	41	5.9	2.5	1.24
Dissolved Selenium	5	µg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Selenium	5	µg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	50	14	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Silver	1	µg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	57	2	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Silver	1	µg/l	47	43	9	S.I.D.	S.I.D.	S.I.D.	58	56	3	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Thallium	5	µg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Total Thallium	5	µg/l	47	47	0	S.I.D.	S.I.D.	S.I.D.	58	58	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Dissolved Zinc	50	µg/l	47	23	51	194	50	1.70	58	43	26	37	25	0.61	54	53	2	S.I.D.	S.I.D.	S.I.D.
Total Zinc	50	µg/l	47	2	96	313	211	1.27	58	23	60	70	54	1.00	54	38	30	42	25	1.03
SVOCs																				
Bis(2-ethylhexyl)phthalate	1	µg/l	43	4	91	19	13.8	0.93	22	5	77	17	13.3	1.01	10	5	50	19	0.9	1.45
PAHs																				
Acenaphthene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	19	19	0	S.I.D.	S.I.D.	S.I.D.	10	9	10	S.I.D.	S.I.D.	S.I.D.
Acenaphthylene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	19	19	0	S.I.D.	S.I.D.	S.I.D.	10	9	10	S.I.D.	S.I.D.	S.I.D.
Antracene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Benzo(a)anthracene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Benzo(a)pyrene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Benzo(b)fluoranthene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	9	10	S.I.D.	S.I.D.	S.I.D.
Benzo(k)fluoranthene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Chrysene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	9	10	S.I.D.	S.I.D.	S.I.D.
Dibenz(a,h)anthracene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Fluoranthene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	7	30	0.050	0.050	0.49
Fluorene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Indeno (1,2,3-cd)pyrene	0.1	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Naphthalene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	9	10	S.I.D.	S.I.D.	S.I.D.
Phenanthrene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	8	20	0.025	0.025	0.93
Pyrene	0.05	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	6	40	0.025	0.025	1.64
All other SVOCs	0.05-5.0	µg/l	43	43	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Pesticides																				
Organochlorine Pesticides & PCBs	0.05-1.0	µg/l	42	42	0	S.I.D.	S.I.D.	S.I.D.	21	21	0	S.I.D.	S.I.D.	S.I.D.	10	10	0	S.I.D.	S.I.D.	S.I.D.
Carbofuran	5	µg/l	46	46	0	S.I.D.	S.I.D.	S.I.D.	56	56	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Glyphosate	25	µg/l	46	46	0	S.I.D.	S.I.D.	S.I.D.	57	54	5	S.I.D.	S.I.D.	S.I.D.	54	53	2	S.I.D.	S.I.D.	S.I.D.
Organophosphate Pesticides																				
Diazinon	0.01	µg/l	42	41	2	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	54	44	19	S.I.D.	S.I.D.	S.I.D.
Chlorpyrifos	0.05	µg/l	42	42	0	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
N- and P-Containing Pesticides																				
Thiobencarb	1	µg/l	42	42	0	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
All other N- and P- Pesticides	1.0-2.0	µg/l	42	42	0	S.I.D.	S.I.D.	S.I.D.	22	22	0	S.I.D.	S.I.D.	S.I.D.	54	54	0	S.I.D.	S.I.D.	S.I.D.
Phenoxyacetic Acid Herbicides																				
2,4-D	10	µg/l	44	44	0	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	8	8	0	S.I.D.	S.I.D.	S.I.D.
2,4,5-TP	1	µg/l	44	44	0	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	8	8	0	S.I.D.	S.I.D.	S.I.D.
Bentazon	2	µg/l	44	44	0	S.I.D.	S.I.D.	S.I.D.	7	7	0	S.I.D.	S.I.D.	S.I.D.	8	8	0	S.I.D.	S.I.D.	S.I.D.

CV = Coefficient of variation
DL = Detection Limit
S.I.D. = Statistically Invalid Data, not enough data above detection limit collected