

**Appendix E.** Results of caffeine analysis for water samples collected at three Lake Erie beaches and one inland lake during distribution and source studies in 2000 and routine studies in 2001

[col/100ml, colonies per 100 milliliters of sample; ft, feet; µg/L, micrograms per liter of sample; <, less than.]

Beach	Type of sample	Location	Depth or inland (ft)	Date	<i>Escherichia coli</i> (col/100 mL)	Caffeine (µg/L)
<u>Distribution and source studies, 2000</u>						
Edgewater	Bathing	Area 2	3	06/19/00	470	0.163
Edgewater	Bathing	Area 4	10	06/20/00	120	<0.008
Edgewater	Bathing	Area 2	3	06/21/00	160	<0.008
Edgewater	Bathing	Area 2	3	06/22/00	120	<0.008
Edgewater	Offshore	Area 3	9	06/22/00	20	<0.008
Edgewater	Bathing	Area 2	5	07/26/00	36	<0.008
Edgewater	Bathing	Area 3	4	08/08/00	130	<0.008
Edgewater	Offshore	Area 2	9.5	08/28/00	2	0.038
Huntington	Bathing	Area 2	5	06/19/00	500	0.143
Huntington	Offshore	Area 2	8	06/20/00	340	0.104
Huntington	Bathing	Area 4	5	06/20/00	200	0.171
Huntington	Bathing	Area 1	5	06/21/00	350	<0.008
Huntington	Bathing	Area 3	3	07/26/00	49	<0.008
Huntington	Bathing	Area 2	3	08/07/00	200	<0.008
Huntington	Bathing	Area 3	4	08/08/00	50	0.052
Huntington	Bathing	Area 3	4	08/28/00	67	<0.008
Mosquito	Bathing	Area 1	3	06/05/00	62	<0.008
Mosquito	Nearshore	Lower campground	2	06/05/00	13	<0.008
Mosquito	Nearshore	North Lakeshore	2	06/05/00	330	0.254
Mosquito	Nearshore	South Lakeshore	2	06/05/00	540	0.303
Mosquito	Bathing	Area 2	6	06/06/00	130	<0.008
Mosquito	Offshore	Area 2	8	06/06/00	200	<0.008
Mosquito	Offshore	North Lakeshore	8	06/06/00	4	<0.008
Mosquito	Offshore	South Lakeshore	10	06/06/00	1	<0.008
Mosquito	Bathing	Area 1	5	06/07/00	41	<0.008
Mosquito	Nearshore	Lower campground	2	06/07/00	48	<0.008
Mosquito	Nearshore	North Lakeshore	2	06/07/00	1000	<0.008
Mosquito	Nearshore	South Lakeshore	2	06/07/00	84	<0.008
Mosquito	Bathing	Area 1	3	06/08/00	39	<0.008
Mosquito	Offshore	Area 2	5	06/08/00	360	<0.008
Mosquito	Offshore	North Lakeshore	7	06/08/00	4	<0.008
Mosquito	Offshore	South Lakeshore	5	06/08/00	22	<0.008
Mosquito	Bathing	Area 1	3	07/31/00	210	<0.008
Mosquito	Nearshore	Lower campground	4	07/31/00	2	<0.008
Mosquito	Nearshore	North Lakeshore	2	07/31/00	270	<0.008
Mosquito	Nearshore	South Lakeshore	3	07/31/00	14	<0.008
Mosquito	Bathing	Area 3	4	08/01/00	320	0.241

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Beach	Type of sample	Location	Depth or inland (ft)	Date	<i>Escherichia coli</i> (col/100 mL)	Caffeine (µg/L)
Mosquito	Offshore	Area 3	9.5	08/01/00	26	<0.008
Mosquito	Offshore	Lower campground	8.5	08/01/00	9	<0.008
Mosquito	Bathing	Area 1	4	08/02/00	140	<0.008
Mosquito	Nearshore	Lower campground	4	08/02/00	5	<0.008
Mosquito	Nearshore	North Lakeshore	2	08/02/00	69	0.305
Mosquito	Nearshore	South Lakeshore	3	08/02/00	8	<0.008
Mosquito	Bathing	Area 1	3	08/30/00	230	<0.008
Mosquito	Bathing	Area 3	3	08/30/00	240	<0.008
Mosquito	Nearshore	North Lakeshore	2	08/30/00	440	0.652
Mosquito	Nearshore	South Lakeshore	2	08/30/00	100	<0.008
Villa Angela	Bathing	Area 1	4	06/19/00	57	0.181
Villa Angela	Bathing	Area 3	5	06/19/00	80	<0.008
Villa Angela	Bathing	Area 2	4	06/21/00	1100	<0.008
Villa Angela	Bathing	Area 4	4	06/21/00	100	<0.008
Villa Angela	Offshore	Area 3	10	06/22/00	200	<0.008
Villa Angela	Bathing	Area 2	4	08/07/00	1900	0.061
Villa Angela	Bathing	Area 2	4	08/08/00	220	<0.008
Villa Angela	Bathing	Area 2	4	08/28/00	11	<0.008
Villa Angela	Offshore	Area 2	9.5	08/28/00	1	0.167
<u>Routine studies, 2001</u>						
Edgewater	Bathing	Area 2	3	05/30/01	51	0.200
Edgewater	Bathing	Area 2	3	05/31/01	76	0.087
Edgewater	Bathing	Area 2	3	06/04/01	31	0.128
Edgewater	Bathing	Area 2	3	06/05/01	180	0.150
Edgewater	Bathing	Area 2	3	06/06/01	180	0.214
Edgewater	Bathing	Area 2	3	06/11/01	48	0.828
Edgewater	Bathing	Area 2	3	06/12/01	58	0.734
Edgewater	Bathing	Area 2	3	06/13/01	35	0.661
Edgewater	Bathing	Area 2	3	06/18/01	74	0.254
Edgewater	Bathing	Area 2	3	06/19/01	22	0.350
Edgewater	Bathing	Area 2	3	06/20/01	420	0.301
Edgewater	Bathing	Area 2	3	07/16/01	28	0.267
Edgewater	Bathing	Area 2	3	07/17/01	10	0.152
Edgewater	Bathing	Area 2	3	07/18/01	70	0.167
Edgewater	Bathing	Area 2	3	07/23/01	580	0.238
Edgewater	Bathing	Area 2	3	07/24/01	57	0.312
Edgewater	Bathing	Area 2	3	07/25/01	490	0.196
Edgewater	Bathing	Area 2	3	07/30/01	1200	0.107

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Beach	Type of sample	Location	Depth or inland (ft)	Date	<i>Escherichia coli</i> (col/100 mL)	Caffeine (µg/L)
Edgewater	Bathing	Area 2	3	07/31/01	230	0.069
Edgewater	Bathing	Area 2	3	08/01/01	97	0.237
Edgewater	Bathing	Area 2	3	08/06/01	54	0.146
Edgewater	Bathing	Area 2	3	08/07/01	310	0.128
Edgewater	Bathing	Area 2	3	08/08/01	310	0.247
Edgewater	Bathing	Area 2	3	08/13/01	360	0.106
Edgewater	Bathing	Area 2	3	08/14/01	64	0.164
Edgewater	Bathing	Area 2	3	08/15/01	33	0.258
Edgewater	Bathing	Area 2	3	08/20/01	72	0.133
Edgewater	Bathing	Area 2	3	08/21/01	230	0.106
Edgewater	Bathing	Area 2	3	08/22/01	85	0.311
Edgewater	Bathing	Area 2	3	08/27/01	80	0.106
Edgewater	Bathing	Area 2	3	08/29/01	36	0.079
Huntington	Bathing	Area 2	3	05/30/01	7	0.152
Huntington	Bathing	Area 2	3	05/31/01	3	0.148
Huntington	Bathing	Area 2	3	06/04/01	27	0.582
Huntington	Bathing	Area 2	3	06/05/01	8	0.937
Huntington	Bathing	Area 2	3	06/06/01	17	0.108
Huntington	Bathing	Area 2	3	06/11/01	15	0.923
Huntington	Bathing	Area 2	3	06/12/01	13	0.574
Huntington	Bathing	Area 2	3	06/13/01	4	0.637
Huntington	Bathing	Area 2	3	06/18/01	19	0.349
Huntington	Bathing	Area 2	3	06/19/01	44	0.338
Huntington	Bathing	Area 2	3	06/20/01	320	0.317
Huntington	Bathing	Area 2	3	07/16/01	15	0.800
Huntington	Bathing	Area 2	3	07/17/01	14	0.140
Huntington	Bathing	Area 2	3	07/18/01	880	0.344
Huntington	Bathing	Area 2	3	07/23/01	31	<0.008
Huntington	Bathing	Area 2	3	07/24/01	520	0.317
Huntington	Bathing	Area 2	3	07/25/01	1200	0.567
Huntington	Bathing	Area 2	3	07/31/01	42	0.167
Huntington	Bathing	Area 2	3	08/01/01	39	0.103
Huntington	Bathing	Area 2	3	08/02/01	21	0.136
Huntington	Bathing	Area 2	3	08/06/01	99	0.361
Huntington	Bathing	Area 2	3	08/07/01	160	0.185
Huntington	Bathing	Area 2	3	08/08/01	150	0.274
Huntington	Bathing	Area 2	3	08/13/01	710	0.176
Huntington	Bathing	Area 2	3	08/14/01	170	0.188

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Beach	Type of sample	Location	Depth or inland (ft)	Date	<i>Escherichia coli</i> (col/100 mL)	Caffeine (µg/L)
Huntington	Bathing	Area 2	3	08/15/01	4	0.610
Huntington	Bathing	Area 2	3	08/21/01	56	0.087
Huntington	Bathing	Area 2	3	08/22/01	16	0.494
Huntington	Bathing	Area 2	3	08/29/01	200	0.063
Huntington	Bathing	Area 2	3	08/30/01	36	0.127
Villa Angela	Bathing	Area 3	3	06/18/01	170	0.308
Villa Angela	Bathing	Area 3	3	06/19/01	190	0.294
Villa Angela	Bathing	Area 3	3	06/20/01	700	0.319
Villa Angela	Bathing	Area 3	3	07/16/01	145	0.198
Villa Angela	Bathing	Area 3	3	07/17/01	370	0.234
Villa Angela	Bathing	Area 3	3	07/18/01	580	0.208
Villa Angela	Bathing	Area 3	3	07/23/01	119	0.182
Villa Angela	Bathing	Area 3	3	07/24/01	2300	0.160
Villa Angela	Bathing	Area 3	3	07/25/01	770	0.068
Villa Angela	Bathing	Area 3	3	07/30/01	400	0.085
Villa Angela	Bathing	Area 3	3	07/31/01	1000	0.078
Villa Angela	Bathing	Area 3	3	08/01/01	115	0.094
Villa Angela	Bathing	Area 3	3	08/06/01	21	0.122
Villa Angela	Bathing	Area 3	3	08/07/01	1100	0.108
Villa Angela	Bathing	Area 3	3	08/08/01	155	0.102
Villa Angela	Bathing	Area 3	3	08/13/01	63	0.095
Villa Angela	Bathing	Area 3	3	08/14/01	94	0.169
Villa Angela	Bathing	Area 3	3	08/15/01	17	0.042
Villa Angela	Bathing	Area 3	3	08/20/01	37	0.143
Villa Angela	Bathing	Area 3	3	08/21/01	160	0.126
Villa Angela	Bathing	Area 3	3	08/22/01	12	0.150
Villa Angela	Bathing	Area 3	3	08/27/01	540	0.153
Villa Angela	Bathing	Area 3	3	08/29/01	53	0.081