

B. APPENDIX: BIOLOGICAL MONITORING DATA

LAKE SIMCOE SUBWATERSHEDS

West Holland

Table A - 1: Fish Sampling Data in the West Holland Subwatershed							
Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
400T01/04	8/21/2004	src	85	1	1	23	fair
KC01/04	9/18/2004	src	101	3	5	35	good
KC02/04	9/18/2004	src	52	3	5	37	good
RSD2	8/23/2003	irc	452	3	0	30	good
RSD3	9/20/2003	src	242	3	0	32	good
WH01	7/17/2003	irc	205	3	0	30	good
WH02	7/17/2003	srw	37	1	0	18	poor
WH03	7/17/2003	irc	8	1	0	22	fair
WH04	7/17/2003	src	220	3	0	30	good
	5/17/2004	src	18	3	1	23	fair
WH05	7/18/2003	srw	118	1	0	27	fair
WH06	7/18/2003	irw	158	1	0	29	good
	8/23/2004	irw	62	1	0	32	good
WH07	7/21/2003	src	50	1	0	24	fair
WH08	7/21/2003	irw	68	3	0	34	good
WH09	7/21/2003	irc	130	1	0	26	fair
WH10	7/21/2003	irw	451	1	0	29	good
WH11	7/22/2003	irw	100	3	0	34	good
WH12	7/22/2003	irc	218	1	0	26	fair
	8/25/2004	irc	109	3	1	25	fair
WH13	7/22/2003	src	0	-	-	No fish	No fish

Table A - 1: Fish Sampling Data in the West Holland Subwatershed							
Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
WH14	7/22/2003	src	95	3	0	26	fair
WH15	7/23/2003	srw	90	1	0	27	fair
WH16	7/23/2003	src	13	1	0	24	fair
WH17	7/22/2003	src	10	5	0	28	good
WH18	7/24/2003	src	55	1	0	24	fair
WH19	7/24/2003	src	108	5	0	28	good
WH20	7/24/2003	irc	273	3	0	28	good
WH21	7/25/2003	src	33	3	0	18	poor
WH22	7/25/2003	src	58	5	0	28	good
WH23	7/25/2003	src	62	5	0	28	good
WH24	7/25/2003	irc	64	5	0	22	fair
	8/23/2004	irc	28	5	1	31	good
WH25	7/28/2003	src	24	1	0	16	poor
WH26	7/28/2003	src	48	3	0	30	good
WH27	7/28/2003	src	39	5	0	26	fair
WH28	7/28/2003	src	45	3	0	24	fair
WH29	7/29/2003	src	12	1	0	14	poor
WH30	7/29/2003	src	53	1	0	16	poor
WH31	7/29/2003	src	1	1	0	16	poor
WH32	7/29/2003	src	70	3	0	30	good
WH32	8/25/2004	src	117	3	5	33	good
WH33	7/30/2003	src	54	3	0	30	good
WH34	7/30/2003	irc	143	1	0	24	fair
WH35	7/30/2003	irc	112	3	0	32	good
	8/25/2004	irc	85	3	5	35	good
WH36	7/30/2003	srw	17	1	0	29	good
WH37	7/31/2003	irw	15	3	0	27	fair
WH38	7/31/2003	srw	3	1	0	25	fair
WH85	9/8/2004	irc	127	3	1	29	good

Table A - 2: Benthic Macroinvertebrate Inventory Metrics for West Holland Subwatershed													
Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
WH-02	11/4/03	127	7.00	2.00	3.67	0.42	52.79	0.92	0.92	35.22	42.82	7.19	fairly poor
	11/13/02	58	11.67	3.00	8.33	0.22	37.28	13.15	12.84	37.28	52.34	6.02	fair
WH-04	5/27/04	105	10.33	3.33	7.67	0.26	37.92	50.13	49.50	21.80	25.88	5.16	good
	10/31/03	100	11.00	2.67	7.00	0.25	38.63	30.71	32.41	35.96	42.14	5.35	good
	11/13/02	131	12.00	3.33	9.00	0.17	27.06	32.75	33.53	11.04	17.11	4.59	good
WH-06	10/18/04	171	12.00	1.67	5.67	0.38	54.73	2.26	0.95	6.60	7.08	6.51	fairly poor
WH-12	10/17/03	156	10.33	2.33	5.33	0.28	43.62	10.66	10.25	13.73	16.27	6.72	fairly poor
	10/29/02	114	10.00	1.67	4.00	0.21	30.25	5.28	2.42	15.47	16.04	6.61	fairly poor
	10/12/04	130	9.00	1.33	5.00	0.20	30.14	6.51	5.32	20.64	20.94	6.46	fair
WH-15	11/5/03	132	8.33	3.00	6.33	0.42	58.99	49.00	47.68	32.70	35.84	5.26	good
	11/12/02	119	9.67	3.33	7.67	0.29	41.70	37.73	37.42	23.39	27.96	5.03	good
WH-18	11/18/02	112	11.00	3.67	7.67	0.28	43.71	10.41	19.84	43.71	55.71	5.51	fair
WH-19	11/26/02	123	11.00	3.00	7.33	0.53	71.40	11.40	11.10	71.40	74.68	6.61	fairly poor
WH-20	11/18/02	131	9.67	2.33	7.00	0.34	45.08	33.42	33.49	41.61	44.90	5.92	fair
	11/5/03	170	7.33	1.33	5.33	0.37	52.24	48.46	48.94	27.62	27.86	5.33	good
WH-21	6/1/04	106	12.67	4.33	9.33	0.23	35.72	38.03	39.24	20.40	29.33	5.53	fair
	6/10/03	108	11.67	4.00	8.67	0.22	33.64	23.59	25.91	16.71	20.66	5.64	fair
	9/27/04	100	12.67	4.00	9.33	0.23	40.79	40.58	43.56	23.44	33.36	5.06	good
	10/15/03	97	13.33	3.33	9.00	0.21	36.88	50.92	57.14	7.42	12.11	4.57	good
	11/20/02	98	11.00	2.67	8.33	0.20	30.79	48.54	50.44	5.77	15.27	4.53	good
WH-22	11/18/02	114	10.33	3.33	7.33	0.26	41.63	14.41	30.90	10.20	16.11	4.65	good
WH-24	10/1/02	93	9.67	2.33	7.33	0.34	50.94	38.37	47.42	29.62	32.56	5.07	good
WH-25	11/26/02	113	8.00	2.33	5.00	0.46	63.98	9.25	10.12	63.98	73.99	6.14	fair
WH-27	11/22/02	112	13.00	3.33	7.67	0.21	37.83	19.32	22.32	34.44	54.78	5.26	good
WH-34	11/12/02	114	13.33	3.33	9.00	0.17	29.32	23.93	24.87	26.08	34.30	5.53	fair

Table A - 2: Benthic Macroinvertebrate Inventory Metrics for West Holland Subwatershed													
Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
WH-35	10/24/02	109	9.67	3.33	6.67	0.29	44.92	30.25	30.83	38.61	45.75	5.89	fair
	10/1/03	136	12.00	2.33	8.67	0.31	50.44	48.40	49.43	19.73	21.68	4.99	good
WH-39	10/13/03	135	13.33	3.00	9.00	0.25	37.65	37.83	36.49	7.89	10.24	5.23	good

Innisfil Creeks

Table A - 3: Fish Inventory in Innisfil Creeks							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	Revised Score	Stream Quality
INC101	9/15/03	Irc	65	1	0	26	Fair
INC109	9/17/03	Irc	54	1	0	30	Good
INC103	5/19/04	Src	108	5	1	27	Fair
INC104	5/20/04	Src	-	-	-	No fish	No fish
INC105	5/18/04	Srw	505	1	0	29	Good
INC110	9/10/04	Srw	69	1	0	23	Fair

Hewitts Creek

Table A - 4: Fish Inventory in Hewitts Creek Subwatershed							
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Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
HEW106	11/25/02	141	10.33	2.67	7.00	0.23	39.59	55.17	55.17	6.64	15.86	4.91	good

Lovers Creek

Table A - 5: Fish Inventory in Lovers Creek Subwatershed

Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
LOV101	Fall 2003	Irc	242	3	0	30	good
	Summer 2004	Irc	126	3	1	25	fair

Table A - 6: Benthic Inventory in Lovers Creek Subwatershed

Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
LOV101	10/29/03	137.33	10.33	2.67	7.67	0.33	49.73	52.00	53.77	17.23	25.06	4.65	Good
	10/28/02	117.00	10.67	3.33	8.00	0.32	46.05	55.34	57.08	26.29	35.07	5.22	Good
	10/6/04	205.67	10.67	2.67	8.00	0.47	66.26	75.00	77.45	6.02	11.06	4.22	very good
LOV102	6/1/04	121.67	8.67	2.33	4.33	0.26	39.46	15.68	15.68	24.31	34.73	6.72	fairly poor
	10/29/03	119.33	10.00	1.67	5.00	0.25	41.97	3.14	2.89	41.97	43.15	6.66	fairly poor
	6/24/03	112.00	11.00	2.00	5.67	0.30	47.54	1.15	1.15	47.54	49.03	6.39	fair

Oro South Creeks

Site Code	Date	Habitat Potential	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
BC01	6/23/04	src	3	5	33	good
BC02	6/23/04	src	1	1	19	poor
BC03	6/23/04	src	1	1	19	poor
BC04	6/23/04	src	1	1	19	poor

Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
BURLS-01	6/15/04	124	10.67	2.00	7.67	0.29	45.17	4.42	11.71	36.94	40.32	6.38	fair
BURLS-02	6/15/04	107	13.67	3.33	7.33	0.25	44.75	9.82	9.63	31.56	37.32	5.75	fair
BURLS-03	6/17/04	124	9.33	3.00	5.00	0.36	50.65	0.29	2.88	20.14	25.86	6.98	fairly poor
BURLS-04	6/21/04	102	10.67	3.67	7.67	0.37	54.12	4.22	0.65	54.12	59.67	6.28	fair

Hawkestone Creek

Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
HAW101	Fall 2003	Irc	47	1	0	24	fair

Table A - 9: Fish Inventory in the Hawkestone Creek Subwatershed							
Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
	Summer 2004	Irc	89	1	1	21	fair
HAW112	Summer 2004	Irc	192	1	1	27	fair
HAW115	Summer 2004	Irc	284	1	1	25	fair
HAW121	Summer 2004	Irc	177	1	5	31	good
HAW122	Summer 2004	Irc	187	1	5	21	fair
HAW123	Summer 2004	Irc	246	1	5	27	fair
HAW125	Summer 2004	Irc	126	3	1	31	good

Table A - 10: Benthic Inventory in Hawkestone Creek Subwatershed													
Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
HAW101	10/12/04	471	10.00	2.67	7.67	0.32	50.41	57.66	65.40	17.27	18.19	4.65	good
	11/3/03	124	10.33	2.00	7.33	0.22	31.45	42.57	58.13	5.07	5.88	4.03	very good
HAW102	7/2/03	115	11.33	2.67	9.00	0.28	44.50	13.54	17.41	29.30	31.12	4.88	good
HAW115	6/3/04	97	11.33	2.67	8.33	0.17	28.10	34.59	39.29	23.84	28.37	5.04	good
	9/30/04	118	9.33	1.33	7.33	0.21	32.75	44.53	59.63	14.41	14.63	4.36	very good
	11/3/03	156	10.33	2.33	8.67	0.21	32.56	51.54	71.99	11.23	12.40	4.14	very good
HAW122	10/31/02	123	8.33	1.00	7.00	0.24	34.69	54.06	67.92	9.60	9.60	4.27	very good

Oro North Creeks

Table A - 11: Fish Inventory for Oro North Creeks Subwatershed							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
BCOM10	9/29/03	src	94	1	0	20	poor

Ramara Creeks

Table A - 12: Fish Inventory for Ramara Creeks Subwatershed							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
RAM112	05/31/04	Srw	4	1	0	25	fair
RAM113	05/25/04	Srw	0	1	0	No fish	No fish
RAM127	09/18/03	Srw	27	5	0	25	fair
RAM138	05/31/04	Srw	39	1	0	25	fair
RAM139	09/18/03	Srw	0		0	No fish	No fish
RAM145	09/18/03	Srw	0	1	0	No fish	No fish
RAM147	05/31/04	Srw	0	1	0	No fish	No fish
RAM149	09/23/03	Srw	37	1	0	18	poor
RAM156	09/23/03	Irw	41	1	0	29	good
RAM197	09/23/03	Srw	183	1	0	23	fair
RAM199	09/23/03	Srw	140	1	0	23	fair

Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
RAM101	6/7/04	110.67	11.00	3.00	6.33	0.25	37.50	3.98	2.80	29.16	42.24	6.41	fair
	7/2/03	121.33	8.67	3.00	5.33	0.36	49.11	6.02	6.02	48.66	52.32	5.83	fair
	11/18/03	120.67	12.67	3.33	7.67	0.19	32.42	15.92	15.08	32.16	38.81	6.26	fair

Beaver River

Station ID	Date	Habitat Potential*	Drainage Area	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
BVRV01	Summer 2003	Lrw	326	135	1	0	23	fair
	Summer 2004	Lrc	326	106	3	0	27	fair
BVRV03	Summer 2004	Irc	10	136	3	5	31	good
BVRV05	Summer 2003	Srw	5	21	1	0	20	poor
	Summer 2004	Srw	5	27	1	0	20	poor
BVRV06	Summer 2004	Srw	4	5	1	0	20	poor
BVRV07	Summer 2003	Srw	8	75	3	0	29	good
BVRV08	Summer 2004	Srw	3	34	1	0	25	fair
BVRV09	Summer 2004	Srw	9	272	1	0	25	fair
BVRV10	Summer 2004	Srw	3	4	1	0	23	fair
BVRV11	Summer 2004	Srw	4	36	1	0	25	fair
BVRV12	Summer 2004	Irw	35	136	1	0	25	fair
BVRV13	Summer 2004	Srw	4	156	1	0	27	fair
BVRV14	Summer 2004	Src	5	74	3	1	25	fair
BVRV15	Summer 2004	Src	8	141	3	1	27	fair
BVRV16	Summer 2004	Src	8	176	3	1	25	fair
BVRV17	Summer 2004	Irc	141	136	3	1	27	fair
BVRV18	Summer 2004	Src	6	110	3	1	23	fair

Table A - 14: Fish Inventory in Beaver River Subwatershed								
Station ID	Date	Habitat Potential*	Drainage Area	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
BVRV19	Summer 2004	Irc	180	236	1	1	17	poor
BVRV20	Summer 2004	Irc	177	259	3	1	23	fair
BVRV21	Summer 2004	Irc	15	116	1	1	25	fair
BVRV22	Summer 2004	Src	7	120	3	1	25	fair
BVRV23	Summer 2004	Irc	182	63	3	1	25	fair
BVRV24	Summer 2004	Irc	65	228	3	1	27	fair
BVRV25	Summer 2004	Irc	66	206	3	1	27	fair
BVRV26	Summer 2004	Irc	186	104	3	1	25	fair
BVRV27	Summer 2004	Srw	3	49	1	0	25	fair
BVRV28	Summer 2004	Src	4	198	5	1	31	good
BVRV29	Summer 2004	Srw	2	120	1	0	25	fair
BVRV30	Summer 2004	Lrc	289	289	3	0	29	good
BVRV31	Summer 2004	irc	76	218	3	1	29	good
BVRV32	Summer 2004	Lrc	291	198	3	0	27	fair
BVRV33	Summer 2004	Srw	5	17	1	0	20	poor
BVRV34	Summer 2004	Lrc	303	470	3	0	20	poor
BVRV35	Summer 2004	irc	17	199	5	1	31	good
BVRV36	Summer 2004	Src	2	34	5	1	27	fair

* Srw: Small riverine warmwater, Src: Small riverine coldwater, Irw: Intermediate riverine warmwater, Irc: Intermediate riverine coldwater, Lrw: Large riverine waterwater, and Lrc: Large riverine coldwater

Table A - 15: Benthic Inventory in the Beaver River Subwatershed													
Site ID	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhof's Biotic Index	Condition
BVRV01	11/6/2002	113	11.67	1.67	7.67	0.29	42.95	76.08	74.55	4.53	5.15	4.66	good
	10/28/2003	112	9.33	1	5.67	0.27	43.03	30.17	35.71	27.41	27.41	5.76	fair
	10/18/2004	125	7.67	1.67	5.67	0.46	58.82	75.5	77.74	8.16	8.65	4.74	good
BVRV02	6/25/2003	118	12.67	2	5.33	0.2	32.27	15.45	16.85	18.79	20.22	5.79	fair
	10/28/2003	122	13.67	2.33	6.67	0.17	26.27	16.44	15.86	20.11	21.82	6.53	fairly poor

Table A - 15: Benthic Inventory in the Beaver River Subwatershed													
Site ID	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
	6/9/2004	120	12	2.67	6.33	0.27	44.87	5.82	7.34	2.83	6.21	6.28	fair
	9/23/2004	109	12.33	2	6.33	0.17	25.79	19.26	18.33	18.55	19.74	6.33	fair
BVRV03	6/19/2003	107	11.33	2.33	7.33	0.32	49.3	5.81	4.33	21.92	23.47	5.34	good
	11/10/2003	133	12.33	2	7.33	0.24	38.97	48.15	48.62	26.77	27.71	5.36	good
	6/6/2004	102	12	2.67	8.33	0.25	42.38	14.67	15.05	42.38	46.4	5.8	fair
	9/21/2004	103	12.67	2.33	7	0.21	38.37	33.7	30.11	30.21	32.5	5.96	fair
BVRV04	6/16/2003	130	12	3	7	0.37	50.27	8.8	8.55	29	30.62	5.25	good
	11/10/2003	158	11	2.67	6.33	0.32	45.69	32.36	31.75	7.74	38.33	5.5	fair
	6/8/2004	124	11.67	4.33	8	0.22	32.73	22.92	22.92	23.53	27.39	5.43	good
	9/21/2004	171	13	3.67	7.67	0.25	37.68	50.39	49.27	6.44	8.8	4.79	good

Pefferlaw/Uxbridge Brook Subwatershed

Table A - 16: Fish Inventory in the Pefferlaw/Uxbridge Brook Subwatershed							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
PF101	07/11/03	lrc	112	3	0	32	good
	07/30/04	lrc	305	3	0	34	good
PF102	07/05/04	irc	27	1	5	27	fair
PF103	07/13/04	src	44	1	1	23	fair
PF104	07/06/04	irc	67	1	5	29	good
PF105	07/08/04	irc	14	1	5	23	fair
PF106	07/07/04	irc	63	1	5	25	fair
PF107	07/09/04	src	26	3	5	29	good
PF108	07/09/04	srw	6	1	0	18	poor
PF109	07/14/04	src	36	3	5	31	good

Table A - 16: Fish Inventory in the Pefferlaw/Uxbridge Brook Subwatershed							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
PF110	07/14/04	irc	33	1	5	23	fair
PF111	07/16/04	irc	28	1	5	23	fair
PF112	07/20/04	srw	83	1	0	20	poor
PF113	07/22/04	srw	31	1	0	29	good
PF114	07/21/04	irc	98	3	5	33	good
PF115	07/22/04	src	40	3	5	31	good
PF116	07/27/04	srw	58	1	0	27	fair
PF117	07/27/04	irc	102	1	5	31	good
PF118	07/21/04	irc	26	1	5	27	fair
PF119	08/04/04	src	3	1	1	21	fair
PF120	07/29/04	irw	94	1	0	25	fair
PF121	08/13/04	src	3	1	1	23	fair
PF122	08/16/04	src	228	1	1	19	poor
PF123	08/20/04	irw	129	1	0	20	poor
PF124	08/04/04	srw	164	1	0	27	fair
PF125	08/17/04	src	82	1	1	23	fair
PF126	08/11/04	lrc	336	3	0	29	good
PF127	08/03/04	srw	76	1	0	25	fair
PF128	08/17/04	src	101	1	1	25	fair
PF129	08/19/04	src	186	3	1	29	good
PF130	08/17/04	src	0	-	-	No fish	No fish
PF131	08/31/04	srw	159	5	0	38	very good
PF132	08/26/04	irc	212	3	1	27	fair
PF133	08/26/04	lrc	239	3	0	34	good
PF134	08/30/04	irc	594	5	5	39	very good
PF135	06/24/04	irc	10	1	5	25	fair
PF136	09/15/04	irc	185	3	1	27	fair
PF137	09/14/04	src	80	1	1	21	fair
PF138	08/19/04	irc	195	3	1	27	fair

Table A - 16: Fish Inventory in the Pefferlaw/Uxbridge Brook Subwatershed							
Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
PF139	08/31/04	srw	212	3	0	34	good
PF140	08/31/04	srw	1	1	0	23	fair
PF141	08/31/04	srw	69	1	0	29	good
UX101	10/01/03	irc	171	1	0	20	poor
UX102	09/25/03	irc	49	1	0	20	poor
	07/20/04	irc	72	1	5	31	good
UX104	09/25/03	irc	73	1	0	28	good
	09/08/04	irc	156	1	1	29	good
UX103	06/23/04	irc	42	1	5	27	fair
UX105	06/21/04	src	0	-	-	No fish	No fish
UX106	08/18/04	irc	24	1	5	27	fair
UX107	06/28/04	src	31	3	5	31	good
UX108	07/08/04	src	51	3	5	31	good
UX109	07/09/04	irc	219	1	5	33	good
UX110	07/08/04	src	188	3	1	31	good
UX111	06/28/04	irc	157	1	1	23	fair
UX112	07/05/04	irc	165	1	1	29	good
UX113	07/05/04	irc	115	1	1	29	good
UX114	07/08/04	src	112	3	1	25	fair
UX116	07/20/04	irc	86	1	1	27	fair
UX117	07/22/04	src	73	3	1	25	fair
UX118	07/22/04	src	68	5	5	39	very good
UX119	07/26/04	src	14	1	1	25	fair
UX120	07/26/04	irc	64	3	1	29	good
UX121	07/26/04	irc	111	1	1	27	fair
UX122	08/04/04	irc	126	1	1	23	fair
UX123	08/05/04	irc	373	1	1	25	fair
UX124	08/04/04	irc	127	1	1	23	fair
UX125	08/10/04	irc	153	3	1	29	good

Table A - 16: Fish Inventory in the Pefferlaw/Uxbridge Brook Subwatershed

Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
UX126	08/12/04	irc	283	1	1	29	good
UX127	08/12/04	irc	103	1	1	23	fair
UX128	08/16/04	irc	427	1	1	23	fair

Table A - 17: Benthic Inventory in the Pefferlaw/Uxbridge Brook Subwatershed

Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
PF101	10/13/04	111	9.67	1.67	6.33	0.31	47.64	33.74	34.91	19.58	21.46	5.60	fair
	11/4/02	118	11.67	2.33	7.33	0.24	39.22	47.62	44.20	13.20	14.94	4.99	good
	10/23/03	168	12.33	3.67	8.67	0.49	68.30	71.81	79.94	9.89	12.11	4.23	very good
PF102	6/9/04	102	11.00	3.00	7.00	0.22	35.80	4.25	3.60	35.80	40.04	6.52	fairly poor
	9/28/04	102	10.33	2.67	5.33	0.38	52.63	1.64	1.64	37.60	39.87	7.24	fairly poor
	10/23/03	109	11.33	2.00	6.67	0.34	47.74	7.46	7.49	31.20	32.12	6.89	fairly poor
UX102	10/1/04	136	13.00	4.00	8.00	0.22	37.10	8.18	6.86	30.82	49.39	6.74	fairly poor
	10/20/03	130	11.00	2.00	6.00	0.29	43.86	13.89	12.02	14.17	16.00	6.59	fairly poor
	11/7/02	144	10.00	2.33	6.67	0.31	47.91	25.62	26.41	33.38	50.51	5.91	fair
UX103	10/1/04	90	11.33	3.00	7.67	0.23	32.52	17.79	16.67	26.31	29.62	6.76	fairly poor
	6/2/04	103	13.00	4.00	9.67	0.25	43.50	23.12	31.84	43.50	53.22	5.51	fair
	6/11/03	101	11.00	1.33	5.33	0.20	32.10	13.87	13.21	9.99	10.32	6.00	fair
	10/20/03	98	12.67	3.00	9.00	0.24	41.39	50.50	60.65	14.93	20.39	4.63	good

Black River Subwatershed

Table A - 18: Fish Inventory in the Black River Subwatershed								
Station	Date	Habitat Potential	Drainage Area	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
BR01	Summer 2003	src	4.26	85	3	0	26	Fair
BR02	Summer 2003	irc	10.14	32	1	0	24	Fair
BR03	Summer 2003	irc	11.57	23	3	0	20	Poor
BR04	Summer 2003	src	5.74	20	1	0	18	Poor
BR05	Summer 2003	src	0.0005	16	1	0	16	Poor
BR06	Summer 2003	src	7.28	48	1	0	22	Fair
BR07	Summer 2003	src	6.41	57	1	0	28	Good
BR08	Summer 2003	irw	86.59	152	3	0	34	Good
BR09	Summer 2003	irc	39.62	115	3	0	28	Good
BR10	Summer 2003	irc	49.79	133	3	0	26	Fair
BR11	Summer 2003	src	4.11	52	3	0	28	Good
BR12	Summer 2003	irw	18.74	112	1	0	27	Fair
BR13	Summer 2003	src	2.73	33	1	0	18	Poor
BR14	Summer 2003	irc	19.58	26	1	0	24	Fair
BR15	Summer 2003	src	6.42	13	1	0	22	Fair
BR16	Summer 2003	irw	19.47	180	3	0	29	Good
BR17	Summer 2003	irc	53.06	145	3	0	26	Fair
BR18	Summer 2003	irw	87.69	343	3	0	29	Good
BR19	Summer 2003	irc	122.16	318	3	0	28	Good
	Summer 2004	irc	122	225	3	1	25	Fair
BR21	Summer 2003	irc	280.29	19	1	0	20	Poor
BR22	Summer 2003	lrw	320.94	272	1	0	32	Good
	Summer 2004	lrc	321	153	1	0	29	Good

Table A - 19: Benthic Inventory in the Black River Subwatershed

Site ID	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
BR03	11/20/03	101	9.00	3.00	5.67	0.32	51.72	10.85	10.23	9.77	17.37	7.01	fairly poor
BR04	11/20/03	111	12.00	3.67	6.33	0.24	41.53	37.77	37.77	12.47	19.71	6.21	fair
BR16	11/17/03	139	8.67	2.33	6.33	0.36	53.92	62.58	62.91	17.67	18.90	4.73	good
BR22	10/14/04	137	11.67	3.33	7.00	0.23	32.31	5.70	5.39	21.46	34.17	6.18	fair
	11/17/03	157	8.67	2.00	4.67	0.27	42.82	10.40	10.40	39.72	46.97	6.41	fair
	11/4/02	115	11.33	3.00	5.33	0.22	34.13	15.85	12.92	9.03	33.42	6.37	fair
BR23	11/25/03	102	6.67	1.67	3.33	0.51	68.01	11.07	11.07	68.01	68.66	6.74	fairly poor
BR24	12/1/03	107	11.67	2.67	7.67	0.27	45.37	18.37	17.76	45.37	48.45	6.10	fair

Georgina Creeks

Table A - 20: Fish Inventory in Georgina Creeks

Site Code	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	Revised Score	Stream Quality
GC01	09/10/04	Irw	119	1	0	29	Good

Maskinonge Subwatershed

Table A - 21: Fish Inventory in the Maskinonge Subwatershed

Station	Date	Habitat Potential	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	Revised Score	Stream Quality
MR01	Summer 2003	Srw	110	3	0	34	good

Table A - 22: Benthic Inventory in the Maskinonge Subwatershed													
Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
MR01	11/1/02	118	10.00	2.00	5.67	0.35	46.89	1.78	42.30	41.01	41.87	4.45	very good
MR02	11/25/03	106	4.67	1.67	1.67	0.65	79.00	0.00	0.00	9.13	10.96	7.80	poor

East Holland Subwatershed

Table A - 23: Fish Inventory in the East Holland Subwatershed								
Station	Date	Habitat Potential	Drainage Area	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
EH01	Summer 2003 (1)	Irw	118.6	106	1	0	20	poor
	Summer 2003 (2)	Irw	118.6	106	1	0	25	fair
EH02	Summer 2003	Irw	154.69	80	1	0	18	poor
EH03	Summer 2003	Irc	37	49	1	0	22	fair
EH04	Summer 2003	Irc	38.48	37	1	0	20	poor
EH05	Summer 2003	Irc	19.56	22	1	0	16	poor
EH06	Summer 2003	Src	2	44	5	0	28	good
EH07	Summer 2003	Irw	21.47	293	1	0	25	fair
EH08	Summer 2003	Irw	176.51	23	1	0	18	poor
EH09	Summer 2003	Src	5.05	17	3	0	22	fair
EH10	Summer 2003	Src	6.62	49	3	0	24	fair
EH11	Summer 2003	Src	6.97	123	1	0	26	fair
EH12	Summer 2003	Src	7.18	74	1	0	22	fair
EH13	Summer 2003	Src	2.3	22	1	0	20	poor
EH14	Summer 2003	Src	1.88	20	1	0	22	fair
EH15	Summer 2003	Irc	28.88	22	1	0	18	poor
EH16	Summer 2003	Src	0.23	0	1	0	No fish	No fish
EH18	Summer 2003	Irc	13.63	52	1	0	28	good
EH19	Summer 2003	Src	3.15	4	1	0	20	poor
EH20	Summer 2003	Srw	3.78	3	1	0	14	poor
EH21	Summer 2003	Irc	38.4	94	1	0	20	poor
EH22	Summer 2003	Irw	51.7	72	1	0	29	good
EH23	Summer 2003	Srw	9.51	52	1	0	25	fair

Station	Date	Habitat Potential	Drainage Area	Captured Individuals	Darter-Sculpin Score	Brook Trout Score	IBI Score	Stream Quality
EH24	Summer 2003	Irw	12.7	66	1	0	29	good
EH25	Summer 2003	Srw	4.06	8	1	0	18	poor
EH26	Summer 2003	Srw	2.14	37	1	0	23	fair
EH27	Summer 2003	Srw	5.02	97	1	0	25	fair
EH28	Summer 2003	Srw	1.5	0	-	-	No fish	No fish
EH29	Summer 2003	Srw	4.17	3	1	0	18	poor
EH30	Summer 2003	Srw	2	0	-	0	No fish	No fish
EH31	Summer 2003	Srw	2	292	1	0	36	good
EH32	Summer 2003	Srw	8.98	19	1	0	23	fair
EH33	Summer 2003	Irw	39.07	50	1	0	29	good
EH34	Summer 2003	Irw	115.41	13	1	0	20	poor
EH35	Summer 2003	Srw	2	53	1	0	32	good
EH36	Summer 2003	Srw	3.13	10	1	0	23	fair
RSD1	Summer 2003	Srw	4.93	57	1	0	25	fair
EH03	Summer 2004	Irc	37	89	3	1	25	fair
EH45	Summer 2004	Srw	7	106	1	0	29	good

Station	Date	Total Abundance	Richness	Dipteran Richness	Insect Richness	Simpson's Index (lambda)	% Dominants	% EOT	% EPT	% Chironomids	% Dipterans	Hilsenhoff's Biotic Index	Condition
EH03	6/14/04	108	13.00	4.33	9.33	0.22	35.06	15.65	15.65	29.89	37.68	5.67	fair
	9/27/04	99	11.00	2.33	7.33	0.19	30.04	49.62	47.29	11.77	15.45	5.13	good
	11/7/03	116	14.00	3.33	9.33	0.18	31.20	46.50	52.80	17.00	23.40	4.98	good
EH06	11/13/03	109	14.00	4.33	9.67	0.20	34.86	22.22	35.54	34.86	41.72	5.20	good
EH10	11/14/03	147	9.00	1.67	7.00	0.32	49.61	32.40	81.70	8.31	9.29	3.04	excellent
EH21	11/14/03	109	8.00	1.33	3.33	0.35	49.04	4.65	4.65	9.18	9.70	6.74	Fairly poor
	10/24/02	121	11.00	1.67	4.33	0.22	34.48	13.70	13.07	6.73	7.31	6.38	fair
EH37	10/19/04	180	9.33	2.00	5.00	0.23	38.56	7.76	7.76	21.67	23.25	6.29	fair
	10/14/03	113	10.33	2.00	5.33	0.26	39.00	16.48	16.17	33.75	36.46	6.49	fair
	10/31/02	153	11.00	2.67	6.67	0.34	52.94	10.35	7.43	36.61	41.90	6.15	fair

BIOLOGICAL MONITORING DATA FOR THE NOTTAWASAGA SUBWATERSHEDS

Upper Nottawasaga Subwatershed

Table B - 1: Fish Inventory in the Upper Nottawasaga Subwatershed																
Watercourse	Municipality	Date	Coldwater Fish										Warmwater Fish			
			RB T-YO Y	RB T-OJ	RB T-Adult	BK T-YO Y	BK T-OJ	BK T-Adult	BN T-YO Y	BN T-OJ	BN T-Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass	
Nottawasaga R. Trib.		September 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.		August 2001	2	0	0	0	0	0	0	0	0	0	1	0	0	0
Nottawasaga R., South Br.		July 2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0	0		0	1
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	1	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Amaranth	July 2000	0	0	0	0	1	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Amaranth	September 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., North Br. Trib.	Amaranth	June 1999	0	0	0	2	0	0	0	0	0	0	0	0	0	0
Nottawasaga R., South Br.	Amaranth	September 2000	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Nottawasaga R.	Mono	Summer 1996	0	2	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R.	Mono	Summer 1996	0	2	0	0	0	0	0	0	2	2	0		0	0
Nottawasaga R.	Mono	Summer	0	2	0	0	2	2	0	0	0	0	0		0	0

Table B - 1: Fish Inventory in the Upper Nottawasaga Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RB T- YO Y	RB T- OJ	RB T- Adu lt	BK T- YO Y	BK T- OJ	BK T- Adu lt	BN T- YO Y	BN T- OJ	BN T- Adu lt	Sculpi n	Northe rn Pike	Smallmou th Bass	Largemou th Bass
		1996													
Nottawasaga R.	Mono		2	2	0	0	0	0	2	2	0	2			
Nottawasaga R. Trib.	Mono	August 2003	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Mono	Nov. 1998	0	0	0	0	2	2	0	0	0	0			
Nottawasaga R. Trib.	Mono	Oct. 1998	0	0	0	0	2	2	0	0	0	0			
Nottawasaga R. Trib.	Mono	Summer 1996	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Mono	Summer 1996	0	0	0	2	2	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Mono		0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., North Br. Trib.	Mono	July 2000	0	0	0	0	2	0	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono	Sep. 1997	0	0	0	0	0	2	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono	Sep. 1997	0	0	0	0	2	0	0	0	0	1		0	0
Nottawasaga R., South Br.	Mono	Sep. 1997	1	2	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono	Summer 1996	0	2	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono	Summer 1996	0	2	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono	Summer 1996	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R., South Br.	Mono		2	2	0	0	0	0	2	2	0	2			
Nottawasaga R., South Br. Trib.	Mono	August 1997	0	0	0	2	2	2	0	0	0	0		0	0
Nottawasaga R., South Br. Trib.	Mono	Sep. 1997	1	2	0	0	0	1	0	0	0	0		0	0
Nottawasaga R.	Mono/ Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. North Branch Trib.	Mono/ Amaranth	July 2000	0	0	0	0	0	0	0	0	0	0		0	0

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
57	HWIP - Buesser Property - Trib of Sheldon @ Airport Rd. (first trib south of Sheldon Rd.)	11/13/01	60	22	10	0	42	gravel/ some cobble	Grasses /shrubs	lawns/fields/pastures	3.2	8.84	-	-
63	HWIP - McCabe Property - Melgaard Drain - Upper Nottawasaga @ Cty Rd 124	10/23/00	438	28	7	0	0	Sand/Silt	Narrow grassed buffer,	Agriculture	3	7.63	Rural NPS, Habitat Degradation	Impaired
		5/16/01	203	38	8	20	41	sand/silt	grasses / cattle grazing land	grazing land (cattle)	3.14	9.44	Rural NPS, Habitat Degradation	-
		10/17/02	132	18	3	2	13	Sand/Silt	Narrow grassed buffer,	Agriculture	3.25	7.28	Rural NPS, Habitat Degradation	-
64	HWIP - McCabe Property - Mellgaard Drain - (back of McCabe property near tree line)	5/16/01	483	26	8	1	76	gravel/ some sand	north-west/re st is grazing cattle	grazing land (cattle)	3.83	23.63	Rural NPS, Habitat Degradation	-

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		5/13/02	282	26	9	2	56	Gravel, sand, silt	Forested	grazing/forested	3.67	18.26	nearby cattle grazing	-
109	Mono Center Creek - Nix Property - Directly u/s of Nottawasaga River	11/09/01	42.5	18	9	3	4	gravel	forest	forest	3.75	24.24	-	-
110	Mono Center Creek @ 3rd line/Cty Rd 8 (at the corner on both sides)	5/24/01	73	18	2	16	61	muck/silt	Grasses/ swamp/ roadway	roadway/forest/swamp	2.5	5.19	-	-
111	Mono Center Creek Tributary - 3rd line Mono (south of Cty Rd 8)	5/24/01	112	30	15	0	19	gravel/ little cobble	forest	forest	3.67	14.56	-	-
117	Nottawasaga River - Butler Burn @ Highway 10/24	6/05/00	188	49	11	2	47	Gravel	Scrubland/ Meadow	Scrubland/ Meadow	3.45	17.17	-	Unimpaired
118	Nottawasaga River (north branch) @	5/15/97	60	40	17	-	27	gravel,	forested	residential	3.67	19.13	-	Unimpaired

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Concession 3 Mono							cobble	d					d
119	Nottawasaga River (north branch) @ Highway 10/24	10/17/96	34	30	9	-	-	gravel	old field	agriculture	2.88	8.72	-	Impaired
120	Nottawasaga River (North Branch) @ Highway 10/24	5/16/97	293	59	22	4	8	gravel	old field	agriculture	3.14	11.96	-	Below potential
		11/06/97	932	59	22	4	8	gravel	old field	agriculture	3.14	10.56	-	Below potential
121	Nottawasaga River (south Branch) @ Highway 10/24	10/31/96	98	25	15	-	-	gravel	old field	agriculture	3.17	11.96	-	Below potential
		5/19/97	236	50	22	1	1.9	gravel	old field	agriculture	3.25	16.53	-	Unimpaired
		11/06/97	335	50	22	1	1.9	gravel	old field	agriculture	3.25	18.59	-	Unimpaired
122	Nottawasaga River (South Branch) @ Mono Concession 3	12/08/97	209	35	17	0	7.5	bedrock/ gravel and cobble sized rubble	forested	rural residential	3.77	27.39	-	Unimpaired

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
123	Nottawasaga River @ 5th Concession - Adjala	10/23/00	185	38	17	0	4	Gravel/Sand	Meadow	Agriculture	3.25	19.02	U/S enrichment/rural NPS, declining riparian area	Below potential
126	Nottawasaga River @ County Road 50	5/25/00	24	22	5	52	12	Gravel/Sand	Meadow	Agriculture	3.2	8.3	Enrichment/rural NPS, loss of riparian habitat	Below potential
129	Nottawasaga River @ Hockley (former Mono-Adjala Townline)	10/31/96	136	26	15	0		cobble	forested	rural residential	3.71	30.64	-	Unimpaired
		5/19/97	112	40	24	0	3.1	cobble, boulder	forested	rural residential	3.7	24.21	-	Unimpaired
		11/06/97	354	40	24	0	1.6	cobble, boulder	forested	rural residential	3.7	22.86	-	Unimpaired
130	Nottawasaga River @ Hockley Resort (south branch of upper Notty)	11/10/99	315	53	25	4	13	cobble/gravel	forested buffer	Golf Course/Forest	3.64	21.44	-	Unimpaired
		10/23/00	289	37	18	0	9	Cobble/Gravel	Forest	Golf Course/Forest	3.32	21.55	-	Unimpaired

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		11/09/01	276	29	13	0	8	cobble/gravel	forested buffer	Golf Course/Forest	3.4	21.72	-	-
132	Nottawasaga River @ Mono-Adjala Townline	5/15/97	79	34	18	1	12	cobble, boulder	forested	residential	3.75	26.86	-	Unimpaired
133	Nottawasaga River @ Simcoe Road 10	6/16/97	7	60	22		18	sand, gravel	narrow vegetated strip	agriculture	3.06	10.88	-	Below potential
		10/17/97	249	60	22		15	sand, gravel	narrow vegetated strip	agriculture	3.06	15.75	-	Below potential
		5/24/98	40	57	21		35	sand, gravel	narrow forested strip	agriculture	3.07	11.31	irrigation pipes traverse stream channel	Below potential
		10/29/98	169	57	21	11	35	sand, gravel	narrow forested strip	agriculture	3.07	12.57	irrigation pipes traverse stream channel	Below potential
		5/11/99	70	44	14	5	79	Gravel	scrubland	agriculture	3.29	8.9	Narrow riparian buffer,	Below potential

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
													water extractions	
		11/01/99	119	39	12	1	17	Gravel	scrubland	agriculture	3.1	10.8	Narrow riparian buffer, water extractions	Below potential
		5/16/00	23	22	8	2	37	Fine gravel, sand	Narrow forest buffer	agriculture	3.2	13.99	irrigation pipes traverse stream channel	Unimpaired
		10/16/00	90	33	11	0	79	Fine gravel, sand	scrubland	agriculture	3.14	13.95	Narrow riparian buffer, water extractions	Unimpaired
		5/22/01	55.5	23	11	0	42	Fine gravel, sand	scrubland	agriculture	3.17	14.02	Narrow riparian buffer, water extractions	-
		10/25/01	120	30	10	2	12	gravel, sand	Narrow forest buffer	agriculture	3.14	14.21	Narrow riparian buffer, water extractions	-

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		10/25/02	170	15	8	0	30	gravel, sand	Narrow forest buffer	agriculture	3	15.29	Narrow riparian buffer, water extractions	-
136	Nottawasaga River Tributary - Blount Creek (Allen Creek)	6/05/00	105	39	18	0	46	Gravel	Forest		4	28.61		Unimpaired
138	Nottawasaga River Tributary - Mono Centre Creek	6/05/00	722	42	12	0	40	Gravel	Forest	-	3.4	14.6	Upstream Ponds	Below potential
139	Nottawasaga River Tributary @ 2nd Line Adjala	6/05/00	144	46	14	2	46	Sand/gravel	Forest	-	3.81	24.04	-	Unimpaired
140	Nottawasaga River Tributary @ Cty Rd. 1 and 3rd Line - Adjala	11/09/01	153	28	13	0	0	gravel	meadow, some scattered trees	-	3.29	18.26	-	-
153	Sheldon Creek @ Airport Road	10/21/98	558	47	21	0	2	gravel, cobble, sand, macrophytes	forested	residential	3.81	30.03	-	Unimpaired

Table B - 2: BioMap Scores in the Upper Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
154	Sheldon Creek @ Concession 3 EHS Mono	10/21/98	366	43	24			gravel	forested	residential	4	30.42	-	Unimpaired
155	Sheldon Creek @ Highway 50	10/24/96	18	21	8			sand/ gravel	pasture	agricultural /rural residential	3.2	15.36	-	Impaired
		5/19/97	78	20	11	10	35	gravel	pasture, trailer park	agriculture	3.4	14.26	stripped riparian vegetation, grazed	Below potential

Boyne River

Table B - B-3: Fish Inventory for Boyne River Subwatershed

Pollutant Target Loads: Lake Simcoe and Nottawasaga River Basins

Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish				
			RB T-YO Y	RB T-OJ	RB T-Adult	BK T-YO Y	BK T-OJ	BK T-Adult	BN T-YO Y	BN T-OJ	BN T-Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass	
Boyne R.	Mulmur	July 1998	2	2	0	0	0	0	0	0	2	2	0		0	0
Boyne R.	Melancthon	May 1999	0	0	0	0	0	2	0	0	0	0	0			
Boyne R.	Shelburne	August 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R.	Melancthon	August 2000	0	0	0	0	0	1	0	0	0	0	0		0	0
Boyne R.	Mulmur	August 2000	0	0	2	0	0	0	0	0	0	0	0		0	0
Boyne R.	Melancthon	August 2000	0	0	2	0	0	2	0	0	1	0	0		0	0
Boyne R.	Melancthon	August 2000	0	0	0	0	0	2	0	0	1	1	0		0	0
Boyne R.	Melancthon	August 2000	0	0	0	0	0	2	0	0	0	0	0		0	0
Boyne R.	Melancthon	August 2000	0	0	0	0	0	2	0	0	0	0	0		0	0
Boyne R.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R.	Melancthon	June 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R.	Melancthon	July 2001	2	0	0	0	0	0	1	0	0	1	0	0	0	0
Boyne R.	Melancthon	July 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R.	Adjala/Tos. (Tos.)	December 2001	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R.	Adjala/Tos(Tos)	July 2002	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R.	Mulmur	Summer 1996	1	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R.	Mulmur	Summer 1996	2	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R.	Melancthon	Summer 1996	2	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R.	Adjala/Tos. (Tos.)		0	0	0	0	0	0	0	0	0	0	0		1	
Boyne R.	Adjala/Tos. (Tos.)		0	0	0	0	0	0	0	0	0	0	1			
Boyne R.	Adjala/Tos. (Tos.)		2	2	0	0	0	0	1	1	0	2				

Table B - B-3: Fish Inventory for Boyne River Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RB T- YO Y	RB T- OJ	RB T- Adu lt	BK T- YO Y	BK T- OJ	BK T- Adu lt	BN T- YO Y	BN T- OJ	BN T- Adu lt	Sculpi n	Northe rn Pike	Smallmou th Bass	Largemou th Bass
Boyne R.	Mulmur		2	2	0	0	0	0	2	2	0	2			
Boyne R. Trib.	Mono	April 1997	0	0	0	0	0	2	0	0	0	0			
Boyne R. Trib.	Mulmur	April 1997	0	2	0	0	0	2	0	0	0	0			
Boyne R. Trib.	Mulmur	May 1997	0	2	1	0	0	0	0	0	0	0			
Boyne R. Trib.	Mulmur	July 1998	0	0	0	1	2	0	0	0	0	0			
Boyne R. Trib.	Mulmur	April 1999	0	2	0	0	2	2	0	0	0	0			
Boyne R. Trib.	Mulmur	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	1		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	2	2	2	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Adjala/Tos. (Tos.)	December 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R. Trib.	Adjala/Tos. (Tos.)	December 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Boyne R. Trib.	Mulmur	Dec. 1998	0	0	0	0	0	1	0	0	0	0		0	0
Boyne R. Trib.	Mulmur	Sep. 1997	0	0	0	0	0	2	0	0	0	0			
Boyne R. Trib.	Melancthon	Summer 1996	1	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Melancthon	Summer 1996	0	0	0	0	0	0	0	0	0	0		0	0

Table B - B-3: Fish Inventory for Boyne River Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RB T- YO Y	RB T- OJ	RB T- Adu lt	BK T- YO Y	BK T- OJ	BK T- Adu lt	BN T- YO Y	BN T- OJ	BN T- Adu lt	Sculpi n	Northe rn Pike	Smallmou th Bass	Largemou th Bass
Boyne R. Trib.	Mulmur	Summer 1996	0	0	0	0	0	0	0	0	0	0		0	0
Boyne R. Trib.	Mulmur		2	2	0	0	0	0	2	2	0	2			

Table B - 4: BioMap for Boyne River Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
35	Boyne River @ Airport Road	10/15/01	156	32	15	0	4	cobble/gravel	lawn, residential, some forest	rural residential	3.14	14.82	below on-line pond	
36	Boyne River @ Alliston (Riverdale Park)	10/24/96	-	-	-	-	-	sand	lawn area, parkland	urban	3.13	17.44	below Earl Rowe Dam	Below potential
		5/21/97	47	19	7	0	79.9	gravel	parkland	urban	2.79	8.93	Channelized, below Earl Rowe Dam	Below potential
37	Boyne River @ Concession 4 Tosorontio	10/12/98	383	45	25	0	3.73	gravel	grasses, shrubs	agriculture, aggregate extraction	3	17.06	-	Below potential

Table B - 4: BioMap for Boyne River Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		10/15/01	164	28	15	0	3	gravel	grasses, shrubs	agriculture, aggregate extraction	3	13.84	-	-
38	Boyne River @ Highway 24	5/16/97	52	20	12	41.3	26.1	sand/silt	retired agricultural land	agriculture	3	6.05	-	Impaired
		10/17/96	9	-	-	-	-	silt/sand	wetland	retired agricultural	2.5	1.21	-	Impaired
39	Boyne River @ Mulmur/Melanthon Townline	11/04/99	634	72	25	0.76	22.6	cobble, gravel	-	-	3.13	11.43	Upstream impoundments	Below potential
		5/31/01	435	40	21	0	4	cobble, gravel	-	-	3.44	20.39	Upstream impoundments	-
		10/15/01	298	33	12	0	3	cobble, gravel	-	-	3.29	15	Upstream impoundments	-
40	Boyne River @ Primrose	5/28/98	232	57	28	0	32.4	Bedrock, cobble, boulder	forested	residential	3.61	23.03	-	Unimpaired
41	Boyne River @ Riverdale Park,	11/04/99	-	-	-	-	-	-	-	-	3.17	7.61	Channelized, Earl Rowe	Below potential

Table B - 4: BioMap for Boyne River Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Alliston												Dam	
42	Boyne River directly d/s of Brienza Dam	6/01/01	263	31	13	0	21	gravel/ some sand	forested	forest	3.29	10.97	Upstream impoundments	-
43	Boyne River upstream of Concession 2 Tosorontio	10/12/98	323	44	22	0	2.32	gravel	forested	residential	3.32	19.84	-	Unimpaired
44	Briar Hill - Trib of Nottawasaga @ MacKenzie Pioneer	5/31/00	50	12	1	18	17	Clay, silt, sand	forest	golf course, residential	2.77	6.25	Channelized, downstream of golf course and urban area	Impaired
59	HWIP - Cottrell Property - Rosemont Creek - (4th Line Tosorontio)	5/31/01	220	27	11	0	20	sand/gravel	meadow	meadow/grazing land	3.14	9.76	Not riparian cover, excessive erosion	-
152	Rosemont Creek @ Cottrell Farm LWCP project site	10/21/98	349	54	15	29.7	41.5	sand, gravel, silt	retired pasture (grasses, tree seedlings)	agriculture	3	8.64	riparian veg. stripped, erosive, low base flow	Impaired
15	Rosemont Creek	5/21/97	87	20	7	19.6	25.1	gravel,	pasture	agriculture	2.59	7.65	-	Impaired

Table B - 4: BioMap for Boyne River Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
2	downstream of Tosorontio Concession 4 (Cottrell Farm)							silt						
165	Spring Creek @ 15th Line - New Tecumseth	5/05/00	29	24	5	34	40	Gravel/Sand	Forest	-	3	7.03	Channelization, rural and urban NPS, habitat loss	Impaired
170	Tosorontio Creek - 1/2 Line @ sdrd 5 (Little prop.#1 d/s site just west of 1/2 line)	5/16/01	276	38	19	0	34	Gravel /sand/some cobble	forest/scrubland	grazing land (for horses)	3.38	16.88	-	-
171	Tosorontio Creek - 1/2 Line @ sdrd 5 (Little prop.#2 just u/s of site #1 - first East of intrsctn)	5/16/01	247	32	11	0	83	silt/sand	meadow/scrubland	scrubland/cattle grazing	3	7.29	-	-
172	Tosorontio Creek - 1/2 Line @ sdrd 5 (Little prop.#3 crossing just south of interestion)	5/16/01	161	30	16	0	34	gravel/cobble	forested	grazing and agriculture	3.29	15.64	-	-

Pine River Subwatershed

			Table B - 5: Fish Inventory for Pine River Subwatershed												
Watercourse	Municipality	Date	Coldwater Fish										Warmwater Fish		
			RBT - YOY	RBT - OJ	RBT - Adult	BKT - YOY	BKT - OJ	BKT - Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Pine R.	Melancthon	June 1999	0	0	0	0	0	2	0	0	0	0			
Pine R.	Melancthon	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Pine R.		July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Pine R.	Mulmur	Summer 1996	0	2	0	0	0	0	0	0	0	0		0	0
Pine R. Trib.	Melancthon	October 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	August 1997	0	0	0	0	0	1	2	2	2	0		0	0
Pine R. Trib.	Mulmur	August 1997	0	0	0	0	0	0	0	0	0	0		0	0
Pine R. Trib.	Mulmur	October 1997	0	0	0	1	0	0	0	0	0	0		0	0
Pine R. Trib.	Mulmur	June 1999	0	0	0	0	2	2	0	0	0	0			
Pine R. Trib.	Mulmur	October 1999	0	0	0	0	0	2	0	0	0	0			
Pine R. Trib.		July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Pine R. Trib.	Mulmur	April 2001	0	0	0	2	1	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	November 2001	2	0	0	2	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Adjala/Tos. (Tos.)	November 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Melancthon	November 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Melancthon	November 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	November 2001	0	0	0	2	1	0	0	0	0	0	0	0	0
Pine R.	Mulmur	November	0	0	0	0	2	0	0	0	0	0	0	0	0

			Table B - 5: Fish Inventory for Pine River Subwatershed													
Watercourse	Municipality	Date	Coldwater Fish										Warmwater Fish			
			RBT - YOY	RBT -OJ	RBT - Adult	BKT - YOY	BKT -OJ	BKT - Adult	BNT - YOY	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass	
Trib.		er 2001														
Pine R. Trib.	Mulmur	December 2001	0	0	0	0	2	2	0	0	0	0		0	0	
Pine R. Trib.	Mulmur	June 2002	0	0	0	2	2	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	August 2002	0	0	0	2	1	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	Nov. 1998	0	0	0	0	0	2	0	0	0	0				
Pine R. Trib.	Mulmur	Nov. 1999	0	0	0	0	1	0	0	0	0	0				
Pine R. Trib.	Melancthon	Oct. 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Melancthon	Oct. 2001	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pine R. Trib.	Mulmur	Oct. 2001	0	0	0	2	2	2	0	0	0	0		0	0	
Pine R. Trib.	Mulmur	Oct. 2001	0	0	0	2	2	2	0	0	0	0		0	0	
Pine R. Trib.	Mulmur		2	2	0	0	0	0	2	2	0	1				
Pine R., South Br.	Melancthon	June 1998	0	0	0	0	0	0	0	0	0	0				
Pine R., South Br.	Melancthon	July 2000	0	0	0	2	2	2	0	0	0	0		0	0	
Pine R., South Br. Trib.	Melancthon	June 1997	0	0	0	0	0	2	0	0	0	0				
Pine R., South Br. Trib.	Melancthon	June 1998	0	0	0	0	2	2	0	0	0	0				

Table B - 6: BioMap for Pine River Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
15	Bear Creek @ Essa Concession 5	10/16/96	-	-	-	-	-	sand	forested	rural residential	3.32	15.14	-	Below potential
81	Lisle Creek @ Concession 4 Adjala-Tosorontio (former Tosorontio)	11/17/97	644	38	14	0.1	11.7	gravel	lawn area	residential	3.22	16.2	erosive, mowed lawn up to stream edge	Unimpaired
143	Pine River @ Concession 4 Tosorontio	5/24/98	42	42	19	0	36.6	gravel	narrow strip with grasses, shrubs	residential, agricultural	3.29	12.09	-	Unimpaired
144	Pine River @ 17th Sdrd - West of Airport Rd	10/15/01	244.5	30	14	0	15	Cobble/gravel	grasses/forest	forest	3.71	24.56	-	-
145	Pine River @ River Road (downstream from Hornings Mills)	11/17/97	313	34	22	1.9	1.12	small gravel	forested	rural residential	4	28.42	below series of on-line ponds	Unimpaired
146	Pine River @ Tioga (South-West Corner of CFB)	11/08/97	-	16	8	-	-	gravel	forested	n/a	3.67	-	-	Unimpaired

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Borden)													
147	Pine River Tributary - Mansfield Tributary - 2nd Line Tosorontio	10/31/00	98.5	37	12	0	14	Gravel covered with silt	Grazed	Agriculture	3.13	10.1	Enrichment, erosion, (grazing), upstream pond?	Impaired
164	South Pine River - Platzer Property	10/23/00	157	23	13	0	2	Gravel	Forest/Rural	Forest	4	26.4	Potential impairment by U/S ponds	Unimpaired

Mad River

Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT - OJ	RBT - Adult	BKT - YOY	BKT - OJ	BKT - Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Mad R.	Osprey	June 1998	0	0	0	0	2	2	0	0	0	0			
Mad R.	Osprey	June 1998	0	0	0	0	1	0	0	0	0	0			
Mad R.	Springwater	September 2000	0	0	0	0	0	0	0	0	0	1		0	0
Mad R.	Adjala Tosorontio	September 2000	0	2	0	0	0	0	0	0	0	0		0	0

Table B - 7: Fish Inventory for Mad River Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT -OJ	RBT - Adult	BKT - YOY	BKT -OJ	BKT - Adult	BNT - YOY	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Mad R.		September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Mad R.	Clearview	September 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Mad R.	Clearview	September 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Mad R.	Nottawasaga	Sep. 1989	2	2	0	0	0	0	0	0	1	0			
Mad R.	Nottawasaga	Sept. 1989	2	2	0	0	0	0	0	0	0	0			
Mad R.	Nottawasaga	Summer 1996	0	2	0	0	0	0	0	0	0	0		0	0
Mad R.	Nottawasaga	Summer 1996	0	2	0	0	0	0	0	0	0	0		0	0
Mad R. Trib.		August 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Mad R. Trib.	Clearview	September 2001	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B - 8: BioMap Scores for Mad River Subwatershed															
Sampling Site#	Station Identifier (Report)	Date Sampled	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status	
87	Mad River @ Adjala-Tosorontio (former)	5/14/97	220	41	16	3	6	cobble	forested buffer	Conservation land	3.3	15.5	-	Unimpaired	

Table B - 8: BioMap Scores for Mad River Subwatershed

Sampling Site#	Station Identifier (Report)	Date Sampled	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Tosorontio) concession 3	9/15/97	55	41	16	3	6	Cobble	forested buffer	conservation land	3.3	15.6	-	Unimpaired
88	Mad River @ Airport Road	9/15/97	130	26	16	8	0	gravel	forested buffer	agriculture	3.2	16	-	Below potential
89	Mad River @ Center Line Osprey	5/28/98	57	25	3	56	33	detritus , sand, silt, gravel	swamp, wetland	agriculture, conservation area	2.2	3.09	-	Unimpaired
90	Mad River @ Concession 4/5 Osprey	11/25/97	195	38	20	1	28	gravel	grasses, wetland	agriculture	2.8	7.57	-	Unimpaired
91	Mad River @ Devil's Glen	10/31/00	271	35	7	0	2	Cobble /Gravel	Forest	-	3.6	24.2	Low gradient , swampy	Unimpaired
92	Mad River @ Glen Huron (Glen Huron Rd.)	5/12/97	423	27	17	1	7	cobble	narrow vegetated buffer	agriculture	3.5	16.3	-	Below potential
93	Mad River @ Glen Huron Road (Glen Huron)	10/29/96	392	15	10	0	0	cobble	cropped	agriculture	3.8	21.9	-	Unimpaired

Table B - 8: BioMap Scores for Mad River Subwatershed

Sampling Site#	Station Identifier (Report)	Date Sampled	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
94	Mad River @ Glencairn (former Tosorontio-Sunnidale Townline)	10/31/96	626	13	7	0	-	cobble	forested	conservation area	3.7	24.1	below Glen Huron Dam	Unimpaired
95	Mad River within CFB Borden (at Engineer's Bridge)	11/8/97	-	19	8	-	-	sand	forested buffer	CFB Borden	3	-	immediately below reservoir at Glen Huron	Unimpaired
115	Noisy River @ Simcoe Road 124	10/23/00	124	25	15	0	2	Cobble /Gravel	Forest	-	4	28.1	-	Unimpaired
116	Noisy River @ Simcoe Road 9	10/23/00	65	26	15	0	1	Gravel	Forest	-	3.4	20.2	-	Unimpaired
173	Walkers Creek @ Airport Road	10/31/00	221	43	20	0	6	Pea Gravel/ Sand	Meadow	Agriculture	3.5	18.4	-	Unimpaired

Coates Creek Subwatershed

Table B - 9: Fish Inventory for Coates Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RB T- YO Y	RB T- OJ	RB T- Adu lt	BK T- YO Y	BK T- OJ	BK T- Adu lt	BN T- YO Y	BN T- OJ	BN T- Adu lt	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Coates Cr.	Nottawasaga	June 1998	0	0	0	0	0	2	0	0	0	2		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	0	0	0	0	2		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	1	0	0	0	2		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	0	0	0	0	2		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	0	0	0	0	2		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	0	0	0	0	0		0	0
Coates Cr.	Sunnidale	July 1998	0	0	0	0	0	0	0	0	0	0		0	0
Coates Cr.	Sunnidale	Summer 1996	0	0	0	0	0	0	0	0	0	0		0	0

Table B - 10: BioMap Scores for Coates Creek Subwatershed														
Sampling Site#	Station Identifier (Report)	Date Sampled	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
46	Coates Creek @ 3/4 Sideroad Clearview (former Sunnidale)	10/31/96	101	21	13	0	-	gravel	forested	Rural residential	3.8	21.8	-	Unimpaired
		5/14/97	110	27	12	0	17	gravel	forested	rural residential/ agriculture	3.3	16.9	-	Unimpaired

McIntyre Creek Subwatershed

Table B - 11: Fish Inventory for McIntyre Creek Subwatershed																
Watercourse	Municipality	Date	Coldwater Fish										Warmwater Fish			
			RBT - YOY	RBT - OJ	RBT - Adult	BK T- YOY	BK T- OJ	BK T- Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass	
McIntyre Cr.	Clearview	Summer 1996	2	2	0	0	0	0	0	0	0	0	2		0	0
McIntyre Cr., West Br.	Sunnidale	May 2001	0	0	2	0	0	0	0	0	0	0	0		0	0

Table B - 11: Fish Inventory for McIntyre Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT -OJ	RBT - Adult	BK T- YOY	BK T- OJ	BK T- Adult	BNT - YOY	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
McIntyre Creek Trib.	Clearview	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0

Marl Creek

Table B - 12: Fish Inventory in the Marl Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT -OJ	RBT - Adult	BK T- YOY	BK T- OJ	BK T- Adult	BN T- YOY	BN T- OJ	BN T- Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Little Marl Cr.	Springwater	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Marl Cr.	Springwater	September 2001	0	0	0	0	0	0	0	0	0	0	1	2	0
Marl Cr.	Springwater	September 2000	0	0	0	0	0	0	0	0	0	2	0	0	0
Marl Cr.	Springwater	June 2001	0	0	0	0	0	0	0	0	0	1	0	0	0
Marl Cr.	Springwater	August 2001	0	0	0	1	0	1	0	0	0	2	0	0	0
Marl Cr.	Flos	Summer 1996	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Cr.	Flos	Summer 1996	0	0	0	0	0	0	0	0	0	2	0	0	0
Marl Cr. Trib.	Vespra	June 1999	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Cr. Trib.	Vespra	June 1999	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek	Springwater	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B - 12: Fish Inventory in the Marl Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT- YOY	RBT- -OJ	RBT- - Adult	BK T- YOY	BK T- OJ	BK T- - Adult	BN T- YOY	BN T- OJ	BN T- - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Marl Creek Trib.	Springwater	July 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek Trib.	Springwater	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek Trib.	Springwater	September 2000	0	0	0	0	1	0	0	0	0	2	0	0	0
Marl Creek Trib.	Springwater	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek Trib.	Springwater	May 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek Trib.	Springwater	June 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Creek Trib.	Springwater-Flos	June 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Lake	Town of Wasaga Beach	July/Aug. 1983	0	0	0	0	0	0	0	0	0	0	0	0	0
Marl Lake	Town of Wasaga Beach	Sep. 1989	0	0	0	0	0	0	0	0	0	0	2	0	2

Table B - 13: BioMap Scores for Marl Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
11	Baywood homes #1 - Upstream Control - East/West trib. at East property boundary	9/22/99	970	31	1	62	2	Sand, small gravel, muck	Meadow, scrubland	Agriculture, grazing	2.33	4.71	Channelization, nutrient enrichment due to agriculture	Impaired
		10/22/99	970	31	1	62	2	Silt, muck	Pasture, narrow scrubland buffer	Agriculture	2.32	4.71	Channelized, pastured	Impaired
		5/07/01	284	21	2	0	91	Sand, small gravel, muck	Meadow, scrubland	Agriculture, grazing	2.8	8.66	Channelization, nutrient enrichment due to agriculture	
		10/03/01	50.5	15	2	2	1	Sand, small gravel, muck	Meadow, scrubland	Agriculture, grazing	2.75	7.28	Channelization, nutrient enrichment due to agriculture	
		5/07/02	212	14	2	0	85	Sand, small gravel, muck	Meadow, scrubland	Agriculture, grazing	2.67	10.85	Channelization, nutrient enrichment due to agriculture	

Table B - 13: BioMap Scores for Marl Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		10/01/02	95.5	14	0	5	6	Sand, small gravel, muck	Meadow, scrubland	Agriculture, grazing	2.5	6.44	Channelization, nutrient enrichment due to agriculture	
12	Baywood homes #2 - Trib. of Little Marl Creek - Upstream Control @ Hwy 92 (North property boundary)	4/16/99	114	12	3	87	3	Muck	Tilled agricultural fields	Agricultural land	2.66	11.17	Channelization, nutrient enrichment, flashy flow regime (no buffers)	Impaired
		5/07/01	226	32	3	12	9	Muck	Tilled agricultural fields	Agricultural land	2.5	5.18	Channelization, nutrient enrichment, flashy flow regime (no buffers)	
		10/03/01	214	9	0	42	0	Muck	Tilled agricultural fields	Agricultural land	3	3.76	Channelization, excessive warming, nutrient enrichment, erosion	
		5/08/01	132	12	2	29	20	Muck	Tilled agricultural	Agriculture	2.33	7.29	Channelization,	

Table B - 13: BioMap Scores for Marl Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		2							ural fields	ral land			excessive warming, nutrient enrichment, erosion	
13	Baywood homes #3 - Trib. of Little Marl Creek - downstream test site at west property line	4/16/99	178	23	3	29	57	Fine sand, muck	Meadow	Scrubland, agriculture	2.5	4.63	Channelization, excessive warming, nutrient enrichment, erosion	Impaired
		9/21/99	257	29	4	2	84	Fine sand, muck	Meadow	Scrubland, agriculture	2.28	3.38	Channelization, excessive warming, nutrient enrichment, erosion	Impaired
		5/07/01	75.5	25	2	16	71	Fine sand, muck	Meadow	Meadow, golfcourse	2.67	6.35	Channelization, excessive warming, nutrient enrichment, erosion	
		10/03/01	20.5	13	2	0	16	Fine sand, muck	Meadow	Meadow, golfcourse	2	4.26	Channelization, excessive warming,	

Table B - 13: BioMap Scores for Marl Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
													nutrient enrichment, erosion	
		5/08/02	36	8	0	5	79	Fine sand, muck	Meadow	Meadow, golfcourse	2.5	5.46	Channelization, excessive warming, nutrient enrichment, erosion	
		10/01/02	288	17	10	0	93	Fine sand, muck	Meadow	Meadow, golfcourse	1.75	2.77	Channelization, excessive warming, nutrient enrichment, erosion	
60	HWIP - Heslip Property - Marl Creek @ 2nd Line	10/10/01	179	21	13	0	0	Cobble, gravel, some sand	Forested	agriculture	3.6	19.61		
		10/01/02	246	22	12	0	2	Cobble, gravel, some sand	Forested	agriculture	3.33	19.53		
79	Lamont Creek @ Highway	10/22/						gravel	parking	urban (commerc	2.2			Impaired

Table B - 13: BioMap Scores for Marl Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	26 Stayner	96							lot	ial)				
96	Marl Creek @ 9/10 Sdrd Clearview (former Flos)	5/27/99	128	35	1	14	71	silt, clay	trees, shrubs, grasses	agriculture	2.5	4.55	Channelization	Impaired
97	Marl Creek @ Springwater (former Flos) Concession 2	5/07/97	189	24	13	0	13	gravel/c lay	pasture	agriculture	3.82	19.86	stripped riparian vegetation, grazed stream banks	Unimpaired
		10/22/96	64	20	9	0		gravel/c lay	pasture	agriculture	3.59	25.02	riparian corridor grazed	Unimpaired

Matheson Creek Subwatershed

Table B - 14: Matheson Creek Subwatershed																
Watercourse	Municipality	Date	Coldwater Fish										Warmwater Fish			
			RBT - YO Y	RBT - OJ	RBT - Adult	BK T- YO Y	BK T- OJ	BK T- Adult	BNT - YO Y	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass	
Matheson Cr.	Vespra	August 1996	0	0	0	0	0	0	0	0	0	1	0		0	0
Matheson Cr.	Vespra	July/Aug. 1983	0	0	0	0	0	0	0	0	2	0	2			
Matheson Cr.	Vespra	Nov. 1998	0	0	0	0	0	0	0	0	0	0	0			
Matheson Cr.	Flos	Summer 1996	0	0	0	0	0	0	0	0	0	0	0		0	0
Matheson Cr.	Vespra	Summer 1996	0	0	0	0	0	0	0	0	0	0	0		0	0
Matheson Cr.	Vespra	Summer 1996	0	0	0	0	0	0	0	0	2	2	0		0	0
Matheson Cr. Trib.	Vespra	July/Aug. 1983	0	0	0	0	0	0	0	2	0	0	2			
Matheson Cr. Trib.	Vespra	July/Aug. 1983	0	0	0	0	0	0	0	1	2	0	0			
Matheson Cr. Trib.	Vespra		0	0	0	0	0	0	0	2	2	0	2			

Table B - 15: BioMap Scores for Matheson Creek Subwatershed															
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	% Dominant Taxa	stream stream Constraints or Impairment Factors	Status
98	Matheson Creek (Tributary of) @ Gill Road Springwater	5/27/99	40	28	9	0	36.6	sand/wood y debris	grasses, shrubs	rural residential	3.85	11.6	33	-	Unimpaired
99	Matheson Creek @ Nursery Road	9/22/97	-	20	10	-	-	sand	forested buffer	agriculture	3.2	-	-	-	Unimpaired
100	Matheson Creek @ Nursery Road	10/26/00	36	22	6	1	38	Sand	Narrow forested buffer	Agricultural (pasture, livestock barn)	3.2	15.09	37	-	Unimpaired
101	Matheson Creek Tributary @ Simcoe Road 31	10/18/00	83	36	9	4	4	Sand	Marsh	wetland, forest	3	7.49	38	Upstream pond?	Impaired
102	Matheson Creek upstream of Gill	11/06/96	24	24	12	0	69.4	sand	forested (cedar bush)	forested valley	4	16		-	Unimpaired

Table B - 15: BioMap Scores for Matheson Creek Subwatershed															
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	% Dominant Taxa	Constraints or Impairment Factors	Status
	Road	5/05/97		22	12			sand	deeply incised, forested valley	rural residential	3.2	-	-	-	Unimpaired
103	Matheson Creek-Spring Lakes EMP Site #1 - just upstream of wood bridge off Gill Road	5/23/00	6	20	10	0	21	Sand, wood y debris	forest	-	3.59	13.57	24	-	Unimpaired
		5/15/02	22	12	8	0	8	Sand, wood y debris	forest	-	4	21.72		-	-
		11/07/02	31.5	17	10	3	72	Sand, wood y debris	forest	-	3.25	11.04		-	-
104	Matheson Creek-Spring Lakes EMP Site #2 - Matheson Crk upstream of site #4	5/23/00	17	21	7	31	36	Sand, wood y debris	forest	-	4	9.17	31	-	Unimpaired
		5/15/02	22.5	11	5	0	25	Sand, wood y debris	forest	-	3	10.19	-	-	-

Table B - 15: BioMap Scores for Matheson Creek Subwatershed															
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	% Dominant Taxa	Constraints or Impairment Factors	Status
		11/07/02	66.5	20	7	0	81	Sand, wood y debris	forest	-	3	9.54	-	-	-
105	Matheson Creek-Spring Lakes EMP Site #3 - Trib of Math. d/s of fork (sites 5 & 6)	5/23/00	32	28	11	0	20	Sand, detritu s, wood y debris	forest	-	4	29.83	28	-	Unimpai red
		5/15/02	26.5	19	10	0	0	Sand, detritu s, wood y debris	forest	-	4	35.2	-	-	-
		11/07/02	28.5	18	6	0	11	Sand, detritu s, wood y debris	forest	-	3.5	21.71	-	-	-
106	Matheson Creek-Spring Lakes EMP Site #4 - Trib of Math	4/30/01	9	9	2	0	100	Sand, detritu s, wood y debris	forest	-	3	10.19	-	-	-

Table B - 15: BioMap Scores for Matheson Creek Subwatershed															
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	% Dominant Taxa	Constraints or Impairment Factors	Status
	d/s of site #2	11/07/01	8	1	0	0	52	Sand, detritus, woody debris	forest	-	3.5	27.16	-	-	-
107	Matheson Creek-Spring Lakes EMP Site #5 - d/s of development area #1 (south fork)	4/30/01	54.5	22	10	0	16	Sand, detritus, woody debris	forest	-	4	30.94	-	-	-
		11/07/01	50	18	7	0	6	Sand, detritus, woody debris	forest	-	3.4	21.49	-	-	-
108	Matheson Creek-Spring Lakes EMP Site #6 - d/s of development area #1 (north fork)	4/30/01	35	19	8	2	15	Sand, detritus, woody debris	forest	-	4	25.34	-	-	-
		11/07/01	13.5	14	6	0	0	Sand, detritus, woody debris	forest	-	3.33	20.76	-	-	-

Willow Creek Subwatershed

Table B - 16: BioMap Scores for Willow Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
50	East Bayfield - Trib of Willow Creek	5/04/98	50	54	10	6.48	7.78	silt, detritus, sand, gravel, macrophytes	meadow, scrubland	commercial, residential	2.92	5.39	Downstream of trib from stormwater pond	Impaired
		11/03/98	466	54	10	0.56	21.7	silt, detritus, sand, gravel, macrophytes	meadow, scrubland	commercial, residential	2.92	7.23	Downstream of trib from stormwater pond	Impaired
		5/07/99	175.33	44	10	3	18	muck, sand, gravel	meadow, scrubland	residential (under development)	3.44	5.36	Downstream of trib from stormwater pond	Impaired
		11/15/99	1998.5	47	9	0	1	muck, sand,	meadow,	residential (under development)	3.09	7.11	Downstream of trib from	Impaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
								gravel	scrubland	nt)			stormwater pond	
		4/23/00	197	31	3	4	8	sand, silt, detritus	narrow forested band	residential development	3.14	6.25	Below impoundment	Impaired
		10/18/00	234	26	5	0	1	sand, silt, detritus	Narrow Forested band	residential development	3.32	7.92	Below impoundment	Impaired
		5/14/01	80.5	28	4	1	11	clay, muck, sand, detritus	meadow, scrubland	commercial, residential	2.83	7.3	Downstream of trib from stormwater pond	-
		11/13/01	67	22	4	1	0	clay, muck, sand, detritus	Meadow, scrubland	commercial, residential	3.2	7.88	Downstream of trib from stormwater pond	-

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		5/15/02	41.5	11	4	0	0	clay, muck, sand, detritus	Meadow, scrubland	commercial, residential	2.33	5.59	Downstream of tributary from stormwater pond	-
		11/07/02	89	14	2	0	2	clay, muck, sand, detritus	meadow, scrubland	commercial, residential	2.67	6.45	Downstream of tributary from stormwater pond	-
82	Little Lake Basin-Central Basin	11/06/00	21	5	0	0	95	muck, vegetation	forested, residential		2	2.41	-	Inconclusive
83	Little Lake Basin-North of Boat Launch	11/06/00	48	6	0	0	96	muck, vegetation	forested, residential		2	2.41	-	Inconclusive
84	Little Lake Littoral, north side of lake,	11/06/00	155	28	8	5.19	4.5	sand, vegetation	forested	forested	2.28	7.52	-	Inconclusive

Table B - 16: BioMap Scores for Willow Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	east of two cottages													
85	Little Lake Littoral, South side of lake, west of campground, cattail	11/06/00	989	24	7	1	1.29	organic muck, vegetation	Cattail marsh	forested, marsh	2.32	5.81	-	Inconclusive
86	Little Lake Littoral-East of boat launch at Trailer Park	11/06/00	191	17	5	0.5	1.6	Sand, vegetation	Trailer Park	Trailer Park	2.25	5.21	-	Inconclusive
157	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet	11/16/98	178	44	9	4.44	63.4	sand, silt	forested	residential, agriculture	2.9	8.65	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	y plan area													
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	4/29/99	78	45	6	4.9	87.3	Silt, muck	forest	rural residential	3.2	6.57	Low gradient	Unimpaired
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	9/27/99	130	55	12	11.4	36.2	Silt, muck	forest	rural residential	3.17	7.86	Low gradient	Unimpaired
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	5/10/00	26	25	3	6	46	Fine gravel, sand, silt	Swamp, forest	-	3.17	7.44	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Simcoe Rd 28, d/s outlet of secondary plan area													
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	5/07/01	17.5	23	5	2	64	Fine gravel, sand, silt	Swamp, forest	-	2.83	7	-	-
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	10/03/01	45	23	6	6	3	Fine gravel, sand, silt	Swamp, forest	-	2.83	5.72	-	-

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	5/17/02	64.5	21	6	2	60	Silt, muck	forest	rural residential	2.6	7.4	Low gradient	-
	Snow Valley #1 - Black Creek @ Simcoe Rd 28, d/s outlet of secondary plan area	10/03/02	60	20	3	0	46	Silt, muck	forest	rural residential	2.2	5.95	Low gradient	-
158	Snow Valley #2 - Black Creek Trib. - West of Vespra	11/16/98	14	16	2	0	31.8	sand	forested	residential	3.67	15.73	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Valley Road													
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley Road	4/29/99	13	19	5	0	65.1	Sand, woody debris	Forest	rural residential	4	10.02	Sandy substrate	Unimpaired
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley Road	10/27/99	35	30	8	3.32	7.96	Sand, woody debris	Forest	rural residential	3.5	15.21	Sandy substrate	Unimpaired
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley	5/10/00	27	22	5	0	22	Sand, organic matter, woody debris	Forest	Forested	3.8	27.57	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Road													
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley Road	7/14/01	16.5	15	6	4	17	Sand, organic matter, woody debris	Forest	Forested	4	40.44	-	-
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley Road	10/03/01	30.5	20	6	0	21	Sand, organic matter, woody debris	Forest	Forested	3.6	18.42	-	-
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley	5/17/02	136.5	22	7	0	6	Sand, woody debris	Forest	rural residential	3.8	30.5	Sandy substrate	-

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Road													
158	Snow Valley #2 - Black Creek Trib. - West of Vespra Valley Road	10/03/02	19.5	18	6	0	0	Sand, woody debris	Forest	rural residential	3.5	18.48	Sandy substrate	-
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	11/16/98	22	15	2	0	27.5	gravel, sand	forested	residential	4	26.86	-	Unimpaired
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	4/29/99	55	30	11	1.45	24.5	sand, gravel	Forest	rural residential	4	29.18	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	10/27/99	162	28	7	0.5	32	sand, gravel	Forest	rural residential	3.67	25.94	-	Unimpaired
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	5/10/00	228	27	11	2	54	Sand, small gravel	Forested	Forested	4	28.25	-	Unimpaired
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	5/14/01	212.5	32	12	1	71	Sand, small gravel	Forested	Forested	4	27.67	-	-
159	Snow Valley #3 -	10/03/01	59.5	15	8	0	32	Sand, small	Forested	Forested	4	39.23	-	-

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Black Creek Trib. - East of George Parkway							gravel						
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	5/17/02	264	13	6	1	72	sand, gravel	Forest	rural residential	4	29.92	-	-
159	Snow Valley #3 - Black Creek Trib. - East of George Parkway	10/03/02	69.5	14	4	2	39	sand, gravel	Forest	rural residential	3.67	29.02	-	-
160	Snow Valley #6 - Keast Creek @ Simcoe	11/16/98	92	24	14	0	23.2	sand, gravel	forested	residential	4	26.38	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Road 28													
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	4/29/99	291	36	10	1.25	23.4	sand, gravel	Forest	rural residential	4	27.37	-	Unimpaired
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	10/27/99	612	42	14	0.64	1.74	sand, gravel	Forest	rural residential	4	28.8	-	Unimpaired
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	5/10/00	174	31	12	1	40	Sand, gravel	Forested	Forested	4	26.53	-	Unimpaired
160	Snow Valley #6 - Keast Creek @ Simcoe	5/07/01	226	30	11	1	26	Sand, gravel	Forested	Forested	4	27.27	-	-

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Road 28													
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	10/03/01	173.5	21	8	11	1	Sand, gravel	Forested	Forested	4	29.23	-	-
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	5/15/02	144.5	22	10	1	17	sand, gravel	forested	residential	4	27.43	-	-
160	Snow Valley #6 - Keast Creek @ Simcoe Road 28	10/03/02	140.5	17	6	0	2	sand, gravel	forested	residential	4	27.04	-	-
175	Willow Creek - Simcoe Road 31 (old Highway)	10/26/00	528	38	13	0	2	Gravel	Scrubland/ Meadow	-	3.22	13.39	Enrichment (rural NPS), U/S Channelization	Below potential

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	11)													
176	Willow Creek @ Findlay Mill Road	9/22/97	155	39	15	0	9.71	sand, some gravel	forested valley	residential	3	15.35	below Little Lake, urbanization in Midhurst	Unimpaired
177	Willow Creek @ Findlay Mill Road Midhurst	5/04/98	158	51	22	1.73	27.9	sand, gravel	Forested valley	residential	3.32	15.96	-	Unimpaired
178	Willow Creek @ Highway 27	5/05/97	173	20	12	0.25	12.5	cobble, boulder	Forested valley	residential	3.82	22.15	-	Unimpaired
179	Willow Creek @ Oro Concession 2	9/22/98	143	43	18	3.18	16.4	sand, gravel, cobble	old field, grasses and shrubs	agriculture, residential	3.54	19.34	-	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
180	Willow Creek @ Simcoe Rd. 27	10/18/96	231	35	15	1		cobble/boulder	forested	conservation land	3.44	25.52	downstream of Little Lake	Unimpaired
181	Willow Creek @ Simcoe Rd. 31	10/16/98	56	25	12			sand/gravel	forested	rural residential	3.14	12.06	-	Unimpaired
182	Willow Creek @ Simcoe Road 28	10/26/00	3	23	6	0	0	Sand	Scrubland/ Meadow	Minesing Swamp	3.2	2.35	Sand Substrate, Below Little Lake and pasture	Unimpaired
183	Willow Creek @ Simcoe Road 31	5/05/97	78	26	12	1.8	27.1	sand, gravel	narrow vegetated strip	rural residential	3.43	14.44	--	Unimpaired
184	Willow Creek @ St. Vincent Street, D/s of Little	10/26/00	1077	44	9	1	1	Sand, pea gravel, silt, vegetation	Marsh, Scrubland	-	2.4	5.44	Below Little Lake	Unimpaired

Table B - 16: BioMap Scores for Willow Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Lake													
185	Willow Creek @ Wattie Road, Midhurst	10/26/00	62.5	35	12	0	27	Sand, Silt	Deep, Forested valley	Urban	3.13	4.87	Sampled in reach impounded by beavers	Unimpaired
186	Willow Creek Tributary - 20/21 Sideroad Oro-Medonte	10/18/00	366.5	47	16	4	9	Sand/small gravel	Golf course /meadow	Golf course/scrubland	3.35	10.08	Rural NPS, warming and siltation (used as drain)	Below potential
187	Willow Creek Tributary - 3rd Line Oro-Medonte	10/18/00	233	41	15	0	4	Gravel	Meadow /Forest	-	3.1	11.37	Rural NPS, U/S impoundments, degraded habitat U/S	Below potential

Bear Creek Subwatershed

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
1	Ardagh EMP #1 - Bear Creek @ County Rd 27- Right by tracks, Downstream outlet of Secondary Plan Area	10/06/98	80	30	1	10	78	detritus, silt	wetland, forested	rural residential	2.71	3.23	wetland habitat	Unimpaired
		4/21/99	70.3	35	3	12	71	Organic muck	Wetland, Forest	wetland, forested	2.63	4.4	wetland, lentic	Unimpaired
		10/05/99	80	33	4	2	46	Organic muck	Wetland, Forest	wetland, forested	2.85	5.92	wetland, lentic	Unimpaired
		5/02/00	329	38	6	3	57	Muck, silt, (swampy)	Forested	wetland, forested	2.78	4.39	wetland habitat	Unimpaired
		10/10/00	45	16	1	0	44	Muck, silt, (swampy)	Forested	wetland, forested	2.25	2.24	wetland, lentic	Unimpaired
		5/02/01	199	20	1	0	0	Muck, silt, (swampy)	Forested	wetland, forested	2.2	4.79	wetland, lentic	-

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
								y)						
		10/24/01	8.5	12	1	0	0	Muck, silt, (swamp y)	Forest ed	wetland, forested	1.75	4.26	wetland habitat	-
		5/09/02	42.5	14	1	13	72	Muck, silt, (swamp y)	Forest ed	wetland, forested	2.33	5.03	wetland, lentic	-
		10/01/02	35	16	2	5	63	Muck, silt, (swamp y)	Forest ed	wetland, forested	2	4.83	wetland, lentic	-
		5/27/03	-	-	-	-	-	Muck, silt, (swamp y)	-	wetland, forested	-	-	wetland, lentic	-
2	Ardagh EMP #2 - West Creek (Bear Creek trib.) @ Simcoe Road 27 (300m North of Ardagh	4/21/99	13	30	10	0	54	Sand	Forest, Highway	Forest, rural residential	4	18.4	-	Unimpai red
		5/10/99	14	33	10	3	14	Sand	Forest, Highway	Forest, rural residential	4	16.11	-	Unimpai red
		5/02/00	103	34	12	0	71	Sand, gravel	Forest ed	-	4	13.25	-	Unimpai red

(East).

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Road)								Highway (west)					
		10/10/00	259	48	21	0	15	Sand, gravel	Forest (East), Highway (west)	-	3.91	14.69	-	Unimpaired
		5/14/01	208	24	13	0	57	Sand, gravel	Forest (East), Highway (west)	-	4	25.21	-	-
		10/15/01	39	16	3	0	32	Sand, gravel	Forest (East), Highway (west)	-	3.5	11.88	-	-
		5/09/02	121	20	10	0	37	Sand, gravel	Forest (East), Highway (west)	-	3.6	21.4	-	-
		10/01/02	49.5	17	6	8	28	Sand, gravel	Forest (East),	-	3.25	13.26	-	-

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
									Highway (west)					
		5/27/03						Sand, gravel	Forest (East), Highway (west)	-	-	-	-	-
3	Ardagh EMP #3 - Center Creek (Bear Creek trib.) North of Ardagh Road	4/21/99	248	23	11	1	3	Gravel	Forest	Forest, rural residential	4	37.11	-	Unimpaired
		10/05/99	372	35	16	0	11	Gravel	Forest	Forest, rural residential	3.88	30.29	-	Unimpaired
		5/02/00	179	17	8	0	1	Sand, gravel	Forested	Forested	4	39.51	-	Unimpaired
		10/10/00	213	28	14	0	3	Sand, gravel	Forested	Forested	4	31.06	-	Unimpaired
		10/10/01	48	24	7	0	37	Sand, gravel	Forested	Forested	4	48.49	-	-
		5/08/02	233	17	10	0	69	Sand, gravel	Forested	Forested	4	24.82	-	-

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
		10/01/02	83	17	7	0	6	Sand, gravel	Forest ed	Forested	4	30.75	-	-
		5/27/03	-	-	-	-	-	Sand, gravel	Forest ed	Forested	-	-	-	-
4	Ardagh EMP #4 - East Creek (Bear Creek trib.) North of Bishop Drive	10/06/98	-	18	3	-	-	sand	old field, narrow foreste d strip	retired agricultur al land	3.5	-	developm ent area	Unimpai red
5	Ardagh EMP #4 - East Creek (Bear Creek trib.) North of Bishop Drive	5/09/00	132	29	8	5	47	Muck	Forest ed	Forested	4	14.04	-	Unimpai red
		10/10/00	90	30	8	0	11	Muck	Forest ed	Forested	3.71	13.36	-	Unimpai red
		10/10/01	52.5	23	10	2	52	Muck	Forest ed	Forested	4	24.79	-	-
		5/09/02	106	15	5	0	55	Muck, sand, some gravel near poad	Forest ed	Forested	4	20.52	-	-

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
								area						
		10/01/02	70.5	24	7	1	10	Muck, sand, some gravel near poad area	Forest ed	Forested	3.33	11.84	-	-
		5/27/03						Muck, sand, some gravel near poad area	Forest ed	Forested			-	-
		4/21/99	55	30	11	6	69	Sand, gravel	narrow foreste d	rural residential (under developm ent)	4	17.36	-	Unimpaired
		10/05/99	41	29	8	10	33	silt, muck	narrow foreste d	rural residential (under developm ent)	3.32	13.69	-	Unimpai red
15	Bear Creek @ Essa Concessi	5/05/97	-	12	3	-	-	sand/gra vel	narrow treed buffer	rural residential	3	-	-	Below potential

Table B - 17: BioMap Scores for Bear Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	on 5													
16	Bear Creek downstream of Simcoe Rd. 27	11/03/98	354	41	13	0	72	exposed peat, sand, silt	grasses (drained wetland)	commercial, residential	3.09	12.34	channelized	Impaired
45	Ardagh EMP #3 - Center Creek (Bear Creek trib.) North of Ardagh Road	10/06/98	86	18	5	0	26	gravel	forested	rural residential	4	32.47	below on-line pond)	Unimpaired
174	West Creek (Bear Creek Trib), north of Ardagh Road	10/06/98	16	15	5	0	3	sand, gravel	forest, road	rural residential	3.67	17.85	Simcoe Road 27	Unimpaired

Innisfil Creek Subwatershed

Table B - 18: Fish Inventory for Innisfil Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT -OJ	RBT - Adult	BKT - YOY	BKT -OJ	BKT - Adult	BNT - YOY	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Innisfil Cr.	New Tecumseth	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	New Tecumseth	July 2000	0	1	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Innisfil	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Innisfil	August 2000	0	0	0	0	0	0	0	0	0	1		0	0
Innisfil Cr.	New Tecumseth	September 2000	0	1	0	0	0	0	0	0	0	0		0	1
Innisfil Cr.	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Bradford West Gwillimbury	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	New Tec.	September 2000	0	1	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	New Tec.	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	New Tecumseth	September 2000	0	1	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Innisfil	September 2000	0	0	1	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr.	Innisfil	September 2000	1	0	0	0	0	1	0	0	0	2		0	0
Innisfil Cr.	Innisfil	September 2000	2	0	0	0	2	0	0	0	0	2		0	0
Innisfil Cr.	Innisfil	September 2000	1	0	0	0	0	2	0	0	0	1		0	0
Innisfil Cr.	Innisfil		0	0	0	0	0	0	0	0	0	0	2	0	0
Innisfil Cr.	Innisfil		0	0	0	0	0	0	0	0	0	0	2	0	0

Table B - 18: Fish Inventory for Innisfil Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YO Y	RBT -OJ	RBT - Adult	BKT - YO Y	BKT -OJ	BKT - Adult	BNT - YO Y	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Innisfil Cr. Trib.	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	September 2000	2	0	0	0	1	1	0	0	0	0		0	0
Innisfil Cr. Trib.	Brad. W. Gwil.	September 2000	0	0	0	0	0	2	0	0	0	0		0	0
Innisfil Cr. Trib.	Brad. W. Gwil.	September 2000	0	0	0	0	0	0	0	0	0	2		0	0
Innisfil Cr. Trib.	Brad. W. Gwil.	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil		0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Cr. Trib.	Innisfil		0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Innisfil Creek	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Innisfil Creek Trib.	New Tecumseth	September 2000	0	0	0	0	0	0	0	0	0	0		0	1
Innisfil Creek Trib.	New Tecumseth	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek		September 2000	0	0	0	0	0	0	0	0	0	0		0	0

Table B - 18: Fish Inventory for Innisfil Creek Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish						Warmwater Fish						
			RBT - YOY	RBT - OJ	RBT - Adult	BKT - YOY	BKT - OJ	BKT - Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Trib.															
Innisfil Creek Trib.	Innisfil	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.	New Tec.	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.	New Tecumseth	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.	New Tecumseth	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.	New Tec.	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.		September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.	Essa	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Innisfil Creek Trib.		April/May 2000	0	0	0	0	0	0	0	0	0	0		0	0

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
7	Bailey Creek @ Highway 50	11/12/97	117	40	13	0	7.38	sand	mowed lawn with trees	rural residential	3.2	16.35	-	Unimpaired
8	Bailey Creek @ Simcoe Rd. 10	10/25/96	-	-	-	-	-	sand	cropped	agriculture	3	8.69	channelized	Impaired
	Bailey Creek @ Simcoe Rd. 10	5/21/97	-	16	4	-	-	sand	cropped (sod)	agriculture	2.25	-	channelized, erosive, stripped riparian vegetation	Impaired
9	Batteaux River @ Highway 24	5/20/99	326	54	26	0.21	39.9	bedrock, gravel, cobble	grasses	agriculture	3.81	22.14	cattle pastured in riparian zone	Unimpaired
17	Beeton Creek - Lequelenec Property - East of Sdrd 10 - New Tech (back of property)	5/31/01	191	29	5	1	49	silt/sand/clay	grasses	agriculture/grazing land	2.57	8.02	erosion, minimal riparian zone, no cover	-
18	Beeton Creek @ Concession 10 New	10/25/96	-	-	-	-	-	sand	pasture	agriculture	2.5		highly erosive, stripped	Impaired

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
										e			riparian vegetation	
	Tecumseth	5/23/97	40	21	3	20.7	47.4	sand	cropped	agricult e	2.79	4.84	Highly erosive, striped riparian vegetation	Impaired
	Tecumseth	10/30/97	38	21	3	4.53	89.3	sand	cropped	agricult e	2.79	6.94	Highly erosive, stripped riparian vegetation	Impaired
19	Beeton Creek @ Concession 11 New Tecumseth	5/24/98	29	31	8	5.09	87.5	sand	grasses	agricult e	2.63	5.96	stripped riparian vegetation, erosion	Impaired
20	Beeton Creek @ Concession 2 New Tecumseth	5/11/98	378	31	7	1.77	25.7	sand, gravel, abundant woody debris	forested	resid entia l	3.28	16.94	below on-line pond	Unimpair ed
21	Beeton Creek @ Concession 4 New	5/11/98	1012	33	6	39.1	34.8	gravel, sand, silt	park land	com merc ial, park	3	9.15	below Tottenham Reservoir	Impaired

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Tecumseth									land				
22	Beeton Creek @ Concession 6 New Tecumseth	5/23/97	82	25	6	9.72	45.8	sand	old field	rural residential	2.82	6.57	Channelized	Impaired
		10/19/01	149	25	7	2	8	gravel/sand/cobble	old field	rural residential	3	11.62	-	-
23	Beeton Creek @ Simcoe Road 14	5/11/98	292	38	8	21	24.3	gravel, sand, silt	forested	commercial, industrial, residential	3.13	10.43	-	Below potential
24	Beeton Creek East Branch @ Concession 5 New Tecumseth	6/03/99	413	39	2	4.26	17.1	gravel	grasses	agriculture	2.88	6.71	below small impoundment, municipal drain, pastured	Impaired
25	Beeton Creek Tributary @ 4th Line - just	10/19/01	4.5	10	10	6	17	gravel, cobble	grasses, lawns	residential	3	4.08	-	-

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	East of Tottenham (trib of E branch of Beeton crk)							e, sand, silt		l				
27	Bethesda Creek - Innisfil Creek Trib. @ 5th sdrd (N of 3rd line) - South of Bethesda	10/18/01	24.5	20	7	0	18	cobble/gravel	narrow, deep, forested valley	road/forest/cropland	3.5	21.43	-	-
28	Black Ash Creek @ Blue Mountain Rd. (Blue Mountain Mall)	5/21/99	64	50	13	0.69	37	gravel, cobble		urban	3	12.75	Channelized, thermal impacts, riparian habitat	Below potential
47	Cookstown Creek - 13th Line New Tecumseth	11/10/00	37	18	4	2	69	Sand	Narrow buffer	agriculture	2.75	5.55	Channelization, Narrow riparian buffer, rural NPS	Impaired
		10/19/01	78	32	10	0	15	gravel/sand/boulders	residential with some agri	agricultural	3.14	10.96		
58	HWIP - Cooney Property -	5/24/01	208	17	6	0	44	sand/gravel	grasses	grasses/meadow	3	8.59		

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Beeton Creek @ Cty rd 10 (just N of Tottenham)									w				
61	HWIP - Jebb Property - Upper Innisfil Creek	10/17/02	48	18	10	26	16	Clay, silt	Grasses	Cattle grazing land	2	3.9	Channelized, clay substrate, upstream agriculture	
65	HWIP - Olesen Property - Bethesda Creek just East of Hwy 400/3rd Line Innisfil	10/08/02	91	28	7	2	14	gravel, sand, silt	None - cattle grazing	Cattle grazing land	3	9.45	Lack of riparian zone, cattle trampling	
67	HWIP - Webber Property - Bailey Creek at N/E corner of property	5/24/01	261	18	9	0	16	Cobble, gravel, sand	Grasses, shrubs	meadow/field, agriculture	3	16.33		
67	HWIP - Webber Property - Bailey Creek at N/E corner of property	10/17/02	330	21	9	0	0	Cobble, gravel, sand	Grasses, shrubs	meadow/field, agriculture	3	14.96		

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
69	Innisfil Creek - 14th Line Bradford - West Gwillimbury	11/10/00	562	23	5	5	1	Cobble/gravel	Forest	Meadow/forest	3.2	10.58	Rural NPS, habitat degradation	Inconclusive
70	Innisfil Creek (tributary of) @ 6/7 Sdrd Rieve Blvd./3rd line Innisfil	6/03/99	200	51	12	2.67	49.4	gravel, sand		agriculture	3.35	3.35	Immediately downstream of Hwy 400	Unimpaired
71	Innisfil Creek @ Concession 4 Innisfil	11/12/97	285	34	12	0	37.3	gravel	cropped	agriculture	3.13	10.13	channelized, riparian vegetation stripped	Below potential
72	Innisfil Creek @ Highway 27	5/29/97	122	22	6	20.9	45.7	sand/gravel	lawn area	agriculture, rural residential	2.79	5.67		Impaired
		10/18/98							sand/silt	cropped	agricultural	2.32	11.61	
73	Innisfil Creek @ Sideroad 10 New	6/16/97	57	69	17	15.6	47.8	sand/silt	grasses, incised	agriculture	2.8	4.15	Channelized, irrigation,	Impaired

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Tecumseth								valley	e			erosive	
		10/17/97	99	69	17	15.6	47.8	sand/silt	grasses, incised valley	agriculture	2.8	2.63	Channelized, irrigation, erosive	Impaired
		5/22/98	51	52	13	11.5	87.6	sand, silt	grasses, narrow treed strip	agriculture	2.79	5.28	channelized, erosive, high turbidity	Impaired
		10/29/98	245	52	13	27.5	74.6	sand, silt	grasses, narrow treed strip	agriculture	2.79	5.96	channelized, erosive, high turbidity	Impaired
		5/11/99	262	42	6	28.8	70.3	Sand, silt	meadow	agriculture	2.77	4.13	Channelization, water extractions	Impaired
		11/01/99	74	17	1	74.3	25.7	Sand, silt	meadow	agriculture	2	2.56	Channelization, water extractions	Impaired
		5/16/00	5	9	1	38	43	Sand, silt	Narrow meadow buffer	agriculture	1.5	2.15	Channelization, nutrient	Impaired

enrichment,
 lack of
 base flow
 (excessive)

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
													warming)	
		10/16/00	36	25	2	2	78	Sand, silt	Narrow meadow buffer	agriculture	3	8.81	Channelization, nutrient enrichment, lack of base flow (excessive warming)	Impaired
		5/22/01	274	34	9	3	93	Sand, silt	Narrow meadow buffer	agriculture	3	6.55	Channelization, nutrient enrichment, lack of base flow (excessive warming)	
		10/25/01	73	24	4	14	13	Sand, silt	meadow	agriculture	3	3.98	Channelization, water extractions	
		10/25/02	63	18	8	11	41	Sand, silt	meadow	agriculture	3	9.34	Channelization, water extractions	
74	Innisfil Creek Tributary - 5/6 Sideroad Bradford West	11/10/00	63.5	17	3	61	10	Sand/Silt	Narrow grasses buffer	Agriculture	2	3.22	Degraded habitat, Rural NPS, Stormwater	Impaired

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Gwillimbury												impacts	
75	Innisfil Creek Tributary @ 10 sdrd/ 5th Line (North East Corner of Intersection)	10/18/01	78	26	14	0	1	cobble, gravel	grasses, trees	fields, forest, roadside	3.8	24.49	Channelization	
76	Innisfil Creek Tributary @ 13th Line - West of 5th sdrd, BWG	10/19/01	198	20	6	1	1	gravel, silt, some sand	grasses/spruce/maple/willow	fields and pasture	3	14.4		
77	Innisfil Creek Tributary @ 5th Line Innisfil - (East of 10th sdrd rd - not AT 10th sdrd)	10/18/01	3.5	12	10	8	33	sand	meadow (hydro corridor)	hydro corridor	2	1.98		
78	Keenansville Creek @ 10th Sdrd (west of Colgon)	11/09/01	167	30	12	1	5	sand, gravel	agriculture/forest		3.29	15.55		
141	Penville Creek @ Concession 10 New	10/18/96	19	19	2	7.4	65.8	sand	old field	agriculture	2.4	4.21		Impaired

Table B - 19: BioMap Scores for Innisfil Creek Subwatershed														
Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Tecumseth	5/23/97	59	21	6	3.76	52.2	sand, silt	old field	agriculture	2.2	3.53	stripped riparian vegetation, low base flow yield	Impaired
142	Penville Creek @ Concession 6 New Tecumseth	6/03/99	2567	57	9	6.59	77.1	gravel, silt/clay	grasses	agriculture	2.82	6.46	Municipal drain	Impaired

Lower Nottawasaga

Table B - 20: Fish Inventory in the Lower Nottawasaga Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT - OJ	RBT - Adult	BKT - YOY	BKT - OJ	BKT - Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Notawasaga River	Clearview	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib.	Clearview	September 2001	0	0	0	0	0	0	0	0	0	0	2	0	0
Nott. R. Trib.	Clearview	August 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib.	Clearview	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Nott. R.	Clearview	August	0	0	0	0	0	0	0	0	0	0	2	0	0

Table B - 20: Fish Inventory in the Lower Nottawasaga Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YO Y	RBT -OJ	RBT - Adult	BKT - YO Y	BKT -OJ	BKT - Adult	BNT - YO Y	BNT -OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Trib.		2001													
Nott. R. Trib.	Clearview	August 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R.	Clearview		0	0	2	0	0	0	0	0	0	0	2	2	2
Nottawasaga R. Trib.	Clearview	August 2001	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Clearview	August 2001	0	0	0	0	0	0	0	0	0	2	0	0	0
Nott. R. Trib. - Braden Cr.	Essa	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib. - Braden Cr.	Essa	August 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nott. R. Trib. - Braden Cr.	Essa	August 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R.	Essa	Summer 1996	0	0	1	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Essa	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Essa	September 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Essa	April 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. Trib.	Essa	June 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. Trib.	Essa	August 2001	2	0	0	0	0	0	0	0	0	1	0	0	1
Nottawasaga R. Trib.	Essa	August 2001	0	0	1	0	0	0	0	0	0	2	0	0	0
Nottawasaga R. Trib.	Essa	August 2001	0	2	2	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. Trib.	Essa	December 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. Trib.	Essa	Nov. 1998	0	2	0	0	1	0	0	0	0	0			
Nottawasaga R.	New Tecumseth	July 2000	0	2	0	0	0	0	0	0	0	0		1	0
Nottawasaga R.	New Tecumseth	August 2000	0	0	0	0	0	0	0	0	0	2		0	0

Table B - 20: Fish Inventory in the Lower Nottawasaga Subwatershed															
Watercourse	Municipality	Date	Coldwater Fish									Warmwater Fish			
			RBT - YOY	RBT - OJ	RBT - Adult	BKT - YOY	BKT - OJ	BKT - Adult	BNT - YOY	BNT - OJ	BNT - Adult	Sculpin	Northern Pike	Smallmouth Bass	Largemouth Bass
Nott. R. Trib.	Springwater	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib.	Springwater	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib.	Springwater	July 2000	0	0	0	0	0	0	0	0	0	0		0	0
Nott. R. Trib.	Springwater	July 2002	0	0	0	0	0	0	0	0	0	0		0	0
Nottawasaga R. Trib.	Springwater	July 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nottawasaga R. Trib.	Springwater	December 2001	0	0	0	0	0	0	0	0	0	0	2	0	0
Nottawasaga River	Springwater-Flos	November 2001	0	0	0	0	0	0	0	0	0	0	0	0	0
Nott. R. Trib.	Wasaga Beach	September 2000	0	0	0	0	0	0	0	0	0	0	0	0	0
Nott. R. Trib.	Wasaga Beach	September 2000	0	0	0	0	0	0	0	0	0	0		0	0

Table B - 21: BioMap Scores for the Lower Nottawasaga Subwatershed

Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
48	Crossland Drain @ 19/20 Sideroad Flos	5/27/99						silt, sand	emergent grass	agriculture				Impaired
49	Crossland Drain @ 19/20 Sideroad, Springwater (former Flos)	5/27/99	893	30	1	64	30	silt, muck	narrow grassed buffer	Agriculture	2.32	3.92	Municipal Drain	Impaired
79	Lamont Creek @ Highway 26 Stayner	10/22/96						gravel	parking lot	urban (commercial)	2.2			Impaired
		5/09/97	276	34	9	17	13	gravel	narrow vegetated buffer	urban (commercial/industrial)	3	8.99	Channelized	Below potential
		9/24/97	488	34	9	17	13	gravel	narrow vegetated buffer	urban (commercial, industrial)	3	11.66	Channelized	Below potential
80	Lamont Creek @ Spruce Street,	5/15/99	591	52	13	5	58	gravel	grasses, trees	agriculture	2.45	5.82	low base flow, flashy?	Impaired

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Sampling Site	Station Identifier (Report)	Date	Mean Sample Abundance	Total Richness	EPT Richness	% Worms	% Chiron	Substrate	Riparian Habitat	Adjacent Land Use	WQIq	WQId	Stream Health Constraints or Impairment Factors	Status
	Stayner													
131	Nottawasaga River @ Knox Road Wasaga Beach	9/16/97	108	22	8	9	25	gravel	forested valley	urban residential	3	9.42		Unimpaired
134	Nottawasaga River @ Sturgeon Creek Marina (Wasaga Beach)	11/15/99	211	40	5	15	31	Sand	Urbanized reach	Urban	2.67	5.13		Below potential
135	Nottawasaga River Mouth	5/31/00	22.5	20	1	14	48	Sand	Provincial Park	Urban residential, Provincial Park	2.75	6.48	Rural and Urban NPS, Habitat alterations	Impaired
166	Sturgeon Creek @ Simcoe Road 29	5/27/99	342	33	1	56	31	sand, silt, detritus	emergent grasses	agriculture	2.28	2.54	Municipal Drain	Impaired

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167	Sturgeon River @ Hillside - Springwater Townline	10/18/00	26.5	24	10	0	15	Sand	Meadow		3.2	9.47	Impoundment at Hillsdale	Below potential