

**APPENDIX G**  
**SIGNIFICANT WATERCOURSE MONITORING**  
**DATA, 1997–2008**



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**1997–2008**

Water quality data (where possible) were compared to the BC Ministry of Environment (MOE) guidelines for protection of freshwater aquatic life ([www.env.gov.bc.ca/wat/wq/wq\\_guidelines.html#approved](http://www.env.gov.bc.ca/wat/wq/wq_guidelines.html#approved)). Fecal coliform concentrations were compared to the MOE guideline for human health protection from recreational shellfish harvesting (there is no guideline for the protection of aquatic life). Nitrate-nitrogen and phosphorus concentrations were compared to the Canadian Council of Ministers of the Environment (CCME) Guidelines for protection of freshwater aquatic life ([http://www.ccme.ca/publications/ceqg\\_rcqe.html](http://www.ccme.ca/publications/ceqg_rcqe.html)). The following discusses each of the parameters monitored.

**Fecal Coliforms** are bacteria found in the gut and feces of warm-blooded animals. They are indicators of contamination from sewage, improper manure storage and human or animal presence. This contamination can adversely affect water quality and pose a risk to public health. Due to insufficient data, MOE has not set a guideline for the protection of aquatic life; therefore, MOE's guideline for recreational shellfish harvesting was used. As shellfish harvesting may not occur in these watercourses, the guideline is used as a conservative benchmark to indicate the presence of sewage or possible degradation of the water quality. The MOE guideline requires that the median fecal coliform concentration of a minimum of five samples collected within 30 days should not exceed 14 FC/100 mL. SHWP compares single samples to this guideline rather than median values. The less stringent SHWP guideline is also used and is intended for protection of humans from primary contact (e.g. swimming, kayaking).

**Temperature** impacts the growth of aquatic plants and animals as well as their resistance to disease, parasites and pollution. The temperature of creeks is usually higher in summer than in winter. Loss of overhead vegetation and stormwater flows originating from impervious surfaces can potentially increase temperatures. The maximum daily water temperature for the protection of freshwater aquatic life (for streams with unknown fish distribution) is 19°C.

**pH** is a measure of how acidic or basic the water is. The lower the pH the more acidic it is and the higher the pH the more basic or alkaline it is. Water that is more acidic can increase the solubility of heavy metals making the water more toxic to aquatic life. The guideline for the protection of freshwater aquatic life ranges from 6.5 to 9.0.

**Dissolved Oxygen** is a measure of the concentration of dissolved oxygen in water and indicates the amount of oxygen available for aquatic life. The MOE guideline states that a minimum of 6 mg/L is needed for the protection of freshwater aquatic life. A decrease in oxygen concentrations in a creek can be a result of an increase in organic wastes such as leaves and other vegetation falling in the watercourse, as well as fertilizers and fecal matter from humans and animals. Organic wastes can increase aquatic plant growth (also caused by temperature increases) and as these plants die they are consumed by bacteria which also consume oxygen. This causes a decrease in dissolved oxygen levels.

**Specific Conductance** is a measure of the ability of water to conduct an electric current. The greater the content of certain dissolved materials in the water, the more current the water can carry. The dissolved materials can indicate the presence of contaminants. Sewage can increase conductance due to input of chloride, phosphate and nitrate. The MOE has not developed a guideline for specific conductance as levels for natural waters are highly variable and range between 50 and 1500 µS/cm. Coastal streams in BC often have specific conductivity values near 100 µS/cm (MELP, 1998).

**Turbidity** is a measure of the degree to which light is scattered or absorbed by suspended particulate material and soluble coloured compounds in water. Materials such as clay, silt, finely divided organic and inorganic matter, plankton and other microscopic organisms can negatively impact spawning beds, smother benthic habitat, clog or damage sensitive gill structures and potentially interfere with feeding patterns of aquatic organisms. The guideline for the protection of freshwater aquatic life is eight nephelometric turbidity units (NTU) for watercourses with ambient levels below 80 NTU.

**Nitrogen** is formed when ammonia or other nitrogen sources combine with oxygenated water. It accumulates in the environment as a result of poorly- or untreated sewage, runoff from over-application of fertilizers, animal waste (including birds and fish), decaying plant matter and car exhausts. It is a natural constituent of plants. High nitrate levels can inhibit plant growth, deplete oxygen levels and cause stress in fish. No provincial guideline is currently available for nitrate-nitrogen ( $\text{NO}_3\text{-N}$ ); therefore, the CCME guideline of 2.95 mg/L nitrate-nitrogen (equivalent to 13 mg/L nitrate) for the protection of freshwater aquatic life was used.

**Phosphorus** is an essential nutrient for plants and animals, but excessive amounts in waterways can lead to overgrowth of aquatic plants and algal blooms (eutrophication) resulting in the depletion of oxygen in water. Phosphorus can enter waterways through natural processes, sewage, detergents, organic pesticides and fertilizers. There is no provincial guideline available; therefore, the CCME guideline for protection of aquatic life for prevention of eutrophication was used (0.035 to 0.1 mg/L).

### Sampling of Major Watercourses (for the period of Jan 01, 1997 to Dec 31, 2008)

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
<b>Alderbrook Stream</b>												
<b>2042A-1</b>												
			Sep 27, 2001		110	12.2	7.10	5.67	1.0			
			Apr 04, 2002	100	10	8.5	7.55	11.77	142.5			
			Sep 24, 2002	5	30	12.1	6.98	5.73	154.0			
			Mar 10, 2003		40	9.2	7.77	10.30	137.0	10.00		
			Sep 18, 2003	40	1600	11.9	7.51	9.35	140.0	27.50		
			Mar 04, 2004	200	10	7.9	7.76	11.53	110.9	7.90		
			Oct 01, 2004									
			May 20, 2005		100	13.5	7.85	9.10	1.1	17.20	0.1	0.08
			Aug 16, 2005	10	35000	14.2	7.85		534.0	1.07	0.2	0.11
			Apr 26, 2006	80	20	9.2	7.80	9.74	15.2	6.03	0.5	0.09
			Sep 08, 2006	5	240	12.6	7.90	7.05	178.5	8.47	0.1	0.11
			Mar 29, 2007	170	10	8.5	7.46	12.05	179.0	5.86	0.6	0.01
			Sep 24, 2007	5	8300	10.4	7.63	10.02	219.0	3.60	0.9	0.01
			Mar 27, 2008	120	120	6.2	7.39	12.59	200.0	93.30		0.01
			Jul 24, 2008	10	2100	12.4	7.66	9.37	248.0	6.02	0.4	0.02
<b>2042A-2</b>												
			Sep 27, 2001		30	11.3	7.34	6.65	178.0			
			Apr 04, 2002	80	40	9.4	7.32	11.63	206.6			
			Sep 24, 2002	10	70	12.4	6.14	9.88	342.1			

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 10, 2003		10	9.5	7.16	10.63	115.2	7.99		
			Sep 18, 2003	40	7300	14.1	6.82	9.48	100.0	3.04		
			Mar 04, 2004	100	< 10	8.7	7.41	11.18	111.3	12.60		
			Oct 01, 2004									
			Aug 16, 2005	10	10	13.1	7.25	12.60	172.0	4.28	5.0	0.07
			Apr 26, 2006	1	< 1	9.5	6.69	4.02	205.8	6.13	0.4	0.10
			Sep 08, 2006									
			Mar 29, 2007	85	10	9.0	7.25	11.75	184.0	4.79	0.9	0.03
			Sep 24, 2007	2								
			Mar 27, 2008	100	160	6.4	6.93	11.70	182.0	188.00		0.05
			Jul 24, 2008									
	<b>2042A-3</b>											
			Sep 27, 2001		40	11.2	7.35	2.86	1.0			
			Apr 04, 2002	30	10	8.9	6.70	5.25	108.7			
			Mar 10, 2003	60	10	10.5	6.67	8.58	111.1	12.70		
			Sep 18, 2003	0								
			Mar 04, 2004	60	10	7.5	6.79	9.22	50.8	4.39		
			Oct 01, 2004	20	30	10.9	6.44	2.55	5.1	31.40		
			Aug 16, 2005	0								
			Apr 26, 2006	10	40	8.7	7.06	3.14	303.5	1.55	1.2	0.08
			Sep 08, 2006									

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 29, 2007	15	1	8.4	6.85	7.36	166.0	1.96	0.6	0.04
			Sep 24, 2007									
			Mar 27, 2008	100	70	5.2	6.80	9.87	132.0	6.61	1.1	0.03

<b>Ayum Creek</b>
2036-1

			Nov 20, 1997	2000	10							
			Jan 16, 1998	3500	10							
			Jul 02, 1998		10							
			Jan 20, 1999		10							
			Jul 27, 1999		80							
			Feb 24, 2000		10							
			Aug 24, 2000	3	10							
			Mar 29, 2001		1	6.2	7.31	11.70	31.0			
			Sep 27, 2001		40	12.8	6.73	7.80	91.0			
			Mar 05, 2002		10	6.4	6.85	13.12	27.7			
			Sep 24, 2002		10	12.9	6.74	7.35	2.3			
			Mar 13, 2003		10	6.9	6.89	12.55	26.0	2.54		
			Mar 04, 2004	300	10	6.1	7.47	12.88	29.1	0.48		
			Jun 28, 2004	0								
			May 31, 2005	150	30	12.6	6.75	13.15	52.4	0.28	1.0	0.10

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Aug 15, 2005	10	< 10	14.5	7.25	6.16	89.2	0.51	1.1	0.06
			Apr 27, 2006	300	< 1	8.5	7.32	10.98	57.9	0.32	0.9	0.01
			Sep 07, 2006	5	< 1	13.8	7.00	4.61	97.8	0.27	1.0	0.01
			Apr 04, 2007	250	10	6.4	6.61	13.11	43.0	0.36	1.0	0.02
			Sep 21, 2007		< 1	12.4	7.16	7.74	86.0	0.35	0.4	0.12
			Mar 27, 2008	1000	< 1	4.9	7.19	13.16	54.0	0.46	1.7	0.07
			Jul 24, 2008									
	<b>2036-2</b>											
			Mar 29, 2001	150	1	6.0	7.30	7.83	31.0			
			Sep 27, 2001	0								
			Mar 05, 2002	30	10	6.2	7.49	10.89	4.1			
			Sep 24, 2002	0								
			Mar 13, 2003	90	10	6.8	7.03	12.04	35.0	1.79		
			Sep 15, 2003	0								
			Mar 04, 2004									
			Jun 28, 2004	0								
			May 31, 2005	0								
			Aug 15, 2005	0								
			Apr 27, 2006	0								
			Sep 07, 2006	0								
			Apr 04, 2007	20	1	6.0	6.90	11.53	55.0	0.19	0.9	0.04
			Sep 21, 2007	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 27, 2008		< 1							
			Jul 24, 2008	0								
	<b>2036-3</b>											
			Mar 29, 2001	100	1	5.8	7.05	36.60	12.0			
			Sep 27, 2001	0								
			Mar 05, 2002		10	7.4	6.71	8.41	36.6			
			Sep 24, 2002	0								
			Mar 13, 2003		10	7.5	6.02	3.90	41.1	4.34		
			Sep 15, 2003	0								
			Mar 04, 2004									
			Jun 28, 2004									
			May 31, 2005	60	< 10	10.4	7.43	14.44	88.5	3.74	0.3	0.08
			Aug 15, 2005	30	< 10	13.0	7.44	9.86	113.0	2.65	0.5	0.20
			Apr 27, 2006	0								
			Sep 07, 2006	25	< 1	11.1	6.98	8.33	113.3	1.45	0.6	0.47
			Apr 04, 2007	45	1	6.2	7.05	12.44	75.0	1.88	0.7	0.02
			Sep 21, 2007	30	1	10.7	7.48	9.80	113.0	2.50	0.7	0
			Mar 27, 2008	50	< 1	3.4	7.10	13.07	84.0	5.14	0.5	0.09
			Jul 24, 2008	20	40	11.9	7.69	9.75	104.0	3.13	0.6	0.04

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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<b>Broom Hill Stream</b>
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2102-1

			Oct 23, 1997	8	20							
			Jan 15, 1999	30	50							
			Jul 26, 1999	0								
			Feb 28, 2000	50	10							
			Aug 23, 2000	0								
			Feb 20, 2001	40	3							
			Mar 26, 2001	40	6	10.2	7.44	10.08	22.0			
			Sep 28, 2001	0								
			Apr 05, 2002	30	10	8.8	7.37	10.24	90.7			
			Jul 24, 2002	0								
			Mar 11, 2003		10	7.7	6.59	11.70	45.0	12.20		
			Sep 15, 2003	0								
			Feb 26, 2004	80	10	7.5	6.98	10.72	55.4	2.96		
			Jun 24, 2004	0								
			May 31, 2005	5	540	13.8	7.57	11.94	55.1	4.93	3.9	0.03
			Aug 12, 2005	0								
			Apr 24, 2006	35	< 1	10.6	7.08	9.53	130.6	4.34	1.1	0.03
			Sep 08, 2006	0								
			Mar 30, 2007	70	130	9.1	7.04	11.45	100.0	2.22	0.7	0.03

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Sep 21, 2007	0								
			Mar 28, 2008	80	40	6.2	6.80	11.50	77.0	15.20	0.4	0.42
			Jul 24, 2008	0								
	<b>2102-2</b>											
			Mar 26, 2001	12	1	6.9	7.13	3.86	41.0			
			Sep 28, 2001	0								
			Apr 05, 2002	0								
			Jul 24, 2002	0								
			Mar 11, 2003		40	7.6	6.59	9.54	44.7	40.30		
			Sep 15, 2003	0								
			Feb 26, 2004									
			Jun 24, 2004	0								
			May 31, 2005									
			Aug 12, 2005	4	< 10	11.0	7.03	8.60	197.6	0.70	0.8	0.09
			Apr 24, 2006	10	< 1	9.5	7.13	9.17	147.5	1.30	1.0	0.02
			Sep 08, 2006	0								
			Mar 30, 2007	50	10	7.9	6.88	10.32	95.0	0.91	0.8	0.03
			Sep 21, 2007	0								
			Mar 28, 2008	80	20	6.4	6.85	10.70	85.0	79.60		0.03
			Jul 24, 2008	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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Ela Stream
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2101-1

			Oct 23, 1997	100	10							
			Jan 15, 1999	100	30							
			Jul 26, 1999	4	20							
			Feb 28, 2000	150	10							
			Aug 23, 2000	1	10							
			Feb 20, 2001	100	28							
			Oct 24, 2001	60	100							
			Apr 10, 2002	60	10	11.0	7.24	10.41	112.1			
			Sep 24, 2002		10	12.8	8.08	1.87	14330.0			
			Mar 11, 2003	80	150	8.0	6.80	10.33	225.0	10.30		
			Sep 15, 2003	0								
			Feb 26, 2004	100	50	8.2	7.19	10.02	10240.0	7.04		
			Jun 24, 2004	0								
			Apr 05, 2005	350	140	7.7	7.00	11.22	150.5	3.45	0	0.10
			Aug 12, 2005									
			May 04, 2006	10	10	15.3	6.99	9.86	5220.0	4.37	0.3	0.01
			Sep 08, 2006									
			Mar 30, 2007	50	30	9.8	6.83	11.11	302.0	3.65	0.2	0.03
			Sep 21, 2007	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 28, 2008	300	10	6.7	6.58	11.90	1123.0	4.02	1.7	0.00
			Jul 24, 2008	2	< 1	13.2	7.20	5.09	2772.0	10.60	0	0.06

<b>Gillespie Creek</b>
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2029-1

			Nov 20, 1997	180	10							
			Jan 19, 1998	480	30							
			Feb 15, 1998	50	10							
			Jul 07, 1999	40	40							
			Mar 21, 2000	150	10							
			Aug 24, 2000	1	80							
			Feb 27, 2001	40	1							
			Aug 16, 2001	0								
			Apr 11, 2003	100	10	8.5	6.98	10.84	58.3	1.45		
			Jul 29, 2003	0								
			Apr 05, 2004	80	10	7.9	6.98	11.19	50.7	1.80		
			Jul 13, 2004									
			Apr 22, 2005	60	< 10	8.3	6.89	12.12	109.2	2.05	0.8	0.06
			Aug 12, 2005									
			Apr 22, 2006	45	< 1	8.4	6.69	10.26	275.2	1.32	0.6	0.06
			Jul 27, 2006	3	720	22.3	6.75	2.90	3.6	17.80	0.5	0.15

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Feb 26, 2007	120	1	6.4	6.97	12.40	102.0	1.14	0.9	0.08
			Sep 24, 2007									
			Mar 28, 2008	100	< 1	5.6	7.25	11.91	575.0	2.41	0.4	0.02
			Jul 29, 2008	5	530	12.3	6.60	5.91	177.0	2.05	0.7	0.58

<b>Grouse Brook</b>
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**2001C-1**

			Oct 30, 1997	480	2600							
			Jan 19, 1998	120	10							
			Jul 06, 1998	0								
			Jan 21, 1999	200	50							
			Jul 28, 1999	0								
			Mar 29, 2001	50	9							
			Aug 10, 2001	0								
			Apr 23, 2003	40	10							
			Sep 29, 2003	0								
			Mar 30, 2004	100	< 10	10.5	7.64	11.45	142.6	4.14		
			Jul 30, 2004	0								
			Apr 15, 2005	50	30	8.5	6.75	11.00	110.6	1.80	1.0	0.05
			Aug 15, 2005	0								
			May 08, 2006									
			Sep 06, 2006	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 01, 2007	60	20	3.1	7.01	13.40	126.0	1.46	1.1	0.03
			Aug 17, 2007	0								
			Feb 21, 2008	40	2	5.0	6.83	9.98	132.0	1.15	0.6	0.02
			Jul 29, 2008	5	850	15.2	6.80	9.07	113.0	2.98	0	0.00

<b>Kemp Lake Stream</b>
<b>2103-1</b>

			Oct 23, 1997	600	10							
			Jan 15, 1999	600	40							
			Jul 26, 1999	2	90							
			Feb 28, 2000	300	10							
			Aug 23, 2000	1	60							
			Feb 20, 2001	250	1							
			Mar 26, 2001		1	9.3	7.51	10.54	56.0			
			Sep 27, 2001	0								
			Apr 05, 2002		10	9.8	7.22	11.85	47.9			
			Jul 24, 2002	0								
			Mar 11, 2003		30	7.7	7.07	12.44	46.7	2.43		
			Sep 15, 2003	0								
			Feb 26, 2004	200	10	6.8	7.35	12.42	42.6	3.13		
			Jun 26, 2004									
			May 31, 2005	100	180	14.2	7.44	13.92	77.4	0.28	0.7	0.13
			Aug 12, 2005	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Apr 24, 2006	100	< 1	11.0	7.36	10.65	39.2	2.82	1.1	0.04
			Sep 08, 2006	0								
			Mar 30, 2007		1	9.4	7.28	11.96	62.0	1.65	0.6	0.01
			Sep 21, 2007	0								
			Mar 28, 2008	1000	10	7.0	7.16	11.84	71.0	2.20	0.3	0.01
			Jul 24, 2008									
	<b>2103-2</b>											
			Mar 26, 2001		1	10.0	7.03	8.10	61.0			
			Sep 27, 2001	5	40	10.3	6.69	9.42	71.0			
			Apr 05, 2002		10	9.8	6.72	11.21	47.8			
			Jul 24, 2002	0								
			Mar 11, 2003		10	7.6	7.07	12.29	45.9	1.84		
			Sep 15, 2003	0								
			Feb 26, 2004									
			Jun 26, 2004									
			May 31, 2005									
			Aug 12, 2005									
			Apr 24, 2006	75	< 1	10.5	6.83	10.19	70.2	1.92	1.1	0.05
			Sep 08, 2006	0								
			Mar 30, 2007	200	10	9.3	7.26	10.89	63.0	1.42	0.6	0.02

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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Sep 21, 2007 0

Mar 28, 2008 10

Jul 24, 2008 0

<b>Nott Brook</b>
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2100-1

Oct 27, 1997 300 81

Aug 26, 1998 20

Jan 22, 1999 800 90

Jul 26, 1999 210

Feb 28, 2000 120

Aug 23, 2000 40

Feb 20, 2001 32

Oct 24, 2001 500

Apr 10, 2002 70 9.7 7.41 10.26 107.6

Sep 26, 2002 20 13.1 8.67 18.30 650.0

Mar 10, 2003 30 7.6 7.14 11.09 88.8 6.10

Sep 15, 2003 0

Mar 26, 2004 100 30 8.2 7.19 10.02 10.2 7.04

Jun 24, 2004 25 1100 14.3 7.48 6.33 60.0 11.90

Apr 05, 2005 80 8.0 7.30 9.82 152.2 7.22 1.1 0

Aug 12, 2005

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Apr 24, 2006	70	1400	9.4	7.35	10.20	169.6	11.50	2.7	0.05
			Sep 08, 2006	0								
			Mar 30, 2007	100	30	8.7	7.25	11.07	142.0	4.27	1.1	0.02
			Sep 21, 2007	0								
			Mar 28, 2008	1000	120	6.1	7.12	11.50	166.0	6.28	1.3	0.01
			Jul 24, 2008	0								

**Saseenos/Lannon Creek**

2039-1

			Nov 27, 1997	300	120							
			Jan 15, 1998	750	70							
			Jun 30, 1998	70	270							
			Jan 19, 1999	800	20							
			Jul 26, 1999	70	190							
			Feb 24, 2000	800	10							
			Aug 24, 2000	20	730							
			Feb 20, 2001		46							
			Dec 12, 2001		320							
			Apr 10, 2002	100	40	10.0	7.28	10.85	102.1			
			Sep 27, 2002	20	100	14.5	8.45	9.97	23.8			
			Mar 10, 2003		10	8.4	6.98	11.53	134.4	3.64		
			Sep 15, 2003	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Apr 08, 2004	100	20	11.6	7.08	11.06	82.1	3.79		
			Jun 28, 2004	0								
			Apr 21, 2005	200	30	10.0	7.36	11.02	106.3	3.35	1.1	0.08
			Apr 27, 2006	80	40	9.9	7.48	10.60	150.0	4.43	3.1	0.03
			Sep 08, 2006	10	130	12.7		6.89	167.1	3.53	1.6	1.07
			Mar 01, 2007	200	40	4.7	7.20	13.27	88.0	4.07	0.7	0.06
			Sep 24, 2007	50	400	10.7	7.51	10.11	525.0	3.32	1.6	0.07
			Mar 27, 2008	300	650	5.6	7.26	12.40	102.0	10.00	1.3	0.04
			Jul 21, 2008	25	200	14.0	7.79	9.81	1177.0	3.63	2.0	0.03

<b>Sooke River</b>
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2043-1

			Nov 24, 1997		10							
			Jan 16, 1998		10							
			Jul 02, 1998		210							
			Jan 20, 1999		10							
			Jul 27, 1999		50							
			Mar 02, 2000		10							
			Sep 07, 2000		20							
			Feb 20, 2001		1							
			Apr 19, 2001		5	9.9	7.15	9.69	62.0			

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Sep 27, 2001		470	14.5	6.69	6.57	64.0			
			Apr 04, 2002		10	8.0	7.14	12.44	52.1			
			Sep 26, 2002		10	12.5	6.98	10.30	36.3			
			Mar 12, 2003		60	6.8	7.05	12.27	35.0	2.89		
			Sep 18, 2003		20	14.3	7.30	7.20	50.0	0.80		
			Mar 04, 2004		70	5.5	7.61	12.82	34.6	1.43		
			Jun 24, 2004		20	15.6	7.19	10.30	50.0	0.44		
			May 25, 2005		10	14.6	7.60	14.78	48.7	0.50	0.8	0.03
			Aug 15, 2005		70	21.1	8.70	8.83	25220.0	1.05	0.3	0.07
			Apr 20, 2006		30	9.3	7.21	10.23	114.9	0.40	0.5	0.07
			Sep 07, 2006		40	19.2		9.50	10700.0	1.00	0.2	0.02
			Apr 16, 2007		40	8.4	7.07	12.18	43.0	1.14	0.6	0.04
			Aug 29, 2007		100	19.4	8.48	10.38	11111.0	0.59	0.1	0.01
			Mar 18, 2008		< 1	7.6	6.80	11.74	36.0	0.90	0.9	0.02
	<b>2043-1</b>											
			Jul 21, 2008		40	19.3	7.84	9.52	4352.0	0.49	0.3	0.03
	<b>2043-1A</b>											
			Apr 10, 2002		20	8.5	7.24	11.65	27.4			
			Sep 26, 2002	40	40	12.4	7.14	9.32	543.0			
			Sep 18, 2003	0								

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 04, 2004	500	90	6.8	7.48	12.11	36.2	1.61		
			Jun 24, 2004	90	80	15.0	7.21	12.47	160.0	0.60		
			May 25, 2005	1000	50	14.3	7.64	11.82	58.3	0.96	0.8	0.01
			Aug 15, 2005	50	< 10	18.8	8.07	5.70	2316.0	0.65	0.3	0.03
			Apr 20, 2006	500	40	9.9	7.52	11.18	51.5	0.97	0.7	0.03
			Sep 07, 2006	60	10	15.3		8.74	7610.0	1.02	0	0.02
			Apr 16, 2007		20	8.4	6.82	12.28	42.0	1.15	0.2	0.09
			Aug 29, 2007	40	1	15.6	7.64	10.28	470.0	0.53	0.6	0
			Mar 18, 2008	2000	< 1	6.7	6.84	12.80	40.0	1.02	0.7	
			Jul 21, 2008	200	40	16.4	8.17	10.29	354.0	0.46	0.4	0.02
	<b>2043-1B</b>											
			Apr 10, 2002		20	9.2	7.18	10.81	39.9			
			Sep 26, 2002	0								
			Sep 18, 2003	0								
			Mar 04, 2004	100	10	7.5	7.01	11.42	59.8	1.59		
			Jun 24, 2004	60	390	12.4	6.78	11.86	90.0	1.07		
			May 25, 2005	150	3500	13.7	7.05	10.32	0.9	1.35	2.5	0.05
			Aug 15, 2005	30	40	12.7	7.08	9.61	128.8	1.14	1.7	0.05
			Apr 20, 2006	150	30	9.6	7.25	10.56	101.8	1.17	1.7	0.05
			Sep 07, 2006	20	40	11.3	7.40	9.10	130.6	2.83	1.5	0.02

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Apr 16, 2007	70	10	8.2	6.86	11.03	83.0	1.70	1.3	0
			Aug 29, 2007	45	130	12.2	7.22	9.24	123.0	2.50	1.9	0.03
			Mar 18, 2008	200	< 1	7.8	6.68	11.50	82.0	1.38	0.8	0.01
			Jul 21, 2008	50	290	12.2	6.78	9.38	120.0	1.03	1.6	0.03
	<b>2043-2</b>											
			Apr 19, 2001		1	7.2	6.98	11.71	19.0			
			Sep 27, 2001		10	12.6	6.61	10.42	50.0			
			Apr 04, 2002		10	5.8	7.03	13.28	20.0			
			Sep 26, 2002	50	10	12.8	6.55	9.73	37.5			
			Mar 12, 2003		30	6.3	6.51	12.59	19.3	1.07		
			Sep 18, 2003	100	10	13.2	7.02	8.78	40.0	0.35		
			Mar 04, 2004	500	10	5.4	7.36	12.67	21.6	0.36		
			Jun 24, 2004	100	10	14.3	6.95	12.06	40.0	0.44		
			May 25, 2005	800	130	11.4	6.69	13.64	43.4	0.37	0.2	0.03
			Aug 15, 2005	60	10	15.0	7.06	10.30	49.4	0.35	1.1	0.15
			Apr 20, 2006	500	< 1	8.0	7.30	11.16	1.6	0.35	0.9	0.05
			Sep 07, 2006	70	320	13.8	7.27	9.05	49.2	83.40	0	0.30
			Apr 16, 2007	250	10	7.3	7.04	12.74	37.0	0.50	0.8	0.02
			Aug 29, 2007	250	< 1	14.4	6.63	8.87	46.0	0.25	0.7	0.04
			Mar 18, 2008	1000	< 1	5.5	6.36	13.09	34.0	0.27	0.8	0.02
			Jul 21, 2008	800	10	14.3	7.15	10.11	46.0	0.20	0.5	0.04

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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**2043-3**

			Apr 19, 2001		1	6.5	6.97	11.66	28.0			
			Sep 27, 2001		10	11.1	6.78	10.44	60.0			
			Apr 04, 2002		10	5.7	7.62	12.90	19.7			
			Sep 26, 2002	10	10	11.9	6.84	9.78	48.8			
			Mar 12, 2003		10	6.6	6.71	12.40	17.7	0.65		
			Sep 18, 2003	0								
			Jun 24, 2004	80	10	14.6	7.21	9.38	50.0	2.58		
			May 25, 2005	400	120	10.8	7.13	11.91	43.7	0.47	1.1	0.16
			Aug 15, 2005	40	< 10	14.7	7.48	8.00	59.9	0.32	1.0	0.24
			Apr 20, 2006	300	< 1	7.8	7.48	10.65	42.3	0.26	0.7	0.07
			Sep 07, 2006	30	< 1	12.6	7.27	9.47	62.2	0.25	1.2	0.01
			Apr 16, 2007	300	1	6.9	6.62	12.94	33.0	0.38	0.8	0
			Aug 29, 2007	0								
			Mar 18, 2008	1000	< 1	5.5	6.77	13.19	39.0	0.19	0.7	0.01
			Jul 21, 2008	40	< 1	14.7	7.78	9.94	57.0	0.10	0.9	0.04

**2043-4**

			Apr 19, 2001		1	7.2	6.82	11.57	27.0			
			Sep 27, 2001		60	15.2	6.88	6.97	73.0			
			Apr 04, 2002		10	5.7	7.25	12.98	15.4			
			Sep 26, 2002		10	14.6	7.03	10.69	74.0			

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 12, 2003		20	5.5	6.45	13.38	13.9	5.40		
			Sep 18, 2003	300	20	14.5	7.38	7.00	40.0	0.60		
			Mar 04, 2004		20	11.4	15.30	24.51	41.8	0.86		
			Jun 24, 2004		10	18.8	7.35	10.04	50.0	0.88		
			May 25, 2005		10	11.5	7.46	11.62	26.8	0.61	0.8	0.10
			Aug 15, 2005	1000	10	19.3	7.95		58.3	0.81	0.7	0.03
			Apr 20, 2006	1000	< 1	7.6	7.44	11.37	15.3	0.42	0.8	0.05
			Sep 07, 2006		< 1	16.3	7.47	9.47	58.0	0.46	0.8	0
			Apr 16, 2007		1	6.8	6.52	13.07	169.0	0.50	1.0	0.03
			Aug 29, 2007		< 1	15.9	7.64	9.47	46.0	0.28	0.8	0.03
			Mar 18, 2008		< 1							
			Jul 21, 2008		10	18.3	8.28	9.85	53.0	0.27	0.8	0.03

**Throup Stream**

**2046-1**

Nov 24, 1997	200	240
Jan 16, 1998	650	710
Jul 02, 1998	80	210
Jan 22, 1999	600	140
Jul 27, 1999	75	100
Feb 19, 2001	150	28
Oct 22, 2001	60	830

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Apr 10, 2002	80	10	11.0	7.33	11.67	704.7	0		
			Sep 26, 2002	10	50	11.5	7.21	9.32	1124.0			
			Apr 10, 2003	80	10	10.7	7.19	9.85	216.3	7.61		
			Sep 16, 2003	10	70	11.3	7.26	9.90	764.0	4.03		
			Apr 08, 2004	60	10	13.0	7.00	9.69	810.0	4.87		
			Jun 28, 2004	60	320	13.6	7.34	9.69	2290.0	4.73		
			Apr 21, 2005	50	< 10	11.1	7.30	10.00	356.9	4.59	2.0	0.08
			Aug 12, 2005	30	370	13.9	7.66		1463.0	5.34	0.9	0.09
			Apr 26, 2006		10	8.8	7.23	8.30	1051.0	7.18	1.1	0.10
			Sep 08, 2006	15	60	12.6	7.80	8.30	8000.0	4.47	0.5	0.13
			Mar 29, 2007	50	10	10.8	7.07	11.31	223.0	4.50	1.8	0.01
			Aug 29, 2007	20	40	13.8			2916.0	6.96	0.5	0.06
			Mar 27, 2008	200	290	6.5	7.13	11.90	358.0	11.00	0.6	0.01
			Jul 24, 2008	30	470	13.5	7.65	8.44	1153.0	6.62	1.3	0.05

**Veitch Creek**

2030-1

			Nov 20, 1997	2000	60							
			Jan 19, 1998	5000	25							
			Jan 22, 1999		30							
			Jul 07, 1999	150	30							

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 21, 2000		10							
			Aug 24, 2000	30	20							
			Feb 27, 2001		7							
			Mar 26, 2001		14	7.0	7.57	12.39	59.0			
			Sep 27, 2001		40	10.7	7.68	9.95	160.0			
			Apr 04, 2002		10	5.5	7.35	13.80	49.1			
			Sep 24, 2002	75	80	11.4	7.42	9.98	108.6			
			Mar 03, 2003		10	7.4	7.27	12.62	41.4	3.10		
			Sep 15, 2003	30	10	12.7	7.77	7.83	167.0	1.31		
			Mar 04, 2004	700	10	6.3	7.89	11.33	51.6	0.64		
			Jun 28, 2004	90	60	14.6	7.63	10.18	111.6	0.80		
			Apr 21, 2005	1000	< 10	8.3	7.53	11.60	76.5	0.86	1.1	0.07
			Aug 15, 2005	20	70	14.6	7.97	10.15	259.4	0.93	0.5	0.02
			Apr 26, 2006		20	8.7	7.35	9.12	95.4	0.94	0.9	0.04
			Sep 12, 2006	15	40	12.8	5.90	9.57	35.3	0.92	0.5	0.05
			Mar 26, 2007		10	6.9	7.45	12.96	60.0	1.21	0.3	0.49
			Sep 21, 2007	30	< 10	11.6	7.42	10.15	138.0	0.59	0.8	2.00
			Feb 21, 2008		3	4.5	7.49	12.80	83.0	0.64	0.5	0.04
			Jul 25, 2008	30	10	13.8	7.60	10.59	137.0	0.65	0.5	0.02

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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2030-2

			Mar 26, 2001		27	7.4	7.58	11.58	59.0			
			Sep 27, 2001		40	11.2	6.97	7.67	111.0			
			Apr 04, 2002		10	5.5	7.35	13.34	48.4			
			Sep 24, 2002	0								
			Mar 03, 2003		20	7.4	7.77	12.16	40.6	2.07		
			Sep 15, 2003	0								
			Mar 04, 2004	500	10	6.1	7.58	11.89	52.2	0.73		
			Jun 28, 2004		50	15.8	6.86	6.92	226.6	0.38		
			Apr 21, 2005	400	40	8.3	7.30	11.40	74.9	0.73	0.7	0.15
			Aug 15, 2005	0								
			Apr 26, 2006	300	110	8.9	7.12	10.64	93.4	0.60	0.8	0.07
			Sep 12, 2006	0								
			Mar 26, 2007		10	6.7	7.18	12.63	59.0	1.08	0.7	0.01
			Sep 21, 2007									
			Feb 21, 2008		5	4.5	6.54	12.39	82.0	0.68	0.6	0.02
			Jul 25, 2008									

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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**2030-3**

			Mar 26, 2001	180	101	6.6	7.54	9.95	42.0			
			Apr 04, 2002	100	10	5.4	7.38	13.40	16.9			
			Sep 24, 2002	0								
			Mar 03, 2003		10	7.0	7.02	12.33	30.2	0.91		
			Sep 15, 2003	0								
			Mar 04, 2004	200	10	5.8	6.89	12.75	35.6	0.42		
			Jun 28, 2004	0								
			Apr 21, 2005	300	< 10	8.3	7.28	11.53	53.7	0.73	1.5	0.01
			Aug 15, 2005	0								
			Apr 26, 2006	150	< 1	8.4	7.15	11.03	65.5	0.27	0.8	0.05
			Sep 12, 2006	0								
			Mar 26, 2007	400	10	6.5	6.69	13.05	42.0	0.32	0.5	0.05
			Sep 21, 2007	0								
			Feb 21, 2008	800	5	4.7	6.60	12.80	56.0	0.68	0.5	0.04
			Jul 25, 2008	0								

**2030-4**

			Mar 26, 2001		22	7.2	7.59	11.37	62.0			
			Sep 27, 2001		20	10.4	6.81	7.35	121.0			
			Apr 04, 2002	250	10	5.3	6.83	13.21	51.3			

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Sep 24, 2002		10	14.5	6.55	6.67	103.6			
			Mar 03, 2003		10	7.2	6.94	12.07	43.1	2.81		
			Sep 15, 2003	0								
			Mar 04, 2004	300	10	0.8	7.44	12.44	54.7	0.83		
			Jun 28, 2004	20	30	14.5	6.88	7.90	88.0	0.65		
			Apr 21, 2005	300	20	8.2	6.55	11.18	79.3	0.84	1.0	0.10
			Aug 15, 2005	1	< 10	13.4	6.49	4.63	84.6	0.78	0.7	0.18
			Apr 26, 2006	80	60	9.0	7.39	10.41	97.7	0.63	0.8	0.04
			Sep 12, 2006	0								
			Mar 26, 2007	300	< 10	6.6	7.13	12.62	63.0	1.21	0.9	0.02
			Sep 21, 2007	30	10	11.2	6.80	7.15	105.0	0.32	0.9	0.03
			Feb 21, 2008	2000	7	4.2	6.73	12.40	88.4	1.25	0.6	0.02
			Jul 25, 2008									

**Wildwood Creek**

2027-1

			Nov 20, 1997	400	10							
			Jan 19, 1998	3500	10							
			Feb 15, 1999	500	10							
			Jul 07, 1999		160							

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Mar 21, 2000		10							
			Aug 24, 2000		10							
			Feb 27, 2001		1							
			Apr 19, 2001		1	11.1	7.19	9.99	70.0			
			Oct 03, 2001		10	11.3	7.29	7.43	96.0			
			Apr 04, 2002		10	9.9	7.24	10.89	61.3			
			Sep 25, 2002	20	10	10.8	6.97	5.65	87.3			
			Mar 14, 2003	100	10	7.5	6.93	11.78	56.7	3.07		
			Sep 15, 2003	0								
			Feb 27, 2004	200	< 10	7.0	7.33	10.95	58.5	1.15		
			Jul 30, 2004									
			May 25, 2005	300	20	12.9	7.35		89.9	1.52	0.3	0.11
			Aug 12, 2005	0								
			Apr 28, 2006	200	20	10.3	6.67	9.68	100.8	3.33	0.3	0.03
			Sep 12, 2006	0								
			Mar 29, 2007	300	10	8.4	7.35	11.90	84.0	1.22	0.4	0.20
			Sep 26, 2007									
			Mar 28, 2008	500	< 1	6.7	7.33	11.68	98.0	2.99	0.3	0.04
			Jul 25, 2008									

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
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**2027-2**

			Apr 19, 2001		1	12.2	7.09	8.84	72.0			
			Oct 01, 2001		10	12.2	7.00	5.67	68.0			
			Apr 04, 2002	120	10	10.5	7.31	11.47	64.0			
			Sep 25, 2002	20	3800	11.7	6.84	6.31	64.7			
			Mar 14, 2003	100	10	7.4	6.98	12.07	60.3	1.35		
			Sep 15, 2003	0								
			Feb 27, 2004	200	20	7.2	7.44	10.67	58.6	1.11		
			Jul 30, 2004									
			May 25, 2005	300	< 10	17.1	7.26	9.18	82.8	0.76	1.4	0.07
			Aug 12, 2005	0								
			Apr 28, 2006	100	1	13.4	7.32	8.61	96.6	1.22	0.6	0.02
			Sep 12, 2006	0								
			Mar 29, 2007	200	> 1	9.0	6.65	11.43	82.0	0.91	0.8	0.01
			Sep 26, 2007									
			Mar 28, 2008	450	< 1	7.6	7.18	11.42	103.0	0.86	0.3	0.01
			Jul 25, 2008									

**Wright Road Creek**

**2064-1**

			Nov 27, 1997	120	45							
			Jan 15, 1998	225	1800							

continued

Creek Name	Station Number	Station Description	Date Visited	Flow Rate (L/min)	Fecal Coliform per/100mL	Temperature (C)	pH	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	Turbidity (NTU)	Nitrate/Nitrogen (mg/L)	Phosphorous (mg/L)
			Jun 30, 1998	4	30							
			Jan 19, 1999	400	70							
			Jul 26, 1999	3	10							
			Feb 19, 2001	70	18							
			Nov 01, 2001	2	60							
			Apr 10, 2002	50	40	10.3	7.35	10.85	108.2			
			Sep 27, 2002	0								
			Mar 10, 2003	100	40	8.7	7.34	10.80	641.0	6.37		
			Sep 15, 2003	0								
			Mar 08, 2004	150	80	9.2	6.90	11.04	92.8			
			Jun 24, 2004									
			Apr 21, 2005	60	1600	10.1	7.28	9.88	155.2	4.07	1.0	0.25
			Aug 12, 2005	0								
			Apr 26, 2006	25	110	8.9	6.91	9.56	188.1	9.58	1.9	0.19
			Sep 08, 2006	0								
			Apr 04, 2007	40	40	7.9	7.06	11.75	135.0	5.34	0.9	0.03
			Sep 14, 2007	0								
			Mar 27, 2008	150	100	6.0	7.27	12.16	147.0	8.06	0.5	0.04
			Jul 24, 2008									