

Appendix B Summary statistics for sample sites in the Skagit County Monitoring Program, 2004 and 2005 water year:																		
	pH Units	DO mg/L	DO % sat	Temp °C	Turb NTU	Cond us/cm	CondTemp us/cm	Sal ppt	Discharge cfs	Staff ft	Fecal Coliform mg/L	Nitrite + Nitrate mg/L	Total Kjeldahl Nitrogen mg/L	Total Phosphorus mg/L	Ortho-Phosphate mg/L	Nitrate mg/L	Ammonia mg/L	TSS mg/L
Site 3: Thomas Creek at Hwy 99																		
No.	52	52	52	52	52	52	51	52	0	47	52	26	26	26	25	25	26	25
Mean	6.88	6.21	54.1	10.9	9.54	112.0	150.2	0.1	N/A	2.88	61	0.74	0.66	0.07	0.02	0.71	0.14	4
SD	0.22	2.96	23.4	4.4	7.05	42.7	45.9	0.0	N/A	1.42	622	0.65	0.34	0.05	0.02	0.64	0.15	2
Max	7.37	11.13	95.9	17.7	40.80	205.1	261.8	0.1	0	5.68	4100	2.22	1.58	0.23	0.07	2.22	0.80	11
Min	6.19	1.47	14.7	1.5	1.21	47.6	75.7	0.0	0	0.64	1	0.01	0.25	0.05	0.01	0.01	0.03	2
Site 4: Thomas Creek at F&S Grade Rd																		
No.	52	52	52	52	52	52	51	52	7	26	51	26	26	26	26	25	26	26
Mean	7.39	10.55	92.2	9.6	21.29	90.5	125.1	0.1	5.9	0.83	365	1.12	0.47	0.06	0.03	1.10	0.05	17
SD	0.35	1.31	6.1	3.6	24.28	41.5	48.4	0.1	6.5	0.48	2823	0.35	0.28	0.04	0.03	0.33	0.03	32
Max	7.92	13.52	100.4	15.4	114.00	167.5	209.6	0.1	19	2.06	16000	1.99	1.50	0.21	0.10	1.99	0.14	147
Min	6.34	6.73	61.6	0.1	2.41	37.4	53.3	0.0	0.5	0.32	13	0.67	0.25	0.05	0.01	0.67	0.03	2
Site 6: Friday Creek at Prairie Rd																		
No.	52	52	52	52	52	52	51	52	0	40	52	26	26	26	26	25	26	26
Mean	7.42	10.89	97.4	10.7	7.23	58.6	79.4	0.0	N/A	3.13	32	0.58	0.37	0.08	0.02	0.57	0.04	10
SD	0.45	1.30	6.8	4.3	13.58	20.3	20.2	0.0	N/A	1.60	257	0.29	0.25	0.09	0.01	0.29	0.03	30
Max	8.58	13.86	113.2	17.6	87.90	96.9	125.5	0.1	0	5.90	1600	1.64	1.20	0.40	0.07	1.64	0.13	158
Min	6.29	6.95	65.5	1.4	0.55	26.8	41.9	0.0	0	1.32	2	0.24	0.24	0.05	0.01	0.24	0.03	2
Site 8: Swede Creek at Grip Rd																		
No.	52	52	52	52	52	52	51	52	14	47	52	26	26	26	26	25	26	26
Mean	7.15	10.76	93.7	9.7	13.07	48.2	67.1	0.0	7.6	1.08	89	0.53	0.44	0.06	0.02	0.46	0.06	9
SD	0.26	1.58	6.6	4.2	15.74	15.1	15.1	0.0	9.3	0.36	466	0.46	0.30	0.04	0.01	0.32	0.03	15
Max	7.63	15.14	103.6	16.8	91.00	81.1	97.9	0.0	34	2.40	2200	2.17	1.50	0.22	0.05	1.46	0.17	66
Min	6.37	6.61	61.7	-0.1	2.48	29.4	44.8	0.0	0.9	0.60	2	0.07	0.25	0.05	0.01	0.07	0.03	2
Site 11: Samish River at Hwy 9																		
No.	52	52	52	52	52	52	51	52	0	14	52	26	26	26	26	25	26	26
Mean	6.83	8.17	70.6	9.3	5.28	53.6	75.5	0.0	N/A	1.65	18	0.31	0.29	0.06	0.02	0.31	0.04	7
SD	0.20	1.55	9.8	3.4	11.61	17.5	20.0	0.0	N/A	0.82	102	0.10	0.10	0.05	0.01	0.10	0.02	13
Max	7.13	10.86	96.2	14.6	82.70	98.1	129.4	0.1	0	2.92	500	0.54	0.54	0.30	0.04	0.54	0.12	68
Min	6.07	4.70	45.1	1.7	0.99	26.0	40.8	0.0	0	0.65	1	0.13	0.25	0.05	0.01	0.13	0.03	2
Site 12: Nookachamps Creek at Swan Rd																		
No.	52	52	52	52	52	52	52	52	0	43	52	26	26	26	26	25	26	26
Mean	7.04	9.22	83.4	11.6	14.52	87.1	114.9	0.1	N/A	2.34	76	0.43	0.46	0.06	0.01	0.44	0.08	17
SD	0.18	1.82	11.8	5.5	35.81	35.9	35.2	0.1	N/A	1.63	258	0.23	0.25	0.05	0.01	0.23	0.03	31
Max	7.52	13.29	106.6	20.9	208.00	185.5	204.1	0.1	0	5.58	900	0.81	1.00	0.28	0.06	0.81	0.15	156
Min	6.42	3.30	30.7	1.4	2.07	24.8	41.2	0.0	0	0.06	8	0.11	0.25	0.05	0.01	0.11	0.03	2
Site 13: E.F. Nookachamps Creek at Hwy 9																		
No.	52	52	52	52	52	52	51	52	0	44	52	26	26	26	26	25	26	26
Mean	7.16	9.52	84.8	10.7	6.95	73.8	99.5	0.0	N/A	2.07	44	0.31	0.38	0.05	0.01	0.31	0.06	9
SD	0.27	1.66	11.3	5.1	13.09	27.3	26.5	0.0	N/A	0.91	196	0.21	0.19	0.01	0.01	0.22	0.03	22
Max	7.72	12.27	101.8	20.0	84.60	144.8	160.1	0.1	0	4.14	900	0.91	0.70	0.10	0.05	0.91	0.13	113
Min	6.54	4.21	39.3	0.5	0.30	32.4	50.9	0.0	0	0.62	1	0.01	0.25	0.05	0.01	0.01	0.03	2
Site 14: College Way Creek at College Way																		
No.	51	52	52	52	52	52	51	52	0	47	52	25	25	25	25	24	25	25
Mean	7.44	9.04	80.6	11.2	16.00	163.2	219.4	0.1	N/A	0.69	156	0.44	0.46	0.07	0.05	0.45	0.08	7
SD	0.21	2.37	15.2	4.3	67.63	52.8	56.2	0.0	N/A	0.30	1411	0.31	0.25	0.08	0.05	0.31	0.04	12
Max	7.88	13.19	103.4	18.5	489.00	261.3	299.0	0.1	0	1.64	9000	1.11	1.00	0.40	0.22	1.11	0.24	60
Min	6.87	5.04	50.6	1.7	0.68	71.7	103.0	0.1	0	0.27	13	0.01	0.25	0.05	0.01	0.01	0.03	2

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	pH	DO	DO	Temp	Turb	Cond	CondTemp	Sal	Discharge	Staff	Fecal Coliform	Nitrite + Nitrate	Nitrogen	Phosphorus	Ortho-Phosphate	Nitrate	Ammonia	TSS		
	Units	mg/L	% sat	°C	NTU	us/cm	us/cm	ppt	cfs	ft	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Site 15: Nookachamps Creek at Knapp Rd																				
No.	52	52	52	52	52	52	52	52	5	49	52	26	26	26	26	25	26	26		
Mean	7.04	7.80	70.8	12.4	4.50	91.3	119.0	0.0	46.0	1.14	74	0.28	0.55	0.06	0.03	0.28	0.11	5		
SD	0.19	3.21	26.0	5.4	2.29	33.9	36.8	0.1	26.9	0.59	353	0.28	0.25	0.03	0.04	0.29	0.10	3		
Max	7.56	11.83	103.0	21.3	13.40	185.5	230.9	0.1	73	2.54	2400	1.01	1.00	0.20	0.19	1.01	0.54	17		
Min	6.50	1.35	13.1	2.4	2.41	56.7	87.9	0.0	6	0.02	8	0.01	0.25	0.05	0.01	0.01	0.05	2		
Site 16: E.F. Nookachamps Creek at Beaver Lake Rd																				
No.	52	52	52	52	52	52	51	52	1	48	52	26	26	26	26	25	26	26		
Mean	7.37	11.26	98.8	9.9	3.98	68.7	93.9	0.0	2.1	1.98	39	0.33	0.30	0.05	0.01	0.32	0.04	9		
SD	0.31	1.29	5.2	4.6	11.70	29.7	31.0	0.0	N/A	0.91	390	0.17	0.11	0.00	0.01	0.16	0.02	37		
Max	7.98	13.95	112.6	18.6	82.60	149.8	173.2	0.1	2.1	5.86	1600	0.66	0.60	0.05	0.04	0.66	0.10	190		
Min	6.42	8.22	86.3	1.1	0.00	20.1	29.2	0.0	2.1	0.44	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 17: Nookachamps Creek at Big Lake Outlet																				
No.	52	52	52	52	52	52	52	52	0	24	51	26	26	26	26	25	26	26		
Mean	7.40	9.71	91.1	13.0	1.83	72.9	93.8	0.0	N/A	1.45	13	0.21	0.38	0.05	0.01	0.22	0.05	3		
SD	0.29	1.75	10.0	5.9	0.98	20.7	22.3	0.1	N/A	0.67	91	0.22	0.20	0.00	0.01	0.22	0.03	2		
Max	8.46	12.34	109.0	23.1	5.70	161.9	221.5	0.4	0	2.92	500	0.63	1.00	0.05	0.04	0.63	0.16	9		
Min	6.77	5.95	54.0	2.7	0.29	45.7	49.4	0.0	0	0.26	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 18: Lake Creek at Hwy 9																				
No.	52	52	52	52	52	52	52	52	1	29	52	26	26	26	26	25	26	26		
Mean	7.33	10.91	96.7	10.3	2.78	64.7	88.6	0.0	49.0	1.68	58	0.42	0.31	0.05	0.02	0.43	0.04	5		
SD	0.21	1.23	4.9	4.0	4.33	19.9	20.4	0.0	N/A	0.57	1242	0.14	0.14	0.01	0.01	0.14	0.02	14		
Max	7.67	14.34	106.6	17.1	30.60	114.9	137.5	0.1	49	2.95	9000	0.78	0.70	0.10	0.05	0.78	0.09	72		
Min	6.54	8.45	82.3	2.2	0.50	28.0	44.0	0.0	49	0.78	1	0.17	0.25	0.05	0.01	0.17	0.03	2		
Site 19: Hansen Creek at Hoehn Rd																				
No.	52	52	52	52	52	52	51	52	0	51	52	26	26	26	26	25	26	26		
Mean	7.08	10.08	87.6	9.5	18.53	60.6	85.1	0.0	N/A	1.56	63	0.44	0.36	0.09	0.02	0.44	0.04	49		
SD	0.25	1.33	5.9	4.1	75.94	15.8	15.4	0.0	N/A	0.74	732	0.21	0.30	0.19	0.01	0.21	0.03	176		
Max	7.55	12.67	96.4	18.4	535.00	101.1	115.7	0.1	0	5.10	5000	1.10	1.70	0.99	0.06	1.10	0.14	902		
Min	6.41	5.73	61.0	0.4	0.69	30.3	44.1	0.0	0	0.32	1	0.15	0.25	0.05	0.01	0.15	0.03	2		
Site 20: Hansen Creek at Northern State Hospital																				
No.	52	52	52	52	52	52	51	52	0	37	52	26	26	26	26	25	26	26		
Mean	7.15	10.75	93.4	9.4	25.16	56.4	79.1	0.0	N/A	2.79	40	0.47	0.46	0.17	0.02	0.46	0.04	107		
SD	0.27	1.17	5.0	3.6	83.74	16.7	17.6	0.0	N/A	1.17	281	0.23	0.47	0.32	0.01	0.23	0.03	286		
Max	7.58	13.18	101.3	15.8	442.00	96.4	116.9	0.1	0	4.90	1600	1.17	2.20	1.50	0.05	1.17	0.15	1216		
Min	6.52	7.34	66.5	1.2	0.85	31.7	46.0	0.0	0	1.66	1	0.15	0.25	0.05	0.01	0.15	0.03	2		
Site 21: Coal Creek at Hoehn Rd																				
No.	45	45	45	45	45	45	44	45	0	43	45	23	23	23	23	22	23	23		
Mean	7.09	10.86	92.0	8.5	18.36	57.7	83.3	0.0	N/A	0.95	111	0.74	0.17	0.04	0.01	0.73	0.04	25		
SD	0.20	1.38	4.7	4.0	66.82	14.8	14.9	0.0	N/A	0.45	1120	0.25	0.30	0.11	0.01	0.25	0.02	90		
Max	7.41	13.76	99.4	15.6	432.00	96.5	118.0	0.1	0	2.70	5000	1.26	1.30	0.49	0.04	1.26	0.08	438		
Min	6.53	7.38	74.0	0.4	0.17	37.6	55.3	0.0	0	0.52	4	0.35	0.05	0.01	0.01	0.35	0.03	2		
Site 22: Coal Creek at Hwy 20																				
No.	52	52	52	52	52	52	51	52	0	0	51	26	26	26	26	25	26	26		
Mean	7.34	11.70	99.0	8.6	18.67	55.4	79.6	0.0	N/A	N/A	10	0.58	0.34	0.07	0.02	0.56	0.03	33		
SD	0.34	1.18	4.8	3.7	69.76	16.8	17.7	0.0	N/A	N/A	228	0.26	0.26	0.12	0.03	0.26	0.02	126		
Max	7.98	14.44	107.8	15.4	369.00	107.0	130.9	0.1	0	0.00	1600	1.44	1.50	0.67	0.12	1.44	0.09	650		
Min	6.53	9.42	73.2	0.4	0.00	34.2	50.1	0.0	0	0.00	1	0.27	0.25	0.05	0.01	0.27	0.03	2		

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	pH	DO	DO	Temp	Turb	Cond	CondTemp	Sal	Discharge	Staff	Fecal Coliform	Nitrite + Nitrate	Nitrogen	Phosphorus	Ortho-Phosphate	Nitrate	Ammonia	TSS		
	Units	mg/L	% sat	°C	NTU	us/cm	us/cm	ppt	cfs	ft	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Site 23: Wiseman Creek at Minkler Rd																				
No.	51	51	51	51	51	51	50	51	10	22	51	26	26	26	26	25	26	26	26	
Mean	7.44	11.61	99.8	8.9	13.29	57.8	82.5	0.0	17.7	1.70	13	1.06	0.32	0.09	0.01	1.06	0.03	0.03	34	
SD	0.38	1.07	6.2	3.4	52.03	16.7	18.2	0.0	21.4	0.56	260	0.33	0.20	0.12	0.01	0.32	0.01	0.01	125	
Max	8.52	14.35	136.7	15.8	353.00	103.7	134.0	0.1	72	3.20	1600	2.21	1.20	0.61	0.05	2.10	0.06	0.06	640	
Min	6.53	8.87	87.2	1.7	0.00	25.6	43.5	0.0	1	1.00	1	0.68	0.25	0.05	0.01	0.68	0.03	0.03	2	
Site 24: Mannser Creek at Lyman-Hamilton Hwy																				
No.	52	52	52	52	52	52	51	52	0	43	50	26	26	26	26	25	26	26	26	
Mean	6.87	6.13	52.1	8.8	1.54	76.6	110.2	0.1	N/A	1.94	29	0.21	0.52	0.05	0.03	0.22	0.03	0.03	3	
SD	0.21	1.58	11.3	3.2	1.38	14.9	14.6	0.0	N/A	0.56	63	0.15	1.12	0.00	0.05	0.15	0.01	0.01	1	
Max	7.14	9.36	67.1	13.9	10.53	119.3	160.2	0.1	0	3.10	300	0.56	6.00	0.05	0.25	0.56	0.06	0.06	5	
Min	6.06	1.97	18.5	0.8	0.63	41.7	63.8	0.0	0	0.34	1	0.01	0.25	0.05	0.01	0.01	0.03	0.03	2	
Site 25: Red Cabin Creek at Hamilton Cemetery Rd																				
No.	45	45	45	45	45	45	45	45	0	44	44	23	23	23	23	22	23	23	23	
Mean	7.34	11.54	97.1	7.9	5.77	47.6	70.3	0.0	N/A	2.63	11	0.53	0.32	0.07	0.02	0.49	0.03	0.03	21	
SD	0.34	0.79	3.2	2.3	33.37	15.7	20.0	0.0	N/A	0.26	78	0.22	0.16	0.08	0.01	0.11	0.01	0.01	85	
Max	7.94	13.63	105.3	11.8	224.00	76.9	103.7	0.0	0	3.30	500	1.40	0.90	0.44	0.06	0.80	0.07	0.07	410	
Min	6.34	9.73	88.9	2.3	0.00	23.7	35.1	0.0	0	1.98	1	0.30	0.25	0.04	0.01	0.30	0.03	0.03	2	
Site 28: Brickyard Creek at Hwy 20																				
No.	40	40	40	40	40	40	39	40	6	2	39	20	20	20	20	19	20	20	20	
Mean	6.93	8.91	76.3	9.2	7.32	80.5	112.4	0.1	4.3	1.15	47	0.77	0.60	0.05	0.03	0.81	0.09	0.09	4	
SD	0.40	1.96	10.9	4.0	6.15	31.1	44.9	0.1	3.7	0.64	322	0.40	0.40	0.00	0.05	0.38	0.06	0.06	5	
Max	7.46	13.31	95.4	17.2	37.70	165.5	208.9	0.1	11	1.60	1600	1.41	1.68	0.06	0.23	1.41	0.27	0.27	19	
Min	5.35	4.34	44.6	1.2	1.30	21.9	10.7	0.0	1	0.70	2	0.06	0.25	0.05	0.01	0.14	0.03	0.03	2	
Site 29: Skagit River at River Bend Rd																				
No.	52	52	52	52	52	52	52	52	0	2	51	25	25	24	25	24	25	25	25	
Mean	7.16	10.98	96.0	9.6	16.93	40.9	58.5	0.0	N/A	13.75	12	0.07	0.43	0.08	0.01	0.07	0.03	0.03	31	
SD	0.35	1.02	5.4	4.1	31.84	8.0	12.5	0.0	N/A	1.77	223	0.05	0.42	0.08	0.00	0.05	0.01	0.01	79	
Max	7.69	13.58	110.3	16.6	202.00	67.5	101.1	0.0	0	15.00	1600	0.14	2.10	0.40	0.03	0.14	0.07	0.07	383	
Min	6.44	9.14	84.3	0.9	1.51	25.7	36.2	0.0	0	12.50	1	0.01	0.25	0.05	0.01	0.01	0.03	0.03	2	
Site 30: Skagit River at Cape Horn Rd																				
No.	51	51	51	51	51	51	51	51	0	0	49	25	25	25	25	24	25	25	25	
Mean	7.17	11.05	95.1	8.9	19.32	40.6	59.1	0.0	N/A	N/A	3	0.09	0.26	0.09	0.02	0.09	0.03	0.03	39	
SD	0.26	0.95	3.7	3.4	44.16	6.3	9.6	0.0	N/A	N/A	10	0.13	0.05	0.10	0.02	0.13	0.01	0.01	100	
Max	7.54	12.50	101.0	15.1	238.00	54.7	78.6	0.0	0	0.00	50	0.65	0.50	0.49	0.11	0.65	0.07	0.07	501	
Min	6.02	8.35	79.5	3.2	1.19	28.1	40.4	0.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	0.03	2	
Site 31: Drainage District 20 ditch at floodgate																				
No.	27	27	27	27	27	27	27	27	0	0	26	14	14	14	14	14	14	14	14	
Mean	7.12	8.29	72.0	8.9	15.09	184.6	249.4	0.1	N/A	N/A	58	0.43	1.60	0.08	0.03	0.43	0.17	0.17	21	
SD	0.43	2.54	20.8	4.0	17.68	90.4	128.2	0.1	N/A	N/A	1761	0.29	2.49	0.07	0.03	0.29	0.09	0.09	38	
Max	7.79	13.51	105.2	16.0	83.10	374.9	455.3	0.2	0	0.00	9000	0.98	9.80	0.30	0.10	0.98	0.34	0.34	147	
Min	6.13	3.33	27.4	1.5	1.22	40.1	-96.0	0.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.07	0.07	2	
Site 32: Samish River at Thomas Rd																				
No.	51	52	52	52	52	52	52	52	0	29	52	26	26	26	26	25	26	26	26	
Mean	7.34	10.55	95.4	10.9	13.65	74.1	98.9	0.2	N/A	3.13	74	0.68	0.39	0.07	0.02	0.68	0.09	0.09	19	
SD	0.41	1.30	13.3	4.4	29.36	25.1	23.8	1.1	N/A	1.48	264	0.27	0.28	0.07	0.02	0.27	0.12	0.12	44	
Max	8.48	14.01	150.0	19.5	181.00	126.9	141.7	7.9	0	5.90	1600	1.69	1.30	0.33	0.12	1.65	0.68	0.68	229	
Min	6.51	6.86	64.7	2.0	1.62	35.6	52.7	0.0	0	0.62	4	0.41	0.25	0.05	0.01	0.41	0.03	0.03	2	

Appendix B Summary statistics for sample sites in the Skagit County Monitoring Program, 2004 and 2005 water year:																		
	pH Units	DO mg/L	DO % sat	Temp °C	Turb NTU	Cond us/cm	CondTemp us/cm	Sal ppt	Discharge cfs	Staff ft	Fecal Coliform mg/L	Nitrite + Nitrate mg/L	Total Kjeldahl Nitrogen mg/L	Total Phosphorus mg/L	Ortho-Phosphate mg/L	Nitrate mg/L	Ammonia mg/L	TSS mg/L
Site 33: Alice Bay pump station																		
No.	52	51	52	52	52	52	52	52	0	37	52	26	26	26	26	25	26	26
Mean	7.21	8.95	102.5	13.9	33.69	20292.8	23749.0	15.1	N/A	2.78	94	0.81	2.89	0.45	0.16	0.77	1.30	47
SD	0.82	4.33	63.2	6.4	38.25	13607.6	14148.6	8.9	N/A	0.81	405	1.00	1.70	0.36	0.19	1.03	0.72	23
Max	8.79	19.86	249.4	25.8	249.00	44190.0	43340.0	28.2	0	5.52	1600	3.36	9.70	1.60	0.75	3.36	3.02	102
Min	5.77	2.54	29.2	2.3	3.59	8.2	13.6	0.1	0	2.10	1	0.01	0.74	0.05	0.01	0.01	0.03	11
Site 34: No Name Slough at Bayview-Edison Rd																		
No.	50	50	50	50	50	50	50	50	0	0	49	25	25	25	25	24	25	25
Mean	7.16	6.30	56.6	12.3	18.34	13965.8	16491.5	10.8	N/A	N/A	134	0.64	1.54	0.32	0.17	0.66	0.42	34
SD	0.53	3.65	29.1	6.1	14.70	16037.7	18410.7	12.1	N/A	N/A	729	0.96	0.99	0.47	0.34	0.98	0.39	48
Max	8.51	14.97	151.9	21.7	76.40	49800.0	56800.0	38.0	0	0.00	3500	4.14	5.34	1.67	1.25	4.14	1.70	233
Min	6.35	0.60	7.0	1.8	2.64	44.4	-96.0	0.0	0	0.00	1	0.01	0.70	0.05	0.01	0.01	0.09	2
Site 35: Joe Leary Slough at D'Arcy Rd																		
No.	44	45	45	45	45	45	45	45	0	0	44	23	23	23	23	23	23	23
Mean	6.88	4.50	42.9	12.8	39.56	272.5	351.4	0.2	N/A	N/A	111	1.00	1.15	0.19	0.09	0.98	0.58	22
SD	0.19	1.24	12.7	4.0	25.08	53.1	47.7	0.0	N/A	N/A	709	0.87	0.43	0.15	0.06	0.85	0.32	31
Max	7.30	7.56	70.1	20.0	153.00	421.4	471.9	0.2	0	0.00	3500	3.04	2.00	0.70	0.17	3.04	1.15	151
Min	6.55	2.30	19.0	5.2	7.91	154.2	220.2	0.1	0	0.00	13	0.21	0.52	0.05	0.01	0.21	0.13	2
Site 36: Edison Slough at Edison School																		
No.	52	51	52	52	52	52	51	52	0	45	52	26	26	26	26	25	26	26
Mean	7.38	8.41	91.3	14.3	9.80	11497.8	12941.7	7.8	N/A	2.24	59	0.44	1.27	0.38	0.24	0.43	0.39	20
SD	0.68	2.67	49.6	7.9	7.30	13187.3	13822.9	8.7	N/A	1.30	309	0.56	0.56	0.46	0.41	0.58	0.40	20
Max	8.85	16.58	303.4	29.9	49.30	40560.0	40880.0	26.1	0	7.20	1600	1.92	3.00	1.70	1.61	1.92	1.70	74
Min	6.22	2.90	33.1	0.8	3.00	77.4	104.3	0.1	0	0.72	2	0.01	0.60	0.05	0.01	0.01	0.03	2
Site 37: Edison pump station																		
No.	52	51	52	52	52	52	52	52	0	0	52	26	26	26	26	25	26	26
Mean	7.32	6.54	74.3	13.9	41.34	10029.4	11661.6	6.9	N/A	N/A	129	1.23	2.36	0.70	0.32	1.25	1.30	35
SD	0.58	3.40	59.9	6.6	83.86	10077.9	10927.1	6.9	N/A	N/A	306	1.58	0.72	0.67	0.42	1.61	0.62	30
Max	8.87	18.66	283.5	26.1	586.00	34680.0	41080.0	26.4	0	0.00	1600	5.66	3.82	3.30	1.46	5.66	3.15	166
Min	6.45	0.27	3.7	2.3	6.34	314.2	519.0	0.2	0	0.00	13	0.01	0.25	0.20	0.01	0.01	0.15	8
Site 38: North Edison pump station																		
No.	51	46	48	50	51	51	51	50	0	0	51	26	26	26	26	25	26	26
Mean	7.25	6.76	83.0	12.7	40.86	13038.5	16007.4	9.8	N/A	N/A	111	0.39	2.73	0.69	0.27	0.35	1.24	47
SD	0.76	3.67	78.0	5.1	68.54	11240.3	12434.2	8.2	N/A	N/A	489	0.50	0.76	0.59	0.42	0.51	0.61	38
Max	8.86	17.59	380.2	24.3	386.00	38440.0	42950.0	27.6	0	0.00	2400	1.74	4.74	2.50	1.61	1.74	2.52	149
Min	6.28	1.13	10.4	3.0	5.39	622.0	962.0	0.5	0	0.00	2	0.01	1.40	0.05	0.01	0.01	0.47	9
Site 39: Colony Creek at Colony Rd																		
No.	52	52	52	52	51	52	51	52	8	0	52	26	26	26	26	25	26	26
Mean	7.24	10.43	91.6	10.2	20.92	86.8	116.8	0.0	7.4	N/A	97	0.90	0.80	0.14	0.03	0.83	0.07	93
SD	0.33	1.84	8.8	4.4	39.04	53.3	60.6	0.0	8.0	N/A	4247	0.64	1.24	0.33	0.04	0.56	0.06	389
Max	7.83	14.46	103.4	17.6	214.00	205.1	255.5	0.1	24	0.00	16000	2.52	4.96	1.70	0.13	2.38	0.34	1996
Min	6.41	6.11	58.3	0.0	1.34	38.3	56.3	0.0	0.5	0.00	1	0.20	0.25	0.05	0.01	0.19	0.03	2
Site 40: Big Indian Slough at Hwy 20 truck scales																		
No.	49	49	49	49	49	49	49	49	0	0	48	24	25	25	24	25	25	24
Mean	6.75	4.35	38.4	11.4	23.37	266.5	356.2	0.2	N/A	N/A	45	0.69	0.98	0.11	0.06	0.68	0.39	10
SD	0.19	2.01	15.2	4.2	18.56	74.5	79.9	0.0	N/A	N/A	286	0.47	0.44	0.08	0.06	0.46	0.22	12
Max	7.11	10.01	81.9	19.3	113.00	366.0	480.8	0.2	0	0.00	1600	1.85	2.00	0.30	0.18	1.85	0.78	54
Min	6.27	1.46	15.4	4.2	2.48	62.1	94.0	0.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.05	2

Appendix B Summary statistics for sample sites in the Skagit County Monitoring Program, 2004 and 2005 water year:											Total Kjeldahl		Total							
	pH	DO	DO	Temp	Turb	Cond	CondTemp	Sal	Discharge	Staff	Fecal Coliform	Nitrite + Nitrate	Nitrogen	Phosphorus	Ortho-Phosphate	Nitrate	Ammonia	TSS		
	Units	mg/L	% sat	°C	NTU	us/cm	us/cm	ppt	cfs	ft	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		
Site 41: Maddox Slough/Big Ditch at Milltown Rd																				
No.	52	52	52	52	52	52	52	52	4	0	52	26	26	26	26	25	26	26		
Mean	7.12	5.16	49.7	12.7	17.85	422.0	577.0	0.3	10.5	N/A	27	1.27	1.18	0.15	0.06	1.27	0.36	10		
SD	0.27	2.13	24.0	5.3	44.51	208.8	305.6	0.2	7.4	N/A	100	1.24	0.70	0.12	0.06	1.26	0.28	21		
Max	8.13	10.85	118.2	22.0	268.00	792.0	1028.0	0.5	21	0.00	500	3.42	2.74	0.42	0.17	3.42	0.95	91		
Min	6.74	0.75	7.4	2.7	2.14	52.5	58.2	0.0	4	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 42: Carpenter Creek/Hill Ditch at Cedardale Rd																				
No.	51	51	51	51	51	51	50	51	16	0	49	26	26	26	26	25	26	26		
Mean	7.23	6.89	61.7	11.7	2.96	142.7	189.6	0.1	14.5	N/A	20	0.54	0.48	0.08	0.03	0.54	0.08	3		
SD	0.16	2.47	17.0	5.7	2.83	44.6	43.2	0.0	11.2	N/A	53	0.48	0.22	0.09	0.03	0.49	0.03	2		
Max	7.62	11.25	86.9	21.6	16.00	269.5	311.6	0.2	42	0.00	240	1.63	0.90	0.46	0.10	1.63	0.17	8		
Min	6.76	2.05	19.1	0.5	0.28	85.2	101.6	0.1	2	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 43: Wiley Slough at Wylie Rd																				
No.	52	52	52	52	52	52	52	52	0	0	52	26	26	26	26	25	26	26		
Mean	7.19	4.54	43.9	12.8	24.42	2526.3	3137.2	1.7	N/A	N/A	66	1.65	1.69	0.40	0.26	1.69	0.53	22		
SD	0.30	2.80	28.8	5.3	81.49	2786.3	3239.6	1.9	N/A	N/A	416	1.92	1.37	0.55	0.44	1.93	0.42	52		
Max	7.88	14.16	147.0	21.9	578.00	11920.0	15370.0	9.0	0	0.00	2200	6.21	7.04	2.10	1.56	6.21	1.58	264		
Min	6.69	0.12	1.4	1.2	1.79	10.2	13.8	0.0	0	0.00	2	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 44: Rexville pump station/Sullivan Slough																				
No.	51	50	51	51	51	51	51	51	0	0	50	26	26	26	26	25	26	26		
Mean	7.19	4.41	46.0	12.2	51.85	2543.9	3057.1	2.1	N/A	N/A	17	0.14	1.19	0.43	0.06	0.13	0.44	38		
SD	0.46	3.89	42.1	4.1	94.72	5346.9	6291.5	4.5	N/A	N/A	258	0.37	0.88	0.97	0.07	0.37	0.46	62		
Max	8.48	13.86	153.1	18.7	627.00	19550.0	22960.0	18.7	0	0.00	1600	1.44	4.50	5.00	0.30	1.44	2.01	280		
Min	6.58	0.09	0.8	5.1	4.23	145.9	200.7	0.1	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	5		
Site 45: N.F. Skagit River near Moore Rd																				
No.	49	49	49	49	49	49	49	49	0	0	48	25	25	25	25	25	25	25		
Mean	7.38	11.12	97.5	9.9	16.56	40.4	57.3	0.0	N/A	N/A	8	0.06	0.29	0.10	0.01	0.06	0.03	35		
SD	0.19	1.06	3.3	4.2	26.55	5.4	8.6	0.0	N/A	N/A	30	0.05	0.12	0.13	0.00	0.05	0.02	90		
Max	7.92	13.17	107.0	17.2	173.00	55.8	76.4	0.0	0	0.00	130	0.14	0.70	0.60	0.03	0.14	0.09	452		
Min	6.90	9.11	91.0	2.5	1.75	27.6	42.0	0.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 46: S.F. Skagit River at Conway boat ramp																				
No.	51	51	51	51	51	51	51	51	0	0	51	25	25	25	25	24	25	25		
Mean	7.41	11.05	97.4	10.1	14.57	40.9	57.7	0.0	N/A	N/A	13	0.08	0.26	0.06	0.01	0.07	0.03	15		
SD	0.15	0.99	3.7	4.2	18.16	5.4	8.7	0.0	N/A	N/A	76	0.10	0.05	0.03	0.01	0.05	0.01	16		
Max	7.82	12.81	107.4	17.6	104.60	56.0	77.9	0.0	0	0.00	500	0.51	0.50	0.19	0.04	0.14	0.06	49		
Min	7.11	9.17	85.5	2.5	1.56	31.1	42.3	0.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 47: Swinomish Slough at County boat ramp																				
No.	52	52	52	52	52	52	52	52	0	0	52	26	26	26	26	25	26	26		
Mean	7.72	8.55	88.8	11.0	6.99	23968.6	32919.9	22.5	N/A	N/A	4	0.13	0.37	0.07	0.02	0.12	0.06	37		
SD	0.22	0.90	9.3	3.4	9.89	8061.9	10449.9	3.3	N/A	N/A	14	0.12	0.31	0.07	0.02	0.12	0.02	30		
Max	8.11	10.26	115.4	17.2	66.50	34480.0	43660.0	28.2	0	0.00	80	0.36	1.69	0.40	0.09	0.36	0.12	140		
Min	7.38	6.57	71.5	3.7	1.33	29.1	35.6	15.0	0	0.00	1	0.01	0.25	0.05	0.01	0.01	0.03	2		
Site 48: Fisher Creek at Franklin Rd																				
No.	52	52	52	52	52	52	51	52	18	11	51	26	26	26	26	25	26	26		
Mean	7.61	10.85	94.3	9.3	2.78	118.5	164.4	0.1	6.9	0.59	86	0.71	0.66	0.17	0.18	0.71	0.10	5		
SD	0.27	1.32	4.6	3.4	3.32	46.4	58.0	0.0	7.6	0.09	577	0.53	0.28	0.15	0.19	0.54	0.02	9		
Max	8.05	13.91	105.9	13.8	20.10	203.3	263.4	0.1	29	0.76	3500	2.25	1.10	0.43	0.60	2.25	0.16	46		
Min	6.83	8.56	81.0	0.9	0.00	61.5	12.0	0.0	0.4	0.52	8	0.01	0.25	0.05	0.01	0.01	0.06	2		