

APPENDIX 1

SAMPLE STATION DEPTHS

SAMPLE COLOUR

% GRAVEL-SAND-SILT-CLAY

KALAMALKA LAKE

SAMPLE	DEPTH (in METRES)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
K-1	33.0	Grey	0.00	19.79	70.30	9.91
K-2	5.5	Grey	0.00	10.30	61.24	28.46
K-3	5.0	Grey	11.51	82.04	4.67	1.79
K-4	75.0	Grey	0.00	3.73	40.67	55.60
K-5	120.0	Brown	0.00	1.61	43.38	55.01
K-6	142.0	Grey	0.00	2.05	46.88	51.07
K-7	52.0	Grey	20.54	65.30	5.20	8.96
K-8	4.0	Brown	0.25	39.58	38.30	21.86
K-8a		Grey	0.51	18.83	51.48	29.18
K-9	4.0	Grey	0.00	18.26	58.70	23.00
K-10	1.5	Black	0.06	59.39	31.86	8.68

WOOD LAKE

SAMPLE	DEPTH (in METERS)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
W-1	8.5	Grey	12.47	94.35	4.95	1.87
W-1a	8.5	Grey	0.00	43.83	32.27	23.90
W-2	27.0	Black	0.00	3.96	64.22	31.82
W-3	32.0	Black	0.00	2.52	59.21	38.27
W-4	32.0	Black	0.00	3.44	62.76	34.79
W-5	6.0	Black	0.00	31.93	58.98	9.09

OKANAGAN LAKE

SAMPLE	DEPTH (in METRES)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
OK-1	134.0	Grey	0.00	18.30	50.13	32.57
OK-2	91.0	Grey	0.00	25.38	54.04	20.57
OK-3	136.0	Grey		INSUFFICIENT SAMPLE		
OK-4	1.5	Brown	0.00	18.12	60.98	20.90
OK-5	4.0	Brown		INSUFFICIENT SAMPLE		
OK-6	7.5	Grey	0.00	59.66	40.34	0.00
OK-7	28.0	Grey	0.00	26.19	49.76	24.05
OK-8	69.0	Grey	0.00	11.50	59.60	28.90
OK-9	20.0	Grey	0.00	18.61	62.87	18.52
OK-9a	20.0	Brown	0.00	30.40	70.18	.59
OK-10	17.0	Black	0.00	10.78	71.69	17.53
OK-11	115.0	Grey	0.00	2.63	55.42	41.95
OK-12	190.0	Grey		INSUFFICIENT SAMPLE		
OK-13	36.0	Grey	0.00	2.67	59.32	38.01
OK-14	80.0	Grey		INSUFFICIENT SAMPLE		
OK-15	26.0	Grey	0.00	3.39	50.26	46.35
OK-16	26.0	Grey	0.00	28.53	30.60	40.87
OK-17	19.0	Grey	0.00	0.00	50.25	49.75
OK-18	16.0	Black	0.00	26.68	49.46	23.87
OK-19	82.0	Grey		INSUFFICIENT SAMPLE		
OK-20	19.0	Black	0.00	2.11	58.12	39.78
OK-21	23.0	Brown	0.00	3.77	54.64	41.59
OK-22	9.0	Brown	0.13	28.12	39.71	32.04
OK-22a	9.0	Brown	0.00	16.75	43.45	39.79
OK-23	28.0	Grey	0.05	7.04	37.01	55.91
OK-24	28.0	Brown	0.00	13.58	42.73	43.69
OK-25	30.0	Brown	0.12	8.69	45.63	45.57
OK-26	69.0	Grey		INSUFFICIENT SAMPLE		

OKANAGAN LAKE

SAMPLE	DEPTH (in METRES)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
OK-27	35.0	Grey		INSUFFICIENT SAMPLE		
OK-28	112.0	Grey		INSUFFICIENT SAMPLE		
OK-29	57.0	Grey	0.00	3.71	47.41	48.88
OK-30	16.59	Brown	0.20	67.66	22.23	9.90
OK-31	235.0	Grey	0.00	4.54	51.18	44.28
OK-32	19.0	Grey	0.00	.00	3.81	96.19
OK-33	145.0	Grey		INSUFFICIENT SAMPLE		
OK-34	182.0	Grey		INSUFFICIENT SAMPLE		
OK-35	184.0	Grey		INSUFFICIENT SAMPLE		
OK-36	197.0	Grey		INSUFFICIENT SAMPLE		
OK-37	102.0	Grey	0.00	6.08	57.78	36.14
OK-38	24.0	Brown	9.93	32.67	44.48	13.12
OK-38a	24.0	Brown	0.00	23.35	64.78	11.87
OK-39	27½.0	Brown	0.00	68.67	25.63	5.70
OK-40	51.0	Grey	0.00	0.00	75.96	24.04
OK-41	85.0	Grey	0.00	.20	62.11	37.69
OK-42	24.5	Grey	0.00	36.63	39.88	23.49
OK-43	50.0	Grey		INSUFFICIENT SAMPLE		
OK-44	31.0	Brown	0.00	71.21	21.69	7.09

SKAHA LAKE

SAMPLE	DEPTH (in METRES)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
S-1	6.5	Black	0.11	21.38	67.00	11.50
S-2	14.0	Green	23.95	62.93	6.74	6.37
S-3	34.0	Black	0.36	2.72	63.23	33.69
S-4	39.0	Black	0.00	1.76	68.62	29.62
S-5	19.0	Brown	0.19	75.23	16.11	8.48
S-6	33.0	Brown	0.12	75.79	15.57	8.52
S-7	22.5	Brown	0.00	54.27	34.11	11.62
S-8	23.0	Brown	0.00	53.08	35.51	11.41
S-9	33.0	Black	0.00	1.17	65.13	33.70
S-10	18.0	Green	11.71	20.70	46.90	20.68
S-11	5.0	Brown	0.00	91.17	3.16	5.67
S-12	17.0	Brown	1.12	82.12	9.57	7.19
S-13	48.5	Black	0.00	0.00	54.23	45.77
S-14	52.0	Black	0.00	1.06	57.62	41.31
S-15	16.0	Brown	0.45	84.71	7.61	7.23
S-16	15.0	Brown	2.54	58.91	24.57	13.98
S-17	44.0	Black	0.00	2.78	64.84	32.38
S-18	54.0	Black	0.00	0.23	59.15	40.62
S-19	49.5	Black	0.00	0.00	60.98	39.01
S-20	14.0	Brown	0.00	29.88	56.59	13.52
S-21	18.0	Black	0.00	79.02	12.59	8.39
S-22	52.5	Black		INSUFFICIENT SAMPLES		
S-23	50.0	Black	0.00	1.34	62.11	36.55
S-24	36.0	Black	0.00	5.89	61.41	32.70
S-25	13.0	Black	0.56	82.16	11.04	6.25
S-26	12.0	Brown	1.10	71.99	19.43	7.48
S-27	30.0	Black	0.00	8.18	65.13	26.68
S-28	38.0	Black	0.00	0.00	71.02	28.98
S-29	42.5	Black	0.00	5.16	79.31	15.53
S-30	45.0	Black	0.00	41.31	30.55	8.15
S-31	14.5	Grey	0.00	56.41	39.14	4.25 ^a
S-32	10.0	Brown	0.00	59.38	37.27	3.35
S-33	13.0	Black	0.00	20.81	40.65	38.55
S-34	13.4	Grey	0.00	15.90	57.90	26.46
S-35	11.0	Black	0.00	30.06	50.63	19.30
S-36	11.0	Brown	0.00	0.00	69.84	30.16

OSOYOOS LAKE

SAMPLE	DEPTH (in METRES)	COLOUR	% GRAVEL	% SAND	% SILT	% CLAY
OS-1	34.6	Black	0.00	19.27	58.65	22.08
OS-2	4.0	Brown	0.17	16.85	70.73	12.25
OS-3	34.0	Black	0.00	0.20	70.81	28.99
OS-4	26.5	Black	0.00	5.57	64.92	29.52
OS-5	21.0	Black	0.00	13.35	48.01	38.64
OS-6	23.5	Black	0.00	0.00	75.96	24.04
OS-7	36.4	Black	0.00	0.89	50.00	49.12
OS-8	61.5	Black	INSUFFICIENT SAMPLES			
OS-9	15.0	Grey	0.00	9.72	52.06	38.21
OS-10	25.6	Grey	0.00	6.80	49.13	44.06
OS-11	26.0	Black	0.00	4.53	50.36	45.11
OS-12	6.0	Brown	40.58	57.78	1.04	0.59
OS-13	21.0	Black	0.00	4.15	65.60	30.25
OS-14	30.5	Black	INSUFFICIENT SAMPLES			
OS-15	14.5	Black	0.00	4.62	53.46	41.92
OS-16	5.0	Brown	4.94	67.00	20.33	7.73
OS-16a	—	Grey	0.00	5.46	54.12	40.41
OS-17	11.5	Brown	4.71	77.91	12.63	4.75
OS-18	15.0	Grey	0.00	48.23	36.00	15.68
OS-19	27.0	Black	INSUFFICIENT SAMPLES			
OS-20	13.0	Black	28.18	69.93	1.46	0.44
OS-21	18.0	Grey	0.00	2.38	65.66	31.96
OS-22	20.0	Black	0.00	8.51	60.44	31.05
OS-23	26.0	Black	0.00	3.22	64.79	31.99

APPENDIX 2

TOTAL MAJOR ELEMENT CONTENT

OF SAMPLES

FROM OKANAGAN MAINSTEM LAKES

(BY X-RAY FLUORESCENCE SPECTROMETRY)

ALL VALUES AS PER CENT

WOOD LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
W-1	3.54	3.16	1.46	1.11	0.14	0.06	70.27	2.94	0.19	10.55	0.18
W-1a	18.25	1.30	2.14	1.54	0.15	0.10	50.12	2.64	0.75	6.88	0.25
W-2	8.68	1.21	7.15	2.20	0.38	0.22	55.13	1.56	1.72	1.45	0.76
W-3	9.54	0.93	5.96	1.79	0.37	0.31	60.35	1.24	1.20	5.83	0.61
W-4	10.38	0.47	5.49	1.47	0.29	0.24	59.92	1.24	1.44	5.77	0.65
W-5	3.91	1.93	4.87	2.03	0.29	0.08	61.53	2.08	.22	10.85	0.88
WC-1 0-5 cm.	12.16	0.94	5.32	1.32	0.30	0.36	56.93	1.19	1.96	5.50	0.56
WC-1 20-25 cm.	2.48	1.45	9.84	2.59	0.51	0.31	57.60	1.87	0.48	10.05	1.11
WC-1 45-50 cm.	2.29	1.20	10.21	2.67	0.42	0.31	57.67	1.89	0.42	10.00	1.02
WC-1 70-75 cm.	2.39	1.45	9.84	2.90	0.41	0.26	57.67	2.09	0.21	11.38	1.14
WC-1 85-90 cm.	2.26	1.16	8.80	2.19	0.29	0.25	59.96	1.73	1.29	9.05	0.99

KALAMALKA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
K-1	19.57	1.04	3.75	2.26	0.22	0.12	47.95	1.47	0.19	6.33	0.47
K-2	48.59	0.32	0.61	0.54	—	0.02	19.40	0.28	—	1.10	0.05
K-2a	49.67	0.31	0.55	0.52	—	0.02	19.70	0.25	—	1.30	0.04
K-3	13.71	0.71	4.07	2.60	0.23	0.47	59.26	1.34	0.57	5.34	0.37
K-4	21.80	0.88	4.11	2.37	0.25	0.14	44.12	1.57	0.09	6.59	0.49
K-5	26.14	0.86	3.02	1.82	0.19	0.24	43.18	1.22	0.13	4.80	0.32
K-5a	16.32	1.15	4.54	2.67	0.25	0.28	50.38	1.78	0.49	7.11	0.49
K-6	13.65	0.86	4.07	2.05	0.24	0.48	59.15	1.35	0.60	5.42	0.37
K-7	6.11	2.14	3.41	2.08	0.17	0.11	67.51	2.19	0.03	8.88	0.35
K-7a	2.99	1.54	8.31	4.30	0.20	0.20	54.17	3.35	—	13.43	0.65
K-8	50.59	0.21	0.51	0.57	—	0.04	17.02	0.23	—	0.89	0.02
K-8a	51.37	0.27	0.50	0.48	—	0.03	17.61	0.24	—	1.02	0.02
K-9	48.59	0.38	0.62	0.58	—	0.03	20.28	0.29	—	1.21	0.04
K-10	10.00	1.87	1.31	1.35	0.18	0.04	60.78	2.28	0.53	7.91	0.18

KALAMALKA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
KC-1 0-5 cm.	26.67	1.14	2.87	1.78	0.18	0.41	51.02	1.18	0.36	4.48	0.27
KC-1 20-25 cm.	20.59	1.10	3.22	2.00	0.20	0.41	48.74	1.60	0.29	5.86	0.36
KC-1 40-45 cm.	17.37	1.18	3.90	2.26	0.23	0.52	55.32	1.34	0.44	5.31	0.37
KC-1 60-65 cm.	25.60	0.88	3.11	1.86	0.20	0.37	42.43	1.35	0.24	5.28	0.34
KC-1 85-90 cm.	5.76	1.02	6.51	2.15	0.50	1.03	60.65	1.85	0.67	7.70	0.54
KC-2 0-5 cm.	47.61	0.27	0.91	0.67	—	0.05	19.13	0.35	—	1.35	0.07
KC-2 20-25 cm.	49.55	0.20	0.40	0.43	—	0.02	18.81	0.20	—	0.76	0.01
KC-2 45-50 cm.	50.64	0.21	0.59	0.53	—	0.03	17.90	0.25	—	0.97	0.03
KC-2 70-75 cm.	50.57	0.20	0.46	0.56	—	0.03	17.90	0.20	—	0.82	0.02
KC-2 95-100 cm.	46.64	0.47	0.46	0.68	—	0.02	24.35	0.22	—	0.95	0.02
KC-2 120-125	47.80	0.33	0.37	0.50	—	0.02	22.89	0.18	—	0.75	0.01

OKANAGAN LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
Ok-1	2.51	2.08	3.92	1.89	0.17	0.11	67.38	2.55	0.10	11.37	0.49
OK-2	2.14	1.51	5.79	2.58	0.20	0.19	60.40	2.71	0.02	11.66	0.65
OK-3	2.05	1.42	6.37	2.71	0.23	0.42	63.80	2.54	0.07	10.86	0.65
OK-4	5.29	1.10	5.01	2.01	0.21	0.07	60.96	2.43	1.05	10.77	0.59
OK-5	2.30	1.80	3.52	2.06	0.16	0.05	69.35	2.55	0.16	10.71	0.49
OK-6	2.68	2.40	3.18	1.92	0.18	0.05	68.28	2.57	0.13	11.65	0.44
OK-7	2.14	1.83	5.61	2.05	0.18	0.14	65.06	2.56	0.01	11.53	0.55
OK-8	2.09	1.66	6.01	2.77	0.23	0.29	62.02	2.86	0.05	12.70	0.63
OK-9	2.07	1.77	5.27	2.73	0.17	0.08	64.89	2.94	0.02	12.24	0.06
OK-9a	3.56	2.77	3.19	1.28	0.12	0.06	66.08	2.47	0.31	11.19	0.43
OK-10	2.71	2.37	3.15	1.98	0.17	0.05	68.82	2.58	0.11	11.82	0.43
OK-11	2.21	1.34	6.81	2.55	0.35	0.73	62.58	2.50	0.04	10.59	0.69
OK-11a	2.46	1.46	8.69	2.62	0.72	0.31	59.61	2.45	0.04	10.67	0.69
OK-12	1.90	1.22	6.42	2.36	0.25	0.44	66.01	2.25	0.10	9.79	0.66
OK-13	2.42	1.51	6.73	2.75	0.28	0.13	61.37	2.66	0.08	11.36	0.76
OK-14	2.43	1.67	1.62	2.67	0.36	0.18	60.87	2.50	0.09	11.13	0.77
OK-15	8.34	2.12	6.60	3.49	0.34	0.14	52.58	2.47	0.39	10.15	0.67
OK-16	4.97	1.30	7.71	3.92	0.30	0.18	53.82	2.71	0.23	11.73	0.71
OK-17	5.16	1.31	7.08	3.13	0.30	0.12	54.32	2.62	0.17	11.24	0.71
OK-18	3.81	1.49	6.80	5.26	0.30	0.10	56.67	2.40	0.15	10.86	0.75
OK-19	2.04	1.13	7.61	2.92	0.27	0.22	60.82	2.38	0.37	10.55	0.68
OK-20	2.35	1.22	6.71	3.02	0.21	0.09	59.15	2.41	0.66	10.94	0.68
OK-21	2.20	1.24	6.80	2.95	0.22	0.10	60.32	2.36	0.61	10.77	0.69
OK-22	16.78	1.24	3.37	3.37	0.20	0.05	52.86	1.56	0.90	7.21	0.44
OK-22a	21.18	1.13	3.04	1.91	0.18	0.03	50.45	1.33	1.12	6.01	0.38

OKANAGAN LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	Mgo	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OK-23	2.13	1.17	6.84	3.88	0.23	0.11	60.46	2.43	0.28	11.06	0.71
OK-24	2.31	1.36	7.20	3.32	0.24	0.09	60.30	3.37	0.88	11.07	0.70
OK-25	2.21	1.27	6.66	3.13	0.22	0.10	59.46	2.54	0.29	11.51	0.69
OK-26	2.32	2.01	4.16	2.14	0.19	0.07	63.67	3.08	0.25	11.62	0.52
OK-27	2.09	1.21	6.84	3.04	0.23	0.12	61.52	2.38	0.19	10.82	0.69
OK-28	2.04	.63	7.68	2127	0.32	0.31	62.26	2.25	0.12	9.94	0.68
OK-29	2.35	1.51	6.61	3.25	0.26	0.11	59.84	2.52	0.22	11.54	0.74
OK-30	3.43	2.06	6.10	4.73	0.26	0.12	58.45	2.88	0.02	11.17	0.66
OK-31	1.87	1.03	7.07	2.62	0.30	0.56	64.62	2.05	0.09	8.97	0.65
OK-32	2.38	1.34	10.35	5.61	0.19	0.17	50.70	3.50	0.00	13.97	0.74
OK-33	2.12	1.17	7.71	3.03	0.31	0.42	61.55	2.24	0.00	10.25	0.70
OK-34	1.99	1.27	7.36	2.57	0.31	0.58	63.44	2.15	0.09	9.72	0.69
OK-35	1.92	1.13	7.27	2.52	0.29	0.54	64.73	2.08	0.08	9.41	0.67
OK-36	2.12	1.22	6.73	2.51	0.27	0.36	64.59	2.10	0.13	9.60	0.70
OK-37	2.39	1.47	7.11	2.63	0.29	0.25	62.29	2.30	0.13	10.60	0.75
OK-38	2.97	1.89	4.44	1.97	0.25	0.08	63.90	2.26	0.15	10.42	0.67
OK-38a	3.28	2.38	4.91	3.20	0.26	0.09	63.28	2.37	0.04	11.62	0.74
OK-39	2.84	2.50	3.42	1.49	0.20	0.07	67.92	2.50	0.04	11.30	0.46
OK-40	3.20	2.40	3.79	1.81	0.20	0.09	66.43	2.40	0.04	11.14	0.49
OK-41	3.00	2.04	5.83	2.23	0.28	0.15	62.65	2.35	0.10	11.37	0.77
OK-42	2.65	1.78	6.54	2.47	0.27	0.13	61.96	2.53	0.09	11.72	0.79
OK-43											
			I N S U F F I C I E N T				S A M P L E S				
OK-44	2171	1.69	5.66	7.78	0.24	0.11	63.68	2.23	0.03	11.09	0.66

OKANAGAN LAKE

	CaO	Na ₂ O	Fe ₂ O ₅	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OKC-1 0-5 cm.	2.08	1.45	6.29	2.76	0.21	0.34	63.69	2.61	0.10	11.13	0.66
OKC-1 20-25 cm.	2.02	1.36	6.31	2.46	0.21	0.30	64.46	2.42	0.05	10.63	0.63
OKC-1 45-50 cm.	1.90	1.56	6.39	2.59	0.23	0.30	65.43	2.43	0.06	10.50	0.63
OKC-1 60-63 cm.	2.41	1.41	9.55	3.48	0.32	0.23	53.06	2.02	0.02	14.73	1.25
OKC-1 97-100 cm.	1.93	1.28	6.21	2.01	0.25	0.38	66.37	2.17	0.08	9.41	0.64
OKC-2 0-5 cm.	1.90	1.22	5.42	2.36	0.25	0.44	66.01	2.25	0.10	9.79	0.66
OKC-2 20-25 cm.	2.01	1.10	6.74	2.29	0.25	0.28	65.12	2.24	0.07	9.89	0.67
OKC-2 45-50 cm.	2.04	1.35	6.90	2.43	0.27	0.26	64.41	2.33	0.07	10.43	0.69
OKC-2 70-75 cm.	2.22	1.31	6.51	2.36	0.24	0.23	65.24	2.23	0.10	10.21	0.71
OKC-2 90-95 cm.	2.17	1.40	6.54	2.37	0.26	0.24	65.62	2.26	0.10	10.22	0.71
OKC-3 0-5 cm.	1.93	1.02	7.17	2.67	0.29	0.47	64.57	2.05	0.11	8.97	0.66
OKC-3 20-25 cm.	1.92	1.10	7.24	2.67	0.31	0.36	64.52	2.12	0.07	9.83	0.67
OKC-3 45-50 cm.	1.92	1.15	6.72	2.39	0.29	0.31	66.14	2.05	0.09	9.40	0.66
OKC-3 70-75 cm.	1.89	1.25	6.85	2.50	0.30	0.33	66.09	2.02	0.07	9.38	0.68
OKC-3 95-100 cm.	1.97	1.17	6.70	2.48	0.28	0.30	66.85	2.05	0.06	9.60	0.70
OKC-3 105-110 cm.	1.94	1.07	6.55	2.47	0.28	0.28	67.10	2.02	0.09	9.28	0.67

SKAHA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₅	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
S-1	4.65	2.10	3.73	1.68	0.24	0.07	61.84	2.34	0.61	10.75	0.43
S-2	1.76	2.44	2.16	1.01	0.08	0.05	73.29	2.79	0.04	10.94	0.19
S-3	2.50	1.64	5.65	2.08	0.26	0.15	63.88	2.48	0.37	10.57	0.58
S-4	2.37	1.46	5.32	1.50	0.21	0.11	66.76	2.28	0.65	9.53	0.53
S-4a	2.65	2.35	5.42	2.56	0.23	0.13	61.36	2.87	0.09	12.74	0.57
S-5	2.08	2.17	2.93	1.24	0.12	0.06	72.22	2.54	0.11	10.32	0.31
S-6	2.58	2.14	3.07	1.44	0.17	0.09	71.59	2.28	0.04	10.60	0.37
S-7	2.51	2.12	3.90	1.61	0.17	0.08	68.98	2.44	0.22	10.59	0.44
S-8	2.02	2.20	3.09	1.56	0.13	0.06	70.68	2.72	0.08	10.66	0.37
S-9	2.39	1.54	5.54	1.90	0.26	0.21	66.33	2.40	0.29	9.71	0.55
S-10	2.85	2.21	6.83	2.13	0.23	0.29	63.66	2.51	0.11	11.40	0.51
S-11	1.69	2.24	1.70	1.01	0.07	0.04	76.03	2.66	0.06	9.69	0.22
S-12	1.95	2.20	2.56	1.26	0.10	0.06	74.30	2.65	0.08	9.98	0.30
S-13	2.09	1.94	5.55	2.12	0.20	0.22	64.18	2.86	0.16	11.81	0.52
S-14	2.09	1.62	5.48	1.90	0.22	0.25	66.25	2.52	0.23	10.11	0.52
S-15	1.82	2.46	2.58	1.20	0.09	0.04	72.16	2.87	0.33	11.02	0.25
S-16	2.09	2.41	3.82	1.76	0.15	0.08	69.26	2.80	0.05	11.13	0.42
S-17	2.33	1.84	5.16	1.99	0.23	0.17	64.34	2.63	0.21	10.76	0.55
S-18	2.14	1.72	5.26	1.88	0.20	0.21	66.28	2.65	0.28	10.67	0.53
S-18a	1.96	2.15	2.68	1.38	0.11	0.05	74.22	2.47	0.10	9.79	0.37
S-19	2.21	1.70	5.55	1.89	0.22	0.26	65.86	2.51	0.23	10.04	0.53
S-20	1.92	1.95	2.68	1.57	0.11	0.06	74.08	2.48	0.09	9.82	0.36
S-21	2.43	1.78	4.77	1.92	0.23	0.09	64.88	2.68	0.18	10.88	0.55
S-22	2.26	2.18	4.98	1.73	0.20	0.17	64.36	2.93	0.13	12.06	0.52
S-23	2.11	1.66	5.37	1.93	0.22	0.22	66.74	2.58	0.24	10.31	0.53
S-24	2.29	1.99	5.25	2.11	0.20	0.16	64.16	2.77	0.18	11.52	0.56

SKAHA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
S-25	2.03	2.05	2.81	1.29	0.12	0.05	74.42	2.38	0.17	9.66	0.39
S-26	2.01	2.14	2.68	1.34	0.13	0.05	72.88	2.59	0.29	10.18	0.34
S-27	2.35	1.80	4.86	2.02	0.21	0.11	64.55	2.68	0.13	10.96	0.55
S-28	2.27	1.88	5.08	2.01	0.23	0.15	64.31	2.77	0.14	11.34	0.53
S-29	2.28	1.77	5.18	1.49	0.25	0.24	68.39	2.30	0.38	9.10	0.52
S-30	2.25	1.99	5.06	1.94	0.20	0.14	65.80	2.69	0.27	10.86	0.53
S-31	2.42	2.12	3.80	1.69	0.20	0.07	67.47	2.72	0.11	10.96	0.47
S-32	3.74	2.28	3.78	1.73	0.23	0.07	64.16	2.73	0.12	11.10	0.48
S-33	3.76	2.48	3.54	1.82	0.21	0.06	65.84	2.80	0.17	11.29	0.43
S-34	2.66	2.50	3.53	1.66	0.20	0.07	65.78	2.86	0.11	11.63	0.43
S-35	2.67	2.63	3.45	1.61	0.20	0.06	66.81	2.86	0.07	11.83	0.41
S-36	2.60	2.69	3.51	1.60	0.21	0.06	67.60	2.79	0.06	11.58	0.44
SC-1 0-5 cm.	2.77	1.95	5.57	2.33	0.26	0.13	62.08	2.60	0.14	11.62	0.58
SC-1 35-40 cm.	2.66	1.38	6.31	1.88	0.23	0.14	64.89	2.33	0.45	9.97	0.57
SC-1 72-75 cm.	2.00	1.17	6.09	1.69	0.25	0.14	67.26	2.11	0.37	9.09	0.53
SC-1 81-86 cm.	1.97	1.45	5.99	1.66	0.24	0.13	67.49	2.16	0.44	9.17	0.54
SC-2 6-8 cm.	1.95	1.41	6.32	1.77	0.26	0.23	66.73	2.33	0.23	7.67	0.55
SC-2 32-34 cm.	2.00	1.39	5.95	1.73	0.23	0.21	65.96	2.45	0.19	10.03	0.53
SC-2 50-52 cm.	1.81	1.40	6.31	1.70	0.26	0.24	67.15	2.25	0.21	9.16	0.55

SKAHA LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
SC-2 72-75 cm.	1.71	1.14	5.93	1.39	0.26	0.24	67.15	2.24	0.21	9.16	0.55
SC-2 96-100 cm.	1.81	1.17	5.53	1.56	0.24	0.22	69.73	2.18	0.18	9.03	0.51

OSOYOOS LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O ₃	S	Al ₂ O ₃	TiO ₂
OS-1	3.29	1.91	4.57	2.20	0.24	0.14	64.25	2.31	0.29	10.55	0.52
OS-2	2.80	2.05	3.57	2.05	0.21	0.07	66.23	2.40	0.11	11.42	0.49
OS-3	2.81	1.80	5.48	2.61	0.26	0.16	62.46	2.39	0.26	10.90	0.58
OS-4	2.80	1.78	5.91	2.98	0.27	0.18	60.82	2.46	0.18	11.20	0.61
OS-5	2.52	1.71	6.05	2.75	0.22	0.16	62.35	2.43	0.22	10.77	0.59
OS-6	2.53	1.66	6.71	2.86	0.27	0.23	61.26	2.41	0.21	10.77	0.62
OS-7	2.65	1.66	6.93	2.98	0.27	0.27	60.43	2.46	0.26	11.02	0.64
OS-8	2.84	1.82	6.45	2.87	0.28	1.00	60.11	2.40	0.18	10.65	0.60
OS-8a	2.70	1.67	6.38	2.73	0.26	1.15	60.63	2.37	0.36	10.58	0.59
OS-9	2.53	1.99	5.98	2.63	0.21	0.15	62.81	2.43	0.51	11.23	0.58
OS-10	2.59	1.56	6.70	2.65	0.25	0.19	60.79	2.42	0.20	10.93	0.63
OS-11	2.48	1.59	6.45	2.56	0.22	0.17	62.50	2.41	0.28	10.76	0.60
OS-12	2.02	2.33	2.00	1.04	0.08	0.06	74.90	2.48	0.20	9.83	0.25
OS-13	3.50	1.35	5.84	2.51	0.25	0.13	61.48	2.16	0.76	9.36	0.58
OS-14	3.87	1.09	5.61	2.08	0.27	0.17	64.29	1.94	0.52	8.22	0.52
OS-15	2.94	1.44	6.30	2.50	0.23	0.13	61.05	2.22	0.47	9.78	0.59
OS-16	6.38	1.90	1.22	1.04	0.14	0.05	70.58	2.40	0.14	8.22	0.18
OS-16a	39.43	0.60	1.19	0.88	0.05	0.10	29.52	0.62	0.11	2.47	0.11
OS-17	2.80	1.80	2.49	1.21	0.12	0.07	72.67	2.39	0.09	9.97	0.29
OS-18	3.01	2.12	5.52	1.82	0.17	0.09	67.79	2.44	0.21	10.81	0.44
OS-19	3.33	1.40	5.13	2.26	0.26	0.15	64.50	2.27	0.49	9.60	0.54
OS-20	4.47	2.43	3.14	1.48	0.18	0.14	68.36	2.31	0.24	9.86	0.40
OS-21	2.49	1.44	5.79	2.68	0.22	0.13	61.91	2.55	0.27	11.03	0.62
OS-22	2.48	1.69	5.85	2.51	0.22	0.18	62.33	2.48	0.22	10.81	0.60
OS-23	3.00	1.43	5.13	2.15	0.23	0.16	65.45	2.24	0.45	9.36	0.54

OSOYOOS LAKE

	CaO	Na ₂ O	Fe ₂ O ₃	MgO	P ₂ O ₃	MnO	SiO ₂	K ₂ O	S	Al ₂ O ₃	TiO ₂
OSC-1 25-30 cm.	2.30	1.74	6.85	2.87	0.21	0.40	62.20	2.29	0.25	10.55	0.16
OSC-1 55-60 cm.	2.33	1.75	7.13	2.99	0.24	0.39	61.60	2.33	0.14	10.87	0.62
OSC-1 80-85 cm.	2.27	1.90	7.49	3.18	0.27	0.36	61.06	2.32	1.14	10.88	0.65
OSC-1 110-115 cm.	4.70	1.03	5.40	2.01	0.29	0.17	63.70	1.88	0.70	7.95	0.52
OSC-2 0-5 cm.	4.69	1.13	5.45	2.08	0.29	0.18	63.93	1.92	0.71	7.90	0.52
OSC-2 25-30 cm.	2.71	1.36	6.39	2.37	0.24	0.17	61.93	2.26	0.49	10.10	0.56
OSC-2 45-50 cm.	3.02	1.30	6.51	2.40	0.21	0.17	62.61	2.06	0.59	9.38	0.56
OSC-2 70-75 cm.	2.28	1.18	7.29	2.40	0.38	0.17	62.56	1.94	0.62	8.93	0.55
OSC-2 90-95 cm.	1.99	1.21	6.45	2.31	0.18	0.13	64.76	2.08	0.76	9.64	0.53
OSC-3 0-5 cm.	2.94	1.39	5.33	2.32	0.24	0.18	63.98	2.35	0.41	9.84	0.56
OSC-3 30-35 cm.	2.02	1.28	5.99	2.46	0.17	0.12	64.24	2.40	0.42	10.34	0.60
OSC-3 55-60 cm.	2.00	1.40	5.77	2.34	0.17	0.11	65.00	2.41	0.28	10.72	0.59
OSC-3 70-75 cm.	1.99	2.23	3.69	1.37	—	0.08	68.32	2.21	0.09	11.29	0.37
OSC-3 90-95 cm.	2.08	1.68	5.18	2.67	0.19	0.13	62.89	2.67	0.17	11.76	0.62

APPENDIX 3

ACID - EXTRACTABLE

MAJOR ELEMENTS

AND TOTAL MERCURY

CONTENT OF SAMPLES

FROM OKANAGAN MAINSTEM LAKES

(BY ATOMIC ABSORPTION SPECTROPHOTOMETRY)

MERCURY VALUES AS PARTS-PER-BILLION

ALL OTHER VALUES AS PARTS-PER-MILLION

WOOD LAKE

	Hg	Mn	Fe	K	Mg	Ca
W-1	222	400	5600	550	1900	16500
W-1a	997	520	6200	710	3900	100000
W-2	861	1330	40700	2850	9700	54000
W-3	639	1860	36900	2780	3700	32000
W-4	2139	1600	27400	2160	7500	75000
W-5	162	600	25000	1370	5500	5000

KALAMALKA LAKE

	Hg	Fe	Mn	K	Mg
K-1	436	22700	694	4000	8800
K-2	863	2840	113	540	5700
K-2a	188	INSUFFICIENT SAMPLES			
K-3	102	8700	301	450	4000
K-4	350	24900	773	3150	9700
K-5	286	19100	1480	1650	8000
K-5a	290	26950	1620	3240	9500
K-6	1619	24600	3210	3150	5500
K-7	187	18400	605	1360	5100
K-7a	77	45400	1210	6050	16500
K-8	315	2885	171	670	5200
K-8a	230	870	60	400	5300
K-9	579	2885	121	540	5000
K-10	1874	5680	174	840	3100

OKANAGAN LAKE

	Hg	Fe	Mn	K	Mg	Ca
OK-1	202	25000	1200	2250	6700	1000
OK-2	112	29500	1000	2500	5100	1200
OK-3	244	33500	2500	2950	9000	950
OK-4	552	15500	250	2500	6900	25000
OK-5	86	16000	200	1500	5400	1660
OK-6	70	12500	140	1100	4000	1000
OK-7	53	29500	660	2000	6700	1200
OK-8	132	32000	1900	2600	8500	1500
OK-9	75	27000	370	2700	8500	1000
OK-9a	112	7500	113	700	2400	15000
OK-10	150	20500	365	2000	6700	1500
OK-11	231	36000	4900	3000	9100	1400
OK-11a	112	48000	222	2600	5800	1500
OK-12	290	33000	2700	2900	8500	1000
OK-13	332	35800	700	2950	9500	1200
OK-14	191	41100	1000	2750	9500	1200
OK-15	409	32300	600	2550	11500	55000
OK-16	777	42500	1000	3900	14000	25000
OK-17	279	36500	600	3000	13500	24000
OK-18	240	32000	300	1400	10800	6400
OK-19	594	36699	1100	2500	11000	1400
OK-20	589	28500	300	3250	10550	1900
OK-21	555	27600	300	3900	10500	1500
OK-22	442	10600	100	1150	4500	11400

OKANAGAN LAKE

	Hg	Fe	Mn	K	Mg	Ca
OK-22a	528	9400	100	1400	5400	17000
OK-23	160	25000	400	2850	10400	4000
OK-24	658	29200	400	2750	10400	1700
OK-25	478	28200	400	2500	10400	1600
OK-26	222	42100	400	11420	6300	5700
OK-27	INSUFFICIENT SAMPLES					
OK-28	256	42100	1900	3750	11500	1500
OK-29	252	34500	700	3500	13000	2400
OK-30	119	39100	650	1900	15510	3000
OK-31	196	39100	3000	3000	12100	1500
OK-32	111	41300	1250	7500	24600	5200
OK-33	256	45700	2750	3500	14100	2000
OK-34	256	42000	3500	3250	11600	1500
OK-35	265	41500	3500	3000	11200	1500
OK-36	231	41000	1400	3000	10800	1500
OK-37	222	40000	1000	3000	10300	1500
OK-38	188	22600	400	1500	6200	1800
OK-38a	34	26500	400	2000	6500	1700
OK-39	128	17600	300	1150	4000	1200
OK-40	65	19000	350	1500	4700	1700
OK-41	120	36000	950	2400	7500	1600
OK-42	120	36000	840	2700	9800	1600
OK-43	INSUFFICIENT SAMPLES					
OK-44	102	29000	570	2400	7800	1500

SKAHA LAKE

	Hg	Fe	Mn	K	Mg	Ca
S-1	1355	11700	60	1400	3300	14000
S-2	64	13800	300	640	2700	————
S-3	2181	29000	900	3300	8100	————
S-4	187	28000	650	3100	7300	————
S-5	60	16000	260	890	3300	————
S-6	43	13200	220	1000	2600	720
S-7	119	21000	380	1300	5100	————
S-8	94	20000	390	1700	5500	————
S-9	247	29000	1500	2800	7500	————
S-10	94	29700	1500	2000	4900	1080
S-11	247	9100	140	870	2300	————
S-12	60	15000	350	980	3700	————
S-13	230	30300	1390	3400	6600	760
S-14	1917	31000	1750	3100	7900	————
S-15	128	28200	1300	3000	5800	1040
S-16	68	24000	450	1400	6100	————
S-17	265	29000	1150	2800	7900	————
S-18	213	28000	1170	2900	5800	720
S-19	256	32000	1850	3500	8200	————
S-20	77	14000	250	1100	4000	————
S-21	196	27000	450	2800	7400	————
S-22	136	28000	820	3000	5700	720
S-23	196	31000	1550	3200	8000	————
S-24	1389	28000	1000	2900	7800	1300

SKAHA LAKE

	Hg	Fe	Mn	K	Mg	Ca
S-25	119	31000	216	980	2900	700
S-26	170	10200	177	950	2000	560
S-27	247	26000	702	2500	6500	1500
S-28	1832	27400	950	2700	6500	1000
S-29	332	28000	1500	2800	7200	1700
S-30	302	28500	950	1600	4900	1400
S-31	196	20400	350	1500	4000	1300
S-32	307	19000	205	1600	4300	5400
S-33	332	19000	300	1700	4400	7900
S-34	187	19000	300	1700	4400	1500
S-35	111	19000	300	1800	4300	1200
S-36	111	27000	510	2400	7000	1800

OSOYOOS LAKE

	Hg	Fe	Mn	K	Mg	Ca
OS-1	162	22000	820	2100	6650	4600
OS-2	252	15000	400	1360	4650	700
OS-3	111	27300	960	3130	8700	1810
OS-4	128	30600	1120	3140	9000	1690
OS-5	316	31200	920	3030	9100	1730
OS-6	333	38500	1400	3930	11500	2380
OS-7	282	36400	1500	3500	10000	1730
OS-8	273	38500	6440	3940	11250	3450
OS-8a	INSUFFICIENT SAMPLE					
OS-9	325	28000	840	2700	8600	1250
OS-10	303	34400	1060	3400	10000	1730
OS-11	239	35000	1000	3300	10600	2200
OS-12	111	7500	200	500	2400	3300
OS-13	529	27500	600	3100	9100	7000
OS-14	769	27000	980	2900	8400	12500
OS-15	436	31000	600	3200	10400	4200
OS-16	179	60000	200	550	2600	52000
OS-16a	—	3500	600	600	6900	33000
OS-17	111	10500	250	600	2000	6200
OS-18	162	15000	400	1550	5100	9700
OS-19	INSUFFICIENT SAMPLE					
OS-20	111	10000	400	500	3200	21500
OS-21	436	30000	720	3000	9800	2100
OS-22	444	31000	1100	2900	9200	2000
OS-23	436	25000	800	3000	8100	5000

APPENDIX 4

ORGANIC CARBON AND INORGANIC

CARBON CONTENT OF

SAMPLES FROM OKANAGAN

MAINSTEM LAKES

(BY COMBUSTION)

ALL VALUES AS PERCENT

WOOD LAKE

	ORGANIC CARBON	INORGANIC CARBON
W-1	1.30	0.56
W-1a	1.48	3.48
W-2	5.54	2.32
W-3	5.06	2.38
W-4	5.06	2.92
W-5	2.69	0.36
WC-1		
0-5 cm.	6.09	2.54
20-25 cm.	4.71	0.45
45-50 cm.	4.14	—
70-75 cm.	2.46	0.16
85-90 cm.	5.58	0.88

KALAMALKA LAKE

	ORGANIC CARBON	INORGANIC CARBON
K-1	3.26	4.02
K-2	1.89	10.02
K-2a	1.89	10.17
K-3	2.59	3.26
K-4	3.54	4.42
K-5	2.90	5.35
K-5a	3.46	3.18
K-6	3.59	3.02
K-7	0.84	0.60
K-7a	0.29	0.67
K-8	2.08	10.32
K-8a	1.73	10.22
K-9	2.33	10.34
K-10	4.54	1.74
KC-1		
0-5 cm.	3.14	4.88
20-25 cm.	3.29	4.39
40-45 cm.	3.64	3.71
60-65 cm.	2.79	5.61
85-90 cm.	4.84	0.93
KC-2		
0-5 cm.	2.83	10.06
20-25 cm.	1.93	0.55
40-45 cm.	2.08	10.36
70-75 cm.	1.98	10.69
95-100 cm.	1.59	10.36
120-125 cm.	2.23	9.96

OKANAGAN LAKE

	ORGANIC CARBON	INORGANIC CARBON
OK-1	1.06	0.35
OK-2	1.50	0.26
OK-3	1.70	0.35
OK-4	2.52	0.02
OK-5	1.11	0.11
OK-6	0.37	0.15
OK-7	1.02	0.15
OK-8	1.79	0.06
OK-9	1.17	——
OK-9a	0.34	0.49
OK-10	0.92	0.69
OK-11	1.95	0.44
OK-11a	1.85	0.15
OK-12	2.19	0.05
OK-13	2.52	0.12
OK-14	1.99	0.01
OK-15	3.16	1.50
OK-16	2.67	0.80
OK-17	2.04	1.13
OK-18	3.55	0.26
OK-19	3.45	0.21
OK-20	5.01	0.09
OK-21	4.32	0.65
OK-22	2.99	3.38
OK-22a	2.76	4.63
OK-23	4.74	0.22
OK-24	3.53	0.07
OK-25	3.67	0.27
OK-26	2.51	0.06
OK-27	3.53	0.03
OK-28	3.09	0.36
OK-29	2.56	0.65
OK-30	1.69	0.01
OK-31	2.70	0.60

OKANAGAN LAKE

	ORGANIC CARBON	INORGANIC CARBON
OK-32	0.53	0.14
OK-33	2.80	0.24
OK-34	2.90	—
OK-35	2.81	0.34
OK-36	3.58	0.16
OK-37	2.78	0.36
OK-38	2.64	0.23
OK-38a	0.87	0.05
OK-39	1.05	0.07
OK-40	1.77	0.08
OK-41	1.39	0.60
OK-42	2.17	—
OK-43	1.32	—

OKANAGAN LAKE

	ORGANIC CARBON	INORGANIC CARBON
OKC-1		
0-5 cm	2.08	0.15
20-25 cm.	1.84	0.14
45-50 cm.	2.43	0.05
60-63 cm.	.58	0.14
97-100 cm.	2.47	——
OKC-2		
20-25 cm.	2.55	0.35
45-50 cm.	2.26	0.01
70-75 cm.	2.55	0.21
90-95 cm.	2.38	0.17
OKC-3		
0-5 cm.	3.14	1.07
20-25 cm.	2.73	0.37
45-50 cm.	2.59	0.02
70-75 cm.	2.25	0.32
95-100 cm.	2.20	0.21
105-110 cm.	2.19	0.22

SKAHA LAKE

	ORGANIC CARBON	INORGANIC CARBON
S-1	3.84	0.31
S-2	0.71	—
S-3	3.39	0.14
S-4	3.16	0.13
S-4a	1.68	0.23
S-5	1.05	—
S-6	0.67	0.04
S-7	1.38	0.19
S-8	0.95	0.05
S-9	2.87	0.09
S-10	0.71	—
S-11	1.05	—
S-12	0.57	0.14
S-13	1.81	0.29
S-14	2.25	0.13
S-15	0.48	0.09
S-16	0.54	0.12
S-17	2.05	0.38
S-18	1.94	0.53
S-18a	—	0.66
S-19	2.46	0.13
S-20	0.71	—
S-21	1.90	0.23
S-22	1.86	0.05
S-23	2.00	0.29
S-24	2.20	0.13
S-25	0.38	0.09
S-26	0.81	0.61
S-27	1.96	—
S-28	1.96	0.23
S-29	2.54	0.37

SKAHA LAKE

	ORGANIC CARBON	INORGANIC CARBON
S-30	2.16	0.32
S-31	1.43	—
S-32	1.67	0.42
S-33	1.48	0.46
S-34	1.62	0.13
S-35	1.09	0.14
S-36	1.05	0.09
SC-1		
0-5 cm.	2.10	1.03
35-40 cm.	3.07	0.17
72-75 cm.	3.45	0.06
81-86 cm.	3.12	0.06
SC-2		
6-8 cm.	2.59	0.05
32-34 cm.	2.49	0.12
50-52 cm.	2.60	0.08
72-75 cm.	2.88	0.17
96-100 cm.	2.53	0.08

OSOYOOS LAKE

	ORGANIC CARBON	INORGANIC CARBON
OS-1	1.84	0.80
OS-2	1.06	0.33
OS-3	2.61	0.11
OS-4	2.40	0.49
OS-5	2.40	0.46
OS-6	2.59	0.41
OS-7	2.69	0.41
OS-8	2.78	0.46
OS-8a	2.69	0.22
OS-9	2.30	0.06
OS-10	2.40	0.41
OS-11	2.78	0.13
OS-12	0.91	0.05
OS-13	4.47	0.21
OS-14	4.76	0.63
OS-15	4.73	0.47
OS-16	1.64	0.69
OS-16a	1.77	8.67
OS-17	0.77	0.46
OS-18	1.20	0.49
OS-19	3.77	0.36
OS-20	0.88	0.56
OS-21	3.17	0.33
OS-22	2.78	0.29
OS 23	3.27	0.28

OSOYOOS LAKE

	ORGANIC CARBON	INORGANIC CARBON
OSC-1		
25-30 cm.	2.71	0.47
55-60 cm.	2.32	0.01
80-95 cm.	2.12	0.19
110-115 cm.	1.76	0.07
OSC-2		
0-5 cm.	5.18	0.41
25-30 cm.	3.58	0.76
45-50 cm.	4.29	0.61
70-75 cm.	4.86	0.35
90-95 cm.	4.22	0.12
OSC-3		
0-5 cm.	3.53	0.26
30-35 cm.	3.58	0.02
55-60 cm.	2.60	0.23
70-75 cm.	1.13	0.07
90-95 cm.	2.21	0.19

CARBON CONTENT OF
SUBSAMPLES FROM CORES
FROM DEEPEST POINTS
OF EACH OF
OKANAGAN MAINSTEM LAKES

(DATA PROVIDED BY DR. A.L.W. KEMP)

WOOD LAKE

	ORGANIC CARBON	INORGANIC CARBON
0-1 cm.	7.92	4.68
1-2 cm.	4.75	5.27
2-3 cm.	2.16	7.76
4-6 cm.	6.02	3.24
9-11 cm.	3.03	5.23
19-21 cm.	2.49	4.35
39-41 cm.	2.78	2.49
73-75 cm.	0.87	0.50
75-77 cm.	1.47	1.17

KALAMALKA LAKE

	ORGANIC CARBON	INORGANIC CARBON
0-1 cm.	3.36	6.30
1-2 cm.	3.41	5.47
2-3 cm.	2.91	6.07
4-6 cm.	2.77	4.91
9-11 cm.	4.14	1.52
19-21 cm.	2.93	4.47
39-41 cm.	3.85	3.17
73-75 cm.	2.34	5.74
96-98 cm.	3.83	2.79

OKANAGAN LAKE

	ORGANIC CARBON	INORGANIC CARBON
0-1 cm.	3.18	1.04
1-2 cm.	2.84	0.58
2-3 cm.	2.46	0.96
4-6 cm.	2.51	0.54
9-11 cm.	1.60	0.64
19-21 cm.	1.89	0.68
32-35 cm.	1.17	0.44
39-41 cm.	1.27	0.53
90-92 cm.	1.10	0.61

SKAHA LAKE

	ORGANIC CARBON	INORGANIC CARBON
0-1 cm.	4.09	1.13
1-2 cm.	3.40	0.63
2-3 cm.	2.29	0.89
4-6 cm.	1.63	0.16
9-11 cm.	2.27	0.28
19-21 cm.	1.96	0.21
39-41 cm.	2.48	0.21
81-83 cm.	2.25	0.39

OSOYOOS LAKE

	ORGANIC CARBON	INORGANIC CARBON
0-1 cm.	3.17	0.77
1-2 cm.	3.13	0.48
2-3 cm.	3.03	0.66
4-6 cm.	3.27	0.61
9-11 cm.	2.62	0.37
19-21 cm.	1.96	0.22
36-37 cm.	1.12	0.23
39-40 cm.	1.88	0.23
101-103 cm.	1.33	0.11

APPENDIX 5

ACID-EXTRACTABLE PHOSPHORUS

IN SAMPLES

FROM OKANAGAN MAINSTEM LAKES

ALL VALUES IN PARTS-PER-MILLION

WOOD LAKE

	W-1	W-1a	W-2	W-3	W-4	W-5
Acid extractable P(1N HCl)	787	609	753	753	698	1085

KALAMALKA LAKE

Acid extractable
P(1N HCl)

K-1	K-2	K-2a	K-3	K-4	K-5	K-5a	K-6	K-7	K-8	K-9	K-10
647	58	44	416	672	601	788	625	515	41	51	471

OKANAGAN LAKE

Acid extractable
P(1N HCl)

OK-1	OK-2	OK-3	OK-4	OK-5	OK-6	OK-7	OK-8	OK-9	OK-9a
986	884	1068	706	761	870	911	1082	819	379
OK-10	OK-11	OK-11a	OK-12	OK-13	OK-14	OK-15	OK-16	OK-17	
911	1485	3130	1181	1171	1675	931	955	1027	
OK-18	OK-19	OK-20	OK-21	OK-22	OK-22a	OK-23	OK-24	OK-25	
1055	1123	678	705	538	387	744	839	911	
OK-26	OK-27	OK-28	OK-29	OK-30	OK-31	OK-32	OK-33	OK-34	
890	846	1404	1007	1086	1103	675	1394	1575	

OKANAGAN LAKE

Acid extractable
P(1N HCl)

OK-35	OK-36	OK-37	OK-38	OK-38a	OK-39	OK-40	OK-41	OK-42
1473	1425	1339	1188	990	1271	935	1294	1298
OK-43	OK-44							
—	1127							

SKAHA LAKE

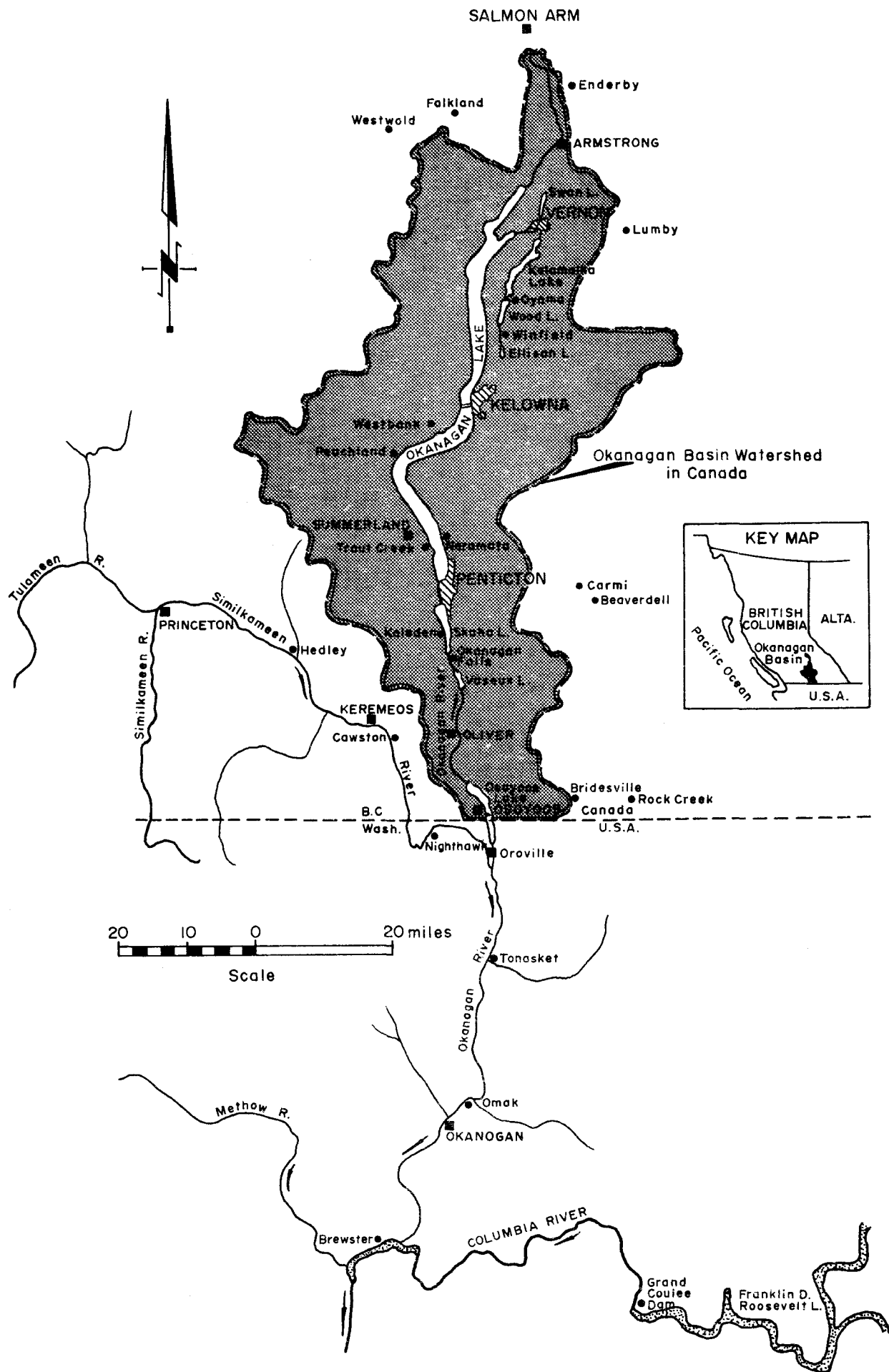
Acid extractable
P(1N HCl)

S-1	S-2	S-3	S-4	S-4a	S-5	S-6	S-7	S-8	S-9	S-10	S-11
967	366	974	898	1130	560	756	801	701	1164	1009	273
S-12	S-13	S-14	S-15	S-16	S-17	S-18	S-18a	S-19	S-20	S-21	
522	1033	1078	411	770	1123	991	577	1043	553	1026	
S-22	S-23	S-24	S-25	S-26	S-27	S-28	S-29	S-30	S-31	S-32	
972	1010	941	568	554	965	1078	1212	1006	928	1013	
S-33	S-34	S-35	S-36								
876	969	969	989								

OSOYOOS LAKE

Acid extractable
P(1N HCl)

OS-1	OS-2	OS-3	OS-4	OS-5	OS-6	OS-7	OS-8	OS-8a	OS-9
1086	1086	1121	1141	931	1086	1048	1083	986	1014
OS-10	OS-11	OS-12	OS-13	OS-14	OS-15	OS-16	OS-16a	OS-17	
1062	952	351	826	1031	771	308	232	490	
OS-18	OS-19	OS-20	OS-21	OS-22	OS-23				
715	823	862	862	848	870				



OKANAGAN DRAINAGE BASIN IN CANADA