Table A4.1. Fall 2002 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
PON	4	11/12/2002	605	930	465	Rerun confirmed
PON	5	11/12/2002	550	586	437	
PON	6	11/12/2002	865	930	735	Rerun confirmed
PON	7	11/12/2002	688	437	409	
PON	8	11/12/2002	523	372	326	
PON	9	11/12/2002	545	456	772	
PON	10	11/12/2002	372	528	391	
PON	11	11/12/2002	428	446	446	
PON	12	11/12/2002	856	551	533	
PON	13	11/12/2002	344	335	326	
PON	14	11/12/2002	1209	553	660	Rerun confirmed
PON	15	11/12/2002	800	547	556	
PON	16	11/12/2002	1023	556	437	Rerun confirmed
PON	17	11/12/2002	344	335	279	
PON	18	11/12/2002	781	363	326	
PON	19	11/12/2002	456	326	298	
PON	20	11/12/2002	893	660	540	
PON	21	11/12/2002	688	595	526	
PON	22	11/12/2002	549	493	372	
REN	1	10/16/2002	42	54	17	Rerun confirmed
REN	2	10/16/2002	40	24	9	
REN	3	10/16/2002	71	91	34	Rerun confirmed
REN	4	10/16/2002	63	37	10	
REN	5	10/16/2002	28	25	11	
REN	6	10/16/2002	29	23	9	
REN	7	10/16/2002	25	24	5	
REN	8	10/16/2002	21	16	8	
REN	9	10/16/2002	32	26	11	
REN	10	10/16/2002	49	42	12	
REN	11	10/16/2002	41	40	14	
REN	12	10/16/2002	30	21	17	
REN	13	10/16/2002	43	33	10	
REN	14	10/16/2002	38	31	10	
REN	15	10/16/2002	38	18	6	
REN	16	10/16/2002	40	27	19	
REN	17	10/16/2002	28	22	10	
REN	18	10/16/2002	41	49	20	Rerun confirmed
REN	19	10/16/2002	35	29	9	
REN	20	10/16/2002	36	45	7	Rerun confirmed
REN	21	10/16/2002	42	44	11	
REN	22	10/16/2002	32	33	16	
REN	23	10/16/2002	32	37	8	
REN	24	10/16/2002	32	52	9	

Table A4.1. Fall 2002 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
REN	25	10/16/2002	45	47	14	
REN	26	10/16/2002	28	27	12	
REN	27	10/16/2002	24	15	6	
REN	28	10/16/2002	37	39	14	
STV	1	9/26/2002	6	2	2	2.5 is half of detection limit
STV	2	9/26/2002	8	2	2	2.5 is half of detection limit
STV	3	9/26/2002	2	2	2	2.5 is half of detection limit
THC	1	10/24/2002	90	65	48	
THC	3	10/24/2002	47	33	18	
THC	4	10/24/2002	47	44	30	
THC	6	10/24/2002	43	32	23	
THC	7	10/24/2002	61	52	38	
THC	8	10/24/2002	35	27	17	
THC	9	10/24/2002	54	43	33	
THC	10	10/24/2002	42	23	14	
THC	11	10/24/2002	39	24	14	
THC	12	10/24/2002	48	32	25	
THC	13	10/24/2002	82	67	41	Rerun confirmed
THC	14	10/24/2002	57	46	36	
THC	15	10/24/2002	40	25	20	
THC	16	10/24/2002	31	21	12	
THC	17	10/24/2002	34	25	15	
THC	18	10/24/2002	38	25	17	
THC	19	10/24/2002	35	31	12	
THC	20	10/24/2002	23	17	11	
THC	21	10/24/2002	48	35	18	
THC	22	10/24/2002	30	18	11	
THC	23	10/24/2002	30	16	5	
THC	24	10/24/2002	26	16	6	
THC	25	10/24/2002	51	34	25	
THC	26	10/24/2002	48	34	16	
THC	27	10/24/2002	22	10	2	Rerun confirmed
THC	28	10/24/2002	34	20	10	
THC	29	10/24/2002	61	40	25	
WAB	1	10/30/2002	25	23	23	
WAB	2	10/30/2002	54	50	50	Rerun confirmed
WAB	3	10/30/2002	47	52	49	
WAB	4	10/30/2002	40	42	34	
WAB	5	10/30/2002	32	27	34	
WAB	6	10/30/2002	48	45	42	
WAB	7	10/30/2002	33	31	31	
WAB	8	10/30/2002	43	43	36	

Table A4.1. Fall 2002 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
WAB	9	10/30/2002	23	29	24	Rerun confirmed
WAB	10	10/30/2002	32	32	29	
WAB	11	10/30/2002	38	35	24	
WAB	12	10/30/2002	50	45	32	
WAB	13	10/30/2002	46	37	34	Mixed labels in field
WAB	14	10/30/2002	34	33	28	Mixed labels in field
WAB	15	10/30/2002	35	31	27	
WAB	16	10/30/2002	35	38	27	
WAB	17	10/30/2002	37	37	29	
WAB	18	10/30/2002	37	33	34	
WAB	19	10/30/2002	34	34	28	
WAB	20	10/30/2002	43	42	38	
WAB	21	10/30/2002	23	23	20	
WAB	22	10/30/2002	43	45	40	
WAB	23	10/30/2002	26	26	36	
WAB	24	10/30/2002	27	31	30	
WAB	25	10/30/2002	27	26	24	
WAB	26	10/30/2002	55	55	54	Rerun confirmed
WAB	27	10/30/2002	33	36	30	

[z] Upper detection limit (DL) = 60 mg kg^{-1}.

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	1	9/24/2003	38	35	15	
CFT	2	9/24/2003	43	36	25	
CFT	3	9/24/2003	40	37	26	
CFT	4	10/1/2003	50	29	18	Rerun confirmed (0-2.5)
CFT	5	10/1/2003	19	49	31	
CFT	6	10/1/2003	42	29	30	
CFT	7	10/1/2003	54	38	59	
CFT	8	10/1/2003	40	39	24	
CFT	9	9/24/2003	34	37	22	
CFT	10	10/1/2003	22	18	9	
CFT	11	11/18/2003	55	50	37	
CFT	12	11/18/2003	31	31	21	
CFT	13	11/18/2003	50	33	29	
CFT	14	9/24/2003	22	23	12	Rerun confirmed (5-15)
CFT	15	10/1/2003	46	51	22	
CFT	16	10/1/2003	15	31	31	
CFT	17	9/24/2003	49	44	17	
CFT	18	9/24/2003	33	33	25	
CFT	19	9/24/2003	242	284	194	Manured knoll, Rerun confirmed
CFT	20	9/24/2003	75	64	26	
CFT	21	11/18/2003	36	42	39	
CFT	22	11/18/2003	46	42	46	
CFT	23	9/24/2003	31	31	10	
CFT	24	9/24/2003	27	25	12	Rerun confirmed (5-15)
CFT	25	10/1/2003	24	8	24	Rerun confirmed (2.5-5)
CFT	26	10/1/2003	77	82	49	Rerun confirmed
CFT	27	11/18/2003	38	37	40	
CFT	28	11/18/2003	56	52	62	
CFT	29	11/18/2003	43	34	43	
CFT	30	10/1/2003	44	41	23	
CFT	31	10/1/2003	35	21	13	
CFT	32	10/1/2003	96	94	33	
CFT	33	11/18/2003	43	39	42	
CFT	34	11/18/2003	54	63	54	Rerun confirmed (0-2.5,2.5-5)
CFT	35	11/18/2003	35	38	36	
CFT	36	11/18/2003	59	67	72	
CFT	37	11/18/2003	58	45	61	
CFT	38	11/18/2003	38	33	34	
CFT	39	11/18/2003	29	26	30	
CFT	40	11/18/2003	33	29	33	
CFT	41	10/1/2003	32	51	49	
CFT	42	10/1/2003	14	6	18	Rerun confirmed (2.5-5)

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	43	10/1/2003	58	46	24	
CFT	44	9/24/2003	34	34	5	Rerun confirmed (5-15)
CFT	45	10/1/2003	60	62	41	
CFT	46	11/18/2003	35	37	30	
CFT	47	10/1/2003	50	43	20	
CFT	48	10/1/2003	77	56	32	
GPC	1	10/8/2003	37	41	27	
GPC	4	10/8/2003	31	13	6	Rerun confirmed (5-15)
GPC	5	10/8/2003	36	36	29	
GPC	6	10/8/2003	39	42	33	
GPC	7	10/8/2003	55	55	38	
GPC	9	10/8/2003	35	7	17	Rerun confirmed (0-2.5)
GPC	10	10/8/2003	55	67	43	Rerun confirmed (2.5-5)
GPC	11	10/8/2003	45	46	45	
GPC	12	10/8/2003	38	36	19	
GPC	13	10/8/2003	53	46	16	
GPC	15	10/8/2003	46	47	29	
GPC	16	10/8/2003	68	57	45	Rerun confirmed (0-2.5)
GPC	17	10/8/2003	57	60	48	
GPC	18	10/8/2003	44	43	28	
GPC	21	10/8/2003	53	57	36	
GPC	22	10/8/2003	62	64	40	
GPC	23	10/8/2003	33	36	20	
GPC	24	10/8/2003	44	45	33	
GPC	26	10/8/2003	77	51	20	Rerun confirmed (0-2.5)
GPC	27	10/8/2003	73	41	21	Rerun confirmed (0-2.5)
GPC	28	10/8/2003	48	55	24	
GPC	30	10/8/2003	35	35	18	New contributing area
GPC	31	10/8/2003	39	43	21	New contributing area
GPC	32	10/8/2003	7	2	1	New contributing area, in channel
GPC	33	10/8/2003	41	48	14	New contributing area
GPC	34	10/8/2003	54	53	45	New contributing area
GPC	35	10/8/2003	64	59	44	New contributing area
GPC	36	10/8/2003	46	49	40	New contributing area
LLB	1	11/18/2003	84	76	82	
LLB	2	11/18/2003	433	479	344	Rerun confirmed
LLB	3	11/18/2003	260	247	246	
LLB	4	11/18/2003	71	64	87	
LLB	5	11/18/2003	164	162	160	
LLB	6	11/18/2003	60	53	47	
LLB	7	11/18/2003	221	223	191	
LLB	8	11/18/2003	196	241	188	Rerun confirmed (0-2.5, 2.5-5)
LLB	9	11/18/2003	329	229	218	Rerun confirmed (0-2.5)

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
LLB	10	11/18/2003	274	332	352	Rerun confirmed (0-2.5)
LLB	11	11/18/2003	314	307	269	
LLB	12	11/18/2003	727	636	594	Rerun confirmed (0-2.5, 5-15)
LLB	13	11/18/2003	276	293	304	
LLB	14	11/18/2003	304	166	178	Rerun confirmed (0-2.5)
LLB	15	11/18/2003	257	217	233	
LLB	16	11/18/2003	152	210	235	Rerun confirmed (0-2.5)
LLB	17	11/18/2003	182	185	174	
LLB	18	11/18/2003	99	97	314	Rerun confirmed check
LLB	19	11/18/2003	96	117	73	
LLB	20	11/18/2003	76	82	71	
LLB	21	11/18/2003	82	83	94	
LLB	22	11/18/2003	172	204	272	Rerun confirmed (5-15)
LLB	23	11/18/2003	242	221	208	
LLB	24	11/18/2003	342	350	300	
LLB	25	11/18/2003	268	286	256	
LLB	26	11/18/2003	176	156	176	
LLB	27	11/18/2003	240	274	232	
LLB	28	11/18/2003	283	276	220	
LLB	29	11/18/2003	412	367	293	
LLB	30	11/18/2003	222	257	238	
LLB	31	11/18/2003	482	517	421	
LLB	32	11/18/2003	277	276	251	
LLB	33	11/18/2003	364	368	362	
LLB	34	11/18/2003	186	209	170	
LLB	35	11/18/2003	187	230	199	Rerun confirmed (0-2.5)
LLB	36	11/18/2003	238	224	137	
LLB	37	11/18/2003	300	318	331	
LLB	38	11/18/2003	304	287	275	
LLB	39	11/18/2003	306	302	290	
LLB	40	11/18/2003	175	161	156	
LLB	41	11/18/2003	306	314	298	
LLB	42	11/18/2003	251	245	214	
LLB	43	11/18/2003	418	419	400	
LLB	44	11/18/2003	110	215	32	Rerun confirmed (0-2.5, 2.5-5)
LLB	45	11/18/2003	107	81	39	
PON	1	11/13/2003	658	622	337	Rerun confirmed
PON	2	11/13/2003	437	431	335	
PON	3	11/13/2003	508	543	477	
PON	4	11/13/2003	662	662	495	
PON	5	11/13/2003	578	483	432	
PON	6	11/13/2003	1166	916	645	Rerun confirmed
PON	7	11/13/2003	510	442	368	

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
PON	8	11/13/2003	323	345	284	
PON	9	11/13/2003	404	394	364	
PON	10	11/13/2003	600	408	287	Rerun confirmed (0-2.5, 5-15)
PON	11	11/13/2003	651	423	351	Rerun confirmed (0-2.5, 5-15)
PON	12	11/13/2003	661	472	420	Rerun confirmed (0-2.5, 5-15)
PON	13	11/13/2003	346	309	332	
PON	14	11/13/2003	521	440	416	
PON	15	11/13/2003	566	563	551	
PON	16	11/13/2003	663	612	734	Rerun confirmed (2.5-5)
PON	17	11/13/2003	254	260	228	
PON	18	11/13/2003	558	438	333	Rerun confirmed (5-15)
PON	19	11/13/2003	369	327	269	
PON	20	11/13/2003	502	451	436	
PON	21	11/13/2003	595	559	456	
PON	22	11/13/2003	430	325	420	
REN	1	10/1/2003	52	58	17	
REN	2	10/1/2003	55	36	10	Rerun confirmed (0-2.5)
REN	3	10/1/2003	89	84	50	Rerun confirmed
REN	4	10/1/2003	55	44	10	Rerun confirmed (5-15)
REN	5	10/1/2003	38	26	12	Rerun confirmed (0-2.5)
REN	6	10/1/2003	39	29	8	Rerun confirmed (0-2.5)
REN	7	10/1/2003	53	46	13	
REN	8	10/1/2003	29	24	11	
REN	9	9/24/2003	56	38	14	
REN	10	9/24/2003	76	59	20	Rerun confirmed
REN	11	9/24/2003	52	42	16	
REN	12	9/24/2003	38	35	11	Rerun confirmed (0-2.5)
REN	13	10/1/2003	45	37	9	
REN	14	10/1/2003	45	52	9	
REN	15	10/1/2003	53	33	11	Rerun confirmed (0-2.5)
REN	16	10/1/2003	49	29	9	Rerun confirmed (0-2.5)
REN	17	10/1/2003	29	27	7	Rerun confirmed (5-15)
REN	18	10/1/2003	40	51	12	Rerun confirmed (0-2.5)
REN	19	9/24/2003	50	47	11	
REN	20	9/24/2003	47	39	17	
REN	21	9/24/2003	50	48	21	
REN	22	9/24/2003	47	54	9	Rerun confirmed (2.5-5)
REN	23	9/24/2003	44	34	9	
REN	24	9/24/2003	43	44	16	
REN	25	10/1/2003	42	42	11	
REN	26	9/24/2003	53	40	13	
REN	27	10/1/2003	23	24	16	
REN	28	9/24/2003	43	33	13	

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
STV	1	9/30/2003	10	7	2	Rerun confirmed (5-15)
STV	2	9/30/2003	14	8	3	Rerun confirmed (0-2.5)
STV	3	9/30/2003	7	7	4	
THC	1	9/23/2003	90	79	56	Rerun confirmed
THC	3	9/23/2003	43	27	19	
THC	4	9/23/2003	48	40	29	
THC	6	9/23/2003	40	34	19	
THC	7	9/23/2003	91	80	57	Rerun confirmed
THC	8	9/23/2003	40	33	19	
THC	9	9/23/2003	54	45	33	
THC	10	9/23/2003	38	25	17	
THC	11	9/23/2003	33	16	9	Rerun confirmed (5-15)
THC	12	9/23/2003	37	27	19	
THC	13	9/23/2003	67	55	30	Rerun confirmed (5-15)
THC	14	9/23/2003	57	54	35	
THC	15	9/23/2003	43	30	17	
THC	16	9/23/2003	41	33	16	
THC	17	9/23/2003	29	19	16	
THC	18	9/23/2003	32	19	11	
THC	19	9/23/2003	25	19	7	
THC	20	9/23/2003	20	16	10	
THC	21	9/23/2003	45	25	16	Rerun confirmed (0-2.5)
THC	22	9/23/2003	43	27	19	
THC	23	9/23/2003	35	30	9	
THC	24	9/23/2003	29	17	5	
THC	25	9/23/2003	44	34	27	
THC	26	9/23/2003	39	32	16	
THC	27	9/23/2003	29	15	7	Rerun confirmed (5-15)
THC	28	9/23/2003	39	31	16	
THC	29	9/23/2003	56	38	27	
WAB	1	10/22/2003	20	36	33	Rerun confirmed (0-2.5)
WAB	2	10/22/2003	58	56	45	
WAB	3	10/22/2003	55	50	43	
WAB	4	10/22/2003	52	51	38	
WAB	5	10/22/2003	31	30	21	
WAB	6	10/22/2003	51	58	32	Rerun confirmed (2.5-5)
WAB	7	10/22/2003	34	36	24	
WAB	8	10/22/2003	48	43	30	
WAB	9	10/22/2003	23	20	16	
WAB	10	10/22/2003	34	34	29	
WAB	11	10/22/2003	41	41	27	
WAB	12	10/22/2003	50	42	30	
WAB	13	10/22/2003	50	33	48	Rerun confirmed, mixed labels

Table A4.2. Fall 2003 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
WAB	14	10/22/2003	44	45	24	Mixed labels
WAB	15	10/22/2003	36	36	26	
WAB	16	10/22/2003	34	33	21	
WAB	17	10/22/2003	33	37	23	Rerun confirmed (0-2.5)
WAB	18	10/22/2003	31	34	27	
WAB	19	10/22/2003	48	49	28	
WAB	20	10/22/2003	25	24	13	Rerun confirmed (5-15)
WAB	21	10/22/2003	41	39	29	
WAB	22	10/22/2003	23	21	12	Rerun confirmed (5-15)
WAB	23	10/22/2003	29	27	17	
WAB	24	10/22/2003	66	67	51	
WAB	25	10/22/2003	38	33	24	
WAB	26	10/22/2003	32	34	27	
WAB	27	10/22/2003	29	29	21	

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	1	10/12/2004	39	39	13	
CFT	2	10/12/2004	30	32	15	
CFT	3	10/12/2004	50	38	16	
CFT	4	10/12/2004	39	26	13	
CFT	5	10/12/2004	37	29	25	
CFT	6	10/12/2004	38	35	27	
CFT	7	10/12/2004	67	72	45	Rerun confirmed (0-2.5, 2.5-5)
CFT	8	10/12/2004	37	32	21	
CFT	9	10/12/2004	36	35	24	
CFT	10	10/12/2004	24	18	7	
CFT	11	10/28/2004	48	38	31	
CFT	12	10/28/2004	33	23	14	
CFT	13	10/28/2004	38	38	26	
CFT	14	10/12/2004	25	20	12	
CFT	15	10/12/2004	52	52	27	Rerun confirmed (0-2.5)
CFT	16	10/12/2004	28	25	10	
CFT	17	10/12/2004	45	40	15	
CFT	18	10/12/2004	39	33	27	
CFT	19	10/12/2004	324	366	132	Rerun confirmed, manured
CFT	20	10/12/2004	73	79	39	
CFT	21	10/28/2004	41	38	46	
CFT	22	10/28/2004	44	40	37	
CFT	23	10/12/2004	33	24	10	
CFT	24	10/12/2004	28	21	8	
CFT	25	10/12/2004	24	20	4	
CFT	26	10/12/2004	88	84	38	Rerun confirmed (0-2.5)
CFT	27	10/28/2004	36	34	35	
CFT	28	10/28/2004	55	51	63	
CFT	29	10/28/2004	36	27	22	
CFT	30	10/12/2004	51	47	20	
CFT	31	10/12/2004	31	20	8	
CFT	32	10/12/2004	72	78	41	
CFT	33	10/28/2004	40	34	39	
CFT	34	10/28/2004	48	41	35	
CFT	35	10/28/2004	37	27	30	
CFT	36	10/28/2004	68	68	62	
CFT	37	10/28/2004	46	47	55	
CFT	38	10/28/2004	38	35	38	
CFT	39	10/28/2004	33	29	34	
CFT	40	10/28/2004	35	30	29	
CFT	41	10/12/2004	41	47	26	
CFT	42	10/12/2004	18	17	6	

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	43	10/12/2004	41	42	22	
CFT	44	10/12/2004	28	21	5	
CFT	45	10/12/2004	40	39	33	
CFT	46	10/28/2004	35	29	28	
CFT	47	10/12/2004	39	40	17	
CFT	48	10/12/2004	35	36	33	
GPC	1	10/20-21/2004	32	27	18	
GPC	4	10/20-21/2004	25	11	4	
GPC	5	10/20-21/2004	33	34	12	
GPC	6	10/20-21/2004	55	45	32	
GPC	7	10/20-21/2004	56	55	27	Rerun confirmed (0-2.5)
GPC	9	10/20-21/2004	22	11	6	Rerun confirmed (5-15)
GPC	10	10/20-21/2004	62	60	23	
GPC	11	10/20-21/2004	51	54	31	
GPC	12	10/20-21/2004	30	18	12	
GPC	13	10/20-21/2004	59	39	4	
GPC	15	10/20-21/2004	40	39	26	
GPC	16	10/20-21/2004	53	64	38	
GPC	17	10/20-21/2004	59	64	20	
GPC	18	10/20-21/2004	37	40	20	
GPC	21	10/20-21/2004	59	38	12	
GPC	22	10/20-21/2004	55	55	30	
GPC	23	10/20-21/2004	33	29	18	
GPC	24	10/20-21/2004	39	40	21	
GPC	26	10/20-21/2004	61	34	15	
GPC	27	10/20-21/2004	49	38	18	
GPC	28	10/20-21/2004	32	45	18	
GPC	30	10/20-21/2004	36	29	12	New contributing area
GPC	31	10/20-21/2004	40	39	15	New contributing area
GPC	32	10/20-21/2004	13	9	6	New contributing area, in channel
GPC	33	10/20-21/2004	29	32	11	New contributing area
GPC	34	10/20-21/2004	41	41	24	New contributing area
GPC	35	10/20-21/2004	41	41	36	New contributing area
GPC	36	10/20-21/2004	39	41	29	New contributing area
LLB	1	11/25/2004	127	126	113	
LLB	2	11/25/2004	111	105	125	
LLB	3	11/25/2004	235	306	221	
LLB	4	11/25/2004	135	114	110	
LLB	5	11/25/2004	552	248	176	
LLB	6	11/25/2004	62	52	41	
LLB	7	11/25/2004	300	261	205	
LLB	8	11/25/2004	241	242	536	
LLB	9	11/25/2004	187	188	163	

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
LLB	10	11/25/2004	208	224	176	
LLB	11	11/25/2004	215	209	198	
LLB	12	11/25/2004	340	510	324	
LLB	13	11/25/2004	198	197	195	
LLB	14	11/25/2004	146	170	154	
LLB	15	11/25/2004	176	171	204	
LLB	16	11/25/2004	240	339	238	
LLB	17	11/25/2004	239	156	189	
LLB	18	11/25/2004	194	83	190	
LLB	19	11/25/2004	182	101	76	
LLB	20	11/25/2004	115	98	86	
LLB	21	11/25/2004	102	70	84	
LLB	22	11/25/2004	286	303	337	
LLB	23	11/25/2004	719	676	362	
LLB	24	11/25/2004	565	484	398	
LLB	25	11/25/2004	395	390	343	
LLB	26	11/25/2004	283	198	192	
LLB	27	11/25/2004	266	264	269	
LLB	28	11/25/2004	247	257	246	
LLB	29	11/25/2004	301	360	299	
LLB	30	11/25/2004	202	244	221	
LLB	31	11/25/2004	507	504	431	
LLB	32	11/25/2004	210	192	151	
LLB	33	11/25/2004	447	467	403	
LLB	34	11/25/2004	198	195	178	
LLB	35	11/25/2004	196	240	231	
LLB	36	11/25/2004	296	268	300	
LLB	37	11/25/2004	412	488	337	
LLB	38	11/25/2004	351	351	323	
LLB	39	11/25/2004	348	337	323	
LLB	40	11/25/2004	176	167	185	
LLB	41	11/25/2004	353	315	285	
LLB	42	11/25/2004	270	274	259	
LLB	43	11/25/2004	379	406	369	
LLB	44	11/25/2004	127	69	40	
LLB	45	11/25/2004	55	31	15	
PON	1	10/27-28/2004	563	632	419	
PON	2	10/27-28/2004	303	271	281	
PON	3	10/27-28/2004	427	450	453	
PON	4	10/27-28/2004	450	469	478	
PON	5	10/27-28/2004	331	308	305	
PON	6	10/27-28/2004	429	222	469	
PON	7	10/27-28/2004	246	289	301	

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
PON	8	10/27-28/2004	261	239	219	
PON	9	10/27-28/2004	335	264	322	
PON	10	10/27-28/2004	300	292	244	
PON	11	10/27-28/2004	263	266	278	
PON	12	10/27-28/2004	525	518	465	
PON	13	10/27-28/2004	255	253	255	
PON	14	10/27-28/2004	275	300	348	
PON	15	10/27-28/2004	431	396	414	
PON	16	10/27-28/2004	430	446	412	
PON	17	10/27-28/2004	224	217	226	
PON	18	10/27-28/2004	406	432	337	
PON	19	10/27-28/2004	361	410	341	
PON	20	10/27-28/2004	383	419	429	
PON	21	10/27-28/2004	592	615	521	
PON	22	10/27-28/2004	505	422	349	
REN	1	10/13/2004	25	46	30	Rerun confirmed (0-2.5)
REN	2	10/13/2004	37	38	7	
REN	3	10/13/2004	67	58	23	Rerun confirmed
REN	4	10/13/2004	36	43	11	
REN	5	10/13/2004	38	32	11	
REN	6	10/13/2004	42	46	27	Rerun confirmed (5-15)
REN	7	10/13/2004	40	38	10	
REN	8	10/13/2004	38	31	10	
REN	9	10/13/2004	43	23	9	
REN	10	10/13/2004	58	41	16	
REN	11	10/13/2004	39	34	12	
REN	12	10/13/2004	30	20	10	
REN	13	10/13/2004	29	21	11	
REN	14	10/13/2004	37	42	13	
REN	15	10/13/2004	36	20	5	
REN	16	10/13/2004	41	40	19	
REN	17	10/13/2004	25	23	8	
REN	18	10/13/2004	42	35	22	
REN	19	10/13/2004	42	21	7	
REN	20	10/13/2004	37	20	11	
REN	21	10/13/2004	45	29	7	
REN	22	10/13/2004	40	23	5	
REN	23	10/13/2004	27	18	8	
REN	24	10/13/2004	37	23	8	
REN	25	10/13/2004	42	42	20	
REN	26	10/13/2004	36	25	11	
REN	27	10/13/2004	41	37	17	
REN	28	10/13/2004	40	25	8	

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
STV	1	9/22/2004	10	6	3	
STV	2	9/22/2004	10	5	3	
STV	3	9/22/2004	11	6	4	
THC	1	10/13/2004	52	52	43	
THC	3	10/13/2004	38	21	12	
THC	4	10/13/2004	35	38	29	
THC	6	10/13/2004	39	33	21	
THC	7	10/13/2004	65	66	45	Rerun confirmed
THC	8	10/13/2004	33	25	19	
THC	9	10/13/2004	37	39	34	
THC	10	10/13/2004	37	27	18	
THC	11	10/13/2004	27	18	11	
THC	12	10/13/2004	40	24	18	
THC	13	10/13/2004	51	49	34	
THC	14	10/13/2004	52	43	28	
THC	15	10/13/2004	48	32	20	
THC	16	10/13/2004	38	21	10	
THC	17	10/13/2004	23	17	9	
THC	18	10/13/2004	29	21	15	
THC	19	10/13/2004	17	13	6	
THC	20	10/13/2004	21	16	9	
THC	21	10/13/2004	31	24	15	
THC	22	10/13/2004	31	20	20	
THC	23	10/13/2004	21	12	6	
THC	24	10/13/2004	17	13	4	
THC	25	10/13/2004	45	37	28	
THC	26	10/13/2004	35	25	14	
THC	27	10/13/2004	24	14	4	
THC	28	10/13/2004	28	15	7	
THC	29	10/13/2004	46	37	23	
WAB	1	10/26/2004	27	25	18	
WAB	2	10/26/2004	43	46	38	
WAB	3	10/26/2004	35	40	38	
WAB	4	10/26/2004	38	38	28	
WAB	5	10/26/2004	30	29	20	
WAB	6	10/26/2004	38	35	30	
WAB	7	10/26/2004	26	26	21	
WAB	8	10/26/2004	34	37	24	
WAB	9	10/26/2004	17	18	14	
WAB	10	10/26/2004	27	26	20	
WAB	11	10/26/2004	30	28	18	
WAB	12	10/26/2004	32	36	27	
WAB	13	10/26/2004	35	37	23	GPS labels mixed in field

Table A4.3. Fall 2004 reference corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
WAB	14	10/26/2004	29	30	20	GPS labels mixed in field
WAB	15	10/26/2004	30	27	18	
WAB	16	10/26/2004	26	32	20	
WAB	17	10/26/2004	30	32	19	
WAB	18	10/26/2004	26	27	16	
WAB	19	10/26/2004	36	35	25	
WAB	20	10/26/2004	34	36	25	
WAB	21	10/26/2004	22	22	12	
WAB	22	10/26/2004	29	31	27	
WAB	23	10/26/2004	22	18	10	
WAB	24	10/26/2004	20	24	17	
WAB	25	10/26/2004	21	27	16	
WAB	26	10/26/2004	37	30	24	
WAB	27	10/26/2004	30	26	8	Redo confirmed (5-15)

Table. A4.4. Spring 2003 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	1	5/27/2003	54	52	50	0-2.5 replaced with rerun as >DL[z]
CFT	2	5/27/2003	47	47	37	
CFT	3	5/27/2003	63	58	55	0-2.5 replaced with rerun as >DL
CFT	4	5/27/2003	71	57	23	
CFT	5	5/27/2003	68	57	36	
CFT	6	5/27/2003	59	48	58	
CFT	7	5/27/2003	86	67	75	
CFT	10	5/27/2003	56	32	15	0-2.5 replaced with rerun as >DL
CFT	43	5/27/2003	63	46	19	
CFT	44	5/27/2003	33	32	15	
GPC	1	6/3/2003	41	50	28	
GPC	4	6/3/2003	35	59	22	
GPC	6	6/3/2003	54	73	39	Extra point not sampled spring 02 or 04
GPC	9	6/3/2003	46	50	27	
GPC	12	6/3/2003	68	72	35	
GPC	13	6/3/2003	56	65	20	
LLB	1	5/20/2003	244	226	200	Depths for all samples initially not listed
LLB	2	5/20/2003	505	499	261	
LLB	3	5/20/2003	261	261	244	
LLB	4	5/20/2003	331	270	357	Higher than fall 02
LLB	6	5/20/2003	226	200	87	
LLB	7	5/20/2003	278	296	226	
LLB	8	5/20/2003	235	174	96	Higher than fall 02
LLB	20	5/20/2003	122	52	122	
LLB	21	5/20/2003	148	131	131	
PON	1	5/14/2003	800	679	567	
PON	2	5/14/2003	530	512	437	
PON	3	5/14/2003	605	567	558	
PON	6	5/14/2003	735	679	725	
PON	15	5/14/2003	614	605	614	
PON	21	5/14/2003	865	679	605	
REN	1	5/26/2003	96	92	23	
REN	3	5/26/2003	111	97	31	
REN	4	5/26/2003	66	93	24	
REN	5	5/26/2003	60	71	17	
REN	6	5/26/2003	43	77	15	
REN	27	5/26/2003	76	30	9	
THC	1	5/20/2003	77	72	55	
THC	3	5/20/2003	40	33	19	
THC	4	5/20/2003	47	39	29	
THC	6	5/20/2003	39	33	19	
THC	8	5/20/2003	38	37	21	

Table. A4.4. Spring 2003 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Sample point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
THC	26	5/20/2003	55	44	39	
WAB	1	5/27/2003	60	30	11	
WAB	2	5/27/2003	61	70	34	
WAB	3	5/27/2003	99	61	42	
WAB	4	5/27/2003	60	73	33	
WAB	5	5/27/2003	52	60	24	
WAB	6	5/27/2003	102	68	36	

[z]DL =

Table A4.5. Spring 2004 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	1	5/19/2004	59	96	22	
CFT	2	5/19/2004	57	64	25	Revised decimal place error (0-2.5)
CFT	3	5/19/2004	51	73	40	
CFT	4	5/19/2004	42	54	27	
CFT	5	5/19/2004	50	62	21	
CFT	6	5/19/2004	48	48	38	
CFT	7	5/19/2004	65	61	54	
CFT	10	5/19/2004	25	29	13	
CFT	43	5/19/2004	48	51	17	
CFT	44	5/19/2004	50	46	22	
GPC	1	5/13/2004	32	34	24	
GPC	4	5/13/2004	25	11	6	
GPC	9	5/13/2004	34	38	24	
GPC	12	5/13/2004	42	42	16	
GPC	13	5/13/2004	62	36	12	
LLB	1	5/20/2004	163	147	168	
LLB	2	5/20/2004	148	180	190	
LLB	3	5/20/2004	217	238	224	
LLB	4	5/20/2004	230	205	227	
LLB	6	5/20/2004	68	54	52	
LLB	7	5/20/2004	281	282	262	
LLB	8	5/20/2004	263	264	233	
LLB	20	5/20/2004	97	97	102	
LLB	21	5/20/2004	57	58	34	
PON	1	4/30/2004	877	608	559	
PON	2	4/30/2004	338	345	351	
PON	3	4/30/2004	469	436	391	
PON	6	4/30/2004	514	533	434	
PON	15	4/30/2004	449	427	434	

Table A4.5. Spring 2004 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
PON	21	4/30/2004	532	486	407	
REN	1	6/1/2004	97	64	26	
REN	3	6/1/2004	93	86	25	
REN	4	6/1/2004	63	62	17	
REN	5	6/1/2004	46	41	24	
REN	6	6/1/2004	43	57	17	
REN	27	6/1/2004	28	70	15	
THC	1	5/18/2004	62	59	50	
THC	3	5/18/2004	29	25	16	
THC	4	5/18/2004	33	28	22	
THC	6	5/18/2004	34	31	23	
THC	8	5/18/2004	31	24	15	
THC	26	5/18/2004	39	32	21	
WAB	1	5/11/2004	49	48	28	
WAB	2	5/11/2004	52	47	49	
WAB	3	5/11/2004	84	48	39	
WAB	4	5/11/2004	43	47	37	
WAB	5	5/11/2004	31	50	19	
WAB	6	5/11/2004	59	70	28	

Table A4.6. Spring 2005 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
CFT	1	5/12/2005	44	42	31	Samples 1-3 high P - due to overseeding?
CFT	2	5/12/2005	42	46	23	
CFT	3	5/12/2005	61	72	22	
CFT	4	5/12/2005	37	36	26	
CFT	5	5/12/2005	40	41	34	
CFT	6	5/12/2005	37	44	30	
CFT	7	5/12/2005	70	83	49	Very high – spring 04 similar
CFT	10	5/12/2005	31	40	8	
CFT	43	5/12/2005	38	41	40	
CFT	44	5/12/2005	35	42	10	
GPC	1	6/3/2005	43	36	25	
GPC	4	6/3/2005	31	30	6	Sample moved 3 m west to cultivated area
GPC	9	6/3/2005	46	46	29	
GPC	12	6/3/2005	47	41	31	
GPC	13	6/3/2005	38	43	24	
LLB	1	5/13/2005	132	126	116	Reanalyzed since reference results high
LLB	2	5/13/2005	156	150	144	Reanalyzed since reference results high

Table A4.6. Spring 2005 reference-corrected soil-test phosphorus (STP) results from the microwatershed sites.

Site	Point	Date	STP 0 - 2.5 cm (mg kg^{-1})	STP 2.5 - 5 cm (mg kg^{-1})	STP 5 - 15 cm (mg kg^{-1})	Notes
LLB	3	5/13/2005	293	288	301	Reanalyzed since reference results high
LLB	4	5/13/2005	165	157	99	Reanalyzed since reference results high
LLB	6	5/13/2005	81	56	23	Reanalyzed, low other years also
LLB	7	5/13/2005	375	353	263	Reanalyzed since reference results high
LLB	8	5/13/2005	409	336	293	Reanalyzed since reference results high
LLB	20	5/13/2005	95	79	74	Reanalyzed since reference results high
LLB	21	5/13/2005	170	186	166	Reanalyzed since reference results high
PON	1	6/15/2005	622	581	492	
PON	2	6/15/2005	446	431	420	Same pattern fall 04
PON	3	6/15/2005	536	502	501	
PON	6	6/15/2005	560	562	539	
PON	15	6/15/2005	429	465	445	
PON	21	6/15/2005	499	538	493	
REN	1	6/1/2005	81	54	23	
REN	3	6/1/2005	91	70	30	
REN	4	6/1/2005	58	68	18	
REN	5	6/1/2005	60	35	12	
REN	6	6/1/2005	39	51	28	
REN	27	6/1/2005	39	71	14	
THC	1	5/11/2005	67	63	62	Similar values found in spring 04
THC	3	5/11/2005	32	28	21	
THC	4	5/11/2005	48	36	28	
THC	6	5/11/2005	36	36	24	
THC	8	5/11/2005	32	31	20	
THC	26	5/11/2005	33	35	22	
WAB	1	5/16/2005	35	38	21	
WAB	2	5/16/2005	45	41	39	
WAB	3	5/16/2005	41	39	42	
WAB	4	5/16/2005	36	35	34	
WAB	5	5/16/2005	27	28	32	
WAB	6	5/16/2005	43	43	30	

Appendix 5. Phosphorus sorption indices (PSI) data.

Table A5.1. Phosphorus sorption indices (PSI) for selected sampling points using the $CaCl_2$ method.

Site	Sample Point	$CaCl_2$-PSI Fall 02 (mg kg^{-1})	Fall 03 (mg kg^{-1})	Fall 04 (mg kg^{-1})	Notes
CFT	2		122.1		
CFT	4		142.6		
CFT	5		147.5		
CFT	9		143.4		
CFT	14		134.6		
CFT	15		159.8		
CFT	16		132.4		
CFT	17		154.1		
CFT	18		142.4		
CFT	19		123.2		Manured knoll
CFT	20		124.7		
CFT	25		152.1		
CFT	26		216.4		
CFT	30		174.3		
CFT	31		123.3		
CFT	41		131.9		
CFT	42		114.4		
CFT	43		195.6		
GPC	1		455.8		
GPC	4		458.2		
GPC	7		442.5		
GPC	9		623.9		
GPC	11		435.7		
GPC	12		323.3		
GPC	15		513.1		
GPC	16		430.6		
GPC	17		428.6		
GPC	18		539.8		
GPC	21		476.0		
GPC	22		423.0		
GPC	23		316.3		
GPC	24		300.9		
GPC	34		475.8		
GPC	35		441.0		
GPC	36		421.8		
LLB	1	214.9	190.3	178.3	
LLB	3	68.7	78.8	78.1	
LLB	12		141.6		
LLB	15		105.8		
LLB	16	116.3	127.1	133.2	

Table A5.1. Phosphorus sorption indices (PSI) for selected sampling points using the $CaCl_2$ method.

Site	Sample Point	$CaCl_2$-PSI Fall 02 (mg kg^{-1})	Fall 03 (mg kg^{-1})	Fall 04 (mg kg^{-1})	Notes
LLB	17		128.1		
LLB	18	121.4	182.2	129.6	
LLB	19		130.9		
LLB	20		107.0		
LLB	21	76.3	97.8	97.2	
LLB	22	139.9	140.1	147.6	
LLB	23		117.0		
LLB	27		100.1		
LLB	28		160.1		
LLB	31		130.5		
LLB	32		136.2		
LLB	33		114.5		
LLB	34		134.7		
LLB	35		177.4		
PON	3	133.4	118.2	160.0	
PON	5		8.7		0.5 ½ of DL[z]
PON	6	0.0	0.0	89.0	0.5 ½ of DL, NZ[y], PI[x]
PON	8		76.6		0.5 ½ of DL
PON	9		37.7		0.5 ½ of DL
PON	10	72.2	6.8	54.5	0.5 ½ of DL
PON	11		102.3		0.5 ½ of DL
PON	12		51.1		0.5 ½ of DL
PON	13		66.1		0.5 ½ of DL
PON	14		23.4		0.5 ½ of DL
PON	15		39.4		0.5 ½ of DL
PON	16		0.0		0.5 ½ of DL, NZ, PI
PON	17	78.6	65.1	97.0	
PON	18	46.8	14.5	90.4	0.5 ½ of DL
PON	19		32.8		0.5 ½ of DL
PON	20		37.1		0.5 ½ of DL
PON	21	111.0	138.4	103.6	0.5 ½ of DL
PON	22		57.1		0.5 ½ of DL
REN	1		198.0		
REN	2		86.5		
REN	3		192.0		
REN	4		144.3		
REN	9		233.1		
REN	10		229.3		Headland, extra P applied
REN	12		229.6		
REN	13		218.1		
REN	14		178.9		
REN	15		147.7		

Table A5.1. Phosphorus sorption indices (PSI) for selected sampling points using the $CaCl_2$ method.

Site	Sample Point	$CaCl_2$-PSI Fall 02 (mg kg^{-1})	$CaCl_2$-PSI Fall 03 (mg kg^{-1})	$CaCl_2$-PSI Fall 04 (mg kg^{-1})	Notes
REN	16		146.0		
REN	19		229.3		
REN	20		248.5		
REN	21		208.2		
REN	22		217.5		
REN	23		237.5		
REN	24		194.4		
REN	27		157.0		
STV	1		185.4		
STV	2		206.6		
STV	3		186.1		
THC	1		130.3		
THC	3		193.6		
THC	6		152.7		
THC	7		201.9		
THC	8		133.9		
THC	9		109.8		
THC	11		134.0		
THC	13		126.0		
THC	14		157.5		
THC	15		168.7		
THC	16		177.5		
THC	17		110.3		
THC	18		146.7		
THC	19		133.2		
THC	20		112.5		
THC	21		149.1		
THC	22		191.2		
THC	23		196.6		
THC	24		157.8		
WAB	3		211.3		
WAB	4		206.1		
WAB	5		156.5		
WAB	8		175.4		
WAB	9		158.5		
WAB	10		180.2		
WAB	13		178.1		
WAB	14		175.9		
WAB	15		177.6		
WAB	16		142.0		
WAB	17		169.3		
WAB	18		188.1		

Table A5.1. Phosphorus sorption indices (PSI) for selected sampling points using the $CaCl_2$ method.

		$CaCl_2$-PSI			
Site	Sample Point	Fall 02 (mg kg^{-1})	Fall 03 (mg kg^{-1})	Fall 04 (mg kg^{-1})	Notes
WAB	19		157.6		
WAB	20		178.5		
WAB	21		159.3		
WAB	22		171.2		
WAB	23		147.0		
WAB	24		157.6		

[z] Detection limit (DL) = 1.0 mg kg^{-1}.
[y] Negative values set to zero (NZ).
[x] Poorly incorporated (PI).

Appendix 6. Hydrographs from the microwatershed sites.

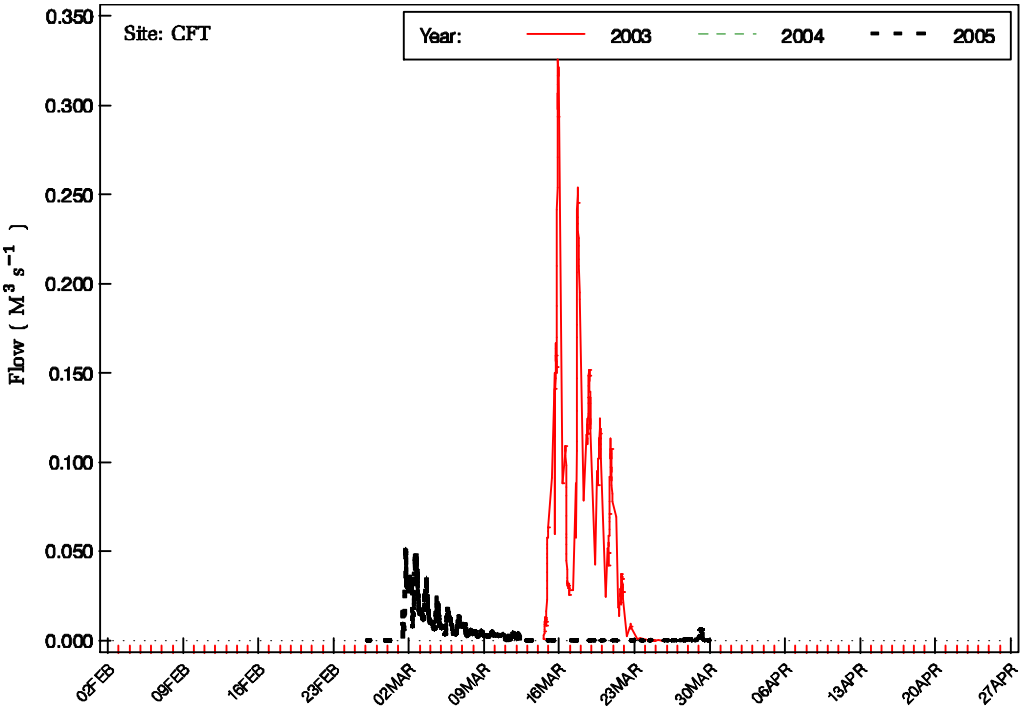

Fig. A6.1. Spring runoff concentrations from the Crowfoot Creek site in 2003 and 2005. Data from 2004 were unavailable due to datalogger failure.

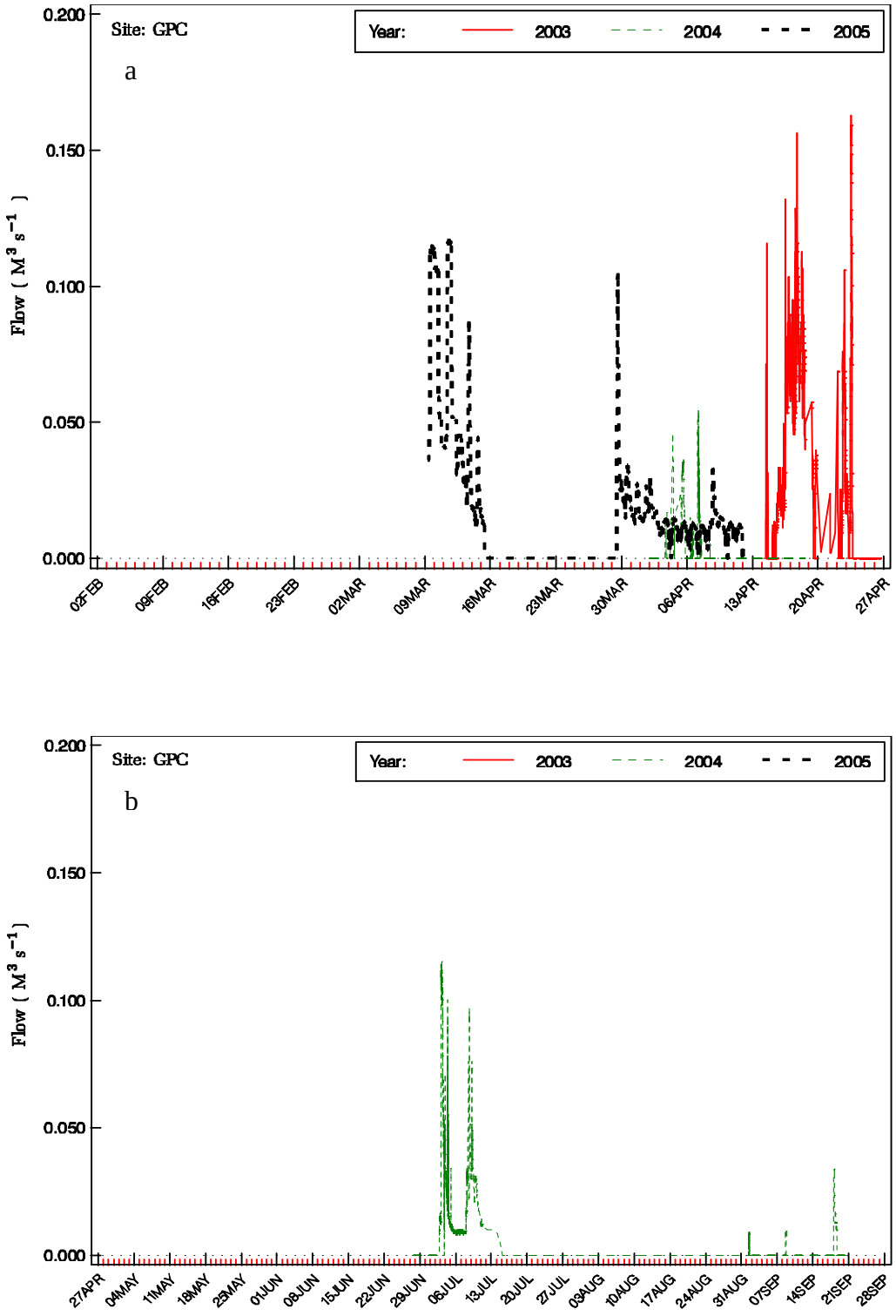

Fig. A6.2. Hydrographs from (a) spring and (b) summer runoff at the Grande Prairie Creek site.

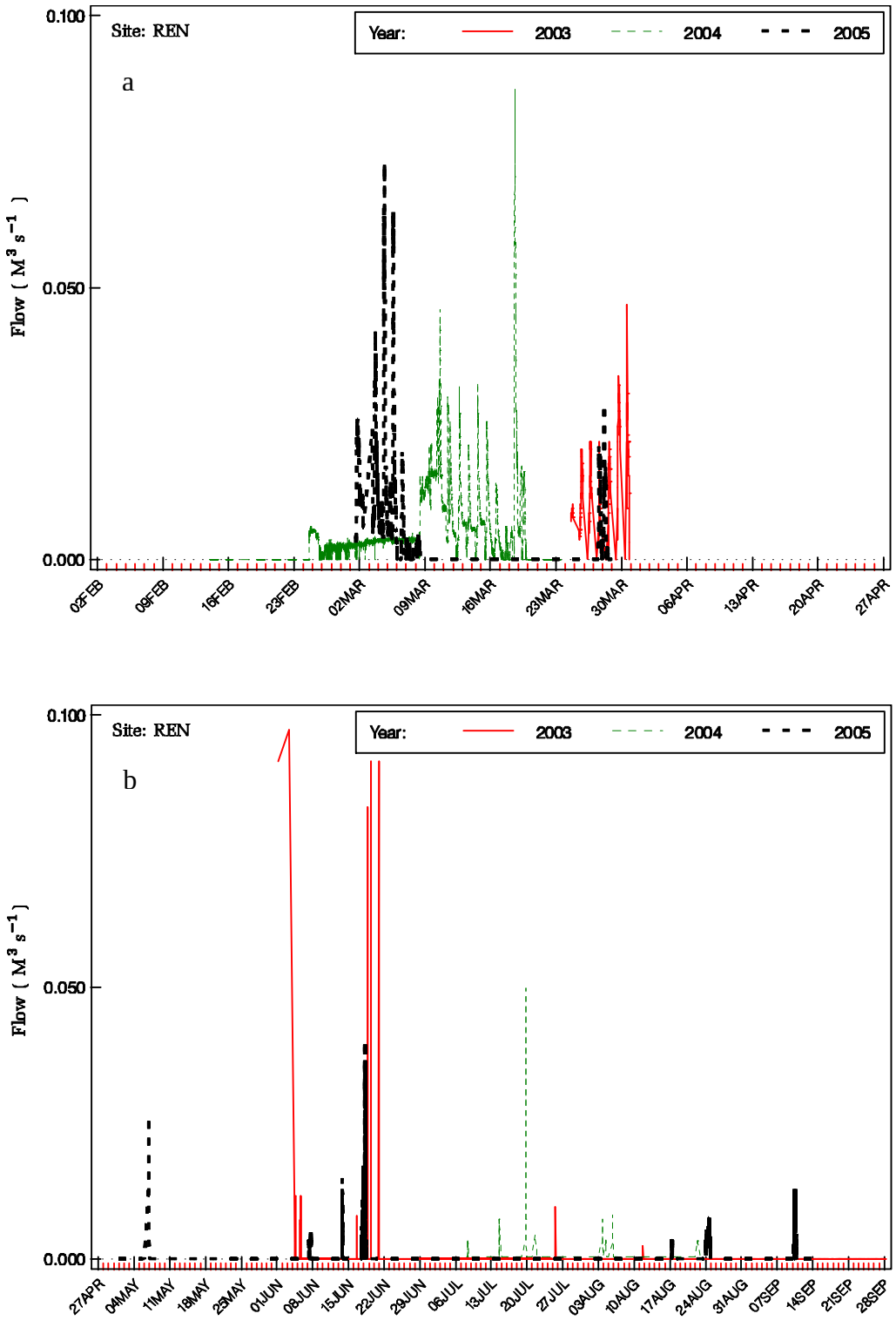

Fig. A6.3. Hydrographs of (a) spring and (b) summer runoff at the Renwick Creek site.

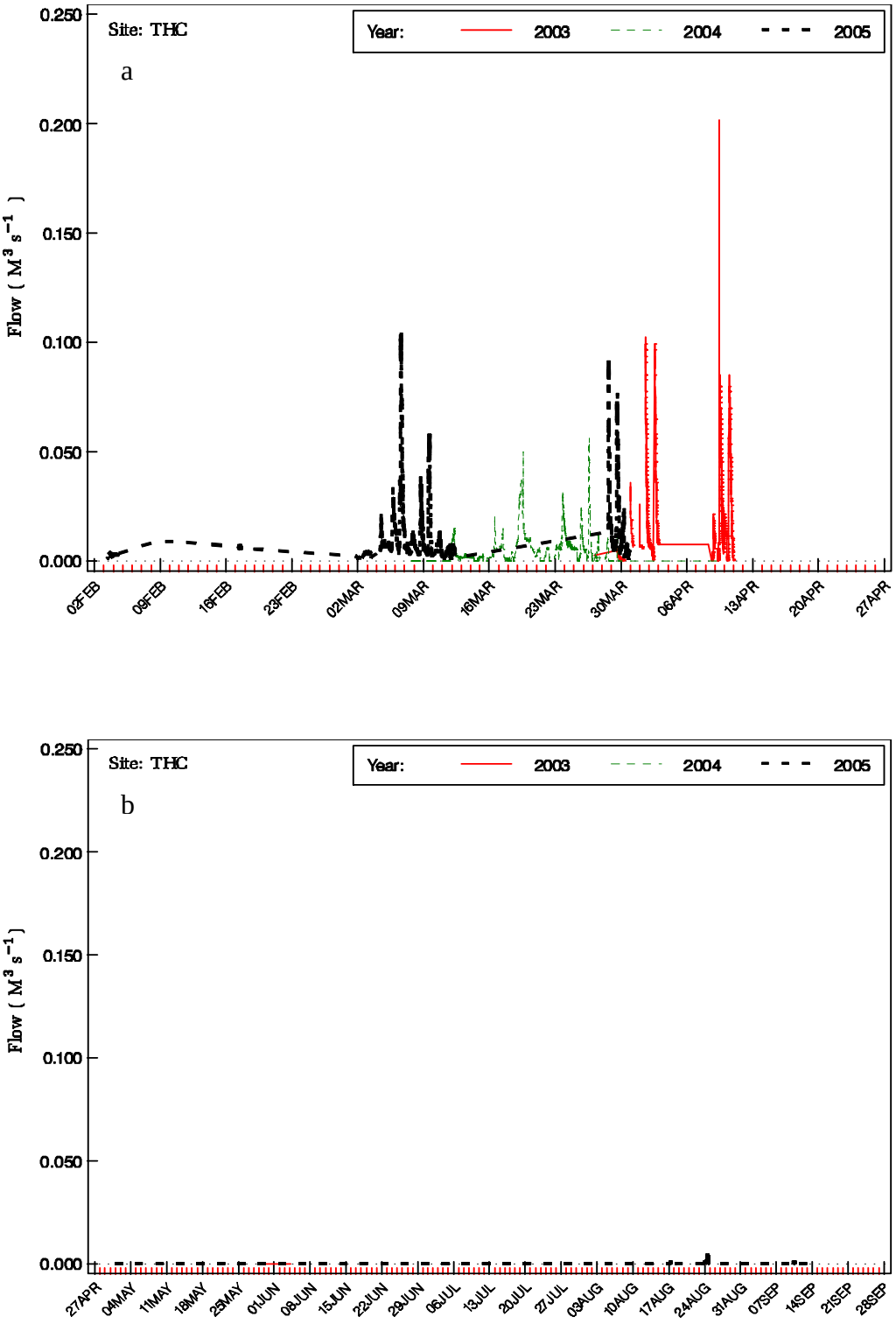

Fig. A6.4. Hydrographs from (a) spring and (b) summer runoff at the Three Hills Creek site.

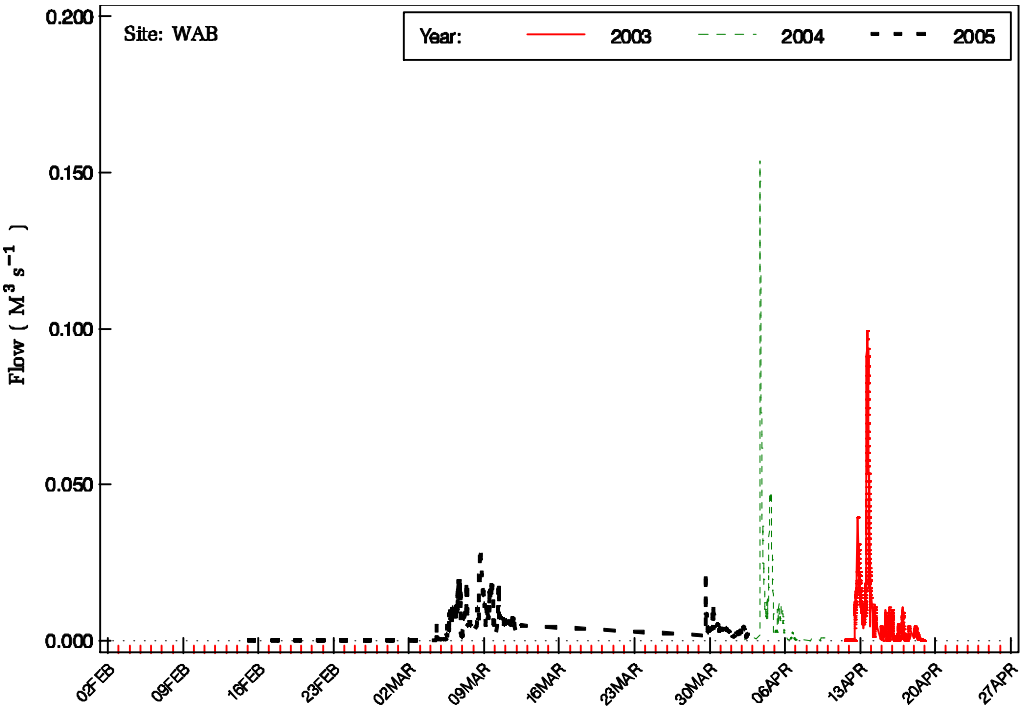

Fig. A6.5. Hydrographs for spring runoff from the Wabash Creek site.

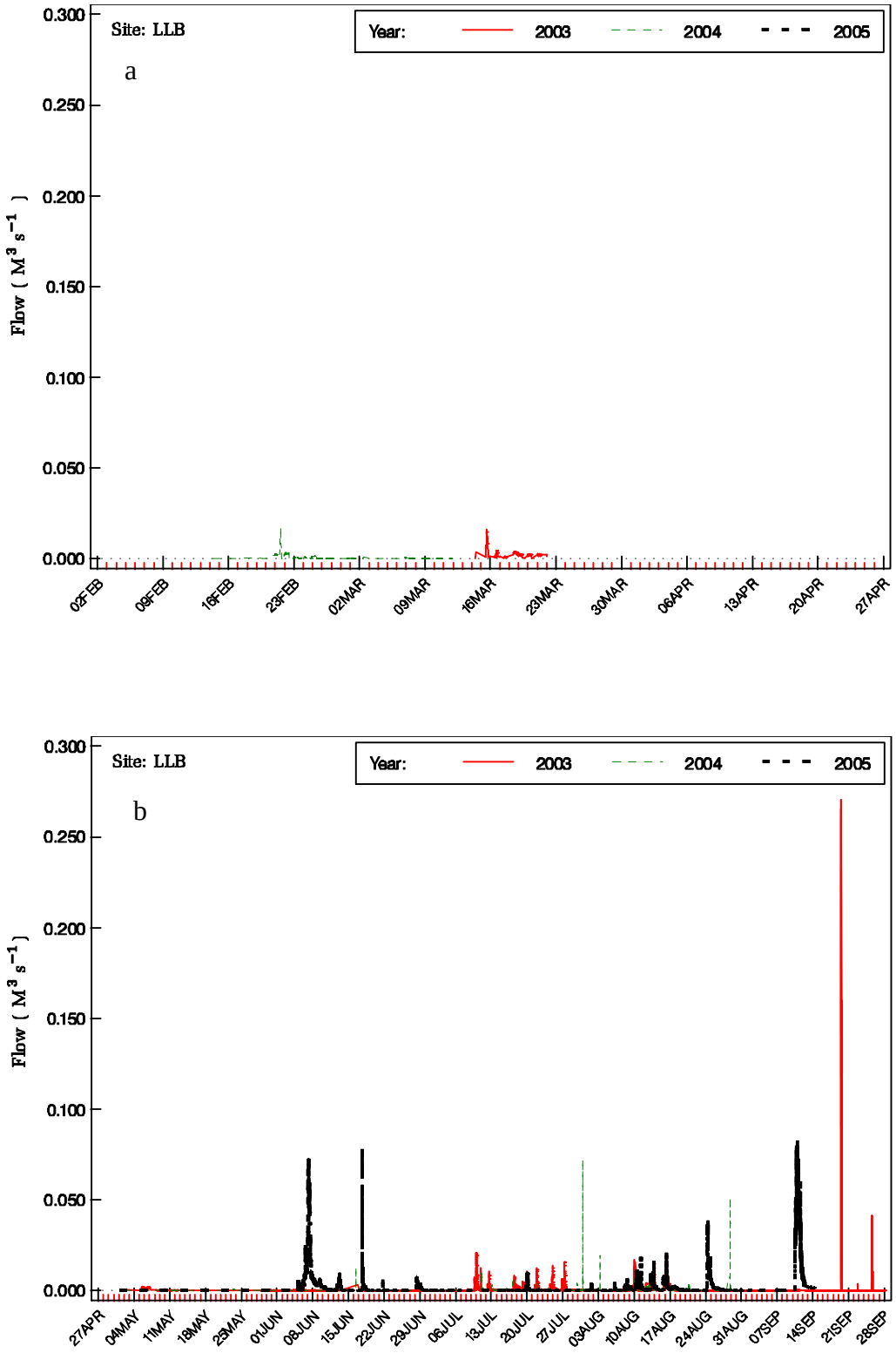

Fig. A6.6. Hydrographs from (a) spring and (b) summer runoff from the Lower Little Bow River site.

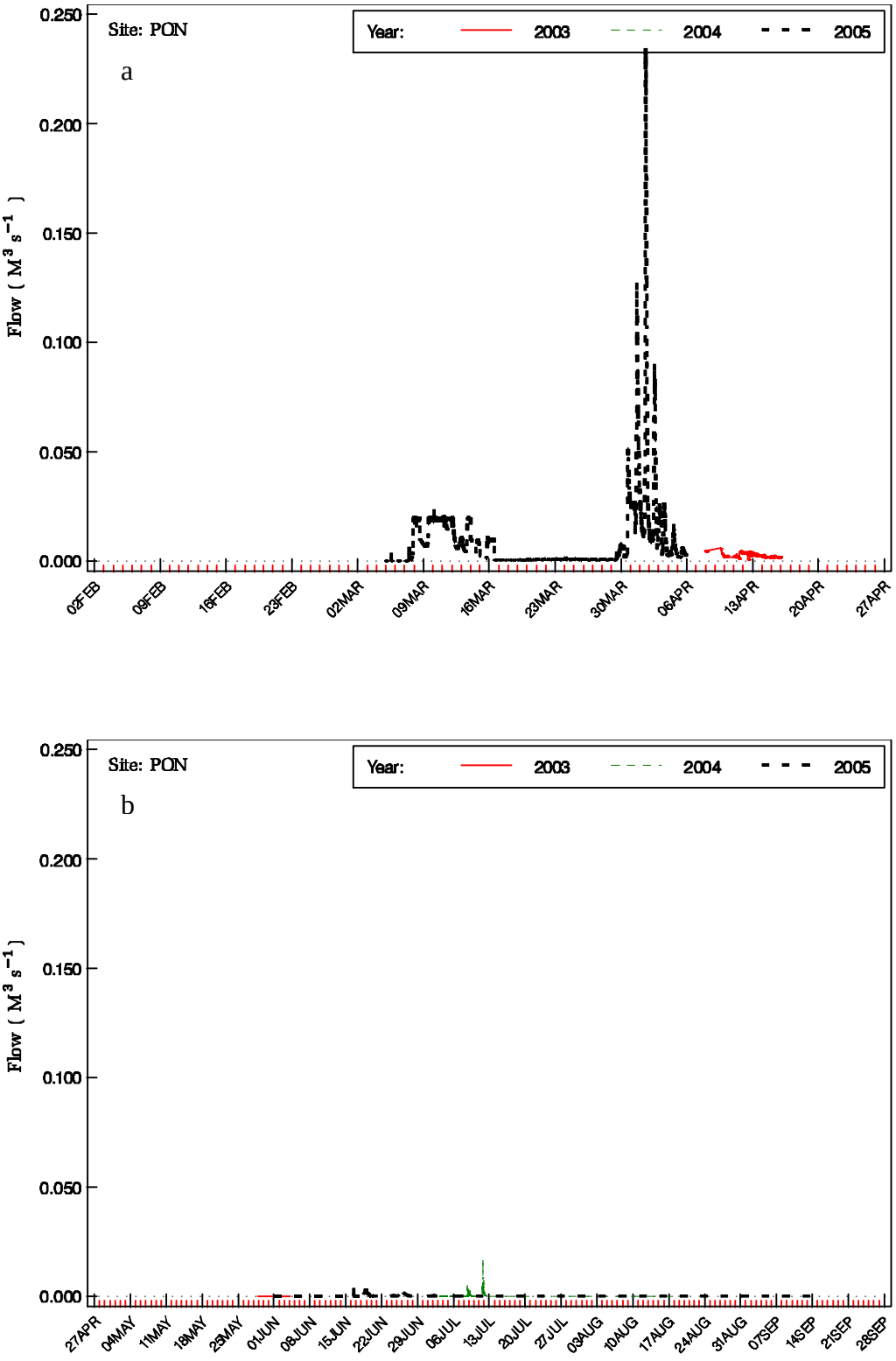

Fig. A6.7. Hydrographs from (a) spring and (b) summer runoff from the Ponoka site.

Appendix 7. Runoff phosphorus concentrations from the microwatershed sites.

Table A7.1. Runoff phosphorus concentrations from the Stavely site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
STV	13MAR03:01:15	0.163	0.195	0.269
STV	15MAR03:19:05	0.185	0.220	0.533
STV	15MAR03:21:50	0.225	0.258	0.623
STV	16MAR03:00:30	0.238	0.264	0.698
STV	16MAR03:03:10	0.238	0.328	0.565
STV	16MAR03:05:55	0.236	0.274	0.584
STV	16MAR03:18:35	0.221	0.276	0.508
STV	16MAR03:11:20	0.275	0.330	0.571
STV	16MAR03:14:00	0.082	0.173	0.517
STV	16MAR03:16:40	0.082	0.190	0.354
STV	16MAR03:19:25	0.097	0.189	0.323
STV	16MAR03:23:25	0.120	0.227	0.583
STV	18MAR04:14:30	0.090	0.130	0.200
STV	18MAR04:14:40	0.090	0.120	0.180
STV	07JUN05:12:00	0.040	0.050	0.090
STV	08JUN05:11:30	0.040	0.050	0.070
STV	28JUN05:15:16	0.090	0.100	0.150

[z] Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	14MAR03:13:15	0.821	0.960	1.200
CFT	14MAR03:16:15	0.697	0.796	0.987
CFT	14MAR03:19:15	0.594	0.666	0.771
CFT	14MAR03:22:20	0.556	0.645	0.746
CFT	15MAR03:01:20	0.571	0.657	0.721
CFT	15MAR03:04:20	0.600	0.640	0.710
CFT	15MAR03:07:50	0.625	0.715	0.788
CFT	15MAR03:09:20	0.621	0.741	0.790
CFT	15MAR03:12:20	0.315	0.373	0.460
CFT	15MAR03:15:20	0.188	0.249	0.335
CFT	15MAR03:18:20	0.500	0.103	0.152
CFT	15MAR03:21:20	0.063	0.111	0.183
CFT	16MAR03:00:20	0.090	0.154	0.229
CFT	16MAR03:03:20	0.089	0.198	0.280
CFT	16MAR03:06:20	0.183	0.257	0.311
CFT	16MAR03:08:20	0.086	0.145	0.155
CFT	16MAR03:11:20	0.074	0.130	0.132
CFT	16MAR03:14:05	0.083	0.155	0.214
CFT	16MAR03:15:35	0.095	0.156	0.237
CFT	16MAR03:17:05	0.108	0.161	0.166
CFT	16MAR03:18:35	0.110	0.200	0.230
CFT	16MAR03:20:05	0.087	0.148	0.227
CFT	16MAR03:21:35	0.084	0.210	0.224
CFT	16MAR03:23:05	0.080	0.203	0.220
CFT	17MAR03:00:35	0.077	0.140	0.214
CFT	17MAR03:02:05	0.073	0.142	0.174
CFT	17MAR03:03:35	0.070	0.140	0.149
CFT	17MAR03:05:05	0.070	0.137	0.209
CFT	17MAR03:11:35	0.080	0.116	0.202
CFT	17MAR03:11:50	0.074	0.112	0.205
CFT	17MAR03:13:20	0.075	0.117	0.211
CFT	17MAR03:14:50	0.069	0.110	0.215

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	17MAR03:16:20	0.075	0.101	0.226
CFT	17MAR03:17:50	0.060	0.096	0.213
CFT	17MAR03:19:20	0.083	0.120	0.250
CFT	17MAR03:20:50	0.091	0.129	0.251
CFT	17MAR03:22:20	0.088	0.133	0.248
CFT	17MAR03:23:50	0.096	0.149	0.232
CFT	18MAR03:01:25	0.097	0.149	0.254
CFT	18MAR03:02:55	0.127	0.190	0.279
CFT	18MAR03:10:55	0.141	0.165	0.255
CFT	18MAR03:12:10	0.128	0.163	0.223
CFT	18MAR03:13:40	0.129	0.159	0.226
CFT	18MAR03:15:10	0.138	0.171	0.252
CFT	18MAR03:16:40	0.176	0.208	0.306
CFT	18MAR03:18:10	0.206	0.252	0.450
CFT	18MAR03:19:40	0.223	0.265	0.442
CFT	18MAR03:21:10	0.225	0.261	0.440
CFT	18MAR03:22:40	0.228	0.275	0.430
CFT	19MAR03:00:10	0.243	0.299	0.431
CFT	19MAR03:01:40	0.251	0.302	0.466
CFT	19MAR03:03:10	0.246	0.299	0.460
CFT	19MAR03:09:40	0.287	0.307	0.491
CFT	19MAR03:11:10	0.283	0.315	0.495
CFT	19MAR03:12:40	0.279	0.293	0.471
CFT	19MAR03:14:10	0.313	0.334	0.514
CFT	19MAR03:15:40	0.318	0.322	0.529
CFT	19MAR03:17:10	0.316	0.327	0.555
CFT	19MAR03:18:40	0.344	0.341	0.585
CFT	19MAR03:20:10	0.338	0.347	0.587
CFT	19MAR03:21:40	0.344	0.388	0.547
CFT	19MAR03:23:10	0.345	0.367	0.565
CFT	20MAR03:00:40	0.370	0.400	0.607
CFT	20MAR03:02:10	0.374	0.395	0.611

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	20MAR03:03:40	0.393	0.408	0.616
CFT	20MAR03:09:25	0.402	0.405	0.579
CFT	20MAR03:10:10	0.386	0.403	0.546
CFT	20MAR03:11:40	0.435	0.483	0.580
CFT	20MAR03:13:25	0.403	0.441	0.581
CFT	20MAR03:14:55	0.420	0.438	0.582
CFT	20MAR03:16:25	0.388	0.416	0.584
CFT	20MAR03:17:55	0.375	0.392	0.565
CFT	20MAR03:19:25	0.371	0.385	0.522
CFT	20MAR03:20:55	0.434	0.447	0.463
CFT	20MAR03:22:25	0.421	0.465	0.560
CFT	20MAR03:23:55	0.427	0.455	0.557
CFT	21MAR03:01:30	0.436	0.473	0.584
CFT	21MAR03:03:00	0.446	0.480	0.582
CFT	21MAR03:04:30	0.458	0.498	0.580
CFT	21MAR03:06:00	0.450	0.485	0.562
CFT	21MAR03:07:30	0.364	0.431	0.636
CFT	21MAR03:09:00	0.366	0.433	0.633
CFT	21MAR03:10:30	0.410	0.505	0.708
CFT	21MAR03:12:00	0.444	0.502	0.680
CFT	21MAR03:13:00	0.531	0.652	0.732
CFT	21MAR03:14:30	0.494	0.679	0.714
CFT	21MAR03:16:00	0.500	0.562	0.696
CFT	21MAR03:17:30	0.528	0.558	0.701
CFT	21MAR03:19:00	0.524	0.678	0.699
CFT	21MAR03:20:30	0.512	0.668	0.690
CFT	21MAR03:22:00	0.505	0.578	0.682
CFT	21MAR03:23:30	0.484	0.619	0.656
CFT	22MAR03:01:00	0.492	0.517	0.644
CFT	22MAR03:02:30	0.486	0.615	0.641
CFT	22MAR03:04:00	0.492	0.610	0.646
CFT	22MAR03:05:30	0.501	0.606	0.703
CFT	22MAR03:07:30	0.550	0.585	0.609

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	22MAR03:09:00	0.580	0.559	0.628
CFT	22MAR03:10:30	0.610	0.603	0.678
CFT	22MAR03:12:00	0.624	0.509	0.687
CFT	22MAR03:13:00	0.625	0.692	0.821
CFT	22MAR03:14:30	0.600	0.694	0.766
CFT	22MAR03:16:00	0.558	0.555	0.715
CFT	22MAR03:17:30	0.516	0.642	0.687
CFT	22MAR03:19:00	0.494	0.528	0.641
CFT	22MAR03:20:30	0.514	0.626	0.668
CFT	22MAR03:22:00	0.538	0.657	0.647
CFT	22MAR03:23:30	0.537	0.636	0.667
CFT	23MAR03:01:00	0.546	0.583	0.665
CFT	23MAR03:02:30	0.524	0.644	0.660
CFT	23MAR03:04:00	0.531	0.579	0.621
CFT	23MAR03:05:30	0.537	0.555	0.797
CFT	23MAR03:07:15	0.573	0.586	0.681
CFT	23MAR03:08:45	0.546	0.579	0.667
CFT	23MAR03:10:15	0.565	0.663	0.702
CFT	23MAR03:11:45	0.589	0.700	0.711
CFT	23MAR03:12:30	0.663	0.642	0.746
CFT	23MAR03:14:00	0.694	0.657	0.760
CFT	23MAR03:15:30	0.698	0.672	0.736
CFT	23MAR03:17:00	0.685	0.657	0.731
CFT	23MAR03:18:30	0.686	0.656	0.741
CFT	23MAR03:20:00	0.700	0.660	0.744
CFT	23MAR03:21:35	0.708	0.689	0.754
CFT	23MAR03:23:05	0.706	0.714	0.781
CFT	24MAR03:00:35	0.738	0.775	0.831
CFT	24MAR03:02:05	0.828	0.823	0.950
CFT	24MAR03:03:35	0.866	0.860	0.958
CFT	24MAR03:10:35	0.560	0.488	0.563
CFT	24MAR03:11:35	0.508	0.491	0.594
CFT	24MAR03:13:05	0.590	0.578	0.686

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	24MAR03:14:35	0.622	0.620	0.685
CFT	24MAR03:16:05	0.709	0.674	0.749
CFT	24MAR03:17:35	0.708	0.690	0.822
CFT	24MAR03:19:05	0.717	0.701	0.753
CFT	24MAR03:20:35	0.711	0.679	0.756
CFT	24MAR03:22:05	0.763	0.720	0.810
CFT	24MAR03:23:35	0.819	0.707	0.868
CFT	25MAR03:11:35	0.376	0.424	0.519
CFT	25MAR03:12:20	0.431	0.444	0.542
CFT	09MAR04:14:30	0.290	0.380	0.480
CFT	09MAR04:15:15	0.230	0.290	0.350
CFT	09MAR04:16:45	0.180	0.250	0.270
CFT	09MAR04:18:15	0.170	0.230	0.260
CFT	09MAR04:19:45	0.170	0.210	0.250
CFT	09MAR04:21:15	0.170	0.230	0.240
CFT	09MAR04:22:45	0.170	0.240	0.240
CFT	10MAR04:00:15	0.180	0.220	0.250
CFT	10MAR04:01:45	0.180	0.230	0.240
CFT	10MAR04:12:15	0.150	0.200	0.240
CFT	10MAR04:13:05	0.140	0.190	0.240
CFT	10MAR04:14:35	0.150	0.200	0.240
CFT	10MAR04:16:05	0.140	0.200	0.240
CFT	10MAR04:17:35	0.140	0.200	0.240
CFT	10MAR04:19:05	0.140	0.210	0.230
CFT	10MAR04:20:35	0.140	0.210	0.240
CFT	10MAR04:22:05	0.140	0.210	0.240
CFT	10MAR04:23:35	0.140	0.190	0.240
CFT	11MAR04:01:05	0.140	0.220	0.260
CFT	11MAR04:11:35	0.160	0.190	0.230
CFT	11MAR04:13:05	0.150	0.200	0.240
CFT	11MAR04:14:35	0.150	0.180	0.260
CFT	11MAR04:16:05	0.150	0.200	0.270
CFT	11MAR04:17:35	0.190	0.260	0.330

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	11MAR04:19:05	0.270	0.360	0.450
CFT	11MAR04:20:35	0.270	0.350	0.440
CFT	11MAR04:22:05	0.220	0.300	0.360
CFT	11MAR04:23:35	0.200	0.260	0.340
CFT	12MAR04:01:05	0.200	0.320	0.240
CFT	12MAR04:02:35	0.190	0.250	0.320
CFT	12MAR04:11:40	0.190	0.250	0.370
CFT	12MAR04:13:10	0.220	0.300	0.550
CFT	12MAR04:14:40	0.270	0.350	0.500
CFT	12MAR04:16:10	0.270	0.400	0.490
CFT	12MAR04:17:40	0.270	0.350	0.500
CFT	12MAR04:19:10	0.220	0.290	0.380
CFT	12MAR04:20:40	0.210	0.280	0.380
CFT	12MAR04:22:10	0.210	0.270	0.360
CFT	12MAR04:23:40	0.210	0.280	0.350
CFT	13MAR04:01:10	0.210	0.270	0.330
CFT	13MAR04:02:40	0.210	0.260	0.330
CFT	13MAR04:11:55	0.210	0.260	0.910
CFT	13MAR04:13:25	0.180	0.220	0.420
CFT	13MAR04:14:55	0.160	0.200	0.300
CFT	13MAR04:16:25	0.180	0.230	0.350
CFT	13MAR04:17:55	0.180	0.240	0.370
CFT	13MAR04:19:25	0.170	0.230	0.330
CFT	13MAR04:20:55	0.140	0.200	0.280
CFT	13MAR04:22:25	0.140	0.190	0.300
CFT	14MAR04:11:00	0.110	0.080	0.210
CFT	14MAR04:12:30	0.100	0.090	0.490
CFT	14MAR04:14:00	0.090	0.080	0.160
CFT	14MAR04:15:30	0.080	0.080	0.130
CFT	14MAR04:17:00	0.080	0.060	0.140
CFT	14MAR04:18:30	0.090	0.080	0.140
CFT	14MAR04:20:00	0.090	0.070	0.130
CFT	14MAR04:21:30	0.090	0.070	0.130

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	14MAR04:23:00	0.090	0.070	0.120
CFT	15MAR04:00:30	0.090	0.080	0.140
CFT	15MAR04:11:45	0.070	0.110	0.170
CFT	15MAR04:13:15	0.070	0.070	0.170
CFT	15MAR04:14:45	0.040	0.050	0.150
CFT	15MAR04:16:15	0.030	0.040	0.140
CFT	15MAR04:17:45	0.030	0.050	0.140
CFT	15MAR04:19:20	0.040	0.050	0.150
CFT	15MAR04:20:50	0.050	0.080	0.200
CFT	15MAR04:22:20	0.060	0.130	0.190
CFT	15MAR04:23:50	0.050	0.130	0.210
CFT	16MAR04:01:20	0.060	0.120	0.190
CFT	16MAR04:10:50	0.040	0.130	0.180
CFT	16MAR04:12:20	0.030	0.100	0.170
CFT	16MAR04:13:50	0.030	0.100	0.190
CFT	16MAR04:15:20	0.050	0.120	0.210
CFT	16MAR04:16:50	0.070	0.160	0.240
CFT	16MAR04:18:20	0.070	0.170	0.240
CFT	16MAR04:19:50	0.060	0.140	0.230
CFT	16MAR04:21:20	0.070	0.140	0.250
CFT	16MAR04:22:50	0.060	0.150	0.230
CFT	17MAR04:00:20	0.060	0.140	0.210
CFT	17MAR04:01:50	0.060	0.130	0.210
CFT	17MAR04:03:20	0.050	0.160	0.190
CFT	17MAR04:04:50	0.040	0.190	0.200
CFT	17MAR04:06:20	0.040	0.120	0.190
CFT	17MAR04:07:50	0.030	0.120	0.210
CFT	17MAR04:09:05	0.070	0.130	0.200
CFT	17MAR04:10:35	0.060	0.120	0.190
CFT	17MAR04:12:10	0.060	0.120	0.190
CFT	17MAR04:13:40	0.080	0.140	0.230
CFT	17MAR04:15:10	0.090	0.170	0.240
CFT	17MAR04:16:40	0.110	0.180	0.280

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	17MAR04:18:10	0.120	0.210	0.290
CFT	17MAR04:19:40	0.120	0.190	0.270
CFT	17MAR04:21:10	0.120	0.190	0.280
CFT	17MAR04:22:40	0.110	0.170	0.260
CFT	18MAR04:00:10	0.110	0.170	0.260
CFT	18MAR04:01:40	0.110	0.170	0.240
CFT	18MAR04:03:10	0.100	0.180	0.250
CFT	18MAR04:04:40	0.110	0.170	0.260
CFT	18MAR04:06:10	0.100	0.210	0.260
CFT	18MAR04:10:40	0.090	0.200	0.240
CFT	18MAR04:12:10	0.100	0.190	0.260
CFT	18MAR04:13:40	0.100	0.180	0.290
CFT	18MAR04:15:10	0.080	0.120	0.280
CFT	18MAR04:16:40	0.130	0.210	0.340
CFT	18MAR04:18:10	0.160	0.230	0.350
CFT	18MAR04:19:40	0.200	0.250	0.370
CFT	18MAR04:21:10	0.200	0.250	0.370
CFT	18MAR04:22:40	0.210	0.280	0.380
CFT	19MAR04:00:10	0.230	0.310	0.390
CFT	19MAR04:01:40	0.230	0.300	0.380
CFT	19MAR04:03:10	0.230	0.320	0.390
CFT	19MAR04:04:40	0.240	0.320	0.400
CFT	19MAR04:06:15	0.230	0.310	0.380
CFT	19MAR04:08:30	0.240	.	.
CFT	19MAR04:10:00	0.230	.	.
CFT	19MAR04:11:30	0.210	.	.
CFT	19MAR04:12:45	0.210	.	.
CFT	19MAR04:14:15	0.220	.	.
CFT	19MAR04:15:45	0.240	.	.
CFT	19MAR04:17:15	0.270	.	.
CFT	19MAR04:18:45	0.300	.	.
CFT	19MAR04:20:15	0.310	.	.
CFT	19MAR04:21:45	0.310	.	.

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	19MAR04:23:15	0.320	.	.
CFT	20MAR04:00:45	0.330	.	.
CFT	20MAR04:02:15	0.340	.	.
CFT	20MAR04:10:35	0.380	0.460	0.750
CFT	20MAR04:11:45	0.370	0.450	0.510
CFT	20MAR04:13:15	0.390	0.440	0.460
CFT	20MAR04:14:45	0.350	0.420	0.480
CFT	20MAR04:16:15	0.360	0.430	0.440
CFT	20MAR04:17:45	0.360	0.400	0.450
CFT	20MAR04:19:15	0.220	0.410	0.490
CFT	20MAR04:20:45	0.370	0.420	0.500
CFT	20MAR04:22:15	0.380	0.400	0.510
CFT	20MAR04:23:45	0.390	0.460	0.530
CFT	21MAR04:01:20	0.400	0.490	0.560
CFT	21MAR04:11:35	0.320	0.450	0.520
CFT	21MAR04:11:45	0.310	0.460	0.510
CFT	21MAR04:13:20	0.290	0.440	0.490
CFT	21MAR04:15:05	0.300	0.430	0.500
CFT	03FEB05:12:04	0.440	*0.060*[y]	0.650
CFT	03FEB05:13:34	0.510	0.480	0.590
CFT	03FEB05:15:04	0.490	0.380	0.740
CFT	03FEB05:16:34	0.440	0.300	0.970
CFT	03FEB05:18:04	0.440	0.670	0.800
CFT	03FEB05:19:34	0.470	0.640	0.790
CFT	03FEB05:21:05	0.470	0.690	0.860
CFT	03FEB05:22:35	0.470	0.680	0.850
CFT	04FEB05:00:05	0.460	0.700	0.860
CFT	04FEB05:01:35	0.430	0.680	0.860
CFT	04FEB05:03:05	0.470	0.710	0.860
CFT	04FEB05:04:35	0.450	0.730	0.890
CFT	09FEB05:23:34	1.050	1.610	1.760
CFT	10FEB05:01:04	0.570	0.860	1.170
CFT	10FEB05:02:49	0.500	0.770	0.930

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	10FEB05:04:05	0.430	0.670	0.880
CFT	10FEB05:05:50	0.410	0.670	0.800
CFT	10FEB05:07:05	0.350	0.610	0.740
CFT	10FEB05:08:35	1.340	2.090	2.380
CFT	10FEB05:10:05	0.930	1.460	1.680
CFT	10FEB05:11:35	0.200	0.530	0.670
CFT	10FEB05:13:06	0.140	0.440	1.140
CFT	10FEB05:14:36	0.110	0.410	0.660
CFT	10FEB05:16:06	0.090	0.160	0.270
CFT	10FEB05:17:36	0.100	0.190	0.260
CFT	10FEB05:19:06	0.140	0.510	1.030
CFT	10FEB05:20:37	0.160	0.550	0.560
CFT	10FEB05:22:07	0.220	0.280	0.490
CFT	10FEB05:23:37	0.250	0.600	0.700
CFT	26FEB05:13:03	0.210	0.360	0.560
CFT	26FEB05:14:33	0.180	0.410	0.530
CFT	26FEB05:16:03	0.180	0.410	0.710
CFT	26FEB05:17:33	0.160	0.010	0.570
CFT	26FEB05:19:03	0.150	0.330	0.550
CFT	26FEB05:20:33	0.200	0.380	0.580
CFT	26FEB05:22:03	0.190	0.300	0.600
CFT	27FEB05:12:04	0.600	0.870	1.080
CFT	27FEB05:13:34	0.560	0.880	1.060
CFT	27FEB05:15:05	0.540	0.800	0.960
CFT	27FEB05:16:35	0.460	0.710	0.870
CFT	27FEB05:18:05	0.390	0.640	0.870
CFT	27FEB05:19:35	0.400	0.630	0.790
CFT	27FEB05:21:05	0.410	0.660	0.840
CFT	27FEB05:22:35	0.450	0.720	0.890
CFT	28FEB05:00:05	0.450	0.690	0.840
CFT	28FEB05:11:21	0.430	0.570	0.810
CFT	28FEB05:11:51	0.320	0.430	0.570
CFT	28FEB05:13:21	0.270	0.380	0.510

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	28FEB05:14:51	0.260	0.380	0.530
CFT	28FEB05:16:21	0.330	0.440	0.600
CFT	28FEB05:17:51	0.310	0.420	0.590
CFT	28FEB05:19:22	0.290	0.420	0.570
CFT	28FEB05:20:52	0.320	0.430	0.600
CFT	28FEB05:22:22	0.330	0.460	0.600
CFT	01MAR05:10:08	0.280	0.400	0.530
CFT	01MAR05:11:38	0.270	0.380	0.510
CFT	01MAR05:13:08	0.260	0.370	0.470
CFT	01MAR05:14:38	0.260	0.370	0.490
CFT	01MAR05:16:08	0.270	0.370	0.530
CFT	01MAR05:17:38	0.290	0.370	0.560
CFT	01MAR05:19:08	0.300	0.420	0.570
CFT	01MAR05:20:38	0.300	0.420	0.560
CFT	01MAR05:22:08	0.310	0.440	0.570
CFT	01MAR05:23:39	0.340	0.460	0.590
CFT	02MAR05:01:24	0.350	0.480	0.590
CFT	02MAR05:09:09	0.250	0.330	0.490
CFT	02MAR05:10:39	0.230	0.300	0.450
CFT	02MAR05:12:09	0.200	0.260	0.420
CFT	02MAR05:13:40	0.200	0.260	0.440
CFT	02MAR05:15:10	0.230	0.290	0.390
CFT	02MAR05:16:40	0.250	0.300	0.480
CFT	02MAR05:18:10	0.270	0.330	0.480
CFT	02MAR05:19:40	0.290	0.340	0.500
CFT	02MAR05:21:10	0.290	0.340	0.510
CFT	02MAR05:22:40	0.310	0.360	0.510
CFT	03MAR05:00:10	0.330	0.370	0.510
CFT	03MAR05:01:40	0.340	0.390	0.540
CFT	03MAR05:03:11	0.340	0.390	0.550
CFT	03MAR05:08:11	0.210	0.310	0.480
CFT	03MAR05:09:56	0.200	0.420	0.470
CFT	03MAR05:11:11	0.180	0.280	0.460

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	03MAR05:12:41	0.160	0.270	0.430
CFT	03MAR05:14:11	0.180	0.280	0.440
CFT	03MAR05:15:41	0.200	0.310	0.480
CFT	03MAR05:17:12	0.200	0.330	0.490
CFT	03MAR05:18:42	0.210	0.330	0.470
CFT	03MAR05:20:12	0.220	0.340	0.480
CFT	03MAR05:21:42	0.210	0.350	0.480
CFT	03MAR05:23:12	0.220	0.360	0.480
CFT	04MAR05:00:42	0.290	0.360	0.510
CFT	04MAR05:09:58	0.320	0.440	0.580
CFT	04MAR05:11:28	0.330	0.440	0.610
CFT	04MAR05:12:58	0.300	0.420	0.590
CFT	04MAR05:14:28	0.250	0.380	0.550
CFT	04MAR05:15:58	0.230	0.360	0.540
CFT	04MAR05:17:28	0.260	0.390	0.520
CFT	04MAR05:18:58	0.260	0.410	0.570
CFT	04MAR05:20:29	0.280	0.430	0.580
CFT	04MAR05:21:59	0.320	0.440	0.500
CFT	04MAR05:23:29	0.310	0.430	0.530
CFT	05MAR05:00:59	0.330	0.440	0.550
CFT	05MAR05:02:29	0.310	0.440	0.540
CFT	05MAR05:09:30	0.330	0.440	0.510
CFT	05MAR05:11:00	0.310	0.410	0.520
CFT	05MAR05:12:30	0.340	0.440	0.550
CFT	05MAR05:14:00	0.360	0.450	0.620
CFT	05MAR05:15:30	0.360	0.460	0.620
CFT	05MAR05:17:00	0.350	0.480	0.590
CFT	05MAR05:18:30	0.350	0.480	0.590
CFT	05MAR05:20:00	0.350	0.470	0.580
CFT	05MAR05:21:30	0.380	0.520	0.630
CFT	05MAR05:23:00	0.410	0.540	0.620
CFT	06MAR05:00:31	0.410	0.530	0.660
CFT	06MAR05:02:01	0.400	0.510	0.620

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	06MAR05:03:31	0.390	0.520	0.610
CFT	06MAR05:06:31	0.390	0.500	0.590
CFT	06MAR05:08:16	0.390	0.510	0.580
CFT	06MAR05:09:46	0.370	0.470	0.580
CFT	06MAR05:11:16	0.370	0.470	0.570
CFT	06MAR05:12:46	0.390	0.490	0.620
CFT	06MAR05:14:17	0.420	0.520	0.640
CFT	06MAR05:15:47	0.380	0.490	0.590
CFT	06MAR05:17:17	0.350	0.440	0.520
CFT	06MAR05:18:47	0.310	0.370	0.480
CFT	06MAR05:20:17	0.320	0.410	0.490
CFT	06MAR05:21:47	0.320	0.440	0.500
CFT	07MAR05:12:18	0.450	0.520	0.640
CFT	07MAR05:13:33	0.430	0.540	0.620
CFT	07MAR05:15:03	0.410	0.520	0.590
CFT	07MAR05:16:33	0.410	0.510	0.580
CFT	07MAR05:18:03	0.410	0.500	0.580
CFT	07MAR05:19:34	0.390	0.490	0.560
CFT	07MAR05:21:04	0.390	0.490	0.560
CFT	07MAR05:22:34	0.400	0.500	0.590
CFT	08MAR05:00:04	0.390	0.550	0.610
CFT	08MAR05:01:34	0.420	0.520	0.610
CFT	08MAR05:08:35	0.430	0.590	0.660
CFT	08MAR05:10:05	0.450	0.620	0.670
CFT	08MAR05:11:35	0.430	0.590	0.830
CFT	08MAR05:13:05	0.420	0.580	0.660
CFT	08MAR05:14:35	0.400	0.570	0.640
CFT	08MAR05:16:05	0.380	0.560	0.620
CFT	08MAR05:17:35	0.380	0.530	0.590
CFT	08MAR05:19:05	0.360	0.510	0.590
CFT	08MAR05:20:35	0.360	0.510	0.580
CFT	08MAR05:22:05	0.370	0.560	0.620
CFT	08MAR05:23:36	0.410	0.540	0.610

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	09MAR05:01:06	0.370	0.530	0.620
CFT	09MAR05:02:36	0.380	0.520	0.620
CFT	09MAR05:04:06	0.380	0.530	0.620
CFT	09MAR05:05:36	0.380	0.520	0.620
CFT	09MAR05:07:06	0.380	0.520	0.610
CFT	09MAR05:08:21	0.430	0.530	0.620
CFT	09MAR05:09:51	0.410	0.540	0.610
CFT	09MAR05:11:21	0.460	0.550	0.640
CFT	09MAR05:14:22	0.490	0.600	0.720
CFT	09MAR05:15:52	0.480	0.600	0.730
CFT	09MAR05:17:22	0.470	0.570	0.680
CFT	09MAR05:18:52	0.430	0.540	0.640
CFT	09MAR05:20:22	0.420	0.530	0.620
CFT	09MAR05:21:52	0.410	0.530	0.630
CFT	09MAR05:23:22	0.400	0.530	0.610
CFT	10MAR05:09:53	0.400	0.530	0.620
CFT	10MAR05:11:23	0.390	0.500	0.590
CFT	10MAR05:12:23	0.400	0.510	0.580
CFT	10MAR05:13:53	0.420	0.590	0.610
CFT	10MAR05:15:23	0.400	0.520	0.600
CFT	10MAR05:16:53	0.370	0.500	0.580
CFT	10MAR05:18:24	0.360	0.470	0.560
CFT	10MAR05:19:54	0.330	0.440	0.530
CFT	10MAR05:21:24	0.330	0.430	0.520
CFT	10MAR05:22:54	0.330	0.440	0.530
CFT	11MAR05:00:24	0.330	0.450	0.540
CFT	11MAR05:01:54	0.340	0.440	0.540
CFT	11MAR05:03:24	0.340	0.460	0.530
CFT	11MAR05:04:54	0.340	0.450	0.520
CFT	11MAR05:06:24	0.350	0.450	0.540
CFT	11MAR05:07:55	0.360	0.440	0.530
CFT	11MAR05:09:25	0.350	0.440	0.530
CFT	11MAR05:11:25	0.390	0.520	0.670

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	11MAR05:13:01	0.340	0.540	0.630
CFT	11MAR05:14:32	0.320	0.550	0.690
CFT	11MAR05:16:02	0.270	0.500	0.610
CFT	11MAR05:17:32	0.250	0.440	0.500
CFT	11MAR05:19:02	0.210	0.410	0.510
CFT	11MAR05:20:32	0.200	0.390	0.500
CFT	11MAR05:22:02	0.210	0.390	0.450
CFT	11MAR05:23:32	0.200	0.400	0.440
CFT	12MAR05:01:02	0.220	0.410	0.510
CFT	12MAR05:02:32	0.220	0.420	0.470
CFT	12MAR05:04:03	0.230	0.420	0.520
CFT	12MAR05:05:33	0.250	0.450	0.550
CFT	12MAR05:07:03	0.240	0.470	0.580
CFT	27MAR05:12:43	0.070	0.170	0.330
CFT	27MAR05:14:13	0.160	0.250	0.440
CFT	27MAR05:15:44	0.260	0.370	0.550
CFT	27MAR05:17:14	0.320	0.420	0.620
CFT	27MAR05:18:45	0.320	0.430	0.610
CFT	27MAR05:20:15	0.310	0.440	0.610
CFT	27MAR05:21:46	0.330	0.440	0.630

Table A7.2. Runoff phosphorus concentrations at the Crowfoot Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
CFT	27MAR05:23:16	0.320	0.440	0.620
CFT	28MAR05:00:46	0.300	0.430	0.600
CFT	28MAR05:02:16	0.300	0.420	0.570
CFT	28MAR05:03:46	0.290	0.410	0.560
CFT	28MAR05:05:16	0.290	0.410	0.570
CFT	28MAR05:06:46	0.310	0.420	0.580
CFT	28MAR05:17:55	0.250	0.340	0.530
CFT	28MAR05:19:25	0.230	0.330	0.480
CFT	28MAR05:20:55	0.230	0.330	0.480
CFT	28MAR05:22:26	0.240	0.330	0.480
CFT	28MAR05:23:56	0.270	0.330	0.470
CFT	29MAR05:01:26	0.240	0.340	0.470
CFT	29MAR05:02:56	0.270	0.360	0.500
CFT	29MAR05:04:26	0.300	0.410	0.560
CFT	29MAR05:05:56	0.300	0.430	0.560
CFT	29MAR05:07:56	0.340	0.460	0.630

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Italicized data points were removed from analysis

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	14APR03:02:00	0.004	0.067	0.066
GPC	14APR03:03:30	0.005	0.067	0.060
GPC	14APR03:05:00	0.004	0.065	0.054
GPC	14APR03:06:30	0.003	0.064	0.070
GPC	14APR03:08:00	0.004	0.061	0.059
GPC	14APR03:09:30	0.008	0.058	0.130
GPC	14APR03:11:00	0.003	0.058	0.055
GPC	14APR03:12:30	0.002	0.061	0.100
GPC	14APR03:14:00	0.020	0.063	0.066
GPC	14APR03:15:30	0.016	0.071	0.056
GPC	14APR03:17:00	0.018	0.072	0.054
GPC	14APR03:18:30	0.007	0.074	0.082
GPC	14APR03:20:30	0.018	0.071	0.092
GPC	14APR03:22:00	0.021	0.069	0.074
GPC	14APR03:23:30	0.017	0.070	0.068
GPC	15APR03:01:00	0.018	0.075	0.105
GPC	15APR03:02:30	0.017	0.072	0.100
GPC	15APR03:04:00	0.021	0.073	0.106
GPC	15APR03:05:30	0.016	0.073	0.108
GPC	15APR03:07:00	0.020	0.072	0.090
GPC	15APR03:08:30	0.017	0.071	0.099
GPC	15APR03:10:00	0.020	0.072	0.101
GPC	15APR03:11:30	0.021	0.071	0.063
GPC	15APR03:13:00	0.022	0.067	0.084
GPC	15APR03:14:30	0.025	0.066	0.068
GPC	15APR03:16:00	0.024	*0.422*[y]	*0.588*[y]
GPC	15APR03:17:30	0.024	0.067	0.109
GPC	15APR03:19:00	0.025	0.064	0.097
GPC	15APR03:20:30	0.019	0.056	0.107
GPC	15APR03:22:00	0.019	0.054	0.098
GPC	15APR03:23:30	0.019	0.054	0.093
GPC	16APR03:01:00	0.021	0.055	0.102

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	16APR03:02:30	0.021	0.057	0.100
GPC	16APR03:04:00	0.021	0.058	0.101
GPC	16APR03:05:30	0.023	0.058	0.090
GPC	16APR03:07:00	0.021	0.058	0.092
GPC	16APR03:11:30	0.022	0.047	0.160
GPC	16APR03:13:00	0.022	0.045	0.148
GPC	16APR03:14:30	0.021	0.040	0.074
GPC	16APR03:16:00	0.021	0.044	0.103
GPC	16APR03:17:30	0.021	0.043	0.100
GPC	16APR03:19:00	0.040	0.064	0.349
GPC	16APR03:20:30	0.029	0.053	0.113
GPC	16APR03:22:00	0.029	0.053	0.100
GPC	16APR03:23:30	0.028	0.055	0.083
GPC	17APR03:01:00	0.028	0.053	0.106
GPC	17APR03:02:30	0.026	0.055	0.109
GPC	17APR03:04:00	0.026	0.055	0.106
GPC	17APR03:05:30	0.026	0.058	0.115
GPC	17APR03:07:00	0.027	0.064	0.149
GPC	17APR03:08:30	0.026	0.059	0.146
GPC	17APR03:11:00	0.038	0.054	0.299
GPC	17APR03:12:30	0.004	0.052	0.199
GPC	17APR03:14:00	0.003	0.057	0.306
GPC	17APR03:15:30	0.002	0.064	0.294
GPC	17APR03:17:00	0.006	0.070	0.337
GPC	18APR03:12:30	0.006	0.065	0.230
GPC	18APR03:14:00	0.008	0.075	0.222
GPC	18APR03:15:30	0.012	0.085	0.241
GPC	18APR03:17:00	0.007	0.093	0.237
GPC	18APR03:18:30	0.014	0.085	0.252
GPC	18APR03:20:00	0.017	0.083	0.225
GPC	18APR03:21:30	0.004	0.079	0.213
GPC	18APR03:23:00	0.005	0.083	0.202

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	19APR03:00:30	0.006	0.081	0.191
GPC	19APR03:02:00	0.006	0.081	0.169
GPC	19APR03:03:30	0.016	0.080	0.153
GPC	19APR03:05:00	0.017	0.076	0.154
GPC	19APR03:06:30	0.005	0.079	0.151
GPC	19APR03:09:15	0.003	0.075	0.180
GPC	19APR03:10:45	0.005	0.082	0.181
GPC	19APR03:12:15	0.005	0.085	0.144
GPC	19APR03:13:45	0.005	0.093	0.199
GPC	19APR03:15:15	0.012	0.093	0.283
GPC	19APR03:16:45	0.008	0.093	0.623
GPC	19APR03:18:15	0.014	0.087	0.313
GPC	19APR03:19:45	0.015	0.084	0.239
GPC	19APR03:21:15	0.004	0.082	0.264
GPC	19APR03:22:45	0.003	0.079	0.155
GPC	20APR03:00:15	0.004	0.078	0.157
GPC	20APR03:01:45	0.003	0.081	0.149
GPC	20APR03:03:15	0.003	0.080	0.149
GPC	20APR03:04:45	0.005	0.083	0.134
GPC	20APR03:06:15	0.007	0.190	0.202
GPC	20APR03:07:45	0.003	0.082	*0.001*[y]
GPC	20APR03:09:00	0.005	0.082	0.158
GPC	20APR03:10:30	0.014	0.086	0.164
GPC	20APR03:12:00	0.012	0.096	0.198
GPC	20APR03:13:30	0.013	0.108	0.292
GPC	20APR03:15:00	0.015	0.100	0.626
GPC	20APR03:16:30	0.016	0.090	0.660
GPC	20APR03:18:00	0.018	0.089	0.256
GPC	20APR03:19:30	0.005	0.089	0.255
GPC	20APR03:21:00	0.010	0.089	0.200
GPC	20APR03:22:30	0.003	0.091	0.174
GPC	21APR03:00:00	0.020	0.090	0.171
GPC	21APR03:01:30	0.012	0.094	0.202

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	21APR03:03:00	0.009	0.095	0.167
GPC	21APR03:04:30	0.007	0.095	0.157
GPC	21APR03:06:00	0.005	0.094	0.155
GPC	21APR03:07:30	0.004	0.102	0.183
GPC	21APR03:10:15	0.035	0.125	0.187
GPC	21APR03:11:45	0.047	0.150	0.226
GPC	21APR03:13:15	0.045	0.167	0.406
GPC	21APR03:14:45	0.039	0.144	0.547
GPC	21APR03:16:15	0.038	0.148	0.478
GPC	21APR03:17:45	0.032	0.135	0.469
GPC	21APR03:19:15	0.039	0.149	0.421
GPC	21APR03:20:45	0.042	0.144	0.328
GPC	21APR03:22:15	0.038	0.136	0.220
GPC	21APR03:23:45	0.041	0.136	0.206
GPC	22APR03:01:15	0.046	0.152	0.220
GPC	22APR03:02:45	0.042	0.157	0.217
GPC	22APR03:04:15	0.042	0.213	0.261
GPC	22APR03:05:45	0.036	0.117	0.204
GPC	22APR03:07:15	0.035	0.126	0.210
GPC	22APR03:09:30	0.019	0.099	0.318
GPC	22APR03:11:00	0.037	0.108	0.348
GPC	22APR03:12:30	0.026	0.101	0.490
GPC	22APR03:14:00	0.022	0.099	0.536
GPC	22APR03:15:30	0.027	0.098	0.474
GPC	22APR03:17:00	0.029	0.114	0.348
GPC	22APR03:18:30	0.013	0.122	0.371
GPC	22APR03:20:00	0.018	0.123	0.307
GPC	22APR03:21:30	0.014	0.124	0.332
GPC	22APR03:23:00	0.011	0.117	0.303
GPC	23APR03:00:30	0.010	0.098	0.286
GPC	23APR03:02:00	0.010	0.108	0.265
GPC	23APR03:03:30	0.023	0.108	0.259
GPC	23APR03:05:00	0.008	0.097	0.265

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	23APR03:06:30	0.009	0.107	0.250
GPC	23APR03:08:00	0.006	0.104	0.254
GPC	23APR03:09:30	0.030	0.108	0.251
GPC	23APR03:11:00	0.042	0.106	0.364
GPC	23APR03:12:30	0.046	0.159	0.546
GPC	23APR03:14:00	0.069	0.181	0.499
GPC	23APR03:15:30	0.079	0.194	0.497
GPC	23APR03:17:00	0.089	0.194	0.536
GPC	23APR03:18:30	0.089	0.186	0.504
GPC	23APR03:20:00	0.083	0.193	0.420
GPC	23APR03:21:30	0.061	0.176	0.399
GPC	23APR03:23:00	0.058	0.168	0.352
GPC	24APR03:00:30	0.066	0.138	0.372
GPC	24APR03:02:00	0.021	0.130	0.340
GPC	24APR03:03:30	0.030	0.141	0.301
GPC	24APR03:05:00	0.015	0.118	0.277
GPC	24APR03:06:30	0.016	0.111	0.238
GPC	24APR03:08:00	0.025	0.115	0.210
GPC	24APR03:09:30	0.012	0.108	0.254
GPC	24APR03:11:30	0.013	0.108	0.228
GPC	24APR03:13:00	0.012	0.109	0.193
GPC	24APR03:14:30	0.011	0.114	0.210
GPC	24APR03:16:00	0.011	0.112	0.199
GPC	24APR03:17:30	0.012	0.104	0.203
GPC	24APR03:19:00	0.010	0.116	0.190
GPC	24APR03:20:30	0.010	0.119	0.168
GPC	24APR03:22:00	0.011	0.118	0.119
GPC	24APR03:23:30	0.010	0.113	0.137
GPC	25APR03:01:00	0.009	0.106	0.173
GPC	28APR03:17:30	0.012	0.068	0.423
GPC	28APR03:19:00	0.009	0.065	0.289
GPC	28APR03:20:30	0.010	0.065	0.250
GPC	28APR03:22:00	0.007	0.066	0.219

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	28APR03:23:30	0.034	0.066	0.211
GPC	29APR03:01:00	0.007	0.069	0.196
GPC	29APR03:02:30	0.008	0.070	0.200
GPC	29APR03:04:00	0.012	0.071	0.181
GPC	29APR03:05:30	0.007	0.075	0.172
GPC	29APR03:07:00	0.014	0.071	0.128
GPC	29APR03:08:30	0.017	0.083	0.133
GPC	29APR03:10:00	0.012	0.074	0.137
GPC	29APR03:11:30	0.013	0.082	0.128
GPC	29APR03:13:00	0.012	0.092	0.192
GPC	29APR03:14:30	0.018	0.109	0.138
GPC	29APR03:16:00	0.016	0.109	0.159
GPC	29APR03:17:30	0.014	0.103	0.169
GPC	29APR03:19:00	0.013	0.108	0.148
GPC	29APR03:20:30	0.013	0.107	0.117
GPC	29APR03:22:00	0.010	0.100	0.118
GPC	29APR03:23:30	0.011	0.107	0.132
GPC	30APR03:01:00	0.008	0.098	0.130
GPC	30APR03:02:30	0.007	0.096	0.154
GPC	30APR03:04:00	0.007	0.094	0.124
GPC	30APR03:05:30	0.007	0.096	0.119
GPC	30APR03:10:00	0.010	0.097	0.106
GPC	30APR03:11:30	0.009	0.090	0.101
GPC	30APR03:13:00	0.008	0.093	0.105
GPC	30APR03:14:30	0.009	0.094	0.104
GPC	30APR03:16:00	0.009	0.093	0.098
GPC	30APR03:17:30	0.010	0.093	0.125
GPC	30APR03:19:00	0.009	0.090	0.124
GPC	30APR03:20:30	0.009	0.089	0.120
GPC	03APR04:19:15	0.090	0.140	0.230
GPC	04APR04:12:08	0.080	0.130	0.340
GPC	04APR04:12:10	0.080	0.130	0.340
GPC	04APR04:13:40	0.080	0.120	0.450

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	04APR04:15:10	0.100	0.170	0.430
GPC	04APR04:16:40	0.110	0.140	0.370
GPC	04APR04:18:10	0.110	0.160	0.310
GPC	04APR04:19:40	0.100	0.170	*1.350*[y]
GPC	04APR04:21:10	0.110	0.170	0.310
GPC	04APR04:22:40	0.100	0.130	0.310
GPC	05APR04:00:10	0.150	0.150	0.300
GPC	05APR04:08:00	0.080	0.140	0.290
GPC	05APR04:09:25	0.050	0.140	0.350
GPC	05APR04:10:50	0.080	0.180	0.470
GPC	05APR04:12:20	0.080	0.160	0.520
GPC	05APR04:13:50	0.100	0.190	0.490
GPC	05APR04:15:20	0.100	0.200	0.500
GPC	05APR04:16:50	0.100	0.170	0.460
GPC	05APR04:18:20	0.100	0.140	0.450
GPC	05APR04:19:50	0.090	0.160	0.430
GPC	05APR04:21:25	0.090	0.180	0.460
GPC	05APR04:22:58	0.090	0.190	0.450
GPC	05APR04:23:00	0.090	0.190	0.450
GPC	06APR04:06:40	0.090	0.160	0.470
GPC	06APR04:08:10	0.070	0.170	0.450
GPC	06APR04:08:55	0.060	*0.010*[y]	0.400
GPC	06APR04:10:25	*0.005*[y]	0.160	0.380
GPC	06APR04:11:55	0.070	*0.050*[y]	0.470
GPC	06APR04:13:25	0.080	*0.010*[y]	0.550
GPC	06APR04:14:55	0.090	*0.030*[y]	0.550
GPC	06APR04:16:25	0.090	0.100	0.530
GPC	06APR04:17:55	0.080	0.130	0.510
GPC	06APR04:19:25	0.070	0.080	0.450
GPC	06APR04:21:00	0.070	*0.040*[y]	0.460
GPC	07APR04:03:30	0.030	*0.010*[y]	0.400
GPC	07APR04:05:00	0.030	*0.010*[y]	0.330
GPC	07APR04:06:30	0.040	*0.010*[y]	0.260

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	07APR04:07:30	0.040	0.090	0.240
GPC	07APR04:09:00	0.040	0.110	0.250
GPC	07APR04:10:30	0.050	0.130	0.280
GPC	07APR04:12:00	0.050	0.140	0.280
GPC	07APR04:13:30	0.060	0.170	0.310
GPC	07APR04:15:00	0.070	0.080	0.330
GPC	07APR04:16:30	0.060	0.100	0.320
GPC	07APR04:18:00	0.060	0.160	0.290
GPC	07APR04:19:30	0.060	0.160	0.250
GPC	07APR04:21:05	0.050	0.150	0.250
GPC	07APR04:22:40	0.050	0.120	0.260
GPC	08APR04:13:05	0.060	0.180	0.330
GPC	08APR04:15:45	0.060	0.190	0.340
GPC	03JUL04:15:15	0.080	0.150	0.320
GPC	03JUL04:16:45	0.080	0.140	0.310
GPC	03JUL04:18:15	0.090	0.150	0.320
GPC	03JUL04:19:45	0.080	0.140	0.390
GPC	03JUL04:21:15	0.080	0.160	0.340
GPC	03JUL04:22:45	0.070	0.150	0.310
GPC	04JUL04:00:15	0.060	0.150	0.300
GPC	04JUL04:01:50	0.070	0.140	0.290
GPC	08JUL04:05:10	0.070	0.220	0.460
GPC	08JUL04:07:00	0.070	0.220	0.440
GPC	08JUL04:13:25	0.110	0.200	0.370
GPC	08JUL04:14:55	0.060	0.190	0.520
GPC	08JUL04:16:25	0.060	0.200	0.640
GPC	08JUL04:17:55	0.060	0.190	0.490
GPC	08JUL04:19:25	0.070	0.200	0.390
GPC	08JUL04:20:55	0.080	0.200	0.380
GPC	08JUL04:22:25	0.060	0.210	0.360
GPC	08JUL04:23:55	0.060	0.200	0.350
GPC	09JUL04:01:25	0.060	0.180	0.360
GPC	09JUL04:02:55	0.070	0.210	0.560

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	09JUL04:04:25	0.070	0.220	0.570
GPC	09JUL04:05:55	0.080	0.220	0.500
GPC	09JUL04:07:10	0.130	0.280	0.400
GPC	09JUL04:08:25	0.110	0.230	0.360
GPC	09JUL04:09:55	0.110	0.240	0.320
GPC	09JUL04:11:25	0.100	0.220	0.310
GPC	09JUL04:12:55	0.100	0.200	0.290
GPC	09JUL04:14:25	0.110	0.210	0.280
GPC	09JUL04:15:55	0.100	0.190	0.300
GPC	09JUL04:17:25	0.120	0.210	0.340
GPC	09JUL04:18:55	0.130	0.270	0.440
GPC	09JUL04:20:25	0.120	0.240	0.390
GPC	09JUL04:20:26	0.120	0.240	0.390
GPC	09JUL04:21:55	0.110	0.270	0.360
GPC	09JUL04:23:25	0.080	0.230	0.290
GPC	10JUL04:00:55	0.090	0.230	0.310
GPC	10JUL04:02:25	0.170	0.210	0.260
GPC	10JUL04:03:55	0.005	0.200	0.260
GPC	10JUL04:05:25	0.200	0.200	0.240
GPC	10JUL04:07:25	0.070	0.200	0.260
GPC	10JUL04:08:55	0.060	0.200	0.230
GPC	10JUL04:10:25	0.070	0.170	0.230
GPC	10JUL04:12:00	0.070	0.200	0.240
GPC	10JUL04:13:30	0.080	0.180	0.250
GPC	10JUL04:15:00	0.100	0.230	0.260
GPC	10JUL04:16:30	0.100	0.230	0.300
GPC	10JUL04:18:00	0.100	0.240	0.320
GPC	10JUL04:19:30	0.110	0.240	0.320
GPC	10JUL04:21:00	0.120	0.270	0.310
GPC	10JUL04:22:30	0.120	0.250	0.310
GPC	08MAR05:11:02	0.240	0.280	0.320
GPC	08MAR05:12:32	0.240	0.280	0.320
GPC	08MAR05:14:02	0.260	0.300	0.330

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	08MAR05:15:32	0.240	0.270	0.320
GPC	08MAR05:17:02	0.250	0.280	0.320
GPC	08MAR05:18:32	0.260	0.310	0.340
GPC	08MAR05:20:02	0.270	0.320	0.380
GPC	08MAR05:21:32	0.270	0.310	0.390
GPC	08MAR05:23:02	0.270	0.300	0.370
GPC	09MAR05:00:32	0.250	0.290	0.330
GPC	09MAR05:02:02	0.240	0.270	0.310
GPC	09MAR05:03:32	0.220	0.260	0.290
GPC	09MAR05:05:02	0.200	0.240	0.280
GPC	09MAR05:06:32	0.180	0.230	0.250
GPC	09MAR05:08:02	0.170	0.210	0.250
GPC	09MAR05:10:40	0.170	0.210	0.250
GPC	09MAR05:12:10	0.180	0.210	0.250
GPC	09MAR05:13:40	0.200	0.220	0.260
GPC	09MAR05:15:10	0.210	0.230	0.270
GPC	09MAR05:16:40	0.260	0.290	0.330
GPC	09MAR05:18:10	0.290	0.330	0.360
GPC	09MAR05:19:40	0.310	0.360	0.400
GPC	09MAR05:21:10	0.330	0.390	0.420
GPC	09MAR05:22:40	0.340	0.400	0.440
GPC	10MAR05:00:10	0.350	0.410	0.450
GPC	10MAR05:10:31	0.330	0.340	0.410
GPC	10MAR05:12:01	0.320	0.340	0.400
GPC	10MAR05:13:31	0.300	0.330	0.380
GPC	10MAR05:15:01	0.290	0.310	0.370
GPC	10MAR05:16:31	0.270	0.300	0.370
GPC	10MAR05:18:01	0.270	0.290	0.360
GPC	10MAR05:19:31	0.270	0.290	0.360
GPC	10MAR05:21:01	0.250	0.290	0.350
GPC	10MAR05:22:31	0.250	0.280	0.350
GPC	11MAR05:00:01	0.240	0.280	0.510
GPC	11MAR05:01:31	0.230	0.260	0.330

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	11MAR05:03:01	0.230	0.250	0.320
GPC	11MAR05:04:31	0.210	0.230	0.290
GPC	11MAR05:06:01	0.180	0.210	0.270
GPC	11MAR05:07:31	0.170	0.200	0.220
GPC	11MAR05:11:16	0.080	0.100	0.140
GPC	11MAR05:12:46	0.130	0.140	0.240
GPC	11MAR05:14:16	0.230	0.240	0.370
GPC	11MAR05:15:46	0.260	0.280	0.400
GPC	11MAR05:17:16	0.260	0.280	0.400
GPC	11MAR05:18:46	0.250	0.270	0.380
GPC	11MAR05:20:16	0.230	0.260	0.370
GPC	11MAR05:21:46	0.230	0.260	0.370
GPC	11MAR05:23:16	0.220	0.250	0.360
GPC	12MAR05:00:46	0.210	0.240	0.340
GPC	12MAR05:02:16	0.200	0.230	0.330
GPC	12MAR05:03:46	0.200	0.240	0.320
GPC	12MAR05:05:16	0.180	0.230	0.340
GPC	12MAR05:06:46	0.170	0.220	0.340
GPC	12MAR05:09:19	0.150	0.180	0.310
GPC	12MAR05:10:49	0.120	0.150	0.290
GPC	12MAR05:12:19	0.110	0.140	0.260
GPC	12MAR05:13:49	0.130	0.170	0.340
GPC	12MAR05:15:19	0.170	0.190	0.380
GPC	12MAR05:16:49	0.160	0.200	0.380
GPC	12MAR05:18:19	0.170	0.190	0.360
GPC	12MAR05:19:49	0.170	0.180	0.370
GPC	12MAR05:21:19	0.160	0.190	0.310
GPC	12MAR05:22:49	0.150	0.180	0.350
GPC	13MAR05:00:19	0.150	0.180	0.350
GPC	13MAR05:01:49	0.140	0.190	0.340
GPC	13MAR05:03:19	0.130	0.180	0.330
GPC	13MAR05:04:49	0.130	0.180	0.340
GPC	13MAR05:06:19	0.130	0.180	0.340

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	13MAR05:08:48	0.100	0.150	0.330
GPC	13MAR05:10:18	0.100	0.140	0.310
GPC	13MAR05:11:48	0.100	0.140	0.330
GPC	13MAR05:13:18	0.120	0.170	0.410
GPC	13MAR05:14:48	0.150	0.190	0.500
GPC	13MAR05:16:18	0.150	0.200	0.470
GPC	13MAR05:17:48	0.150	0.190	0.420
GPC	13MAR05:19:18	0.130	0.180	0.410
GPC	13MAR05:20:48	0.130	0.170	0.400
GPC	13MAR05:22:18	0.120	0.180	0.390
GPC	13MAR05:23:48	0.120	0.170	0.390
GPC	14MAR05:01:18	0.110	0.180	0.370
GPC	14MAR05:02:48	0.120	0.230	0.380
GPC	14MAR05:09:17	0.100	0.140	0.390
GPC	14MAR05:10:47	0.100	0.140	0.330
GPC	14MAR05:12:17	0.100	0.140	0.380
GPC	14MAR05:13:47	0.130	0.170	0.530
GPC	14MAR05:15:17	0.140	0.170	0.530
GPC	14MAR05:16:47	0.140	0.180	0.490
GPC	14MAR05:18:17	0.130	0.160	0.450
GPC	14MAR05:19:47	0.120	0.150	0.420
GPC	14MAR05:21:17	0.110	0.150	0.400
GPC	14MAR05:22:47	0.110	0.150	0.420
GPC	15MAR05:00:17	0.110	0.150	0.390
GPC	15MAR05:01:47	0.120	0.190	0.390
GPC	28MAR05:17:57	0.130	0.210	0.500
GPC	28MAR05:19:27	0.130	0.210	0.460
GPC	28MAR05:20:57	0.110	0.210	0.400
GPC	28MAR05:22:27	0.110	0.180	0.380
GPC	28MAR05:23:57	0.100	0.190	.
GPC	29MAR05:11:09	0.070	0.120	0.250
GPC	29MAR05:12:40	0.080	0.120	0.320
GPC	29MAR05:14:10	0.130	0.190	0.560

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	29MAR05:15:40	0.130	0.210	0.590
GPC	29MAR05:17:10	0.140	0.200	0.570
GPC	29MAR05:18:40	0.130	0.200	0.520
GPC	29MAR05:20:10	0.120	0.190	0.480
GPC	29MAR05:21:40	0.120	0.200	0.460
GPC	29MAR05:23:11	0.120	0.180	0.470
GPC	30MAR05:00:41	0.120	0.180	0.460
GPC	30MAR05:12:36	0.080	0.130	0.330
GPC	30MAR05:14:06	0.100	0.180	0.210
GPC	30MAR05:15:36	0.040	0.220	0.620
GPC	30MAR05:17:06	0.130	0.280	0.680
GPC	30MAR05:18:36	0.130	0.290	0.630
GPC	30MAR05:20:06	0.120	0.210	0.520
GPC	30MAR05:21:36	0.120	0.200	0.430
GPC	30MAR05:23:07	0.110	0.210	0.550
GPC	31MAR05:09:52	0.120	0.200	0.500
GPC	31MAR05:11:22	0.100	0.180	0.430
GPC	31MAR05:12:53	0.100	0.180	0.480
GPC	31MAR05:14:23	0.110	0.220	0.670
GPC	31MAR05:15:53	0.120	0.220	0.670
GPC	31MAR05:17:23	0.120	0.250	0.690
GPC	31MAR05:18:53	0.110	0.240	0.680
GPC	31MAR05:20:23	0.110	0.240	0.690
GPC	31MAR05:21:53	0.110	0.240	0.680
GPC	31MAR05:23:24	0.100	0.240	0.670
GPC	01APR05:00:54	0.100	0.230	0.620
GPC	01APR05:02:24	0.100	0.240	0.600
GPC	01APR05:03:54	0.100	0.240	0.600
GPC	01APR05:05:24	0.100	0.230	0.600
GPC	01APR05:06:54	0.100	0.230	0.600
GPC	01APR05:08:24	0.100	0.240	0.580
GPC	01APR05:09:54	0.080	0.190	0.520
GPC	01APR05:11:24	0.090	0.200	0.540

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	01APR05:12:55	0.090	0.200	0.660
GPC	01APR05:14:25	0.120	0.270	0.960
GPC	01APR05:15:55	0.120	0.260	0.980
GPC	01APR05:17:25	0.130	0.270	0.910
GPC	01APR05:18:55	0.120	0.250	0.890
GPC	01APR05:20:25	0.120	0.260	0.910
GPC	01APR05:21:55	0.120	0.270	0.910
GPC	02APR05:10:26	0.100	0.240	0.590
GPC	02APR05:11:56	0.080	0.190	0.500
GPC	02APR05:13:27	0.070	0.190	0.470
GPC	02APR05:14:57	0.070	0.180	0.500
GPC	02APR05:16:27	0.080	0.180	0.510
GPC	02APR05:17:57	0.080	0.190	0.530
GPC	02APR05:19:27	0.080	0.190	0.560
GPC	02APR05:20:57	0.080	0.210	0.630
GPC	02APR05:22:27	0.100	0.230	0.670
GPC	03APR05:14:30	0.090	0.200	0.520
GPC	03APR05:16:00	0.080	0.140	0.520
GPC	03APR05:17:30	0.090	0.220	0.550
GPC	03APR05:19:01	0.120	0.220	0.560
GPC	03APR05:20:31	0.080	0.230	0.590
GPC	04APR05:13:32	0.110	0.210	0.530
GPC	04APR05:15:03	0.100	0.220	0.540
GPC	04APR05:16:33	0.090	0.220	0.550
GPC	04APR05:18:03	0.080	0.220	0.550
GPC	08APR05:17:52	0.020	0.090	0.310
GPC	08APR05:19:22	0.020	0.090	0.230
GPC	08APR05:20:52	0.005	0.090	0.190
GPC	08APR05:22:23	0.005	0.090	0.170
GPC	08APR05:23:53	0.005	0.090	0.180
GPC	09APR05:01:23	0.005	0.090	0.170
GPC	09APR05:09:29	0.020	0.100	0.150
GPC	09APR05:10:59	0.005	0.080	0.160

Table A7.3. Runoff phosphorus concentrations at the Grande Prairie Creek site.

Site	Sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
GPC	09APR05:12:29	0.005	0.090	0.160
GPC	09APR05:13:59	0.005	0.090	0.170
GPC	09APR05:15:30	0.005	0.100	.[x]

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Italicized data points were removed from analysis.

[x]Missing data.

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	22MAR03:17:55	0.321	0.375	0.926
REN	22MAR03:19:30	0.357	0.480	0.567
REN	22MAR03:21:00	0.343	0.452	.[y]
REN	22MAR03:22:30	0.332	0.448	0.530
REN	23MAR03:00:00	0.321	0.452	0.561
REN	23MAR03:01:30	0.317	0.463	0.530
REN	23MAR03:03:00	0.319	0.468	0.540
REN	23MAR03:04:30	0.294	0.435	0.481
REN	23MAR03:06:00	0.237	0.398	0.482
REN	23MAR03:07:30	0.198	0.367	0.451
REN	23MAR03:09:00	0.222	0.403	0.521
REN	23MAR03:11:15	0.187	0.190	0.423
REN	23MAR03:12:45	0.202	0.196	0.415
REN	23MAR03:14:15	0.231	0.220	0.386
REN	23MAR03:15:45	0.298	0.263	0.510
REN	23MAR03:17:15	0.376	0.293	0.501
REN	23MAR03:18:45	0.343	0.281	0.454
REN	23MAR03:20:15	0.297	0.294	0.443
REN	23MAR03:21:45	0.266	0.248	0.373
REN	23MAR03:23:15	0.258	0.248	0.372
REN	24MAR03:02:15	0.222	0.232	0.361
REN	24MAR03:16:45	0.209	0.260	0.549
REN	24MAR03:18:15	0.204	0.279	0.465
REN	24MAR03:19:45	0.221	0.304	0.477
REN	24MAR03:21:15	0.259	0.349	0.515
REN	24MAR03:22:45	0.246	0.346	0.498
REN	25MAR03:12:15	0.165	0.245	0.455
REN	25MAR03:13:45	0.179	0.250	0.459
REN	25MAR03:15:15	0.217	0.290	0.535
REN	25MAR03:16:45	0.286	0.329	0.641
REN	25MAR03:18:15	0.284	0.341	0.551
REN	25MAR03:19:45	0.272	0.332	0.528
REN	25MAR03:21:15	0.244	0.311	0.460

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	25MAR03:22:50	0.218	0.285	0.425
REN	26MAR03:00:20	0.181	0.238	0.364
REN	26MAR03:11:05	0.138	0.201	0.336
REN	26MAR03:12:35	0.157	0.233	0.378
REN	26MAR03:14:05	0.198	0.254	0.469
REN	26MAR03:15:35	0.274	0.322	0.529
REN	26MAR03:17:05	0.277	0.335	0.505
REN	26MAR03:18:35	0.260	0.327	0.478
REN	26MAR03:20:05	0.221	0.311	0.441
REN	26MAR03:21:35	0.188	0.285	0.414
REN	26MAR03:23:05	0.132	0.237	0.349
REN	27MAR03:00:35	0.101	0.215	0.270
REN	27MAR03:11:20	0.209	0.272	0.428
REN	27MAR03:12:50	0.218	0.286	0.394
REN	27MAR03:14:20	0.243	0.314	0.430
REN	27MAR03:15:50	0.307	0.357	0.478
REN	27MAR03:17:20	0.304	0.354	0.494
REN	27MAR03:18:50	0.279	0.335	0.465
REN	27MAR03:20:20	0.254	0.308	0.412
REN	27MAR03:21:50	0.192	0.254	0.374
REN	27MAR03:23:20	0.166	0.229	0.306
REN	28MAR03:12:05	0.245	0.294	0.405
REN	28MAR03:13:35	0.304	0.349	0.479
REN	28MAR03:15:05	0.335	0.375	0.522
REN	28MAR03:16:40	0.320	0.362	0.472
REN	28MAR03:18:10	0.261	0.299	0.392
REN	28MAR03:19:40	0.189	0.234	0.307
REN	28MAR03:21:10	0.173	0.224	0.301
REN	28MAR03:22:40	0.164	0.204	0.269
REN	29MAR03:00:10	0.142	0.192	0.250
REN	29MAR03:01:40	0.127	0.173	0.239
REN	29MAR03:03:10	0.116	0.164	0.223
REN	29MAR03:04:40	0.109	0.161	0.207

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	29MAR03:06:10	0.110	0.162	0.212
REN	29MAR03:07:40	0.112	0.166	0.224
REN	29MAR03:11:25	0.166	0.224	0.316
REN	29MAR03:12:55	0.232	0.303	0.429
REN	29MAR03:14:25	0.283	0.342	0.401
REN	29MAR03:15:55	0.248	0.300	0.521
REN	29MAR03:17:25	0.185	0.237	0.335
REN	29MAR03:18:55	0.155	0.214	0.280
REN	29MAR03:20:25	0.126	0.183	0.252
REN	29MAR03:21:55	0.104	0.166	0.229
REN	29MAR03:23:35	0.099	0.131	0.173
REN	30MAR03:00:55	0.078	0.110	0.145
REN	30MAR03:02:25	0.075	0.112	0.173
REN	30MAR03:03:55	0.057	0.104	0.162
REN	30MAR03:05:25	0.049	0.095	0.130
REN	30MAR03:06:55	0.058	0.103	0.159
REN	30MAR03:08:25	0.094	0.132	0.233
REN	30MAR03:10:10	0.115	0.152	0.325
REN	30MAR03:11:40	0.158	0.212	0.229
REN	30MAR03:13:10	0.158	0.192	0.375
REN	30MAR03:14:40	0.149	0.276	0.291
REN	30MAR03:16:10	0.115	0.146	0.345
REN	30MAR03:17:40	0.132	0.138	0.261
REN	30MAR03:19:10	0.107	0.130	0.242
REN	30MAR03:20:40	0.097	0.127	0.197
REN	30MAR03:22:10	0.100	0.132	0.222
REN	30MAR03:23:40	0.105	0.137	*0.131*[x]
REN	31MAR03:01:10	0.115	0.144	0.202
REN	31MAR03:02:40	0.109	0.161	0.205
REN	31MAR03:10:25	0.184	0.212	0.317
REN	31MAR03:11:55	0.161	0.192	0.303
REN	31MAR03:13:25	0.148	0.171	0.279
REN	31MAR03:14:55	0.160	0.192	0.293

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	31MAR03:16:25	0.180	0.213	0.306
REN	31MAR03:17:55	0.273	0.240	0.548
REN	31MAR03:19:25	0.233	0.253	0.413
REN	31MAR03:20:55	0.211	0.240	0.356
REN	07APR03:12:00	0.174	0.234	0.504
REN	07APR03:13:30	0.153	0.222	0.604
REN	07APR03:15:00	0.209	0.290	0.681
REN	07APR03:16:30	0.201	0.279	0.581
REN	07APR03:18:00	0.226	0.309	0.628
REN	07APR03:19:30	0.261	0.322	0.337
REN	08APR03:13:35	0.319	0.264	0.407
REN	08APR03:15:05	0.256	0.277	0.513
REN	10JUN03:08:40	0.055	0.093	0.497
REN	10JUN03:10:25	0.044	0.098	0.493
REN	25FEB04:15:30	0.690	0.820	1.590
REN	25FEB04:16:15	0.650	0.640	1.280
REN	25FEB04:17:45	0.690	0.690	1.000
REN	08MAR04:12:40	0.570	0.700	0.900
REN	08MAR04:14:10	0.590	0.720	0.960
REN	08MAR04:15:10	0.630	0.780	1.090
REN	08MAR04:16:40	0.360	0.470	0.730
REN	08MAR04:18:10	0.210	0.270	0.570
REN	08MAR04:19:40	0.210	0.310	0.530
REN	08MAR04:21:10	0.220	0.310	0.450
REN	08MAR04:22:40	0.200	0.280	0.580
REN	09MAR04:00:10	0.340	0.450	0.550
REN	09MAR04:01:40	0.210	0.290	0.530
REN	09MAR04:03:15	0.300	0.390	0.640
REN	09MAR04:04:45	0.230	0.300	0.550
REN	09MAR04:06:15	0.190	0.260	0.370
REN	09MAR04:07:45	0.170	0.250	0.320
REN	09MAR04:09:05	0.270	0.370	0.620
REN	09MAR04:10:35	0.250	0.350	0.750

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	09MAR04:12:05	0.330	0.460	1.320
REN	09MAR04:13:35	0.200	0.280	0.460
REN	09MAR04:15:05	0.230	0.340	0.510
REN	09MAR04:16:35	0.220	0.330	0.400
REN	09MAR04:18:05	0.170	0.230	0.290
REN	09MAR04:19:35	0.150	0.210	0.270
REN	09MAR04:21:05	0.150	0.220	0.250
REN	09MAR04:22:35	0.150	0.230	0.250
REN	10MAR04:10:00	0.120	0.210	0.290
REN	10MAR04:11:35	0.270	0.400	0.530
REN	10MAR04:13:05	0.240	0.350	0.550
REN	10MAR04:14:35	0.230	0.350	0.540
REN	10MAR04:16:05	0.230	0.340	0.550
REN	10MAR04:17:35	0.180	0.290	0.420
REN	10MAR04:19:05	0.100	0.200	0.250
REN	10MAR04:20:35	0.080	0.170	0.240
REN	11MAR04:09:05	0.070	0.180	0.340
REN	11MAR04:10:35	0.230	0.390	0.760
REN	11MAR04:12:05	0.220	0.350	1.150
REN	11MAR04:13:35	0.180	0.180	1.200
REN	11MAR04:15:05	0.130	0.180	0.450
REN	11MAR04:16:35	0.130	0.210	0.410
REN	11MAR04:18:05	0.100	0.150	0.290
REN	11MAR04:19:35	0.100	0.190	0.250
REN	11MAR04:21:05	0.090	0.170	0.220
REN	11MAR04:22:35	0.090	0.160	0.200
REN	12MAR04:00:05	0.090	0.150	0.200
REN	12MAR04:01:35	0.080	0.150	0.210
REN	12MAR04:03:05	0.080	0.150	0.200
REN	12MAR04:04:35	0.090	0.160	0.200
REN	12MAR04:06:10	0.100	0.180	0.230
REN	12MAR04:07:40	0.120	0.190	0.290
REN	12MAR04:09:20	0.170	0.230	0.360

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	12MAR04:11:40	0.240	0.260	0.660
REN	12MAR04:13:10	0.230	0.250	0.710
REN	12MAR04:14:40	0.150	0.180	0.490
REN	12MAR04:16:10	0.130	0.150	0.480
REN	12MAR04:17:40	0.110	0.130	0.320
REN	12MAR04:19:10	0.110	0.140	0.230
REN	12MAR04:20:40	0.100	0.120	0.210
REN	12MAR04:22:10	0.100	0.130	0.210
REN	12MAR04:23:40	0.100	0.130	0.210
REN	13MAR04:01:10	0.110	0.160	0.230
REN	13MAR04:02:40	0.110	0.170	0.240
REN	13MAR04:04:10	0.120	0.190	0.260
REN	13MAR04:11:40	0.200	0.200	0.520
REN	13MAR04:13:10	0.150	*0.110*[x]	1.300
REN	13MAR04:14:45	0.140	*0.110*[x]	1.840
REN	13MAR04:16:15	0.140	*0.120*[x]	1.540
REN	13MAR04:17:45	0.110	*0.070*[x]	0.970
REN	13MAR04:19:15	0.110	*0.080*[x]	0.810
REN	13MAR04:20:45	0.100	0.160	1.170
REN	13MAR04:22:15	0.120	*0.080*[x]	1.250
REN	14MAR04:11:40	0.130	0.210	0.440
REN	14MAR04:13:40	0.100	0.120	0.320
REN	14MAR04:15:10	0.090	0.140	0.370
REN	14MAR04:16:40	0.090	0.130	0.300
REN	14MAR04:18:10	0.100	0.140	0.270
REN	14MAR04:19:40	0.100	0.160	0.270
REN	14MAR04:21:10	0.090	0.160	0.250
REN	14MAR04:22:40	0.080	0.150	0.220
REN	15MAR04:00:10	0.080	0.160	0.200
REN	15MAR04:01:40	0.080	0.170	0.230
REN	15MAR04:03:10	0.090	0.150	0.260
REN	15MAR04:11:25	0.180	0.360	*8.460*[x]
REN	15MAR04:13:25	0.130	0.210	*3.470*[x]

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	15MAR04:14:55	0.090	0.150	*1.450*[x]
REN	15MAR04:16:25	0.090	0.170	*2.430*[x]
REN	15MAR04:17:55	0.090	0.160	*4.380*[x]
REN	15MAR04:19:25	0.080	0.200	*1.190*[x]
REN	15MAR04:20:55	0.080	0.170	0.380
REN	15MAR04:22:25	0.080	0.200	0.270
REN	16MAR04:01:25	0.080	0.170	0.280
REN	16MAR04:02:55	0.090	0.190	0.290
REN	16MAR04:04:25	0.090	0.210	0.280
REN	16MAR04:13:45	0.210	0.220	*5.720*[x]
REN	16MAR04:15:15	0.100	0.190	1.540
REN	16MAR04:16:45	0.090	0.220	1.600
REN	16MAR04:18:15	0.090	0.180	1.120
REN	16MAR04:19:45	0.110	0.220	0.750
REN	16MAR04:21:15	0.080	0.210	0.450
REN	16MAR04:22:45	0.090	0.340	0.860
REN	17MAR04:14:25	0.080	0.190	1.150
REN	17MAR04:15:20	0.100	0.200	0.970
REN	17MAR04:17:00	0.100	0.210	0.670
REN	17MAR04:18:30	0.120	0.210	0.490
REN	17MAR04:20:00	0.130	0.250	0.370
REN	17MAR04:21:35	0.130	0.210	0.330
REN	17MAR04:23:15	0.130	0.230	0.340
REN	18MAR04:04:20	0.130	0.260	0.330
REN	18MAR04:10:55	0.110	0.170	0.800
REN	18MAR04:14:10	0.110	0.180	0.840
REN	18MAR04:15:40	0.120	0.180	0.830
REN	18MAR04:17:10	0.120	0.190	0.500
REN	18MAR04:18:40	0.120	0.210	0.390
REN	18MAR04:20:10	0.120	0.180	0.380
REN	18MAR04:21:40	0.120	0.170	0.440
REN	18MAR04:23:10	0.120	0.210	0.300
REN	19MAR04:00:40	0.130	0.190	0.260

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	19MAR04:02:10	0.140	0.240	0.250
REN	19MAR04:03:40	0.140	0.220	0.260
REN	19MAR04:05:10	0.150	0.200	0.250
REN	19MAR04:06:40	0.130	0.210	0.280
REN	19MAR04:08:10	0.140	0.220	0.490
REN	19MAR04:11:10	0.500	0.180	0.960
REN	19MAR04:12:45	0.280	0.200	0.750
REN	19MAR04:14:15	0.320	0.210	*2.450*
REN	19MAR04:15:50	0.550	0.270	*5.940*
REN	19MAR04:17:20	0.450	0.240	*8.770*
REN	19MAR04:18:50	0.270	0.230	0.700
REN	19MAR04:20:35	0.250	0.260	0.690
REN	21MAR04:15:40	0.170	0.300	0.500
REN	22MAR04:11:15	0.180	0.240	0.830
REN	23MAR04:11:55	0.210	0.310	0.900
REN	07JUL04:21:00	0.070	1.540	1.650
REN	08JUL04:08:55	0.070	0.130	1.140
REN	03AUG04:10:30	0.020	0.010	1.340
REN	03AUG04:19:00	0.020	0.010	2.910
REN	23AUG04:10:56	.[y]	0.060	.[y]
REN	02FEB05:13:05	0.480	0.720	0.920
REN	03FEB05:10:20	0.480	0.830	1.080
REN	03FEB05:10:30	0.005	0.010	0.010
REN	03FEB05:10:30	0.820	1.090	1.140
REN	01MAR05:13:42	0.830	1.000	1.130
REN	01MAR05:15:34	0.600	0.780	0.900
REN	01MAR05:17:04	0.850	1.010	1.230
REN	01MAR05:18:34	0.970	1.170	1.310
REN	01MAR05:20:04	1.010	1.230	1.370
REN	01MAR05:21:34	*0.270*[x]	1.290	1.410
REN	01MAR05:23:04	1.060	1.310	1.420
REN	02MAR05:00:35	1.080	1.350	1.440
REN	02MAR05:02:05	1.120	1.360	1.460

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	03MAR05:09:16	1.610	1.690	1.860
REN	03MAR05:10:43	1.540	1.680	1.910
REN	03MAR05:12:14	1.540	1.640	1.800
REN	03MAR05:13:44	1.290	1.420	1.740
REN	03MAR05:15:14	1.320	1.370	1.530
REN	03MAR05:16:44	1.480	1.520	1.720
REN	03MAR05:18:14	1.520	1.560	1.740
REN	03MAR05:19:44	1.530	1.680	1.820
REN	03MAR05:21:14	1.220	1.610	1.820
REN	03MAR05:22:44	1.350	1.660	1.850
REN	04MAR05:00:15	1.310	1.660	1.850
REN	04MAR05:01:45	1.390	1.640	1.850
REN	04MAR05:03:15	1.420	1.650	1.830
REN	04MAR05:04:45	1.360	1.660	1.830
REN	04MAR05:06:15	1.450	1.710	1.920
REN	04MAR05:10:16	1.180	1.520	1.870
REN	04MAR05:11:46	1.030	1.420	1.820
REN	04MAR05:13:16	0.880	1.210	1.520
REN	04MAR05:14:46	0.810	1.130	1.560
REN	04MAR05:16:16	0.810	1.200	1.540
REN	04MAR05:17:46	0.890	1.270	1.500
REN	04MAR05:19:16	0.870	1.370	1.650
REN	04MAR05:20:47	1.000	1.350	1.610
REN	04MAR05:22:17	1.140	1.420	1.660
REN	04MAR05:23:47	1.170	1.400	1.640
REN	05MAR05:01:17	1.110	1.400	1.630
REN	05MAR05:02:47	1.100	1.430	1.580
REN	05MAR05:04:17	1.120	1.410	1.600
REN	05MAR05:10:18	0.730	1.020	1.410
REN	05MAR05:11:48	0.720	0.970	1.500
REN	05MAR05:13:18	0.630	0.820	1.470
REN	05MAR05:14:48	0.660	0.870	1.390
REN	05MAR05:16:19	0.750	0.980	1.440

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	05MAR05:17:49	0.800	0.970	1.490
REN	05MAR05:19:19	0.830	1.070	1.650
REN	05MAR05:20:49	0.810	1.050	1.810
REN	05MAR05:22:19	0.810	1.050	1.340
REN	05MAR05:23:49	0.820	1.030	1.300
REN	06MAR05:01:19	0.810	1.020	1.280
REN	06MAR05:02:50	0.790	0.980	1.290
REN	06MAR05:04:20	0.770	0.970	1.220
REN	06MAR05:05:50	0.730	0.940	1.210
REN	06MAR05:07:20	0.720	0.890	1.170
REN	06MAR05:08:50	0.670	0.850	1.110
REN	06MAR05:10:20	0.630	0.780	1.170
REN	06MAR05:11:05	0.720	0.900	1.240
REN	06MAR05:12:36	0.800	1.010	1.430
REN	06MAR05:14:06	0.790	0.930	1.330
REN	06MAR05:15:36	0.840	1.000	1.380
REN	06MAR05:17:06	0.840	1.030	1.370
REN	06MAR05:18:36	0.900	1.090	1.400
REN	06MAR05:20:06	0.930	1.160	1.440
REN	06MAR05:21:36	0.910	1.220	1.450
REN	06MAR05:23:07	0.860	1.050	1.380
REN	07MAR05:01:22	0.840	1.030	1.290
REN	07MAR05:10:31	0.660	0.770	1.160
REN	07MAR05:12:13	0.590	0.760	1.070
REN	07MAR05:13:46	0.540	0.790	1.240
REN	07MAR05:15:18	0.660	0.830	1.330
REN	07MAR05:16:48	0.670	0.830	1.250
REN	07MAR05:18:19	0.700	0.830	1.220
REN	07MAR05:19:49	0.740	0.850	1.300
REN	07MAR05:21:19	0.730	0.870	1.250
REN	07MAR05:22:50	0.730	0.900	1.240
REN	08MAR05:00:22	0.710	0.850	1.210
REN	08MAR05:01:52	0.640	0.850	1.160

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	08MAR05:03:22	0.760	0.940	1.270
REN	08MAR05:07:53	0.550	0.710	1.060
REN	08MAR05:10:23	0.550	0.710	1.060
REN	08MAR05:11:08	0.600	0.750	1.060
REN	08MAR05:14:16	0.550	0.750	1.150
REN	08MAR05:15:48	0.590	0.800	1.160
REN	08MAR05:17:19	0.650	0.900	1.250
REN	08MAR05:18:52	0.680	0.930	1.250
REN	08MAR05:20:38	0.600	0.850	1.130
REN	08MAR05:23:02	0.520	0.760	0.990
REN	09MAR05:07:00	0.490	0.740	0.920
REN	09MAR05:13:38	0.560	0.740	0.940
REN	25MAR05:18:31	0.570	0.730	0.910
REN	25MAR05:20:03	0.640	0.850	0.980
REN	25MAR05:21:34	0.580	0.760	0.960
REN	26MAR05:17:20	0.460	0.630	0.830
REN	26MAR05:18:51	0.400	0.550	0.770
REN	26MAR05:21:22	0.350	0.480	0.740
REN	26MAR05:21:53	0.320	0.450	0.720
REN	26MAR05:23:37	0.300	0.440	0.710
REN	27MAR05:01:29	0.330	0.470	0.740
REN	27MAR05:03:22	0.330	0.480	0.770
REN	27MAR05:05:28	0.350	0.520	0.780
REN	27MAR05:07:19	0.340	0.490	0.740
REN	27MAR05:12:40	0.290	0.400	0.670
REN	27MAR05:13:10	0.230	0.330	0.810
REN	27MAR05:14:40	0.240	0.340	0.980
REN	27MAR05:16:10	0.320	0.430	0.950
REN	27MAR05:17:40	0.380	0.500	1.520
REN	27MAR05:19:10	0.410	0.550	0.900
REN	27MAR05:20:40	0.470	0.620	0.900
REN	27MAR05:22:11	0.600	0.650	0.910
REN	27MAR05:23:41	0.480	0.650	0.900

Table A7.4. Runoff phosphorus concentrations at the Renwick Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	28MAR05:01:11	0.490	0.650	0.890
REN	28MAR05:13:55	0.450	0.860	0.900
REN	28MAR05:15:10	0.500	0.680	0.990
REN	28MAR05:16:47	0.410	0.570	0.830
REN	07JUN05:15:11	0.050	0.110	2.800
REN	13JUN05:19:02	0.140	0.220	2.470
REN	17JUN05:14:02	0.060	0.050	7.020
REN	17JUN05:15:40	0.060	0.090	4.220
REN	17JUN05:19:13	0.370	0.410	2.960
REN	17JUN05:20:43	0.310	0.360	1.900
REN	17JUN05:22:25	0.130	0.160	1.500
REN	18JUN05:03:01	0.070	0.100	0.760
REN	18JUN05:04:33	0.090	0.120	1.450
REN	18JUN05:06:03	0.420	0.480	.[y]
REN	18JUN05:07:33	0.460	0.560	0.930
REN	18JUN05:09:03	0.350	0.440	0.730
REN	17AUG05:07:02	0.350	0.360	0.980
REN	17AUG05:08:41	0.320	0.330	0.840
REN	23AUG05:09:17	0.230	0.240	1.690
REN	24AUG05:02:59	0.210	0.220	0.600
REN	24AUG05:04:29	0.160	0.170	0.600
REN	24AUG05:05:59	0.220	0.210	0.500
REN	24AUG05:07:34	0.170	0.170	0.450
REN	24AUG05:09:04	0.160	0.160	0.450
REN	24AUG05:10:34	0.150	0.150	0.570
REN	24AUG05:12:05	0.110	0.110	0.910
REN	24AUG05:13:35	0.090	0.080	0.800
REN	24AUG05:15:05	0.080	0.070	0.810
REN	24AUG05:16:35	0.080	0.080	0.510
REN	24AUG05:18:05	0.090	0.080	0.340
REN	24AUG05:19:35	0.090	0.080	0.390
REN	24AUG05:21:05	0.120	0.100	0.280

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Missing data.

[x]Italicized data points were removed from analysis.

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	23MAR03:22:00	0.212	0.870	1.100
THC	23MAR03:23:30	1.250	1.470	1.630
THC	25MAR03:14:25	0.844	0.881	1.070
THC	25MAR03:20:20	1.030	1.130	1.290
THC	25MAR03:21:50	1.310	1.300	1.440
THC	27MAR03:19:15	0.915	0.964	1.190
THC	28MAR03:14:35	0.855	0.940	1.050
THC	28MAR03:16:05	0.840	0.851	0.976
THC	28MAR03:17:35	0.809	0.825	1.040
THC	28MAR03:19:05	0.773	0.927	0.935
THC	28MAR03:20:35	0.727	0.765	0.897
THC	28MAR03:22:05	0.722	0.737	0.854
THC	28MAR03:23:35	0.724	0.745	0.864
THC	29MAR03:01:05	0.726	0.749	0.883
THC	29MAR03:02:35	0.747	0.773	0.890
THC	29MAR03:11:35	0.651	0.700	0.742
THC	29MAR03:13:50	0.763	0.811	1.030
THC	29MAR03:15:20	0.778	0.807	1.030
THC	29MAR03:16:50	0.743	0.779	1.030
THC	29MAR03:18:20	0.676	0.715	0.905
THC	29MAR03:19:50	0.642	0.672	0.871
THC	29MAR03:21:20	0.640	0.667	0.825
THC	29MAR03:22:50	0.608	0.631	0.796
THC	30MAR03:00:20	0.594	0.632	0.761
THC	30MAR03:01:50	0.578	0.590	0.755
THC	30MAR03:03:20	0.541	0.583	0.723
THC	30MAR03:04:50	0.547	0.611	0.752
THC	30MAR03:06:20	0.518	0.550	0.682
THC	30MAR03:07:50	0.466	0.469	0.596
THC	30MAR03:09:20	0.469	0.508	0.635
THC	30MAR03:10:50	0.520	0.568	0.724
THC	30MAR03:12:55	0.579	0.605	0.783

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	30MAR03:14:25	0.487	0.502	0.686
THC	30MAR03:15:55	0.497	0.511	0.693
THC	30MAR03:17:25	0.453	0.461	0.619
THC	30MAR03:18:55	0.403	0.397	0.548
THC	30MAR03:20:25	0.400	0.412	0.540
THC	30MAR03:21:55	0.423	0.426	0.554
THC	30MAR03:23:25	0.437	0.435	0.557
THC	31MAR03:00:55	0.443	0.458	0.557
THC	31MAR03:02:25	0.439	0.454	0.577
THC	31MAR03:03:55	0.452	0.454	0.560
THC	31MAR03:05:25	0.460	0.466	0.578
THC	31MAR03:06:55	0.464	0.464	0.575
THC	31MAR03:08:25	0.474	0.479	0.587
THC	31MAR03:09:55	0.494	0.521	0.638
THC	31MAR03:11:40	0.569	0.526	0.680
THC	31MAR03:13:10	0.484	0.450	0.581
THC	31MAR03:14:40	0.349	0.335	0.440
THC	31MAR03:16:10	0.363	0.335	0.457
THC	31MAR03:17:40	0.431	0.467	0.497
THC	31MAR03:19:10	0.478	0.508	0.599
THC	31MAR03:20:40	0.528	0.520	0.654
THC	31MAR03:22:10	0.529	0.524	0.652
THC	31MAR03:23:40	0.548	0.537	0.638
THC	01APR03:01:10	0.569	0.558	0.658
THC	01APR03:02:40	0.573	0.668	0.580
THC	01APR03:04:10	0.608	0.598	0.688
THC	01APR03:12:15	0.665	0.646	0.759
THC	01APR03:13:45	0.680	0.649	0.754
THC	01APR03:15:15	0.701	0.696	0.779
THC	01APR03:16:45	0.712	0.696	0.804
THC	01APR03:18:25	0.712	0.702	0.775
THC	01APR03:20:05	0.712	0.722	0.815

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	01APR03:21:40	0.659	0.745	0.827
THC	01APR03:23:10	0.746	0.757	0.833
THC	07APR03:12:00	0.905	1.160	1.130
THC	07APR03:13:30	0.768	0.754	0.948
THC	07APR03:15:00	0.393	0.425	0.720
THC	07APR03:16:30	0.261	0.299	0.534
THC	07APR03:18:00	0.284	0.317	0.516
THC	07APR03:19:30	0.326	0.361	0.470
THC	07APR03:21:00	0.354	0.508	0.664
THC	07APR03:22:30	0.369	0.553	0.736
THC	08APR03:00:00	0.381	0.524	0.686
THC	08APR03:01:30	0.387	0.498	0.643
THC	08APR03:03:00	0.392	0.439	0.651
THC	08APR03:04:30	0.372	0.443	0.532
THC	08APR03:06:00	0.395	0.451	0.578
THC	08APR03:07:30	0.421	0.461	0.580
THC	08APR03:09:00	0.418	0.479	0.605
THC	08APR03:12:05	0.338	0.432	0.561
THC	08APR03:13:35	0.356	0.438	0.574
THC	08APR03:15:05	0.399	0.480	0.564
THC	08APR03:16:35	0.448	0.499	0.602
THC	08APR03:18:05	0.469	0.531	0.638
THC	08APR03:19:35	0.498	0.560	0.620
THC	08APR03:21:05	0.523	0.571	0.643
THC	08APR03:22:35	0.536	0.588	0.631
THC	09APR03:00:05	0.559	0.586	0.645
THC	09APR03:01:35	0.607	0.632	0.671
THC	09APR03:03:05	0.605	0.625	0.671
THC	09APR03:05:10	0.651	0.639	0.708
THC	09APR03:08:15	0.694	0.688	0.747
THC	09APR03:11:15	0.750	0.892	1.030
THC	09APR03:12:45	0.915	*0.062*[y]	*0.069*[y]
THC	09APR03:14:20	0.973	*0.066*[y]	*0.074*[y]

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	12MAR04:12:15	0.920	1.170	1.290
THC	12MAR04:22:20	0.840	1.070	1.190
THC	12MAR04:23:50	0.760	0.970	*0.010*
THC	13MAR04:08:25	0.360	0.440	0.550
THC	13MAR04:09:30	0.350	0.450	0.520
THC	13MAR04:11:00	0.340	0.430	0.520
THC	13MAR04:12:30	0.360	0.450	0.520
THC	13MAR04:14:00	0.440	0.530	0.630
THC	13MAR04:15:30	0.470	0.560	0.630
THC	13MAR04:17:00	0.480	0.580	0.670
THC	13MAR04:18:30	0.470	0.560	0.670
THC	14MAR04:09:05	0.370	0.430	0.550
THC	14MAR04:10:35	0.330	0.390	0.440
THC	14MAR04:12:05	0.310	0.320	0.400
THC	14MAR04:13:35	0.310	0.330	0.390
THC	14MAR04:15:05	0.350	0.340	0.440
THC	14MAR04:16:35	0.340	0.350	0.430
THC	14MAR04:18:05	0.340	0.370	0.420
THC	14MAR04:19:35	0.330	0.380	0.480
THC	14MAR04:21:05	0.310	0.340	0.430
THC	14MAR04:22:35	0.310	0.330	0.400
THC	15MAR04:00:05	0.310	0.330	0.400
THC	15MAR04:01:35	0.300	0.400	0.450
THC	15MAR04:03:05	0.300	0.390	0.460
THC	15MAR04:04:35	0.310	0.390	0.480
THC	15MAR04:08:50	0.290	0.440	0.540
THC	15MAR04:10:20	0.250	0.380	0.480
THC	15MAR04:11:50	0.250	0.370	0.480
THC	15MAR04:13:20	0.340	0.490	0.560
THC	15MAR04:14:50	0.360	0.520	0.630
THC	15MAR04:16:20	0.300	0.440	0.500
THC	15MAR04:17:50	0.280	0.430	0.490
THC	15MAR04:19:20	0.260	0.350	0.470

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	15MAR04:20:50	0.210	0.300	0.390
THC	15MAR04:22:20	0.180	0.320	0.350
THC	15MAR04:23:50	0.160	0.300	0.340
THC	16MAR04:01:20	0.160	0.270	0.350
THC	16MAR04:02:50	0.170	0.260	0.360
THC	16MAR04:04:20	0.200	0.340	0.410
THC	16MAR04:05:50	0.280	0.450	0.490
THC	16MAR04:07:20	0.230	0.340	0.410
THC	16MAR04:11:35	0.280	0.380	0.460
THC	16MAR04:13:05	0.280	0.390	0.510
THC	16MAR04:14:35	0.300	0.390	0.490
THC	16MAR04:16:05	0.280	0.370	0.480
THC	16MAR04:17:35	0.290	0.380	0.470
THC	16MAR04:19:05	0.230	0.320	0.390
THC	16MAR04:20:35	0.220	0.280	0.400
THC	16MAR04:22:05	0.200	0.280	0.380
THC	16MAR04:23:35	0.170	0.240	0.310
THC	17MAR04:01:05	0.170	0.240	0.290
THC	17MAR04:09:15	0.130	0.370	0.470
THC	17MAR04:10:45	0.190	0.350	0.380
THC	17MAR04:12:15	0.170	0.310	0.350
THC	17MAR04:13:45	0.170	0.280	0.390
THC	17MAR04:15:15	0.190	0.310	0.390
THC	17MAR04:16:45	0.190	0.310	0.370
THC	17MAR04:18:20	0.190	0.300	0.300
THC	17MAR04:19:50	0.180	0.300	0.360
THC	17MAR04:21:20	0.170	0.310	0.340
THC	17MAR04:22:50	0.160	0.310	0.340
THC	18MAR04:00:20	0.150	0.270	0.320
THC	18MAR04:01:50	0.140	0.290	0.300
THC	18MAR04:03:20	0.140	0.270	0.310
THC	18MAR04:08:50	0.150	0.250	0.320
THC	18MAR04:10:20	0.150	0.250	0.300

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	18MAR04:11:50	0.160	0.240	0.300
THC	18MAR04:13:20	0.210	0.300	0.560
THC	18MAR04:14:50	0.210	0.300	0.370
THC	18MAR04:16:20	0.180	0.270	0.320
THC	18MAR04:17:50	0.160	0.220	0.280
THC	18MAR04:19:20	0.140	0.240	0.320
THC	18MAR04:20:50	0.150	0.250	0.390
THC	18MAR04:22:20	0.180	0.270	0.330
THC	18MAR04:23:50	0.220	0.340	0.390
THC	19MAR04:01:20	0.250	0.350	0.390
THC	19MAR04:02:50	0.170	0.260	0.310
THC	19MAR04:04:20	0.150	0.250	0.270
THC	19MAR04:05:50	0.160	0.230	0.300
THC	19MAR04:07:20	3.070	3.280	5.450
THC	19MAR04:08:50	0.170	0.230	0.310
THC	19MAR04:10:05	0.170	0.220	0.280
THC	19MAR04:11:35	0.160	0.240	0.270
THC	19MAR04:13:05	0.150	0.200	0.290
THC	19MAR04:14:35	0.160	0.220	0.300
THC	19MAR04:16:05	0.170	0.210	0.270
THC	19MAR04:17:40	0.190	0.240	0.260
THC	19MAR04:19:10	0.200	0.280	0.290
THC	19MAR04:20:40	0.240	0.330	0.330
THC	19MAR04:22:10	0.260	0.320	0.360
THC	20MAR04:08:35	0.190	0.290	0.350
THC	20MAR04:10:05	0.210	0.330	0.370
THC	20MAR04:11:35	0.230	0.320	0.370
THC	20MAR04:13:05	0.240	0.350	0.390
THC	20MAR04:14:35	0.250	0.350	0.400
THC	20MAR04:16:05	0.250	0.350	0.400
THC	20MAR04:17:35	0.240	0.370	0.410
THC	20MAR04:19:05	0.240	0.330	0.360
THC	20MAR04:20:35	0.250	0.310	0.350

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	20MAR04:22:05	1.040	1.270	1.680
THC	21MAR04:08:40	0.210	0.300	0.330
THC	21MAR04:10:10	0.200	0.300	0.320
THC	21MAR04:11:40	0.200	0.290	0.350
THC	21MAR04:13:10	0.200	0.270	0.300
THC	21MAR04:14:40	0.210	0.300	0.320
THC	21MAR04:16:10	0.220	0.290	0.330
THC	21MAR04:17:40	0.240	0.340	0.340
THC	21MAR04:19:10	0.230	0.320	0.350
THC	21MAR04:20:40	0.220	0.310	0.340
THC	21MAR04:22:10	0.220	0.290	0.320
THC	22MAR04:08:45	0.220	0.320	0.380
THC	22MAR04:10:15	0.210	0.310	0.340
THC	22MAR04:11:45	0.210	0.310	0.340
THC	22MAR04:13:15	0.220	0.310	0.340
THC	22MAR04:14:45	0.240	0.350	0.370
THC	22MAR04:16:15	0.260	0.350	0.380
THC	22MAR04:17:45	0.270	0.360	0.380
THC	22MAR04:19:15	0.290	0.360	0.430
THC	22MAR04:20:45	0.280	0.370	0.400
THC	22MAR04:22:15	0.270	0.370	0.400
THC	23MAR04:10:00	0.250	0.340	0.410
THC	23MAR04:11:30	0.250	0.320	0.360
THC	23MAR04:13:00	0.210	0.290	0.390
THC	23MAR04:14:30	0.150	0.220	0.280
THC	23MAR04:16:00	0.150	0.210	0.280
THC	23MAR04:17:30	0.210	0.280	0.320
THC	23MAR04:19:05	0.250	0.330	0.390
THC	23MAR04:20:35	0.270	0.330	*0.840*
THC	23MAR04:22:05	0.250	0.340	0.390
THC	23MAR04:23:35	0.190	0.260	0.310
THC	24MAR04:01:35	0.170	0.210	0.290
THC	24MAR04:09:20	0.200	0.270	0.360

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	24MAR04:10:50	0.240	0.280	0.320
THC	24MAR04:12:20	0.210	0.270	0.310
THC	24MAR04:13:50	0.200	0.260	0.320
THC	24MAR04:15:20	0.230	0.270	0.350
THC	24MAR04:16:50	0.260	0.310	0.360
THC	24MAR04:18:20	0.190	0.240	0.290
THC	24MAR04:19:50	0.190	0.230	0.270
THC	24MAR04:21:20	0.200	0.250	0.310
THC	24MAR04:22:55	0.220	0.320	0.340
THC	25MAR04:00:25	0.240	0.290	0.350
THC	25MAR04:01:55	0.240	0.320	0.350
THC	25MAR04:03:25	0.260	0.330	0.370
THC	25MAR04:04:55	0.260	0.340	0.350
THC	25MAR04:06:25	0.270	0.320	0.350
THC	25MAR04:08:15	0.250	0.290	0.330
THC	25MAR04:09:30	0.240	0.300	0.320
THC	25MAR04:11:00	0.230	0.280	0.310
THC	25MAR04:12:30	0.230	0.280	0.320
THC	25MAR04:14:00	0.250	0.290	0.330
THC	25MAR04:15:30	0.250	0.300	0.340
THC	25MAR04:17:00	0.280	0.300	0.350
THC	25MAR04:18:30	0.250	0.310	0.340
THC	25MAR04:20:00	0.260	0.300	0.350
THC	25MAR04:21:30	0.260	0.320	0.340
THC	25MAR04:23:00	0.005	0.350	0.380
THC	26MAR04:09:00	0.350	0.420	0.450
THC	26MAR04:10:30	0.350	0.420	0.470
THC	26MAR04:12:00	0.350	0.410	0.440
THC	26MAR04:13:30	0.310	0.360	0.420
THC	26MAR04:15:00	0.300	0.350	0.460
THC	26MAR04:16:30	0.280	0.320	0.470
THC	26MAR04:18:00	0.270	0.310	0.400
THC	26MAR04:19:30	0.280	0.330	0.500

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	26MAR04:21:00	0.300	0.350	0.400
THC	26MAR04:22:30	0.310	0.360	0.450
THC	27MAR04:00:00	0.340	0.390	0.450
THC	27MAR04:10:25	0.390	0.450	0.500
THC	27MAR04:11:55	0.360	0.430	0.500
THC	27MAR04:13:25	0.300	0.200	0.330
THC	27MAR04:14:55	0.320	0.360	0.480
THC	27MAR04:16:25	0.360	0.400	0.500
THC	27MAR04:17:55	0.390	0.410	0.520
THC	27MAR04:19:25	0.410	0.450	0.530
THC	27MAR04:20:55	0.440	0.480	0.540
THC	27MAR04:22:25	0.460	0.540	0.540
THC	27MAR04:23:55	0.490	0.540	0.580
THC	28MAR04:01:25	0.530	0.570	0.610
THC	28MAR04:02:55	0.550	0.590	0.620
THC	28MAR04:04:25	0.560	0.620	0.640
THC	28MAR04:05:55	0.580	0.590	0.660
THC	28MAR04:07:25	0.600	0.650	0.710
THC	28MAR04:10:15	0.540	0.630	0.700
THC	28MAR04:11:45	0.410	0.510	0.580
THC	28MAR04:13:15	0.370	0.500	0.550
THC	28MAR04:14:45	0.390	0.490	0.520
THC	28MAR04:16:15	0.410	0.550	0.580
THC	28MAR04:17:45	0.500	0.580	0.610
THC	28MAR04:19:20	0.510	0.630	0.720
THC	28MAR04:23:25	0.470	0.600	0.650
THC	29MAR04:12:45	0.550	0.610	0.790
THC	29MAR04:14:10	0.490	0.560	0.750
THC	29MAR04:15:25	0.520	0.580	0.670
THC	29MAR04:16:55	0.580	0.630	0.720
THC	29MAR04:18:25	0.660	0.730	0.770
THC	02FEB05:14:50	0.970	1.520	1.840
THC	02FEB05:21:15	1.120	1.630	1.830

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	02FEB05:22:56	1.350	1.990	2.310
THC	03FEB05:00:35	1.700	2.350	2.660
THC	03FEB05:02:08	1.760	2.610	2.890
THC	03FEB05:03:54	1.620	2.430	2.690
THC	03FEB05:05:54	1.540	2.340	2.650
THC	03FEB05:09:09	1.000	1.540	1.780
THC	03FEB05:10:39	0.850	1.280	1.530
THC	03FEB05:12:09	0.720	1.040	1.230
THC	03FEB05:13:40	0.690	0.910	1.200
THC	03FEB05:15:10	0.670	0.900	1.130
THC	03FEB05:16:40	0.640	0.950	0.930
THC	03FEB05:18:10	0.610	0.870	1.110
THC	03FEB05:19:40	0.660	0.900	1.810
THC	03FEB05:21:10	0.640	0.920	1.110
THC	03FEB05:22:40	0.600	0.890	1.180
THC	04FEB05:00:11	0.710	0.910	1.070
THC	04FEB05:01:41	0.580	0.860	1.040
THC	04MAR05:08:39	0.540	0.840	1.100
THC	04MAR05:10:00	0.530	0.830	1.150
THC	04MAR05:11:30	0.470	0.730	1.100
THC	04MAR05:13:00	0.460	0.740	0.890
THC	04MAR05:14:31	0.490	0.750	0.960
THC	04MAR05:16:01	0.560	0.820	1.060
THC	04MAR05:17:31	0.620	0.880	1.200
THC	04MAR05:19:01	0.580	0.910	1.070
THC	04MAR05:20:31	0.610	0.890	1.010
THC	04MAR05:22:01	0.600	0.930	0.990
THC	04MAR05:23:31	0.640	0.910	1.050
THC	05MAR05:01:01	0.690	0.950	1.160
THC	05MAR05:02:32	0.680	0.980	1.110
THC	05MAR05:08:17	0.680	0.860	1.130
THC	05MAR05:09:47	0.680	0.870	1.090
THC	05MAR05:11:17	0.660	0.830	1.040

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	05MAR05:12:48	0.650	0.810	1.050
THC	05MAR05:14:18	0.640	0.790	1.010
THC	05MAR05:15:48	0.700	0.910	1.080
THC	05MAR05:17:18	0.650	0.840	1.010
THC	05MAR05:18:48	0.650	0.820	0.960
THC	05MAR05:20:18	0.640	0.830	0.990
THC	05MAR05:21:48	0.660	0.890	0.980
THC	05MAR05:23:18	0.660	0.850	1.000
THC	06MAR05:00:49	0.680	0.890	1.020
THC	06MAR05:02:19	0.710	0.890	1.020
THC	06MAR05:03:49	0.720	0.890	1.020
THC	06MAR05:05:19	0.730	0.880	1.050
THC	06MAR05:06:49	0.720	0.750	1.020
THC	06MAR05:08:19	0.700	0.860	1.010
THC	06MAR05:09:49	0.710	0.900	1.030
THC	06MAR05:11:20	0.730	0.880	1.030
THC	06MAR05:12:50	0.620	0.760	0.920
THC	06MAR05:14:20	0.680	0.840	0.980
THC	06MAR05:15:50	0.760	0.880	1.080
THC	06MAR05:17:20	0.760	0.900	1.040
THC	06MAR05:18:50	0.770	0.940	0.990
THC	06MAR05:20:20	0.790	0.900	1.040
THC	06MAR05:21:51	0.800	0.910	1.040
THC	06MAR05:23:21	0.780	0.950	1.020
THC	07MAR05:07:52	0.720	0.850	1.000
THC	07MAR05:09:37	0.730	0.930	0.980
THC	07MAR05:10:52	0.730	0.870	1.000
THC	07MAR05:12:22	0.720	0.870	0.990
THC	07MAR05:13:52	0.760	0.920	1.090
THC	07MAR05:15:22	0.750	0.900	1.050
THC	07MAR05:16:52	0.690	*0.310*[y]	0.980
THC	07MAR05:18:23	0.610	0.750	0.940
THC	07MAR05:19:53	0.570	0.710	0.860

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	07MAR05:21:23	0.560	0.700	0.870
THC	07MAR05:22:53	0.570	0.690	0.860
THC	08MAR05:00:23	0.570	0.710	0.860
THC	08MAR05:01:53	0.550	0.690	0.850
THC	08MAR05:03:23	0.540	0.690	0.850
THC	08MAR05:04:54	0.560	0.700	0.870
THC	08MAR05:06:24	0.550	0.680	0.820
THC	08MAR05:07:54	0.520	0.680	0.800
THC	08MAR05:09:39	0.550	0.670	0.810
THC	08MAR05:11:09	0.550	0.680	0.830
THC	08MAR05:12:39	0.570	0.690	0.880
THC	08MAR05:14:09	0.570	0.690	0.880
THC	08MAR05:15:40	0.490	0.620	0.800
THC	08MAR05:17:10	0.520	0.650	0.810
THC	08MAR05:18:40	0.560	0.680	0.840
THC	08MAR05:20:10	0.580	0.710	0.850
THC	08MAR05:21:40	0.570	0.700	0.860
THC	08MAR05:23:10	0.570	0.710	0.840
THC	09MAR05:00:40	0.580	0.710	0.820
THC	09MAR05:02:11	0.550	0.690	0.820
THC	09MAR05:03:41	0.550	0.710	0.820
THC	09MAR05:05:11	0.550	0.700	0.810
THC	09MAR05:06:41	0.550	0.700	0.820
THC	09MAR05:09:26	0.530	0.710	0.820
THC	09MAR05:10:56	0.510	0.680	0.850
THC	09MAR05:12:27	0.440	0.590	0.820
THC	09MAR05:13:57	0.500	0.650	0.880
THC	09MAR05:15:27	0.530	0.700	0.890
THC	09MAR05:16:57	0.530	0.680	0.850
THC	09MAR05:18:27	0.550	0.720	0.850
THC	09MAR05:19:57	0.590	0.780	0.900
THC	09MAR05:21:27	0.590	0.770	0.910
THC	09MAR05:22:57	0.570	0.740	0.860

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	10MAR05:00:28	0.540	0.730	0.840
THC	10MAR05:01:58	0.530	0.690	0.790
THC	10MAR05:03:28	0.520	0.710	0.790
THC	10MAR05:04:58	0.520	0.720	0.800
THC	10MAR05:06:28	0.530	0.740	0.800
THC	10MAR05:09:44	0.520	0.670	0.760
THC	10MAR05:11:14	0.530	0.620	0.690
THC	10MAR05:12:44	0.460	0.580	1.150
THC	10MAR05:14:14	0.490	0.640	1.060
THC	10MAR05:15:44	0.510	0.650	0.830
THC	10MAR05:17:14	0.530	0.690	0.790
THC	10MAR05:18:44	0.530	0.680	0.800
THC	10MAR05:20:15	0.530	0.700	0.790
THC	10MAR05:21:45	0.530	0.690	0.820
THC	10MAR05:23:15	0.540	0.720	0.830
THC	11MAR05:00:45	0.550	0.750	0.840
THC	11MAR05:02:15	0.560	0.740	0.840
THC	11MAR05:03:45	0.550	0.720	0.890
THC	11MAR05:05:16	0.540	0.740	0.850
THC	11MAR05:06:46	0.550	0.720	0.850
THC	11MAR05:08:31	0.580	0.710	*2.090*
THC	11MAR05:10:01	0.510	0.640	0.870
THC	11MAR05:11:31	0.530	0.650	0.790
THC	11MAR05:13:02	0.590	0.740	0.990
THC	11MAR05:14:32	0.560	0.680	*2.500*
THC	11MAR05:16:02	0.520	0.680	0.800
THC	11MAR05:17:32	0.530	0.640	0.770
THC	11MAR05:19:02	0.510	0.640	0.770
THC	11MAR05:20:32	0.570	0.660	0.790
THC	11MAR05:22:03	0.610	0.700	0.820
THC	11MAR05:23:33	0.530	0.710	0.810
THC	12MAR05:01:03	0.590	0.740	0.840
THC	12MAR05:02:34	0.590	0.780	0.850

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	12MAR05:04:04	0.570	0.780	0.890
THC	12MAR05:05:34	0.570	0.750	0.860
THC	12MAR05:07:04	0.590	0.750	0.860
THC	28MAR05:15:05	0.180	0.250	0.820
THC	28MAR05:16:29	0.190	0.260	0.570
THC	28MAR05:18:00	0.200	0.290	0.430
THC	28MAR05:19:30	0.220	0.300	0.430
THC	28MAR05:21:00	0.220	0.310	0.440
THC	28MAR05:22:30	0.220	0.320	0.430
THC	29MAR05:00:00	0.220	0.320	0.440
THC	29MAR05:01:30	0.220	0.320	0.440
THC	29MAR05:03:00	0.220	0.320	0.440
THC	29MAR05:04:30	0.200	0.310	0.420
THC	29MAR05:06:01	0.220	0.360	0.440
THC	29MAR05:09:11	0.190	0.250	0.410
THC	29MAR05:10:29	0.210	0.280	0.630
THC	29MAR05:11:17	0.890	1.050	1.020
THC	29MAR05:11:59	0.270	0.380	0.760
THC	29MAR05:13:29	0.290	0.410	0.680
THC	29MAR05:14:59	0.360	0.470	0.670
THC	29MAR05:16:29	0.380	0.500	0.670
THC	29MAR05:18:00	0.380	0.510	0.680
THC	29MAR05:19:30	0.440	0.560	1.310
THC	29MAR05:21:00	0.460	0.610	1.310
THC	29MAR05:22:30	0.460	0.630	1.170
THC	30MAR05:00:00	0.480	0.640	0.970
THC	30MAR05:01:30	0.480	0.590	0.850
THC	30MAR05:10:31	0.440	0.540	0.630
THC	30MAR05:12:01	0.480	0.560	*0.247*
THC	30MAR05:13:31	0.510	0.620	*0.497*
THC	30MAR05:15:01	0.500	0.630	0.780
THC	30MAR05:16:31	0.550	0.650	0.750
THC	30MAR05:18:01	0.550	0.680	0.800

Table A7.5. Runoff phosphorus concentrations from the Three Hills Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
THC	30MAR05:19:32	0.560	0.720	0.820
THC	30MAR05:21:02	0.590	0.750	0.860
THC	30MAR05:22:32	0.620	0.760	0.860
THC	31MAR05:00:02	0.590	0.750	0.840
THC	17AUG05:06:21	0.160	0.170	2.870
THC	17AUG05:10:05	0.190	0.190	1.400
THC	23AUG05:22:18	0.110	0.100	0.980
THC	24AUG05:00:00	0.090	0.090	1.480
THC	24AUG05:09:29	0.050	0.060	2.310
THC	24AUG05:10:59	0.030	0.040	2.550
THC	24AUG05:12:29	0.040	0.040	2.150
THC	24AUG05:13:29	0.050	0.040	1.560
THC	24AUG05:15:00	0.260	0.270	0.830
THC	24AUG05:16:30	0.040	0.040	1.400
THC	24AUG05:18:00	0.150	0.140	0.670

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Italicized data points were removed from analysis.

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	11APR03:10:45	0.157	0.187	0.288
WAB	11APR03:12:15	0.148	0.175	0.250
WAB	11APR03:13:45	0.149	0.167	0.268
WAB	11APR03:15:15	0.161	0.168	0.287
WAB	11APR03:16:45	0.153	0.170	0.287
WAB	11APR03:18:20	0.148	0.169	0.300
WAB	11APR03:19:50	0.161	0.178	0.286
WAB	11APR03:21:20	0.161	0.189	0.289
WAB	11APR03:22:50	0.164	0.192	0.295
WAB	12APR03:00:20	0.171	0.202	0.313
WAB	12APR03:01:50	0.173	0.205	0.298
WAB	12APR03:03:20	0.171	0.206	0.289
WAB	12APR03:04:50	0.186	0.206	0.290
WAB	12APR03:06:20	0.179	0.207	0.286
WAB	12APR03:07:50	0.177	0.196	0.287
WAB	12APR03:09:20	0.168	0.191	0.305
WAB	12APR03:10:50	0.167	0.176	0.311
WAB	12APR03:13:05	0.157	0.191	0.697
WAB	12APR03:14:35	0.124	0.190	0.627
WAB	12APR03:16:05	0.130	0.193	0.538
WAB	12APR03:17:35	0.141	0.202	0.309
WAB	12APR03:19:05	0.158	0.215	0.608
WAB	12APR03:20:35	0.164	0.220	0.385
WAB	12APR03:22:05	0.170	0.225	0.857
WAB	12APR03:23:35	0.173	0.230	0.514
WAB	13APR03:01:05	0.179	0.231	0.567
WAB	13APR03:02:35	0.180	0.225	*1.490*[y]
WAB	13APR03:04:05	0.188	0.231	*3.620*[y]
WAB	13APR03:05:35	0.192	0.236	*4.*430[y]
WAB	13APR03:07:05	0.195	0.236	*4.430*[y]
WAB	13APR03:08:35	0.193	0.234	*2.230*[y]
WAB	13APR03:14:10	0.232	0.263	0.401

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	13APR03:15:40	0.188	0.253	0.387
WAB	13APR03:17:10	0.217	0.249	0.387
WAB	13APR03:18:40	0.186	0.240	0.363
WAB	13APR03:20:10	0.194	0.250	0.363
WAB	13APR03:21:40	0.212	0.245	0.387
WAB	14APR03:14:05	0.275	0.262	0.376
WAB	14APR03:15:35	0.259	0.259	0.358
WAB	14APR03:17:10	0.255	0.256	0.353
WAB	14APR03:18:55	0.247	0.254	0.352
WAB	14APR03:20:25	0.228	0.227	0.346
WAB	14APR03:21:55	0.219	0.231	0.321
WAB	14APR03:23:25	0.156	0.218	*0.105*[y]
WAB	15APR03:01:05	0.237	0.250	0.671
WAB	15APR03:09:20	0.247	0.261	0.528
WAB	15APR03:10:50	0.168	0.237	0.298
WAB	15APR03:12:15	0.144	0.231	0.288
WAB	15APR03:12:55	0.151	0.229	0.293
WAB	15APR03:13:55	0.148	0.233	0.289
WAB	15APR03:15:25	0.152	0.239	0.276
WAB	15APR03:16:55	0.166	0.267	0.360
WAB	15APR03:18:25	0.164	0.265	0.362
WAB	15APR03:19:55	0.177	0.308	0.424
WAB	16APR03:14:10	0.250	0.307	0.383
WAB	16APR03:15:40	0.238	0.280	0.343
WAB	16APR03:17:10	0.244	0.422	0.514
WAB	17APR03:11:30	0.278	0.311	0.388
WAB	17APR03:13:15	0.281	0.318	0.399
WAB	17APR03:14:45	0.289	0.311	0.382
WAB	17APR03:16:15	0.287	0.304	0.372
WAB	17APR03:17:45	0.279	0.299	0.354
WAB	17APR03:19:15	0.276	0.285	0.340
WAB	17APR03:20:45	0.254	0.306	0.350

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	18APR03:18:20	0.250	0.290	0.330
WAB	18APR03:19:55	0.242	0.278	0.321
WAB	03APR04:15:40	0.150	0.180	0.250
WAB	03APR04:17:10	0.120	0.150	0.210
WAB	03APR04:18:40	0.120	0.170	0.230
WAB	03APR04:20:10	0.130	0.210	0.260
WAB	03APR04:21:40	0.140	0.200	0.250
WAB	03APR04:23:10	0.150	0.210	0.260
WAB	04APR04:00:40	0.150	0.220	0.270
WAB	04APR04:02:10	0.150	0.220	0.280
WAB	04APR04:03:40	0.150	0.220	0.280
WAB	04APR04:05:10	0.160	0.240	0.270
WAB	04APR04:06:40	0.170	0.240	0.300
WAB	04APR04:08:10	0.190	0.250	0.340
WAB	04APR04:09:40	0.190	0.240	0.290
WAB	04APR04:11:55	0.140	0.220	0.280
WAB	04APR04:13:25	0.160	0.250	0.280
WAB	04APR04:14:55	0.160	0.280	0.320
WAB	04APR04:16:25	0.170	0.240	0.280
WAB	04APR04:17:55	0.170	0.250	0.290
WAB	04APR04:19:25	0.170	0.240	0.290
WAB	04APR04:19:26	0.170	0.240	0.290
WAB	04APR04:20:55	0.170	0.240	0.290
WAB	04APR04:22:25	0.170	0.240	0.330
WAB	04APR04:23:55	0.180	0.250	0.300
WAB	05APR04:01:25	0.170	0.250	0.300
WAB	05APR04:02:55	0.180	0.240	0.290
WAB	05APR04:04:25	0.180	0.240	0.300
WAB	05APR04:05:55	0.210	0.270	0.310
WAB	05APR04:07:25	0.200	0.280	0.340
WAB	05APR04:09:00	0.180	0.260	0.340
WAB	05APR04:10:00	0.180	0.230	0.280
WAB	05APR04:11:30	0.180	0.230	0.300

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	05APR04:13:00	0.210	0.280	0.340
WAB	05APR04:14:30	0.230	0.300	0.350
WAB	05APR04:16:00	0.240	0.330	0.350
WAB	05APR04:17:30	0.230	0.300	0.340
WAB	05APR04:19:00	0.210	0.300	0.340
WAB	05APR04:20:30	0.220	0.270	0.340
WAB	05APR04:21:59	0.200	0.260	0.340
WAB	05APR04:22:00	0.200	0.260	0.340
WAB	05APR04:23:30	0.200	0.280	0.320
WAB	06APR04:11:50	0.190	0.310	0.360
WAB	06APR04:13:05	0.240	0.320	0.380
WAB	06APR04:14:35	0.200	0.330	0.380
WAB	06APR04:16:05	0.250	0.360	0.380
WAB	06APR04:17:35	0.250	0.340	0.390
WAB	06APR04:19:05	0.220	0.320	0.370
WAB	06APR04:20:35	0.120	0.310	0.350
WAB	06APR04:22:05	0.220	0.300	0.340
WAB	06APR04:23:35	0.220	0.290	0.320
WAB	05MAR05:12:37	0.130	0.240	0.500
WAB	05MAR05:14:08	0.140	0.250	0.470
WAB	05MAR05:15:38	0.150	0.270	0.430
WAB	05MAR05:17:08	0.160	0.280	0.470
WAB	05MAR05:18:38	0.170	0.330	0.520
WAB	05MAR05:20:08	0.170	0.300	0.520
WAB	05MAR05:21:38	0.170	0.280	0.500
WAB	05MAR05:23:08	0.160	0.300	0.520
WAB	06MAR05:00:38	0.160	0.280	0.500
WAB	06MAR05:02:09	0.150	0.270	0.480
WAB	06MAR05:03:39	0.160	0.260	0.490
WAB	06MAR05:05:09	0.160	0.320	0.500
WAB	06MAR05:06:39	0.170	0.390	0.440
WAB	06MAR05:07:23	0.150	0.300	0.510
WAB	06MAR05:07:29	0.160	0.270	0.480

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	06MAR05:07:36	0.160	0.280	0.510
WAB	06MAR05:08:40	0.160	0.260	0.500
WAB	06MAR05:09:14	0.150	0.270	0.510
WAB	06MAR05:10:13	0.150	0.270	0.520
WAB	06MAR05:13:13	0.170	0.260	0.500
WAB	06MAR05:14:43	0.160	0.250	0.490
WAB	06MAR05:16:13	0.170	0.260	0.450
WAB	06MAR05:17:43	0.170	0.260	0.450
WAB	06MAR05:19:13	0.170	0.260	0.460
WAB	06MAR05:20:43	0.170	0.260	0.450
WAB	06MAR05:22:28	0.160	0.330	*0.270*[y]
WAB	07MAR05:00:15	0.160	0.160	0.440
WAB	07MAR05:08:12	0.160	0.260	0.420
WAB	07MAR05:08:20	0.160	0.250	0.430
WAB	07MAR05:08:28	0.160	0.250	0.440
WAB	07MAR05:08:36	0.170	0.280	0.450
WAB	07MAR05:08:44	0.170	0.270	0.450
WAB	07MAR05:08:46	0.180	0.270	0.460
WAB	07MAR05:14:16	0.160	0.270	0.470
WAB	07MAR05:15:31	0.150	0.280	0.480
WAB	07MAR05:17:01	0.150	0.270	0.460
WAB	07MAR05:18:31	0.150	0.280	0.460
WAB	07MAR05:20:01	0.150	0.260	0.440
WAB	07MAR05:21:31	0.160	0.260	0.430
WAB	07MAR05:23:02	0.150	0.230	0.440
WAB	08MAR05:00:32	0.160	0.240	0.430
WAB	08MAR05:02:02	0.160	0.240	0.440
WAB	08MAR05:03:32	0.160	0.250	0.450
WAB	08MAR05:05:02	0.170	0.260	0.450
WAB	08MAR05:06:32	0.170	0.250	0.450
WAB	08MAR05:08:02	0.170	0.270	0.460
WAB	08MAR05:09:32	0.170	0.260	0.440
WAB	08MAR05:11:48	0.180	0.270	0.460

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	08MAR05:13:18	0.160	0.240	0.490
WAB	08MAR05:14:48	0.150	0.230	0.480
WAB	08MAR05:16:18	0.150	0.240	0.440
WAB	08MAR05:17:48	0.160	0.240	0.470
WAB	08MAR05:19:18	0.170	0.260	0.470
WAB	08MAR05:20:48	0.170	0.260	0.490
WAB	08MAR05:22:18	0.170	0.260	0.490
WAB	08MAR05:23:49	0.170	0.260	0.490
WAB	09MAR05:01:19	0.170	0.270	0.510
WAB	09MAR05:02:49	0.170	0.260	0.490
WAB	09MAR05:04:19	0.170	0.280	0.490
WAB	09MAR05:05:49	0.180	0.300	0.510
WAB	09MAR05:07:19	0.180	0.270	0.500
WAB	09MAR05:08:49	0.150	0.260	0.510
WAB	09MAR05:10:49	0.140	0.260	0.510
WAB	09MAR05:12:20	0.150	0.250	0.490
WAB	09MAR05:13:50	0.140	0.030	0.450
WAB	09MAR05:15:20	0.160	0.250	0.430
WAB	09MAR05:16:50	0.150	0.240	0.410
WAB	09MAR05:18:20	0.140	0.230	0.410
WAB	09MAR05:19:50	0.130	0.230	0.400
WAB	09MAR05:21:20	0.130	0.230	0.400
WAB	09MAR05:22:50	0.130	0.230	0.410
WAB	10MAR05:00:21	0.120	0.230	0.390
WAB	10MAR05:01:51	0.130	0.230	0.390
WAB	10MAR05:03:21	0.130	0.230	0.390
WAB	10MAR05:04:51	0.120	0.160	0.390
WAB	10MAR05:06:21	0.120	0.230	0.380
WAB	10MAR05:07:51	0.140	0.240	0.430
WAB	10MAR05:09:21	0.170	0.260	0.430
WAB	10MAR05:10:52	0.170	0.270	0.400
WAB	10MAR05:12:22	0.160	0.250	0.390
WAB	10MAR05:13:52	0.150	0.250	0.400

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	10MAR05:15:22	0.160	0.260	0.410
WAB	10MAR05:16:52	0.160	0.270	0.480
WAB	10MAR05:18:22	0.160	0.260	0.400
WAB	10MAR05:19:52	0.160	0.260	0.390
WAB	10MAR05:21:23	0.150	0.250	0.380
WAB	10MAR05:22:53	0.150	0.250	0.380
WAB	11MAR05:00:23	0.130	0.240	0.350
WAB	11MAR05:01:53	0.150	0.230	0.340
WAB	11MAR05:03:23	0.140	0.240	0.330
WAB	11MAR05:04:53	0.120	0.220	0.320
WAB	11MAR05:06:24	0.120	0.220	0.320
WAB	11MAR05:07:54	0.130	0.230	0.340
WAB	11MAR05:09:24	0.150	0.250	0.470
WAB	11MAR05:11:24	0.140	0.240	0.340
WAB	11MAR05:12:55	0.140	0.240	0.370
WAB	11MAR05:14:25	0.150	0.250	0.360
WAB	11MAR05:15:55	0.140	0.240	0.360
WAB	11MAR05:17:25	0.140	0.240	0.340
WAB	11MAR05:18:55	0.130	0.240	0.340
WAB	11MAR05:20:25	0.130	0.230	0.340
WAB	11MAR05:21:55	0.120	0.230	0.320
WAB	11MAR05:23:25	0.120	0.220	0.320
WAB	12MAR05:00:56	0.110	0.220	0.330
WAB	12MAR05:02:26	0.110	0.220	0.300
WAB	12MAR05:08:27	0.130	0.210	0.310
WAB	12MAR05:09:57	0.120	0.230	0.320
WAB	12MAR05:11:42	0.120	0.210	0.310
WAB	12MAR05:13:13	0.110	0.250	0.290
WAB	12MAR05:14:43	0.120	0.220	0.300
WAB	12MAR05:16:13	0.110	0.220	0.300
WAB	12MAR05:17:43	0.120	0.210	0.300
WAB	12MAR05:19:13	0.110	0.210	0.290
WAB	12MAR05:20:43	0.100	0.220	0.280

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	12MAR05:22:13	0.120	0.220	0.280
WAB	13MAR05:02:53	0.140	0.240	0.310
WAB	13MAR05:07:49	0.130	0.240	0.310
WAB	13MAR05:09:48	0.110	0.210	0.270
WAB	13MAR05:12:24	0.100	0.220	0.280
WAB	13MAR05:13:54	0.100	0.230	0.290
WAB	13MAR05:15:24	0.100	0.230	0.290
WAB	13MAR05:16:54	0.100	0.220	0.280
WAB	13MAR05:18:24	0.100	0.230	0.310
WAB	13MAR05:19:54	0.100	0.210	0.270
WAB	13MAR05:21:26	0.110	0.220	0.270
WAB	13MAR05:23:02	0.110	0.220	0.280
WAB	29MAR05:14:09	0.080	0.150	0.270
WAB	29MAR05:15:47	0.080	0.150	0.240
WAB	29MAR05:17:17	0.080	0.150	0.230
WAB	29MAR05:18:47	0.090	0.160	0.250
WAB	29MAR05:20:18	0.080	0.170	0.260
WAB	29MAR05:21:48	0.100	0.160	0.250
WAB	29MAR05:23:18	0.090	0.170	0.260
WAB	30MAR05:00:49	0.100	0.160	0.260
WAB	30MAR05:02:19	0.090	0.170	0.270
WAB	30MAR05:03:49	0.100	0.170	0.280
WAB	30MAR05:05:20	0.100	0.180	0.280
WAB	30MAR05:06:50	0.100	0.180	0.270
WAB	30MAR05:08:20	0.100	0.180	0.270
WAB	30MAR05:09:50	0.110	0.170	0.270
WAB	30MAR05:11:05	0.090	0.160	0.260
WAB	30MAR05:12:36	0.080	0.160	0.310
WAB	30MAR05:14:06	0.070	0.150	0.260
WAB	30MAR05:15:36	0.080	0.160	0.280
WAB	30MAR05:17:06	0.080	0.170	0.280
WAB	30MAR05:18:36	0.080	0.160	0.290
WAB	30MAR05:20:06	0.090	0.160	0.290

Table A7.6. Runoff phosphorus concentrations at the Wabash Creek site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
WAB	30MAR05:21:37	0.100	0.160	0.280
WAB	31MAR05:07:14	0.100	0.130	0.300
WAB	31MAR05:13:15	0.080	0.160	0.270
WAB	31MAR05:14:46	0.080	0.170	0.270
WAB	31MAR05:16:16	0.070	0.170	0.290
WAB	31MAR05:17:46	0.070	0.170	0.300
WAB	31MAR05:19:16	0.080	0.170	0.300
WAB	31MAR05:20:47	0.080	0.190	0.300
WAB	01APR05:07:20	0.090	0.190	0.320
WAB	01APR05:08:50	0.070	0.170	0.310
WAB	01APR05:10:20	0.080	0.170	0.270
WAB	01APR05:11:50	0.080	0.170	0.280
WAB	01APR05:13:20	0.080	0.170	0.280
WAB	01APR05:14:50	0.090	0.170	0.280
WAB	01APR05:16:21	0.080	0.180	0.290
WAB	01APR05:17:51	0.070	0.170	0.280
WAB	01APR05:19:21	0.080	0.170	0.290
WAB	01APR05:20:51	0.080	0.170	0.290
WAB	01APR05:22:21	0.070	0.100	0.280
WAB	01APR05:23:52	0.070	*0.010*[y]	0.290
WAB	02APR05:01:22	0.070	0.160	0.260
WAB	02APR05:02:52	0.070	0.210	0.260
WAB	02APR05:04:22	0.070	0.160	0.250
WAB	02APR05:05:52	0.080	0.180	0.280
WAB	02APR05:07:23	0.090	0.180	0.270
WAB	02APR05:08:53	0.070	0.010	0.270
WAB	02APR05:10:23	0.070	0.100	0.250
WAB	02APR05:11:53	0.060	0.080	0.250

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Italicized data points were removed from analysis.

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	07JAN03:14:10	1.030	0.937	1.180
LLB	10FEB03:14:00	1.380	1.560	1.650
LLB	15MAR03:13:20	3.700	4.080	4.230
LLB	15MAR03:16:25	3.930	4.160	4.340
LLB	16MAR03:10:30	4.450	4.460	4.640
LLB	16MAR03:11:35	4.430	4.450	4.610
LLB	16MAR03:13:05	4.590	4.480	5.130
LLB	16MAR03:14:35	4.460	4.490	4.880
LLB	16MAR03:16:10	4.730	4.970	5.090
LLB	16MAR03:17:40	4.430	5.010	5.120
LLB	16MAR03:19:10	4.680	4.800	5.360
LLB	16MAR03:20:25	4.590	4.590	4.820
LLB	17MAR03:10:15	3.850	3.860	4.080
LLB	17MAR03:12:40	4.310	4.310	8.240
LLB	17MAR03:14:10	4.040	4.160	4.210
LLB	17MAR03:15:40	3.900	3.850	4.370
LLB	18MAR03:11:10	3.560	3.600	3.700
LLB	18MAR03:12:30	3.390	3.440	3.800
LLB	18MAR03:14:00	3.410	3.720	3.790
LLB	18MAR03:15:30	3.090	3.110	3.390
LLB	18MAR03:17:00	3.030	3.010	3.340
LLB	18MAR03:18:30	3.260	3.300	3.520
LLB	18MAR03:20:00	3.650	3.750	3.900
LLB	18MAR03:21:35	3.700	3.840	3.890
LLB	18MAR03:23:05	3.500	3.630	3.740
LLB	19MAR03:00:35	3.460	3.520	4.120
LLB	19MAR03:02:05	3.360	3.390	3.490
LLB	19MAR03:03:35	3.220	3.300	3.560
LLB	19MAR03:05:05	3.170	3.190	3.410
LLB	19MAR03:06:35	3.220	3.250	3.500
LLB	19MAR03:08:05	3.540	3.540	3.770
LLB	19MAR03:09:35	3.430	5.180	5.440

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	19MAR03:09:50	4.010	5.870	6.060
LLB	19MAR03:11:35	2.900	3.040	3.250
LLB	19MAR03:13:05	2.770	3.050	3.270
LLB	19MAR03:14:35	2.450	2.710	3.020
LLB	19MAR03:16:05	2.660	2.920	3.180
LLB	19MAR03:17:35	3.090	3.430	3.710
LLB	19MAR03:19:05	3.380	3.790	3.880
LLB	19MAR03:22:05	3.540	4.370	4.530
LLB	19MAR03:23:35	3.580	4.360	4.690
LLB	20MAR03:01:05	3.520	4.370	4.610
LLB	20MAR03:02:35	3.380	3.900	4.370
LLB	20MAR03:05:35	3.300	3.590	3.860
LLB	20MAR03:11:50	2.970	3.090	3.190
LLB	20MAR03:13:20	2.680	2.770	3.110
LLB	20MAR03:14:50	2.270	2.620	3.150
LLB	20MAR03:16:25	2.200	2.490	2.740
LLB	20MAR03:17:55	2.500	2.890	2.920
LLB	20MAR03:19:25	2.910	3.440	3.590
LLB	20MAR03:20:55	3.360	3.600	3.690
LLB	20MAR03:22:25	3.430	3.830	3.900
LLB	20MAR03:23:55	4.020	4.290	4.480
LLB	21MAR03:01:25	3.980	4.260	4.550
LLB	21MAR03:02:55	3.720	4.150	4.510
LLB	21MAR03:04:25	3.720	4.090	4.290
LLB	21MAR03:05:55	3.560	3.960	4.180
LLB	21MAR03:07:25	3.380	3.650	4.010
LLB	21MAR03:08:55	3.050	3.640	3.860
LLB	21MAR03:09:25	3.550	3.810	4.120
LLB	21MAR03:11:10	3.230	3.620	3.650
LLB	21MAR03:12:40	1.510	2.080	2.240
LLB	21MAR03:14:10	1.430	1.830	2.270
LLB	21MAR03:15:40	1.550	1.820	2.210

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	21MAR03:17:10	1.700	1.890	2.030
LLB	21MAR03:18:40	1.950	1.970	2.180
LLB	21MAR03:20:10	2.270	2.450	2.480
LLB	21MAR03:21:40	2.390	2.520	2.550
LLB	21MAR03:23:10	2.330	2.370	2.570
LLB	22MAR03:00:40	2.400	2.420	2.580
LLB	22MAR03:02:10	2.050	2.310	2.510
LLB	22MAR03:03:40	2.420	2.570	2.570
LLB	22MAR03:06:40	2.260	2.400	2.560
LLB	22MAR03:08:10	2.000	2.390	2.580
LLB	22MAR03:09:10	2.360	2.440	2.540
LLB	26APR03:12:05	1.910	1.670	2.480
LLB	26APR03:13:35	2.280	2.650	3.290
LLB	26APR03:15:05	2.110	2.570	3.200
LLB	26APR03:16:35	2.020	3.080	3.580
LLB	26APR03:18:05	2.290	2.590	3.010
LLB	26APR03:19:35	2.140	2.110	2.790
LLB	05MAY03:12:55	1.920	2.740	3.010
LLB	05MAY03:14:25	2.090	2.790	3.200
LLB	05MAY03:15:55	2.040	2.570	2.780
LLB	05MAY03:17:25	2.270	2.300	2.790
LLB	05MAY03:18:55	2.480	2.520	2.900
LLB	05MAY03:20:40	2.380	2.720	2.860
LLB	06MAY03:13:10	2.770	2.990	3.000
LLB	06MAY03:16:00	2.320	2.710	3.150
LLB	06MAY03:18:30	2.280	2.820	3.270
LLB	06MAY03:20:00	2.670	2.840	2.900
LLB	06MAY03:21:35	2.630	3.030	3.060
LLB	08MAY03:09:20	2.950	3.560	5.290
LLB	08MAY03:10:20	2.890	3.240	3.240
LLB	08MAY03:11:50	2.850	2.930	3.400
LLB	08MAY03:13:20	2.870	3.020	3.020
LLB	08MAY03:14:50	2.660	2.860	2.950

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	08MAY03:16:20	2.510	2.700	2.810
LLB	08MAY03:17:50	2.560	2.810	2.840
LLB	08MAY03:19:20	2.590	2.840	2.930
LLB	08MAY03:20:50	2.560	2.920	3.150
LLB	08MAY03:22:20	2.710	2.970	3.730
LLB	08MAY03:23:55	3.020	3.170	3.280
LLB	09MAY03:01:25	3.180	3.200	3.240
LLB	09MAY03:02:55	2.970	3.260	3.370
LLB	09MAY03:04:25	3.050	3.280	3.440
LLB	09MAY03:05:55	3.120	3.380	3.490
LLB	09MAY03:07:25	3.150	3.310	3.560
LLB	09MAY03:09:30	2.730	3.170	3.440
LLB	09MAY03:11:00	2.750	3.100	3.380
LLB	09MAY03:12:35	2.550	2.900	3.040
LLB	09MAY03:14:05	2.290	2.740	2.920
LLB	09MAY03:15:35	1.740	1.960	2.810
LLB	09MAY03:17:05	1.840	2.590	2.700
LLB	09MAY03:18:35	2.560	2.680	3.280
LLB	09MAY03:20:05	2.430	2.840	3.240
LLB	09MAY03:21:35	2.390	3.010	3.240
LLB	09MAY03:23:05	2.720	2.970	3.080
LLB	10MAY03:00:35	2.890	3.190	3.220
LLB	10MAY03:02:05	2.760	3.380	3.470
LLB	10MAY03:03:35	2.880	3.330	3.460
LLB	10MAY03:05:05	2.890	3.220	3.310
LLB	10MAY03:06:35	3.010	3.490	3.550
LLB	10MAY03:08:05	2.780	2.970	3.740
LLB	10MAY03:09:40	2.640	3.150	3.290
LLB	10MAY03:10:40	2.180	2.630	3.090
LLB	10MAY03:12:10	1.910	2.200	2.410
LLB	10MAY03:13:40	1.260	1.200	1.830
LLB	10MAY03:15:10	0.820	1.070	2.040
REN	10JUN03:08:40	0.055	0.093	0.497

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
REN	10JUN03:10:25	0.044	0.098	0.493
LLB	09JUL03:16:30	2.810	3.350	5.110
LLB	09JUL03:18:00	2.760	3.280	3.890
LLB	09JUL03:19:35	2.800	3.160	3.540
LLB	09JUL03:21:05	3.050	3.320	3.950
LLB	09JUL03:22:35	3.100	3.530	4.350
LLB	10JUL03:00:05	3.190	3.640	5.110
LLB	10JUL03:02:00	1.980	2.210	3.230
LLB	10JUL03:03:30	2.270	2.700	3.750
LLB	10JUL03:05:00	2.810	3.720	3.800
LLB	10JUL03:06:30	3.140	3.740	3.810
LLB	10JUL03:08:00	3.650	4.340	4.400
LLB	12JUL03:07:05	2.170	2.600	2.800
LLB	12JUL03:08:05	2.360	2.750	2.890
LLB	12JUL03:09:35	2.420	2.920	2.970
LLB	12JUL03:11:05	2.190	2.510	2.720
LLB	12JUL03:15:30	1.520	1.870	1.930
LLB	12JUL03:17:00	2.560	2.910	3.120
LLB	12JUL03:18:50	2.900	3.670	4.710
LLB	12JUL03:20:55	3.080	3.740	3.770
LLB	17JUL03:10:45	1.390	1.890	3.470
LLB	17JUL03:15:05	2.410	2.340	5.040
LLB	18JUL03:06:40	2.000	2.970	3.220
LLB	18JUL03:08:10	2.790	2.140	2.930
LLB	18JUL03:10:30	2.790	3.390	3.440
LLB	19JUL03:04:45	2.580	2.610	3.250
LLB	19JUL03:06:15	2.520	2.610	2.660
LLB	19JUL03:07:45	2.480	2.640	3.520
LLB	19JUL03:09:15	2.530	2.680	3.110
LLB	19JUL03:10:45	2.440	2.720	4.190
LLB	19JUL03:14:00	2.050	2.200	2.280
LLB	19JUL03:23:00	1.890	1.960	2.120
LLB	20JUL03:00:30	2.600	2.820	4.060

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	21JUL03:14:10	1.400	.[y]	1.520
LLB	21JUL03:15:10	1.690	1.720	1.760
LLB	21JUL03:16:40	1.980	2.030	2.090
LLB	21JUL03:18:45	2.510	.[y]	2.740
LLB	21JUL03:20:55	2.370	2.670	3.160
LLB	22JUL03:00:10	1.880	3.600	3.820
LLB	22JUL03:01:40	3.110	.[y]	3.380
LLB	22JUL03:10:45	3.280	4.480	4.560
LLB	24JUL03:12:05	0.220	1.490	1.560
LLB	24JUL03:13:20	1.530	1.790	1.940
LLB	24JUL03:14:50	1.680	1.840	1.940
LLB	24JUL03:16:20	1.850	2.020	2.040
LLB	24JUL03:18:25	2.040	2.530	2.570
LLB	24JUL03:19:55	2.440	2.880	3.160
LLB	24JUL03:22:45	1.790	3.600	3.990
LLB	25JUL03:00:15	1.870	2.130	2.260
LLB	25JUL03:01:45	2.980	3.060	3.310
LLB	25JUL03:10:10	3.460	3.950	4.040
LLB	26JUL03:20:25	1.480	1.710	2.690
LLB	26JUL03:21:55	1.590	1.910	2.590
LLB	26JUL03:23:25	1.910	1.940	2.180
LLB	27JUL03:00:55	1.730	2.080	3.710
LLB	27JUL03:02:25	2.060	2.360	3.200
LLB	27JUL03:03:55	2.140	2.400	3.830
LLB	27JUL03:05:25	2.170	2.600	3.260
LLB	27JUL03:07:00	2.510	2.720	3.100
LLB	27JUL03:08:30	1.400	1.730	1.940
LLB	27JUL03:10:00	1.170	1.380	2.260
LLB	09AUG03:16:50	2.290	2.390	2.460
LLB	09AUG03:18:20	2.240	2.180	2.270
LLB	09AUG03:19:55	2.030	2.060	2.120
LLB	10AUG03:03:20	1.730	1.800	1.800
LLB	10AUG03:14:55	1.890	2.030	2.440

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	12AUG03:06:40	2.030	2.000	2.080
LLB	13AUG03:05:20	2.370	2.400	2.420
LLB	13AUG03:06:35	2.060	2.050	2.120
LLB	13AUG03:08:05	1.950	1.950	1.990
LLB	13AUG03:09:35	1.910	1.990	2.030
LLB	13AUG03:18:00	1.630	1.690	1.730
LLB	13AUG03:19:30	1.600	1.640	1.700
LLB	15AUG03:18:25	1.520	1.570	2.120
LLB	15AUG03:18:35	1.650	1.660	2.110
LLB	15AUG03:20:10	1.770	1.780	2.070
LLB	15AUG03:21:40	1.960	1.960	2.320
LLB	15AUG03:23:10	2.030	2.050	2.720
LLB	16AUG03:06:30	1.600	1.640	2.090
LLB	16AUG03:08:00	1.970	2.030	2.700
LLB	16AUG03:09:35	2.490	2.570	2.930
LLB	16AUG03:11:05	2.500	2.570	2.660
LLB	16AUG03:14:10	2.690	2.880	3.010
LLB	06SEP03:06:10	2.940	2.960	3.190
LLB	06SEP03:07:40	2.720	2.760	2.840
LLB	06SEP03:09:10	2.660	2.740	2.740
LLB	06SEP03:14:25	2.740	2.740	2.880
LLB	06SEP03:16:00	1.880	1.920	2.770
LLB	06SEP03:17:30	1.880	2.020	3.600
LLB	06SEP03:19:00	2.900	3.130	3.350
LLB	07SEP03:03:40	2.640	3.380	4.180
LLB	07SEP03:05:10	2.640	2.880	2.880
LLB	07SEP03:06:40	2.740	2.950	2.990
LLB	07SEP03:13:40	2.840	2.880	2.970
LLB	22FEB04:16:15	0.500	1.000	1.050
LLB	22FEB04:17:45	0.500	0.920	0.970
LLB	22FEB04:19:15	0.500	0.910	0.930
LLB	22FEB04:20:45	0.500	0.920	0.960
LLB	22FEB04:22:15	0.500	1.030	1.060

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	22FEB04:23:45	0.500	1.090	1.100
LLB	23FEB04:01:15	0.500	1.160	1.160
LLB	23FEB04:02:45	0.500	1.150	1.180
LLB	23FEB04:04:15	0.500	1.150	1.150
LLB	23FEB04:05:45	0.500	1.120	1.120
LLB	23FEB04:07:15	0.500	0.260	0.270
LLB	23FEB04:08:45	0.500	0.010	0.010
LLB	23FEB04:11:55	0.500	1.090	1.190
LLB	23FEB04:12:40	0.500	1.050	1.080
LLB	23FEB04:14:10	0.500	0.980	1.070
LLB	23FEB04:15:40	0.500	0.930	0.960
LLB	23FEB04:17:10	0.500	0.800	0.850
LLB	23FEB04:18:40	0.500	0.800	0.850
LLB	23FEB04:20:10	0.500	0.860	0.910
LLB	23FEB04:21:40	0.500	0.920	0.920
LLB	23FEB04:23:10	0.500	1.000	1.010
LLB	24FEB04:00:40	0.500	1.020	1.040
LLB	24FEB04:02:10	0.500	1.040	1.060
LLB	24FEB04:03:40	0.500	1.070	1.080
LLB	24FEB04:05:10	0.500	1.100	1.110
LLB	24FEB04:14:45	0.680	1.090	1.090
LLB	24FEB04:15:30	0.590	0.950	0.970
LLB	24FEB04:17:00	0.530	0.860	0.870
LLB	24FEB04:18:30	0.550	0.880	0.920
LLB	24FEB04:20:00	0.580	0.930	0.960
LLB	24FEB04:21:30	0.620	0.990	0.990
LLB	24FEB04:23:00	0.660	1.040	1.040
LLB	25FEB04:00:30	0.650	1.070	1.080
LLB	25FEB04:02:00	0.650	1.110	1.110
LLB	25FEB04:03:30	0.690	1.130	1.140
LLB	25FEB04:05:00	0.660	1.130	1.130
LLB	25FEB04:06:30	0.740	1.020	0.980
LLB	25FEB04:08:00	0.750	1.030	1.030

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	25FEB04:12:50	0.740	1.060	1.070
LLB	25FEB04:13:35	0.580	0.910	0.920
LLB	25FEB04:15:05	0.570	0.870	0.890
LLB	25FEB04:16:35	0.590	0.890	0.940
LLB	25FEB04:18:05	0.630	0.930	0.950
LLB	25FEB04:19:35	0.640	0.990	0.900
LLB	25FEB04:21:05	0.680	0.950	0.950
LLB	25FEB04:22:35	0.710	1.010	1.010
LLB	26FEB04:00:05	0.720	1.040	1.050
LLB	26FEB04:01:35	0.720	1.080	1.130
LLB	26FEB04:16:45	0.990	1.170	1.190
LLB	26FEB04:17:00	0.790	1.150	1.150
LLB	26FEB04:18:30	0.960	1.080	1.090
LLB	26FEB04:20:00	0.920	1.100	1.110
LLB	26FEB04:21:30	0.900	1.090	1.120
LLB	26FEB04:23:00	0.900	1.100	1.130
LLB	27FEB04:00:30	0.910	1.140	1.180
LLB	27FEB04:02:00	0.930	1.140	1.180
LLB	27FEB04:03:30	0.920	1.150	1.180
LLB	27FEB04:05:00	0.920	1.180	1.210
LLB	29FEB04:15:35	0.970	1.470	1.490
LLB	29FEB04:16:05	0.950	1.430	1.460
LLB	29FEB04:17:35	0.940	1.270	1.310
LLB	29FEB04:19:05	0.760	1.200	1.210
LLB	29FEB04:20:35	0.740	1.200	1.220
LLB	29FEB04:22:05	0.880	1.210	1.210
LLB	29FEB04:23:35	0.920	1.320	1.330
LLB	06MAR04:13:40	0.770	0.980	1.150
LLB	06MAR04:15:25	0.860	1.060	1.130
LLB	06MAR04:16:55	0.580	0.800	0.880
LLB	06MAR04:18:25	0.590	0.780	0.860
LLB	06MAR04:19:55	0.660	0.840	0.900
LLB	06MAR04:21:25	0.790	1.000	1.030

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	06MAR04:22:55	0.810	1.040	1.090
LLB	07MAR04:00:25	0.920	1.110	1.170
LLB	07MAR04:01:55	0.880	1.060	1.130
LLB	07MAR04:03:25	0.930	1.120	1.180
LLB	07MAR04:04:55	0.980	1.380	1.470
LLB	07MAR04:06:25	0.990	1.340	1.360
LLB	07MAR04:08:00	0.990	1.490	1.540
LLB	07MAR04:09:30	1.010	1.780	1.890
LLB	07MAR04:11:00	1.000	1.080	1.210
LLB	07MAR04:12:30	0.550	0.670	0.980
LLB	07MAR04:14:00	0.510	0.620	0.800
LLB	07MAR04:15:30	0.640	0.740	0.940
LLB	07MAR04:17:00	0.820	0.940	1.050
LLB	07MAR04:18:30	0.900	1.090	1.180
LLB	07MAR04:20:00	0.980	1.140	1.200
LLB	07MAR04:21:30	0.990	1.160	1.250
LLB	07MAR04:23:00	0.990	1.210	1.240
LLB	08MAR04:00:30	0.980	1.210	1.280
LLB	08MAR04:02:00	0.980	1.240	1.290
LLB	08MAR04:03:30	0.980	1.290	1.350
LLB	08MAR04:05:00	1.150	1.360	1.400
LLB	08MAR04:06:30	1.250	1.400	1.460
LLB	08MAR04:08:00	1.280	1.450	1.500
LLB	08MAR04:09:30	1.160	1.420	1.490
LLB	08MAR04:10:45	1.080	1.190	1.290
LLB	08MAR04:12:15	1.010	1.160	1.350
LLB	08MAR04:13:45	1.120	1.310	1.460
LLB	08MAR04:15:15	1.200	1.510	1.540
LLB	08MAR04:16:45	1.320	1.610	1.670
LLB	08MAR04:18:15	1.700	1.820	1.950
LLB	08MAR04:19:45	1.880	2.130	2.230
LLB	08MAR04:21:15	1.860	2.210	2.270
LLB	08MAR04:22:45	1.910	2.190	2.290

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	09MAR04:00:15	1.850	2.110	2.230
LLB	09MAR04:01:45	1.820	2.060	2.140
LLB	09MAR04:03:20	1.940	2.210	2.390
LLB	09MAR04:04:50	1.990	2.380	2.430
LLB	09MAR04:06:20	1.750	2.070	2.210
LLB	09MAR04:07:50	1.580	1.840	2.040
LLB	09MAR04:09:20	1.520	1.920	2.000
LLB	09MAR04:10:20	1.450	1.680	1.940
LLB	09MAR04:11:50	1.480	1.720	1.870
LLB	09MAR04:13:20	1.660	1.920	2.000
LLB	09MAR04:14:50	1.880	2.050	2.210
LLB	09MAR04:16:20	2.010	2.210	2.420
LLB	09MAR04:17:50	2.100	2.390	2.480
LLB	09MAR04:23:05	2.530	2.740	2.840
LLB	10MAR04:11:10	1.980	2.280	2.580
LLB	10MAR04:12:40	1.780	2.400	2.660
LLB	10MAR04:14:10	1.970	2.520	2.830
LLB	10MAR04:15:40	2.150	2.580	2.890
LLB	23MAY04:11:15	2.430	2.600	2.680
LLB	23MAY04:12:45	2.490	2.710	2.740
LLB	23MAY04:14:15	2.500	2.650	2.750
LLB	23MAY04:15:45	2.540	2.640	2.680
LLB	23MAY04:17:15	2.510	2.570	2.740
LLB	23MAY04:20:00	2.530	2.630	2.820
LLB	11JUL04:00:55	1.320	1.330	3.120
LLB	11JUL04:02:25	0.800	0.910	3.190
LLB	11JUL04:03:55	0.680	0.770	2.580
LLB	11JUL04:05:25	0.720	0.820	2.380
LLB	11JUL04:06:55	0.900	0.960	1.360
LLB	01AUG04:19:29	1.240	1.310	1.430
LLB	01AUG04:20:59	0.950	0.980	1.330
LLB	01AUG04:22:29	1.050	1.120	1.270
LLB	02AUG04:00:00	1.300	1.380	1.450

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	08AUG04:18:05	0.830	0.930	1.000
LLB	08AUG04:19:20	1.010	0.990	1.160
LLB	09AUG04:10:49	0.860	0.910	1.680
LLB	09AUG04:12:20	0.730	0.800	1.350
LLB	09AUG04:13:50	0.800	0.880	1.270
LLB	09AUG04:15:20	0.910	0.930	1.770
LLB	09AUG04:16:50	1.040	1.170	1.640
LLB	09AUG04:18:20	1.190	1.190	1.920
LLB	09AUG04:19:52	1.230	1.380	2.460
LLB	09AUG04:21:23	0.890	0.890	3.380
LLB	09AUG04:22:53	0.820	0.830	2.890
LLB	10AUG04:00:23	0.620	0.700	2.670
LLB	10AUG04:01:53	0.800	0.870	2.760
LLB	10AUG04:03:23	0.970	0.970	0.183
LLB	12AUG04:05:43	0.780	0.830	1.040
LLB	12AUG04:07:13	0.730	0.780	1.480
LLB	12AUG04:08:43	0.700	0.750	1.340
LLB	12AUG04:10:13	0.770	0.820	1.370
LLB	12AUG04:11:43	0.790	0.840	1.290
LLB	12AUG04:13:14	0.810	0.880	1.090
LLB	12AUG04:14:44	0.910	0.960	1.180
LLB	12AUG04:16:14	0.960	1.150	1.650
LLB	12AUG04:17:44	0.940	0.940	1.980
LLB	12AUG04:19:14	0.820	0.820	2.840
LLB	12AUG04:20:44	0.720	0.720	2.470
LLB	12AUG04:22:14	0.730	0.730	2.240
LLB	12AUG04:23:45	0.950	0.950	2.050
LLB	20AUG04:03:23	0.860	1.010	1.230
LLB	20AUG04:03:53	0.910	1.010	1.250
LLB	20AUG04:05:23	0.930	1.050	1.350
LLB	20AUG04:06:53	0.990	1.110	1.340
LLB	20AUG04:08:23	1.020	1.120	1.220
LLB	20AUG04:10:22	1.130	1.210	1.290

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	20AUG04:11:48	1.130	1.220	1.460
LLB	20AUG04:15:33	0.820	0.980	1.950
LLB	20AUG04:17:03	0.570	0.680	1.530
LLB	20AUG04:18:33	0.760	0.890	1.130
LLB	23AUG04:09:19	1.940	2.210	2.280
LLB	23AUG04:10:49	2.440	2.610	2.620
LLB	23AUG04:12:20	2.530	2.530	2.640
LLB	23AUG04:13:50	2.350	2.490	2.520
LLB	23AUG04:15:20	2.430	2.470	2.470
LLB	23AUG04:16:51	2.240	2.420	2.440
LLB	23AUG04:18:21	2.100	2.390	2.380
LLB	26AUG04:03:53	2.530	2.530	2.580
LLB	26AUG04:05:23	2.450	2.470	2.610
LLB	26AUG04:06:53	2.370	2.370	2.340
LLB	26AUG04:08:24	2.250	2.250	2.300
LLB	28AUG04:18:16	0.760	0.840	0.970
LLB	28AUG04:19:46	0.910	0.950	1.110
LLB	28AUG04:21:16	1.270	1.270	1.280
LLB	28AUG04:22:46	1.520	1.520	1.520
LLB	29AUG04:00:16	1.720	1.720	1.700
LLB	29AUG04:01:49	1.830	1.830	1.710
LLB	05JUN05:03:12	2.760	3.140	3.280
LLB	05JUN05:04:42	3.030	3.430	3.520
LLB	05JUN05:06:13	3.210	3.560	3.650
LLB	05JUN05:07:43	3.440	3.730	3.760
LLB	05JUN05:09:13	3.270	3.860	4.010
LLB	05JUN05:10:43	3.470	3.960	4.090
LLB	05JUN05:12:13	3.460	3.700	4.050
LLB	06JUN05:01:53	2.880	3.140	3.390
LLB	06JUN05:03:23	3.260	3.440	3.640
LLB	06JUN05:04:53	3.320	3.600	3.680
LLB	06JUN05:06:23	3.340	3.730	3.810
LLB	06JUN05:07:53	3.400	3.670	3.760

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	06JUN05:09:23	2.660	3.140	3.730
LLB	06JUN05:10:53	2.730	3.350	3.740
LLB	06JUN05:11:53	2.650	3.070	3.200
LLB	06JUN05:13:06	2.380	2.780	2.990
LLB	06JUN05:14:36	2.390	2.820	3.480
LLB	06JUN05:16:06	2.340	2.830	3.480
LLB	06JUN05:17:36	2.490	3.020	3.380
LLB	06JUN05:19:06	2.710	3.220	3.330
LLB	06JUN05:20:36	2.940	3.280	3.470
LLB	06JUN05:22:07	2.710	2.970	3.760
LLB	06JUN05:23:37	2.740	3.160	3.480
LLB	07JUN05:01:07	2.780	3.040	4.000
LLB	07JUN05:02:37	2.680	2.950	4.200
LLB	07JUN05:04:07	2.600	3.090	5.190
LLB	07JUN05:05:37	2.760	3.460	4.850
LLB	07JUN05:07:07	3.020	3.320	4.660
LLB	07JUN05:08:37	2.880	3.520	4.410
LLB	07JUN05:10:07	3.260	3.740	4.230
LLB	07JUN05:11:04	3.280	3.900	4.070
LLB	07JUN05:12:34	3.490	4.020	4.140
LLB	07JUN05:14:04	3.400	3.980	4.290
LLB	07JUN05:15:34	3.400	3.970	4.040
LLB	07JUN05:17:04	3.740	4.070	4.170
LLB	07JUN05:18:34	3.650	4.000	4.050
LLB	07JUN05:20:04	3.370	3.970	3.970
LLB	07JUN05:21:34	3.470	3.930	3.960
LLB	07JUN05:23:05	3.350	3.900	3.990
LLB	08JUN05:00:35	3.460	3.850	3.940
LLB	08JUN05:02:05	3.250	3.850	3.940
LLB	08JUN05:03:35	3.300	3.870	3.910
LLB	08JUN05:05:05	3.470	3.870	3.870
LLB	08JUN05:06:35	3.670	3.950	3.950
LLB	08JUN05:08:05	3.470	3.920	3.970

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	08JUN05:09:50	3.630	3.840	3.880
LLB	08JUN05:10:00	1.040	1.400	1.110
LLB	08JUN05:10:00	0.005	0.010	0.010
LLB	08JUN05:11:21	3.560	3.830	3.780
LLB	08JUN05:12:51	3.350	3.750	3.810
LLB	08JUN05:14:21	3.380	3.720	3.750
LLB	08JUN05:15:51	3.630	3.720	3.820
LLB	08JUN05:18:51	3.460	3.850	3.840
LLB	08JUN05:20:21	3.620	3.860	3.830
LLB	08JUN05:21:51	3.860	3.680	3.630
LLB	08JUN05:23:21	3.530	3.630	3.630
LLB	09JUN05:00:52	3.630	3.640	3.660
LLB	09JUN05:02:22	3.670	3.630	3.620
LLB	09JUN05:03:52	3.630	3.580	3.610
LLB	09JUN05:05:22	3.550	3.520	3.570
LLB	09JUN05:06:52	3.330	3.310	3.470
LLB	09JUN05:08:22	3.350	3.190	3.290
LLB	09JUN05:09:22	0.005	0.010	0.010
LLB	09JUN05:10:22	1.340	1.400	1.400
LLB	17JUN05:15:37	0.800	0.970	1.130
LLB	17JUN05:17:07	1.410	1.530	1.810
LLB	17JUN05:18:37	1.890	2.080	2.120
LLB	17JUN05:20:07	2.150	2.360	2.400
LLB	17JUN05:21:37	2.480	2.660	2.710
LLB	17JUN05:23:07	2.800	2.820	2.870
LLB	18JUN05:00:37	2.650	2.720	2.870
LLB	18JUN05:02:07	2.690	2.800	2.920
LLB	18JUN05:03:38	2.690	3.000	3.140
LLB	18JUN05:05:08	2.770	2.880	3.050
LLB	18JUN05:06:38	2.590	2.810	3.000
LLB	28JUN05:08:58	1.920	2.050	2.330
LLB	28JUN05:10:28	2.040	2.160	2.610
LLB	28JUN05:11:58	2.160	2.340	2.520

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	28JUN05:13:28	1.960	2.230	5.490
LLB	28JUN05:14:59	2.260	2.440	2.530
LLB	28JUN05:16:29	2.370	2.530	2.660
LLB	28JUN05:17:59	2.470	2.670	2.770
LLB	19JUL05:21:55	1.530	1.650	1.950
LLB	19JUL05:23:25	1.450	1.510	3.370
LLB	20JUL05:00:55	1.400	1.430	3.500
LLB	20JUL05:02:25	1.310	1.360	2.590
LLB	20JUL05:03:55	1.800	1.790	2.200
LLB	20JUL05:05:25	2.260	2.220	2.440
LLB	20JUL05:06:57	2.520	2.470	2.640
LLB	08AUG05:14:51	0.820	0.930	1.140
LLB	08AUG05:15:55	0.870	1.020	1.440
LLB	08AUG05:17:25	1.090	1.270	1.610
LLB	08AUG05:18:55	1.520	1.630	1.970
LLB	08AUG05:20:25	2.120	2.240	2.380
LLB	08AUG05:21:56	1.880	2.020	2.180
LLB	09AUG05:01:23	2.370	2.510	2.590
LLB	09AUG05:02:55	2.260	2.490	2.610
LLB	09AUG05:04:31	2.350	2.530	2.580
LLB	09AUG05:06:01	2.480	2.620	2.710
LLB	09AUG05:07:31	2.560	2.650	2.740
LLB	10AUG05:05:29	1.870	2.140	2.340
LLB	10AUG05:06:59	2.170	2.350	2.540
LLB	10AUG05:08:29	2.050	2.230	2.580
LLB	10AUG05:09:59	1.920	2.040	2.750
LLB	10AUG05:11:23	1.350	1.560	2.550
LLB	10AUG05:12:53	1.400	1.570	1.980
LLB	10AUG05:13:43	1.130	1.390	1.580
LLB	10AUG05:15:12	1.090	1.280	1.470
LLB	10AUG05:16:42	1.050	1.300	1.380
LLB	10AUG05:18:12	1.200	1.460	1.900
LLB	10AUG05:19:42	1.450	1.590	2.410

Table A7.7. Runoff phosphorus concentrations from the Lower Little Bow River site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
LLB	10AUG05:21:13	1.710	1.800	3.240
LLB	10AUG05:22:43	2.050	1.900	2.370
LLB	11AUG05:00:13	2.040	2.170	2.430
LLB	11AUG05:01:43	2.220	2.390	2.590
LLB	11AUG05:03:13	1.900	2.330	2.710
LLB	11AUG05:04:43	1.680	1.820	2.760
LLB	11AUG05:06:13	1.320	1.470	2.660
LLB	11AUG05:07:43	1.230	1.250	1.760
LLB	11AUG05:09:13	2.270	2.150	2.380
LLB	11AUG05:10:44	2.410	2.550	2.620
LLB	11AUG05:12:14	2.490	2.480	2.570
LLB	11AUG05:13:47	2.150	2.370	2.450
LLB	24AUG05:10:18	2.000	1.790	1.940
LLB	24AUG05:11:48	2.590	2.310	2.400
LLB	24AUG05:13:18	3.000	2.700	2.770

[z]Dissolved reactive phosphorus (DRP), dissolved phosphorus (DP), total phosphorus (TP).

[y]Missing data.

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	01APR03:19:05	13.70	16.00	19.50
PON	01APR03:20:40	14.40	17.00	20.50
PON	07APR03:17:55	9.420	15.60	17.00
PON	07APR03:19:25	10.30	*22.50*[y]	19.90
PON	07APR03:20:55	10.50	17.60	19.30
PON	07APR03:22:25	11.40	17.80	18.50
PON	07APR03:23:55	12.20	17.70	19.40
PON	08APR03:01:25	13.10	18.50	19.40
PON	08APR03:02:55	13.90	18.30	19.00
PON	08APR03:04:25	13.90	18.30	21.10
PON	08APR03:05:55	14.60	20.30	22.60
PON	08APR03:07:25	15.30	21.30	21.70
PON	08APR03:08:55	18.00	22.90	24.70
PON	08APR03:10:25	19.70	23.50	28.00
PON	08APR03:11:55	18.70	21.60	27.40
PON	08APR03:13:25	17.90	21.80	23.10
PON	08APR03:18:15	18.80	21.90	38.60
PON	08APR03:19:45	18.80	21.20	32.70
PON	08APR03:21:15	18.50	20.80	26.50
PON	08APR03:22:45	17.70	19.00	25.90
PON	09APR03:00:15	18.80	20.60	24.60
PON	09APR03:01:45	20.30	24.70	29.00
PON	09APR03:03:15	21.40	25.70	36.80
PON	09APR03:04:45	21.70	26.90	36.80
PON	09APR03:06:15	22.20	26.30	33.60
PON	09APR03:07:45	23.30	30.10	35.60
PON	09APR03:09:15	22.00	28.20	37.30
PON	09APR03:11:45	21.60	25.90	*46.10*[y]
PON	09APR03:13:15	18.90	25.70	*87.60*[y]
PON	09APR03:14:45	21.40	29.50	*50.00*[y]
PON	09APR03:16:15	19.20	26.40	*50.10*[y]
PON	09APR03:16:55	21.70	29.00	*65.10*[y]

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	09APR03:18:25	22.10	27.50	*50.00*[y]
PON	09APR03:19:55	16.30	28.10	*104.0*[y]
PON	09APR03:21:25	22.50	26.90	42.20
PON	09APR03:22:55	21.00	27.40	*51.30*[y]
PON	10APR03:00:25	22.20	27.90	31.70
PON	10APR03:01:55	23.10	27.30	29.90
PON	10APR03:03:25	22.80	29.00	31.50
PON	10APR03:04:55	23.50	27.50	30.10
PON	10APR03:06:25	22.10	28.30	31.40
PON	10APR03:07:55	18.60	24.70	36.10
PON	10APR03:11:25	23.00	27.00	29.60
PON	10APR03:12:55	23.00	28.30	38.20
PON	10APR03:15:55	23.90	29.40	30.40
PON	10APR03:18:55	24.00	24.20	28.60
PON	10APR03:21:55	22.00	23.90	26.10
PON	11APR03:00:55	21.20	23.40	26.00
PON	11APR03:03:55	20.80	25.30	25.60
PON	11APR03:07:00	19.10	21.10	26.60
PON	11APR03:10:05	19.60	21.20	24.40
PON	11APR03:11:30	19.60	21.10	25.50
PON	11APR03:13:35	19.40	21.20	23.10
PON	11APR03:15:05	19.60	21.00	23.30
PON	11APR03:16:35	19.50	25.20	25.80
PON	11APR03:18:05	19.10	21.20	23.20
PON	11APR03:19:35	18.60	22.00	22.50
PON	11APR03:21:05	19.00	20.50	23.10
PON	11APR03:22:35	18.10	20.60	23.10
PON	12APR03:00:05	18.30	22.00	22.80
PON	12APR03:01:35	19.00	19.90	22.40
PON	12APR03:03:05	17.70	20.40	22.50
PON	12APR03:04:35	18.50	19.20	20.70
PON	12APR03:06:05	17.90	20.80	22.80

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	12APR03:07:35	17.80	19.90	21.40
PON	12APR03:09:05	16.90	*22.50*[y]	21.70
PON	12APR03:10:35	16.80	20.30	22.00
PON	12APR03:13:05	15.10	17.30	19.30
PON	12APR03:14:35	14.20	15.90	17.50
PON	12APR03:16:10	14.30	18.90	23.30
PON	12APR03:17:40	15.50	19.10	19.40
PON	12APR03:19:10	16.20	20.10	20.40
PON	12APR03:20:40	16.30	18.70	21.10
PON	12APR03:22:10	15.60	18.30	21.40
PON	12APR03:23:40	16.00	19.00	21.70
PON	13APR03:01:10	15.80	19.30	21.60
PON	13APR03:02:40	16.40	18.30	21.30
PON	13APR03:04:15	15.80	19.00	20.60
PON	13APR03:05:45	15.20	20.40	20.50
PON	13APR03:07:15	14.80	19.50	20.20
PON	13APR03:08:45	15.40	19.30	20.30
PON	13APR03:10:15	14.70	18.50	20.20
PON	13APR03:13:05	13.70	19.10	20.60
PON	13APR03:14:35	14.60	18.10	.[x]
PON	13APR03:16:05	13.70	18.20	19.50
PON	13APR03:17:35	11.70	18.10	19.20
PON	13APR03:19:10	14.30	17.70	19.40
PON	13APR03:20:40	13.50	17.50	19.50
PON	13APR03:22:10	13.40	18.60	19.50
PON	13APR03:23:40	13.80	17.20	19.10
PON	14APR03:01:10	13.50	18.80	20.10
PON	14APR03:02:45	13.70	17.80	19.90
PON	14APR03:04:15	13.60	19.30	20.60
PON	14APR03:05:45	13.00	21.00	23.30
PON	14APR03:07:20	13.20	16.60	19.10
PON	14APR03:08:50	13.50	19.30	19.30
PON	14APR03:10:35	12.60	17.10	19.80

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	14APR03:12:05	12.40	17.20	18.80
PON	14APR03:13:40	12.70	18.90	20.60
PON	14APR03:15:10	12.70	19.60	20.10
PON	14APR03:16:40	12.40	17.90	19.10
PON	14APR03:18:10	12.40	15.70	17.90
PON	14APR03:19:40	11.80	17.00	18.30
PON	14APR03:21:10	12.20	17.60	19.20
PON	14APR03:22:40	10.30	17.90	18.60
PON	15APR03:00:10	12.20	18.20	19.20
PON	15APR03:01:40	12.50	16.70	18.50
PON	15APR03:03:10	13.10	17.70	18.80
PON	15APR03:04:40	13.40	17.40	19.20
PON	15APR03:06:15	13.10	17.20	19.20
PON	15APR03:07:45	14.10	18.10	18.80
PON	15APR03:09:15	13.30	16.70	18.80
PON	15APR03:11:30	14.30	19.90	20.00
PON	15APR03:13:00	16.20	20.10	22.20
PON	15APR03:14:30	17.00	21.30	26.40
PON	15APR03:16:00	15.90	21.10	25.80
PON	15APR03:17:30	15.20	21.00	22.20
PON	15APR03:19:50	15.40	20.70	20.80
PON	29MAR04:12:55	5.260	4.930	8.600
PON	29MAR04:13:05	8.930	8.600	9.540
PON	29MAR04:13:15	7.960	8.210	11.50
PON	29MAR04:13:20	10.40	10.60	11.20
PON	29MAR04:13:30	36.00	37.20	40.20
PON	29MAR04:13:40	1.120	1.480	2.050
PON	08JUL04:17:10	6.140	6.550	6.800
PON	08JUL04:18:40	6.920	7.510	7.510
PON	08JUL04:20:10	6.780	7.200	7.240
PON	11JUL04:14:55	5.430	5.640	5.630
PON	11JUL04:16:25	6.060	6.100	6.080
PON	11JUL04:17:55	6.250	6.320	7.020

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	11JUL04:19:25	8.970	6.240	6.410
PON	11JUL04:20:55	6.220	6.170	6.510
PON	11JUL04:22:25	7.100	6.590	7.100
PON	07MAR05:18:11	7.200	6.630	7.440
PON	07MAR05:19:41	6.990	6.300	6.840
PON	07MAR05:21:11	7.200	6.420	6.920
PON	07MAR05:22:41	7.200	6.880	7.290
PON	08MAR05:00:11	7.280	6.860	7.370
PON	08MAR05:01:41	7.150	6.940	7.370
PON	08MAR05:03:11	7.240	6.820	7.470
PON	08MAR05:04:41	7.520	7.200	7.650
PON	08MAR05:06:12	7.660	7.320	7.680
PON	08MAR05:13:42	6.490	7.080	7.300
PON	08MAR05:15:12	6.520	7.030	7.410
PON	08MAR05:16:42	6.760	7.170	7.520
PON	08MAR05:18:12	6.810	7.050	7.470
PON	08MAR05:19:42	7.010	7.320	7.620
PON	08MAR05:21:12	7.190	7.350	7.760
PON	08MAR05:22:42	7.400	7.560	8.030
PON	09MAR05:00:13	7.570	7.630	7.920
PON	09MAR05:01:43	7.570	7.790	8.210
PON	09MAR05:03:13	7.770	7.970	8.280
PON	09MAR05:04:43	7.770	8.000	8.290
PON	09MAR05:06:13	7.910	8.340	8.390
PON	09MAR05:07:43	7.950	8.340	8.520
PON	09MAR05:09:13	8.160	8.140	8.640
PON	09MAR05:10:43	7.690	8.510	8.620
PON	09MAR05:13:14	6.900	7.730	8.140
PON	09MAR05:14:44	6.700	7.270	7.690
PON	09MAR05:16:14	5.860	6.620	6.810
PON	09MAR05:17:44	5.050	5.580	5.960
PON	09MAR05:19:14	4.980	5.490	5.860
PON	09MAR05:20:44	4.820	4.850	5.560

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	09MAR05:22:14	4.740	4.840	5.830
PON	09MAR05:23:44	4.740	4.890	5.810
PON	10MAR05:01:15	4.880	5.510	5.840
PON	10MAR05:02:45	4.960	5.640	6.040
PON	10MAR05:04:15	5.090	5.830	6.010
PON	10MAR05:14:00	5.610	5.830	6.170
PON	10MAR05:15:31	5.660	6.030	6.230
PON	10MAR05:17:01	5.780	6.010	6.410
PON	10MAR05:18:31	5.950	6.270	6.390
PON	10MAR05:20:01	6.320	6.540	6.860
PON	10MAR05:21:31	6.310	6.660	6.870
PON	10MAR05:23:01	6.130	6.560	6.750
PON	11MAR05:00:31	6.110	6.480	6.860
PON	11MAR05:02:01	6.250	6.590	6.850
PON	11MAR05:03:32	6.490	6.730	7.030
PON	11MAR05:05:02	6.640	6.780	6.970
PON	11MAR05:06:32	6.790	7.000	7.220
PON	11MAR05:08:02	6.790	7.460	7.950
PON	11MAR05:09:32	6.890	7.670	7.810
PON	11MAR05:11:17	6.900	6.800	7.110
PON	11MAR05:12:47	6.990	6.780	7.040
PON	11MAR05:14:17	6.810	7.110	7.050
PON	11MAR05:15:48	6.630	6.910	7.150
PON	11MAR05:17:18	6.030	6.770	6.710
PON	11MAR05:18:48	5.940	6.500	6.450
PON	11MAR05:20:18	6.130	6.850	6.950
PON	11MAR05:21:48	6.130	7.100	6.930
PON	11MAR05:23:18	6.290	7.100	7.430
PON	12MAR05:00:48	6.470	6.430	7.560
PON	12MAR05:02:18	6.630	7.240	7.690
PON	12MAR05:03:48	6.840	7.690	8.110
PON	12MAR05:05:19	7.120	8.080	8.210
PON	12MAR05:06:49	7.230	8.060	9.120

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	12MAR05:08:19	7.470	7.980	8.760
PON	12MAR05:09:49	7.620	8.220	8.900
PON	12MAR05:11:34	7.760	7.850	8.250
PON	12MAR05:13:04	7.700	7.790	8.070
PON	12MAR05:14:34	7.740	8.140	8.120
PON	12MAR05:16:04	7.790	8.030	8.230
PON	12MAR05:17:34	7.980	8.360	9.340
PON	12MAR05:19:04	8.220	8.390	8.500
PON	12MAR05:20:35	8.740	8.780	8.980
PON	12MAR05:22:05	8.670	8.700	9.580
PON	12MAR05:23:35	8.800	9.250	9.210
PON	13MAR05:01:05	9.190	9.240	9.940
PON	13MAR05:02:35	9.210	9.850	9.950
PON	13MAR05:04:05	9.410	9.770	9.960
PON	13MAR05:08:35	9.000	9.610	9.710
PON	13MAR05:14:05	8.410	8.440	8.670
PON	13MAR05:15:35	7.990	8.240	9.310
PON	13MAR05:17:05	8.030	8.980	9.240
PON	13MAR05:18:35	8.150	9.020	9.410
PON	13MAR05:20:05	8.110	9.200	9.480
PON	13MAR05:21:35	8.540	9.600	9.800
PON	13MAR05:23:06	8.780	10.00	9.990
PON	14MAR05:01:21	8.920	9.720	11.00
PON	14MAR05:09:36	9.970	11.70	11.60
PON	14MAR05:14:07	9.730	10.80	11.10
PON	14MAR05:15:37	9.640	10.00	10.60
PON	14MAR05:17:07	9.350	10.10	10.40
PON	14MAR05:18:37	10.10	10.60	10.90
PON	14MAR05:20:07	10.20	11.10	11.20
PON	29MAR05:18:53	5.810	6.110	6.660
PON	29MAR05:20:08	6.020	6.450	6.850
PON	29MAR05:21:39	6.740	7.260	7.650
PON	29MAR05:23:09	6.950	7.290	7.860

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	30MAR05:01:39	6.990	7.500	7.700
PON	30MAR05:12:59	6.210	6.660	6.960
PON	30MAR05:14:53	6.260	6.150	6.240
PON	30MAR05:16:23	5.540	5.100	5.690
PON	30MAR05:17:53	5.420	5.280	5.300
PON	30MAR05:19:23	5.660	5.340	5.720
PON	30MAR05:20:54	5.350	5.460	5.720
PON	30MAR05:22:54	5.430	5.640	5.930
PON	31MAR05:08:54	6.470	6.770	7.020
PON	31MAR05:11:10	6.480	6.900	7.170
PON	31MAR05:12:40	6.630	6.730	7.010
PON	31MAR05:14:10	6.680	6.390	6.630
PON	31MAR05:15:40	6.430	6.070	6.480
PON	31MAR05:17:10	6.460	6.250	6.590
PON	31MAR05:18:40	6.590	6.620	6.740
PON	31MAR05:20:10	6.920	6.670	6.940
PON	31MAR05:21:40	7.500	7.050	6.950
PON	31MAR05:23:11	7.550	7.350	7.380
PON	01APR05:00:41	7.600	7.320	7.650
PON	01APR05:02:11	7.910	7.310	7.780
PON	01APR05:03:41	8.500	7.600	7.780
PON	01APR05:05:11	7.360	8.090	8.400
PON	01APR05:06:41	7.750	8.050	8.630
PON	01APR05:08:11	7.860	8.020	8.870
PON	01APR05:09:41	8.400	9.140	9.200
PON	01APR05:12:27	7.470	7.950	8.400
PON	01APR05:13:57	6.620	6.590	6.930
PON	01APR05:15:27	5.760	5.890	6.290
PON	01APR05:16:57	5.920	6.050	6.520
PON	01APR05:18:27	6.680	6.930	7.130
PON	01APR05:19:57	7.130	7.540	7.930
PON	01APR05:21:27	7.570	7.890	8.130
PON	01APR05:22:57	7.780	8.220	8.410

Table A7.8. Runoff phosphorus concentrations from the Ponoka site.

Site	sample date:time	DRP[z] mg L^{-1}	DP[z] mg L^{-1}	TP[z] mg L^{-1}
PON	02APR05:00:28	7.920	8.080	8.430
PON	02APR05:01:58	8.160	8.380	8.790
PON	02APR05:03:28	8.510	9.380	9.740
PON	02APR05:04:58	9.010	9.600	9.900
PON	02APR05:07:58	9.300	9.990	10.30
PON	02APR05:09:28	9.800	10.50	11.00
PON	02APR05:10:58	9.140	9.920	10.30
PON	02APR05:14:14	7.790	7.890	8.160
PON	02APR05:15:44	8.640	9.010	9.310
PON	02APR05:17:14	9.630	10.10	10.50
PON	02APR05:18:44	9.960	10.70	10.90
PON	02APR05:20:14	10.10	10.60	10.90
PON	02APR05:21:44	10.40	10.70	11.20
PON	02APR05:23:14	10.50	11.30	11.50
PON	03APR05:10:28	10.90	12.00	12.30
PON	03APR05:11:58	9.910	10.60	11.10
PON	03APR05:13:28	9.480	10.40	10.80
PON	03APR05:14:58	9.900	10.70	11.10
PON	03APR05:16:28	10.60	11.30	11.80
PON	03APR05:17:58	11.10	11.20	12.80
PON	03APR05:19:28	11.30	11.40	11.90
PON	04APR05:03:34	9.710	10.00	10.10
PON	04APR05:05:34	9.440	9.500	9.510
PON	04APR05:10:40	11.20	11.90	12.40
PON	04APR05:11:51	11.10	11.40	11.90
PON	04APR05:13:21	10.30	10.40	10.90
PON	04APR05:14:51	10.50	*11.00*[y]	10.50
PON	04APR05:16:21	10.90	11.00	11.80
PON	04APR05:17:51	11.40	11.90	12.30
PON	04APR05:19:21	11.60	12.50	12.90
PON	04APR05:20:52	11.30	11.90	12.60
PON	05APR05:11:02	10.10	11.20	11.50
PON	05APR05:12:32	10.10	9.790	10.00
PON	05APR05:14:02	10.40	10.40	10.50
PON	05APR05:15:32	10.90	10.40	10.80
PON	05APR05:17:03	10.90	10.70	11.00
PON	18JUN05:21:43	5.250	5.260	5.220

[z]Dissolved reactive phosphorus (DRP), Dissolved phosphorus (DP), Total phosphorus (TP).

[y]Italicized data points were removed from analysis.

[x]Missing data.