

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
AHC-ECR	T1	1	1	1	1	1	1	1	1	2	51	70	39	2.0	1.0	14.0	1.0	18.0	0.0	16.0	16.0	4.0	2.0	50.0	3.0	2.0	0.7	20.0	0.0
AHC-ECR	T2	1	1	1	1	1	1	1	1	2	51	70	39	2.0	1.0	14.0	1.0	18.0	0.0	16.0	16.0	4.0	2.0	50.0	3.0	1.0	0.4	18.0	0.0
AHC-ECR	T3	1	1	1	1	1	1	1	1	2	51	70	39	2.0	1.0	14.0	1.0	18.0	0.0	16.0	16.0	4.0	2.0	50.0	2.0	2.0	0.2	24.0	0.0
AHC-ECR	CUM	1	1	1	1	1	1	1	1	2	51	70	39	2.0	1.0	14.0	1.0	18.0	0.0	16.0	16.0	4.0	2.0	50.0	2.7	1.7	0.4	20.7	0.0
KC-LR	T1	1	1	1	1	1	1	1	1	4	28	40	751	6.0	6.0	10.0	6.0	12.0	5.0	17.0	6.0	5.0	9.0	50.0	10.0	1.0	0.3	6.0	100.0
KC-LR	T2	1	1	1	1	1	1	1	1	4	28	40	751	6.0	6.0	10.0	6.0	12.0	5.0	17.0	6.0	5.0	9.0	50.0	3.0	2.0	0.3	6.0	100.0
KC-LR	T3	1	1	1	1	1	1	1	1	4	28	40	751	6.0	6.0	10.0	6.0	12.0	5.0	17.0	6.0	5.0	9.0	50.0	1.0	2.0	0.2	6.0	50.0
KC-LR	CUM	1	1	1	1	1	1	1	1	4	28	40	751	6.0	6.0	10.0	6.0	12.0	5.0	17.0	6.0	5.0	9.0	50.0	4.7	1.7	0.3	6.0	83.3
SC-SCR	T1	1	1	1	1	1	1	1	1	5	14	30	405	18.0	12.0	15.0	11.0	19.0	20.0	18.0	18.0	17.0	12.0	100.0	6.0	1.5	0.8	19.0	30.0
SC-SCR	T2	1	1	1	1	1	1	1	1	5	14	30	405	18.0	12.0	15.0	11.0	19.0	20.0	18.0	18.0	17.0	12.0	100.0	7.0	2.0			90.0
SC-SCR	T3	1	1	1	1	1	1	1	1	5	14	30	405	18.0	12.0	15.0	11.0	19.0	20.0	18.0	18.0	17.0	12.0	100.0	10.0	1.5			25.0
SC-SCR	CUM	1	1	1	1	1	1	1	1	5	14	30	405	18.0	12.0	15.0	11.0	19.0	20.0	18.0	18.0	17.0	12.0	100.0	7.7	1.7	0.8	19.0	48.3
SLRR-PG	T1	1	1	1	1	1	1	1	1	4	28	34	2466	7.0	2.0	11.0	2.0	18.0	20.0	19.0	18.0	18.0	18.0	80.0	18.0	3.5	0.6	29.0	20.0
SLRR-PG	T2	1	1	1	1	1	1	1	1	4	28	34	2466	7.0	2.0	11.0	2.0	18.0	20.0	19.0	18.0	18.0	18.0	80.0	14.0	4.0	0.8	35.0	60.0
SLRR-PG	T3	1	1	1	1	1	1	1	1	4	28	34	2466	7.0	2.0	11.0	2.0	18.0	20.0	19.0	18.0	18.0	18.0	80.0	27.0	4.0	0.9	30.0	30.0
SLRR-PG	CUM	1	1	1	1	1	1	1	1	4	28	34	2466	7.0	2.0	11.0	2.0	18.0	20.0	19.0	18.0	18.0	18.0	80.0	19.7	3.8	0.7	31.3	36.7
SMR-CP	T1	1	1	1	1	1	1	1	1	2	50	67	112	2.0	1.0	5.0	0.0	18.0	19.0	20.0	8.0	16.0	19.0	40.0	12.0	9.0	0.5	14.0	0.0
SMR-CP	T2	1	1	1	1	1	1	1	1	2	50	67	112	2.0	1.0	5.0	0.0	18.0	19.0	20.0	8.0	16.0	19.0	40.0	10.0	15.0	0.4	9.0	0.0
SMR-CP	T3	1	1	1	1	1	1	1	1	2	50	67	112	2.0	1.0	5.0	0.0	18.0	19.0	20.0	8.0	16.0	19.0	40.0	10.0	15.0	0.3	17.0	0.0
SMR-CP	CUM	1	1	1	1	1	1	1	1	2	50	67	112	2.0	1.0	5.0	0.0	18.0	19.0	20.0	8.0	16.0	19.0	40.0	10.7	13.0	0.4	13.3	0.0
SMR-DP	T1	1	1	1	1	1	1	1	1	2	50	68	338	17.0	17.0	15.0	17.0	18.0	15.0	18.0	20.0	20.0	18.0	25.0	12.0	3.0			80.0
SMR-DP	T2	1	1	1	1	1	1	1	1	2	50	68	338	17.0	17.0	15.0	17.0	18.0	15.0	18.0	20.0	20.0	18.0	25.0	2.0	2.0			90.0
SMR-DP	T3	1	1	1	1	1	1	1	1	2	50	68	338	17.0	17.0	15.0	17.0	18.0	15.0	18.0	20.0	20.0	18.0	25.0	2.5	1.0			0.0
SMR-DP	CUM	1	1	1	1	1	1	1	1	2	50	68	338	17.0	17.0	15.0	17.0	18.0	15.0	18.0	20.0	20.0	18.0	25.0	5.5	2.0			56.7
SMR-WGR	T1	1	1	1	1	1	1	1	1	4	29	43	474	19.0	19.0	16.0	19.0	19.0	20.0	18.0	19.0	20.0	20.0	15.0	4.0	0.1	0.7	15.0	10.0
SMR-WGR	T2	1	1	1	1	1	1	1	1	4	29	43	474	19.0	19.0	16.0	19.0	19.0	20.0	18.0	19.0	20.0	20.0	15.0	2.0	0.5	0.3	19.0	10.0
SMR-WGR	T3	1	1	1	1	1	1	1	1	4	29	43	474	19.0	19.0	16.0	19.0	19.0	20.0	18.0	19.0	20.0	20.0	15.0	2.0	0.5	0.3	19.0	10.0
SMR-WGR	CUM	1	1	1	1	1	1	1	1	4	29	43	474	19.0	19.0	16.0	19.0	19.0	20.0	18.0	19.0	20.0	20.0	15.0	2.7	0.4	0.4	17.7	10.0
AC-CCR	T1	1	1	1	1	1	1	1	0	2	54	77	36	10.0	8.0	15.0	8.0	10.0	10.0		15.0	10.0	5.0	350.0	39.0	2.0	0.5	23.0	70.0
AC-CCR	T2	1	1	1	1	1	1	1	0	2	54	77	36	7.0	5.0	15.0	8.0	10.0	10.0		14.0	11.0	3.0	350.0	12.0	2.0	0.5	27.0	5.0
AC-CCR	T3	1	1	1	1	1	1	1	0	2	54	77	36	10.0	8.0	15.0	9.0	7.0	13.0		13.0	14.0	8.0	350.0	18.0	2.0	0.3	20.0	5.0
AC-CCR	CUM	1	1	1	1	1	1	1	0	2	54	77	36	9.0	7.0	15.0	8.3	9.0	11.0		14.0	11.7	5.3	350.0	23.0	2.0	0.4	23.3	26.7
BVR-SVW	T1	1	1	1	1	1	1	1	0	1	54	82	21	0.0	0.0	5.0	0.0	0.0	0.0		20.0	0.0	0.0	45.0	15.0	2.0	0.2	6.3	0.0
BVR-SVW	T2	1	1	1	1	1	1	1	0	1	54	82	21	0.0	0.0	5.0	0.0	0.0	0.0		20.0	0.0	0.0	45.0	15.0	2.0	0.2	4.3	0.0
BVR-SVW	T3	1	1	1	1	1	1	1	0	1	54	82	21	0.0	0.0	5.0	0.0	0.0	0.0		20.0	0.0	0.0	45.0	15.0	2.0	0.2	4.0	0.0
BVR-SVW	CUM	1	1	1	1	1	1	1	0	1	54	82	21	0.0	0.0	5.0	0.0	0.0	0.0		20.0	0.0	0.0	45.0	15.0	2.0	0.2	4.9	0.0
LPC-BMR	T1	1	1	1	1	1	0	1	1	3	47	55	252	15.0	5.0	10.0	5.0	18.0	12.0	7.0	15.0	12.0	7.0	250.0	5.0	2.0	0.8	12.0	80.0
LPC-BMR	T2	1	1	1	1	1	0	1	1	3	47	55	252	15.0	5.0	10.0	5.0	18.0	12.0	7.0	15.0	12.0	7.0	250.0	5.0	4.0	0.4	15.0	70.0
LPC-BMR	T3	1	1	1	1	1	0	1	1	3	47	55	252	15.0	5.0	10.0	5.0	18.0	12.0	7.0	15.0	12.0	7.0	250.0	7.0	2.0	0.5	14.0	40.0
LPC-BMR	CUM	1	1	1	1	1	0	1	1	3	47	55	252	15.0	5.0	10.0	5.0	18.0	12.0	7.0	15.0	12.0	7.0	250.0	5.7	2.7	0.5	13.7	63.3
RC-WGR	T1	1	1	1	1	1	1	1	0	4	32	48	558	16.0	12.0	10.0	12.0	13.0	16.0		17.0	12.0	15.0	150.0	12.0	4.0	0.0	8.3	80.0
RC-WGR	T2	1	1	1	1	1	1	1	0	4	32	48	558	16.0	10.0	10.0	12.0	13.0	17.0		16.0	14.0	15.0	150.0	2.0	2.0	0.3	8.0	80.0
RC-WGR	T3	1	1	1	1	1	1	1	0	4	32	48	558	16.0	19.0	10.0	14.0	13.0	13.0		8.0	9.0	9.0	150.0	3.0	2.0	0.1	4.7	40.0
RC-WGR	CUM	1	1	1	1	1	1	1	0	4	32	48	558	16.0	13.7	10.0	12.7	13.0	15.3		13.7	11.7	13.0	150.0	5.7	2.7	0.2	7.0	66.7
SDR-MT	T1	1	1	1	1	1	1	1	0	3	46	59	138	14.0	12.0	10.0	12.0	3.0	20.0	13.0	15.0	15.0	18.0	90.0	8.0	3.5	0.5	16.0	40.0

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLER FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLER LENGTH	RIFFLER WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
SDR-MT	T2	1	1	1	1	1	1	1	0	3	46	59	138	14.0	12.0	10.0	12.0	12.0	20.0	13.0	15.0	14.0	20.0	90.0	23.5	4.0	0.5	11.0	80.0
SDR-MT	T3	1	1	1	1	1	1	1	0	3	46	59	138	14.0	12.0	10.0	12.0	4.0	17.0	13.0	15.0	14.0	15.0	90.0	12.0	3.5	0.7	12.0	75.0
SDR-MT	CUM	1	1	1	1	1	1	1	0	3	46	59	138	14.0	12.0	10.0	12.0	6.3	19.0	13.0	15.0	14.3	17.7	90.0	14.5	3.7	0.6	13.0	65.0
SLRR-395	T1	1	1	1	1	1	1	0	1	4	35	50	240	2.0	1.0	7.0	1.0	18.0	5.0	10.0	18.0	18.0	2.0	20.0	2.0	1.0	0.4	16.0	100.0
SLRR-395	T2	1	1	1	1	1	1	0	1	4	35	50	240	2.0	1.0	7.0	1.0	18.0	5.0	10.0	18.0	18.0	2.0	20.0	1.5	1.5	0.2	22.0	90.0
SLRR-395	T3	1	1	1	1	1	1	0	1	4	35	50	240	2.0	1.0	7.0	1.0	18.0	5.0	10.0	18.0	18.0	2.0	20.0	0.5	3.0	0.2	12.0	40.0
SLRR-395	CUM	1	1	1	1	1	1	0	1	4	35	50	240	2.0	1.0	7.0	1.0	18.0	5.0	10.0	18.0	18.0	2.0	20.0	1.3	1.8	0.3	16.7	76.7
SLRR-MR	T1	1	1	1	1	1	1	1	0	4	34	49	121	10.0	0.0	10.0	10.0	15.0	15.0	15.0	13.0	15.0	19.0	74.0	8.0	4.0	0.3	27.0	40.0
SLRR-MR	T2	1	1	1	1	1	1	1	0	4	34	49	121	10.0	0.0	10.0	10.0	15.0	15.0	15.0	13.0	19.0	19.0	74.0	12.0	4.0	0.3	24.0	30.0
SLRR-MR	T3	1	1	1	1	1	1	1	0	4	34	49	121	10.0	0.0	10.0	10.0	15.0	15.0	15.0	13.0	19.0	19.0	74.0	4.0	4.0	0.2	27.0	30.0
SLRR-MR	CUM	1	1	1	1	1	1	1	0	4	34	49	121	10.0	0.0	10.0	10.0	15.0	15.0	15.0	13.0	17.7	19.0	74.0	8.0	4.0	0.2	26.0	33.3
SMC-LCCC	T1	1	1	1	1	1	1	1	0	3	47	63	27	1.0	0.0	15.0	1.0	4.0	2.0	10.0	18.0	11.0	1.0	227.0	8.0	4.5	0.1	13.0	0.0
SMC-LCCC	T2	1	1	1	1	1	1	1	0	3	47	63	27	4.0	17.0	15.0	2.0	9.0	2.0	10.0	18.0	11.0	1.0	227.0	28.0	2.0	0.1	14.0	0.0
SMC-LCCC	T3	1	1	1	1	1	1	1	0	3	47	63	27	8.0	11.0	15.0	5.0	9.0	2.0	10.0	16.0	11.0	6.0	227.0	14.0	2.0	0.1	11.0	100.0
SMC-LCCC	CUM	1	1	1	1	1	1	1	0	3	47	63	27	4.3	9.3	15.0	2.7	7.3	2.0	10.0	17.3	11.0	2.7	227.0	16.7	2.8	0.1	12.7	33.3
SMC-M	T1	1	1	1	1	1	1	1	0	2	54	78	520	13.0	18.0	10.0	11.0	8.0	14.0	2.0	18.0	8.0	11.0	13.0	4.3	3.0	0.1	13.0	60.0
SMC-M	T2	1	1	1	1	1	1	1	0	2	54	78	520	13.0	18.0	10.0	11.0	8.0	14.0	2.0	18.0	8.0	11.0	13.0	4.3	5.0	0.1	12.0	60.0
SMC-M	T3	1	1	1	1	1	1	1	0	2	54	78	520	13.0	18.0	10.0	11.0	8.0	14.0	2.0	18.0	8.0	11.0	13.0	4.3	4.0	0.6	9.0	60.0
SMC-M	CUM	1	1	1	1	1	1	1	0	2	54	78	520	13.0	18.0	10.0	11.0	8.0	14.0	2.0	18.0	8.0	11.0	13.0	4.3	4.0	0.3	11.3	60.0
SWR-79	T1	1	1	1	1	1	0	1	1	4	22	33	3338	2.0	2.0	6.0	2.0	7.0	20.0	2.0	15.0	13.0	13.0		2.5	0.5	0.2	1.0	90.0
SWR-79	T2	1	1	1	1	1	0	1	1	4	22	33	3338	2.0	2.0	6.0	2.0	7.0	20.0	2.0	15.0	13.0	13.0		1.5	0.5	0.2	2.0	75.0
SWR-79	T3	1	1	1	1	1	0	1	1	4	22	33	3338	2.0	2.0	6.0	2.0	7.0	20.0	2.0	15.0	13.0	13.0		1.0	1.0	0.3	2.0	70.0
SWR-79	CUM	1	1	1	1	1	0	1	1	4	22	33	3338	2.0	2.0	6.0	2.0	7.0	20.0	2.0	15.0	13.0	13.0		1.7	0.7	0.2	1.7	78.3
TC-I-15	T1	1	1	1	1	1	1	1	0	2	50	69	967	5.0	12.0	10.0	8.0	9.0	17.0		12.0	18.0	18.0		4.0	1.5	0.2	7.0	40.0
TC-I-15	T2	1	1	1	1	1	1	1	0	2	50	69	967	1.0	1.0	10.0	6.0	8.0	17.0		17.0	18.0	19.0		4.0	1.0	0.1	7.0	60.0
TC-I-15	T3	1	1	1	1	1	1	1	0	2	50	69	967	2.0	12.0	10.0	7.0	8.0	12.0		10.0	14.0	8.0		7.0	0.5	0.1	3.0	80.0
TC-I-15	CUM	1	1	1	1	1	1	1	0	2	50	69	967	2.7	8.3	10.0	7.0	8.3	15.3		13.0	16.7	15.0		5.0	1.0	0.1	5.7	60.0
AC-PPD	T1	1	1	1	1	1	0	0	1	2	54	76	203	6.0	4.0	10.0	2.0	18.0	13.0	17.0	8.0	11.0	16.0	30.0	6.0	1.5	0.4	14.0	10.0
AC-PPD	T2	1	1	1	1	1	0	0	1	2	54	76	203	6.0	4.0	10.0	2.0	18.0	13.0	17.0	8.0	11.0	16.0	30.0	5.0	1.0	0.6	8.0	0.0
AC-PPD	T3	1	1	1	1	1	0	0	1	2	54	76	203	6.0	4.0	10.0	2.0	18.0	13.0	17.0	8.0	11.0	16.0	30.0	4.0	2.0	0.4	14.0	0.0
AC-PPD	CUM	1	1	1	1	1	0	0	1	2	54	76	203	6.0	4.0	10.0	2.0	18.0	13.0	17.0	8.0	11.0	16.0	30.0	5.0	1.5	0.5	12.0	3.3
ATC-AP	T1	0	1	1	1	1	1	1	0	2	50	73	460	5.0	9.0	5.0	12.0	10.0	16.0		13.0	14.0	15.0	200.0	34.0	3.0	0.4	10.0	10.0
ATC-AP	T2	0	1	1	1	1	1	1	0	2	50	73	460	12.0	9.0	5.0	14.0	8.0	16.0		12.0	15.0	13.0	200.0	37.0	3.0	0.5	12.0	5.0
ATC-AP	T3	0	1	1	1	1	1	1	0	2	50	73	460	8.0	9.0	5.0	14.0	10.0	16.0		13.0	16.0	15.0	200.0	30.0	3.0	0.4	8.0	15.0
ATC-AP	CUM	0	1	1	1	1	1	1	0	2	50	73	460	8.3	9.0	5.0	13.3	9.3	16.0		12.7	15.0	14.3	200.0	33.7	3.0	0.4	10.0	10.0
CCC-805	T1	0	1	1	1	1	1	1	0	3	37	53	59	12.0	15.0	15.0	12.0	8.0	20.0	6.0	7.0	13.0	18.0	110.0	11.0	1.5	0.3	6.0	15.0
CCC-805	T2	0	1	1	1	1	1	1	0	3	37	53	59	12.0	15.0	15.0	12.0	6.0	15.0	6.0	7.0	12.0	15.0	110.0	5.0	1.5	0.7	7.0	60.0
CCC-805	T3	0	1	1	1	1	1	1	0	3	37	53	59	12.0	15.0	15.0	12.0	8.0	20.0	6.0	7.0	14.0	18.0	110.0	8.0	3.0	0.3	4.0	70.0
CCC-805	CUM	0	1	1	1	1	1	1	0	3	37	53	59	12.0	15.0	15.0	12.0	7.3	18.3	6.0	7.0	13.0	17.0	110.0	8.0	2.0	0.4	5.7	48.3
EC-EF	T1	1	1	1	1	1	1	0	0	3	50	63	361	16.0	16.0	17.0	15.0	14.0	18.0	16.0	15.0	12.0	15.0		8.0	4.0	0.4	13.0	40.0
EC-EF	T2	1	1	1	1	1	1	0	0	3	50	63	361	16.0	16.0	17.0	15.0	14.0	18.0	16.0	15.0	12.0	15.0		4.0	2.0	0.5	9.0	40.0
EC-EF	T3	1	1	1	1	1	1	0	0	3	50	63	361	16.0	16.0	17.0	15.0	14.0	18.0	16.0	15.0	12.0	15.0		3.0	2.0	0.4	11.0	40.0
EC-EF	CUM	1	1	1	1	1	1	0	0	3	50	63	361	16.0	16.0	17.0	15.0	14.0	18.0	16.0	15.0	12.0	15.0		5.0	2.7	0.5	11.0	40.0
ENC-GVR	T1	1	1	1	1	1	1	0	0	1	54	86	66	2.0	1.0	5.0	1.0	1.0	20.0	17.0	10.0	18.0	15.0		7.0	0.3	0.6	6.0	80.0
ENC-GVR	T2	1	1	1	1	1	1	0	0	1	54	86	66	2.0	1.0	5.0	1.0	1.0	20.0	17.0	10.0	18.0	15.0		2.0	0.5	0.5	7.0	40.0

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITON	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
ENC-GVR	T3	1	1	1	1	1	1	0	0	1	54	86	66	2.0	1.0	5.0	1.0	1.0	20.0	17.0	10.0	15.0		3.0	1.0	0.2	5.0	80.0	
ENC-GVR	CUM	1	1	1	1	1	1	0	0	1	54	86	66	2.0	1.0	5.0	1.0	1.0	20.0	17.0	10.0	17.0		4.0	0.6	0.4	6.0	66.7	
LAC-ECR	T1	1	1	1	1	0	1	1	0	1	54	90	83	8.0	0.0	10.0	0.0	2.0	1.0		20.0	8.0	2.0	15.0	2.0	1.0	0.2	13.0	2.0
LAC-ECR	T2	1	1	1	1	0	1	1	0	1	54	90	83	8.0	0.0	10.0	0.0	2.0	1.0		20.0	10.0	4.0	15.0	2.0	1.0	0.1	8.0	2.0
LAC-ECR	T3	1	1	1	1	0	1	1	0	1	54	90	83	8.0	0.0	10.0	0.0	2.0	1.0		20.0	18.0	10.0	15.0	4.0	1.0	0.0	10.0	15.0
LAC-ECR	CUM	1	1	1	1	0	1	1	0	1	54	90	83	8.0	0.0	10.0	0.0	2.0	1.0		20.0	12.0	5.3	15.0	2.7	1.0	0.1	10.3	6.3
MC-GS	T1	1	1	1	1	0	1	1	0	1	54	87	969	14.0	0.0	20.0	17.0	15.0	17.0		18.0	16.0	17.0	50.0	33.0	4.0	0.4	7.0	10.0
MC-GS	T2	1	1	1	1	0	1	1	0	1	54	87	969	10.0	1.0	20.0	6.0	17.0	18.0		20.0	20.0	20.0	50.0	15.0	1.0	0.9	20.0	80.0
MC-GS	T3	1	1	1	1	0	1	1	0	1	54	87	969	10.0	1.0	20.0	6.0	17.0	18.0		19.0	20.0	20.0	50.0	3.0	1.0	0.7	22.0	80.0
MC-GS	CUM	1	1	1	1	0	1	1	0	1	54	87	969	11.3	0.7	20.0	9.7	16.3	17.7		19.0	18.7	19.0	50.0	17.0	2.0	0.7	16.3	56.7
SMC-RSFR	T1	1	1	1	1	1	0	1	0	3	46	60	329	14.0	12.0	10.0	8.0	10.0	12.0	10.0	17.0	17.0	15.0	191.0	1.5	1.5	0.2	14.0	75.0
SMC-RSFR	T2	1	1	1	1	1	0	1	0	3	46	60	329	14.0	14.0	10.0	8.0	10.0	12.0	10.0	17.0	20.0	17.0	191.0	2.5	1.5	0.2	11.0	50.0
SMC-RSFR	T3	1	1	1	1	1	0	1	0	3	46	60	329	15.0	16.0	10.0	16.0	10.0	12.0	10.0	17.0	17.0	6.0	191.0	3.0	1.0	0.2	9.0	70.0
SMC-RSFR	CUM	1	1	1	1	1	0	1	0	3	46	60	329	14.3	14.0	10.0	10.7	10.0	12.0	10.0	17.0	18.0	12.7	191.0	2.3	1.3	0.2	11.3	65.0
SWR-94	T1	1	1	1	1	1	0	1	0	1	54	80	315	3.0	2.0	10.0	1.0	1.0	5.0	2.0	18.0	10.0	5.0	150.0	6.0	2.0	0.4	8.0	30.0
SWR-94	T2	1	1	1	1	1	0	1	0	1	54	80	315	3.0	2.0	10.0	1.0	3.0	15.0	2.0	16.0	18.0	12.0	150.0	2.0	2.5	0.3	15.0	70.0
SWR-94	T3	1	1	1	1	1	0	1	0	1	54	80	315	3.0	2.0	10.0	1.0	7.0	15.0	2.0	16.0	18.0	18.0	150.0	10.0	5.0	0.2	14.0	70.0
SWR-94	CUM	1	1	1	1	1	0	1	0	1	54	80	315	3.0	2.0	10.0	1.0	3.7	11.7	2.0	16.7	15.3	11.7	150.0	6.0	3.2	0.3	12.3	56.7
BVR-ED	T1	1	1	1	1	1	0	0	0	1	54	83	322	6.0	20.0	8.0	16.0	20.0	0.0	4.0	20.0	4.0	4.0		4.0	2.0	0.1	6.0	40.0
BVR-ED	T2	1	1	1	1	1	0	0	0	1	54	83	322	6.0	20.0	8.0	16.0	20.0	0.0	4.0	20.0	4.0	4.0		4.0	2.0	0.2	6.0	40.0
BVR-ED	T3	1	1	1	1	1	0	0	0	1	54	83	322	6.0	20.0	8.0	16.0	20.0	0.0	4.0	20.0	4.0	4.0		4.0	2.0	0.1	6.0	40.0
BVR-ED	CUM	1	1	1	1	1	0	0	0	1	54	83	322	6.0	20.0	8.0	16.0	20.0	0.0	4.0	20.0	4.0	4.0		4.0	2.0	0.1	6.0	40.0
EC-HRB	T1	1	1	1	1	1	0	0	0	1	54	91	607	12.0	12.0	10.0	12.0	16.0	16.0	14.0	16.0	15.0	12.0		2.0	1.0	0.7	13.0	30.0
EC-HRB	T2	1	1	1	1	1	0	0	0	1	54	91	607	12.0	12.0	10.0	12.0	16.0	16.0	14.0	16.0	15.0	12.0		1.0	1.0	0.5	21.0	30.0
EC-HRB	T3	1	1	1	1	1	0	0	0	1	54	91	607	12.0	12.0	10.0	12.0	16.0	16.0	14.0	16.0	15.0	12.0		3.0	1.0	0.3	16.0	30.0
EC-HRB	CUM	1	1	1	1	1	0	0	0	1	54	91	607	12.0	12.0	10.0	12.0	16.0	16.0	14.0	16.0	15.0	12.0		2.0	1.0	0.5	16.7	30.0
LAC-CB	T1	1	1	1	1	1	0	0	0	1	54	89	208	8.0	0.0	8.0	4.0	4.0	14.0	8.0	12.0	14.0	16.0		5.0	2.0	0.1	9.0	80.0
LAC-CB	T2	1	1	1	1	1	0	0	0	1	54	89	208	8.0	0.0	8.0	4.0	4.0	14.0	8.0	12.0	14.0	16.0		1.0	0.3	0.1	9.0	50.0
LAC-CB	T3	1	1	1	1	1	0	0	0	1	54	89	208	8.0	0.0	8.0	4.0	4.0	14.0	8.0	12.0	14.0	16.0		1.0	0.3	0.2	7.0	50.0
LAC-CB	CUM	1	1	1	1	1	0	0	0	1	54	89	208	8.0	0.0	8.0	4.0	4.0	14.0	8.0	12.0	14.0	16.0		2.3	0.9	0.1	8.3	60.0
LPC-CCR	T1	1	1	1	1	1	0	0	0	3	37	51	432	16.0	16.0	15.0	15.0	14.0	14.0	15.0	17.0	14.0	14.0		4.0	3.0	0.4	10.0	95.0
LPC-CCR	T2	1	1	1	1	1	0	0	0	3	37	51	432	16.0	16.0	15.0	15.0	14.0	14.0	15.0	17.0	14.0	14.0		5.0	1.5	0.2	6.0	70.0
LPC-CCR	T3	1	1	1	1	1	0	0	0	3	37	51	432	16.0	16.0	15.0	15.0	14.0	14.0	15.0	17.0	14.0	14.0		7.0	1.0	0.1	6.0	70.0
LPC-CCR	CUM	1	1	1	1	1	0	0	0	3	37	51	432	16.0	16.0	15.0	15.0	14.0	14.0	15.0	17.0	14.0	14.0		5.3	1.8	0.2	7.3	78.3
RC-HP	T1	1	1	1	1	0	1	0	0	1	54	92	499	10.0	0.0	4.0	15.0	17.0	2.0	8.0	20.0	1.0	2.0		18.0	1.3	0.4	7.0	0.0
RC-HP	T2	1	1	1	1	0	1	0	0	1	54	92	499	11.0	0.0	4.0	8.0	4.0	12.0	8.0	11.0	12.0	11.0		7.0	0.6	0.3	12.0	40.0
RC-HP	T3	1	1	1	1	0	1	0	0	1	54	92	499	10.0	0.0	4.0	8.0	4.0	12.0	8.0	11.0	12.0	6.0		2.0	1.0	0.2	9.0	10.0
RC-HP	CUM	1	1	1	1	0	1	0	0	1	54	92	499	10.3	0.0	4.0	10.3	8.3	8.7	8.0	14.0	8.3	6.3		9.0	1.0	0.3	9.3	16.7
SDR-1	T1	1	1	1	1	1	0	0	0	2	53	71	10	14.0	13.0	13.0	15.0	13.0	16.0	12.0	13.0	16.0	15.0		1.5	2.0	0.7	8.0	70.0
SDR-1	T2	1	1	1	1	1	0	0	0	2	53	71	10	14.0	13.0	13.0	15.0	13.0	16.0	12.0	13.0	16.0	15.0		3.0	1.5	0.4	15.0	70.0
SDR-1	T3	1	1	1	1	1	0	0	0	2	53	71	10	14.0	13.0	13.0	15.0	13.0	16.0	12.0	13.0	16.0	15.0		6.0	1.0	0.3	20.0	70.0
SDR-1	CUM	1	1	1	1	1	0	0	0	2	53	71	10	14.0	13.0	13.0	15.0	13.0	16.0	12.0	13.0	16.0	15.0		3.5	1.5	0.5	14.3	70.0
SDR-MD	T1	1	1	1	1	1	0	0	0	3	47	62	285	13.0	16.0	14.0	14.0	15.0	17.0	12.0	16.0	16.0	18.0		2.5	1.0	0.7	13.0	80.0
SDR-MD	T2	1	1	1	1	1	0	0	0	3	47	62	285	13.0	16.0	14.0	14.0	15.0	17.0	12.0	16.0	16.0	18.0		1.5	1.0	0.4	15.0	70.0
SDR-MD	T3	1	1	1	1	1	0	0	0	3	47	62	285	13.0	16.0	14.0	14.0	15.0	17.0	12.0	16.0	16.0	18.0		6.0	1.0	0.4	10.0	80.0

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLING FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLING LENGTH	RIFFLING WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
SDR-MD	CUM	1	1	1	1	1	0	0	0	3	47	62	285	13.0	16.0	14.0	14.0	15.0	17.0	12.0	16.0	16.0	18.0		3.3	1.0	0.5	12.7	76.7
SJC-74	T1	0	1	1	1	0	1	1	0	4	32	44	165	9.0	5.0	15.0	10.0	10.0	13.0		16.0	18.0	16.0	100.0	7.0	1.5	0.1	9.0	50.0
SJC-74	T2	0	1	1	1	0	1	1	0	4	32	44	165	5.0	1.0	15.0	4.0	10.0	17.0		20.0	20.0	20.0	100.0	7.0	1.5	0.1	5.0	80.0
SJC-74	T3	0	1	1	1	0	1	1	0	4	32	44	165	13.0	1.0	15.0	7.0	10.0	18.0		16.0	18.0	20.0	100.0	21.0	3.5	0.1	15.0	30.0
SJC-74	CUM	0	1	1	1	0	1	1	0	4	32	44	165	9.0	2.3	15.0	7.0	10.0	16.0		17.3	18.7	18.7	100.0	11.7	2.2	0.1	9.7	53.3
SLRR-FR	T1	1	1	1	1	1	0	0	0	2	54	65	30	6.0	1.0	10.0	2.0	12.0	17.0	6.0	12.0	16.0	17.0		5.0	3.0	0.1	7.0	40.0
SLRR-FR	T2	1	1	1	1	1	0	0	0	2	54	65	30	6.0	1.0	10.0	2.0	12.0	17.0	6.0	12.0	16.0	17.0		4.0	2.0	0.1	10.0	50.0
SLRR-FR	T3	1	1	1	1	1	0	0	0	2	54	65	30	6.0	1.0	10.0	2.0	12.0	17.0	6.0	12.0	16.0	17.0		2.0	4.0	0.2	9.0	50.0
SLRR-FR	CUM	1	1	1	1	1	0	0	0	2	54	65	30	6.0	1.0	10.0	2.0	12.0	17.0	6.0	12.0	16.0	17.0		3.7	3.0	0.1	8.7	46.7
SMC-SP	T1	1	1	1	1	1	0	0	0	2	54	79	607	16.0	16.0	12.0	13.0	14.0	17.0	12.0	14.0	14.0	14.0		4.0	1.5	0.2	11.0	80.0
SMC-SP	T2	1	1	1	1	1	0	0	0	2	54	79	607	16.0	16.0	12.0	13.0	14.0	17.0	12.0	14.0	14.0	14.0		6.0	1.0	0.3	11.0	95.0
SMC-SP	T3	1	1	1	1	1	0	0	0	2	54	79	607	16.0	16.0	12.0	13.0	14.0	17.0	12.0	14.0	14.0	14.0		6.0	2.0	0.5	7.0	90.0
SMC-SP	CUM	1	1	1	1	1	0	0	0	2	54	79	607	16.0	16.0	12.0	13.0	14.0	17.0	12.0	14.0	14.0	14.0		5.3	1.5	0.3	9.7	88.3
SWR-WS	T1	1	1	1	1	1	0	0	0	2	54	72	61	13.0	0.0	12.0	13.0	10.0	18.0	12.0	10.0	13.0	17.0		1.0	1.0	0.1	7.0	80.0
SWR-WS	T2	1	1	1	1	1	0	0	0	2	54	72	61	13.0	0.0	12.0	13.0	10.0	18.0	12.0	10.0	13.0	17.0		4.0	1.0	0.1	7.0	80.0
SWR-WS	T3	1	1	1	1	1	0	0	0	2	54	72	61	13.0	0.0	12.0	13.0	10.0	18.0	12.0	10.0	13.0	17.0		3.0	0.3	0.1	11.0	70.0
SWR-WS	CUM	1	1	1	1	1	0	0	0	2	54	72	61	13.0	0.0	12.0	13.0	10.0	18.0	12.0	10.0	13.0	17.0		2.7	0.8	0.1	8.3	76.7
TC-TCNP	T1	0	0	1	1	1	1	1	0	2	54	75	59	10.0	12.0	15.0	12.0	5.0	20.0	2.0	12.0	15.0	18.0	70.0	6.0	2.0	0.2	4.0	90.0
TC-TCNP	T2	0	0	1	1	1	1	1	0	2	54	75	59	10.0	12.0	15.0	12.0	6.0	20.0	2.0	13.0	10.0	18.0	70.0	2.5	0.5	0.2	4.0	50.0
TC-TCNP	T3	0	0	1	1	1	1	1	0	2	54	75	59	10.0	12.0	15.0	12.0	5.0	20.0	2.0	13.0	10.0	18.0	70.0	6.5	0.3	0.1	2.0	10.0
TC-TCNP	CUM	0	0	1	1	1	1	1	0	2	54	75	59	10.0	12.0	15.0	12.0	5.3	20.0	2.0	12.7	11.7	18.0	70.0	5.0	0.9	0.2	3.3	50.0
CC-H80	T1	0	0	0	0	0	1	1	1	5	13	13	3654	11.0	6.0	14.0	7.0	18.0	15.0	16.0	16.0	16.0	15.0	40.0	10.0	0.5	0.4	4.0	60.0
CC-H80	T2	0	0	0	0	0	1	1	1	5	13	13	3654	11.0	6.0	14.0	7.0	18.0	15.0	16.0	16.0	16.0	15.0	40.0	5.0	1.0	0.1	9.0	100.0
CC-H80	T3	0	0	0	0	0	1	1	1	5	13	13	3654	11.0	6.0	14.0	7.0	18.0	15.0	16.0	16.0	16.0	15.0	40.0	5.0	1.0	0.1	4.0	70.0
CC-H80	CUM	0	0	0	0	0	1	1	1	5	13	13	3654	11.0	6.0	14.0	7.0	18.0	15.0	16.0	16.0	16.0	15.0	40.0	6.7	0.8	0.2	5.7	76.7
PC-H80	T1	0	0	0	0	0	1	1	1	5	10	11	1675	17.0	10.0	15.0	17.0	18.0	20.0	16.0	14.0	16.0	18.0	25.0	4.0	2.0	0.2	18.0	100.0
PC-H80	T2	0	0	0	0	0	1	1	1	5	10	11	1675	17.0	10.0	15.0	17.0	18.0	20.0	16.0	14.0	16.0	18.0	25.0	4.0	2.0	0.2	24.0	100.0
PC-H80	T3	0	0	0	0	0	1	1	1	5	10	11	1675	17.0	10.0	15.0	17.0	18.0	20.0	16.0	14.0	16.0	18.0	25.0	4.0	2.0	0.2	22.0	100.0
PC-H80	CUM	0	0	0	0	0	1	1	1	5	10	11	1675	17.0	10.0	15.0	17.0	18.0	20.0	16.0	14.0	16.0	18.0	25.0	4.0	2.0	0.2	21.3	100.0
SC-DLR	T1	0	0	0	0	0	1	1	1	5	10	26	1036	17.0	16.0	15.0	18.0	18.0	20.0	17.0	18.0	18.0	18.0	80.0	7.0	1.5			95.0
SC-DLR	T2	0	0	0	0	0	1	1	1	5	10	26	1036	17.0	16.0	15.0	18.0	18.0	20.0	17.0	18.0	18.0	18.0	80.0	1.5	0.5			100.0
SC-DLR	T3	0	0	0	0	0	1	1	1	5	10	26	1036	17.0	16.0	15.0	18.0	18.0	20.0	17.0	18.0	18.0	18.0	80.0	3.0	1.0			100.0
SC-DLR	CUM	0	0	0	0	0	1	1	1	5	10	26	1036	17.0	16.0	15.0	18.0	18.0	20.0	17.0	18.0	18.0	18.0	80.0	3.8	1.0			98.3
SYC-H79	T1	0	0	0	0	0	1	1	1	4	32	45	2936	12.0	16.0	9.0	16.0	13.0	6.0	15.0	16.0	8.0	8.0	20.0	4.5	1.5	0.3	4.0	0.0
SYC-H79	T2	0	0	0	0	0	1	1	1	4	32	45	2936	12.0	16.0	9.0	16.0	13.0	6.0	15.0	16.0	8.0	8.0	20.0	7.0	0.5	0.1	9.0	5.0
SYC-H79	T3	0	0	0	0	0	1	1	1	4	32	45	2936	12.0	16.0	9.0	16.0	13.0	6.0	15.0	16.0	8.0	8.0	20.0	9.0	0.5	0.2	10.0	50.0
SYC-H79	CUM	0	0	0	0	0	1	1	1	4	32	45	2936	12.0	16.0	9.0	16.0	13.0	6.0	15.0	16.0	8.0	8.0	20.0	6.8	0.8	0.2	7.7	18.3
TCC-TC	T1	0	0	0	0	0	1	1	1	5	10	25	4955	5.0	5.0	10.0	12.0	18.0	20.0	17.0	10.0	16.0	16.0	40.0	9.0	0.5	0.2	7.0	30.0
TCC-TC	T2	0	0	0	0	0	1	1	1	5	10	25	4955	5.0	5.0	10.0	12.0	18.0	20.0	17.0	10.0	16.0	16.0	40.0	5.0	1.0	0.1	8.0	20.0
TCC-TC	T3	0	0	0	0	0	1	1	1	5	10	25	4955	5.0	5.0	10.0	12.0	18.0	20.0	17.0	10.0	16.0	16.0	40.0	9.0	0.5	0.1	9.0	10.0
TCC-TC	CUM	0	0	0	0	0	1	1	1	5	10	25	4955	5.0	5.0	10.0	12.0	18.0	20.0	17.0	10.0	16.0	16.0	40.0	7.7	0.7	0.1	8.0	20.0
AHC-SA	T1	1	1	0	0	0	0	0	0	2	54	66	355	4.0	4.0	7.0	4.0	6.0	8.0	8.0	17.0	16.0	8.0	75.0			0.2	2.0	40.0
AHC-SA	T2	1	1	0	0	0	0	0	0	2	54	66	355	3.0	4.0	7.0	4.0	6.0	8.0	8.0	17.0	17.0	8.0	75.0			0.1	2.0	70.0
AHC-SA	T3	1	1	0	0	0	0	0	0	2	54	66	355	3.0	4.0	7.0	4.0	6.0	9.0	8.0	16.0	16.0	9.0	75.0			0.2	2.0	75.0
AHC-SA	CUM	1	1	0	0	0	0	0	0	2	54	66	355	3.3	4.0	7.0	4.0	5.3	8.3	8.0	16.7	16.3	8.3	75.0			0.1	2.0	61.7

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER	
CC-ECR	T1	0	0	0	0	0	1	1	0	2	50	61	504	12.0	10.0	15.0	12.0	17.0	20.0	13.0	12.0	5.0	14.0		3.0	2.0	0.4	5.0	95.0	
CC-ECR	T2	0	0	0	0	0	1	1	0	2	50	61	504	13.0	10.0	15.0	12.0	18.0	20.0	13.0	12.0	5.0	14.0		2.0	1.5	0.3	5.0	95.0	
CC-ECR	T3	0	0	0	0	0	1	1	0	2	50	61	504	14.0	10.0	15.0	12.0	18.0	15.0	13.0	14.0	5.0	14.0		1.5	1.0	0.3	4.0	95.0	
CC-ECR	CUM	0	0	0	0	0	1	1	0	2	50	61	504	13.0	10.0	15.0	12.0	17.7	18.3	13.0	12.7	5.0	14.0		2.2	1.5	0.3	4.7	95.0	
CC-H94	T1	0	0	0	0	0	0	1	1	4	28	39	2255	8.0	0.0	15.0	7.0	12.0	15.0	12.0	8.0	10.0	10.0	40.0	0.5	0.5	0.2	7.0	60.0	
CC-H94	T2	0	0	0	0	0	0	1	1	4	28	39	2255	8.0	0.0	15.0	7.0	12.0	15.0	12.0	8.0	10.0	10.0	40.0	1.5	0.5	0.2	8.0	70.0	
CC-H94	T3	0	0	0	0	0	0	1	1	4	28	39	2255	8.0	0.0	15.0	7.0	12.0	15.0	12.0	8.0	10.0	10.0	40.0	2.0	0.5	0.2	7.0	80.0	
CC-H94	CUM	0	0	0	0	0	0	1	1	4	28	39	2255	8.0	0.0	15.0	7.0	12.0	15.0	12.0	8.0	10.0	10.0	40.0	1.3	0.5	0.2	7.3	70.0	
DLC-DLM	T1	0	0	0	0	0	0	1	1	5	14	29	537	18.0	16.0	18.0	16.0	19.0	20.0	18.0	18.0	18.0	19.0	40.0	6.0	1.0	0.3	14.0	70.0	
DLC-DLM	T2	0	0	0	0	0	0	1	1	5	14	29	537	18.0	16.0	18.0	16.0	19.0	20.0	18.0	18.0	18.0	19.0	40.0	7.0	2.5	0.5	14.0	75.0	
DLC-DLM	T3	0	0	0	0	0	0	1	1	5	14	29	537	18.0	16.0	18.0	16.0	19.0	20.0	18.0	18.0	18.0	19.0	40.0	6.0	2.0	0.3	27.0	90.0	
DLC-DLM	CUM	0	0	0	0	0	0	1	1	5	14	29	537	18.0	16.0	18.0	16.0	19.0	20.0	18.0	18.0	18.0	19.0	40.0	6.3	1.8	0.4	18.3	78.3	
JC-OLR	T1	0	0	0	0	0	0	1	1	4	32	47	521	16.0	19.0	5.0	16.0	20.0	20.0	0.0	14.0	20.0	15.0	10.0		3.0	0.3	50.0	0.0	
JC-OLR	T2	0	0	0	0	0	0	1	1	4	32	47	521	16.0	19.0	5.0	16.0	20.0	20.0	0.0	14.0	20.0	15.0	10.0		3.0	0.9	45.0	0.0	
JC-OLR	T3	0	0	0	0	0	0	1	1	4	32	47	521	16.0	19.0	5.0	16.0	20.0	20.0	0.0	14.0	20.0	15.0	10.0		3.0	0.5	38.0	0.0	
JC-OLR	CUM	0	0	0	0	0	0	1	1	4	32	47	521	16.0	19.0	5.0	16.0	20.0	20.0	0.0	14.0	20.0	15.0	10.0		3.0	0.6	44.3	0.0	
LPC-CTT	T1	0	0	0	0	0	0	1	1	5	10	9	3153	9.0	10.0	11.0	6.0	18.0	20.0	15.0	8.0	8.0	14.0	20.0	2.5	0.5	0.2	16.0	70.0	
LPC-CTT	T2	0	0	0	0	0	0	1	1	5	10	9	3153	9.0	10.0	11.0	6.0	18.0	20.0	15.0	8.0	8.0	14.0	20.0	1.5	0.3	0.2	13.0	10.0	
LPC-CTT	T3	0	0	0	0	0	0	1	1	5	10	9	3153	9.0	10.0	11.0	6.0	18.0	20.0	15.0	8.0	8.0	14.0	20.0	2.0	1.0	0.1	15.0	70.0	
LPC-CTT	CUM	0	0	0	0	0	0	1	1	5	10	9	3153	9.0	10.0	11.0	6.0	18.0	20.0	15.0	8.0	8.0	14.0	20.0	2.0	0.6	0.2	14.7	50.0	
SMR-SMB	T1	1	0	0	1	0	0	0	0	2	54	74	10	4.0	0.0	9.0	4.0	4.0	17.0	7.0	10.0	14.0	14.0		16.0	4.0	0.2	11.0	5.0	
SMR-SMB	T2	1	0	0	1	0	0	0	0	2	54	74	10	6.0	0.0	9.0	4.0	5.0	17.0	7.0	10.0	14.0	15.0		11.0	5.0	0.3	23.0	5.0	
SMR-SMB	T3	1	0	0	1	0	0	0	0	2	54	74	10	6.0	0.0	9.0	4.0	4.0	17.0	7.0	10.0	15.0	16.0			4.0	0.3	20.0	5.0	
SMR-SMB	CUM	1	0	0	1	0	0	0	0	2	54	74	10	5.3	0.0	9.0	4.0	4.3	17.0	7.0	10.0	14.3	15.0			13.5	4.3	0.3	18.0	5.0
ATC-TC	T1	0	0	0	0	0	0	0	1	4	19	36	1339	17.0	11.0	10.0	15.0	20.0	18.0	19.0	17.0	16.0	19.0	38.0	2.0	0.5			15.0	
ATC-TC	T2	0	0	0	0	0	0	0	1	4	19	36	1339	17.0	11.0	10.0	15.0	20.0	18.0	19.0	17.0	16.0	19.0	38.0	3.0	1.0			15.0	
ATC-TC	T3	0	0	0	0	0	0	0	1	4	19	36	1339	17.0	11.0	10.0	15.0	20.0	18.0	19.0	17.0	16.0	19.0	38.0	7.0	2.5			15.0	
ATC-TC	CUM	0	0	0	0	0	0	0	1	4	19	36	1339	17.0	11.0	10.0	15.0	20.0	18.0	19.0	17.0	16.0	19.0	38.0	4.0	1.3			15.0	
BC-BCR	T1	0	0	0	0	0	0	0	1	5	10	24	2646	17.0	11.0	10.0	16.0	18.0	20.0	18.0	16.0	16.0	20.0	15.0	2.0	1.0	0.2	16.0	5.0	
BC-BCR	T2	0	0	0	0	0	0	0	1	5	10	24	2646	17.0	11.0	10.0	16.0	18.0	20.0	18.0	16.0	16.0	20.0	15.0	2.0	0.5	0.2	12.0	0.0	
BC-BCR	T3	0	0	0	0	0	0	0	1	5	10	24	2646	17.0	11.0	10.0	16.0	18.0	20.0	18.0	16.0	16.0	20.0	15.0	1.5	1.5	0.1	15.0	3.0	
BC-BCR	CUM	0	0	0	0	0	0	0	1	5	10	24	2646	17.0	11.0	10.0	16.0	18.0	20.0	18.0	16.0	16.0	20.0	15.0	1.8	1.0	0.2	14.3	2.7	
BCC-BCT	T1	0	0	0	0	0	0	0	1	4	19	35	500	5.0	15.0	4.0	14.0	8.0	20.0	4.0	14.0	13.0	18.0	50.0	9.0	3.0	0.2	6.0	5.0	
BCC-BCT	T2	0	0	0	0	0	0	0	1	4	19	35	500	5.0	15.0	4.0	14.0	8.0	20.0	4.0	14.0	13.0	18.0	50.0	4.0	1.0	0.2	8.0	0.0	
BCC-BCT	T3	0	0	0	0	0	0	0	1	4	19	35	500	5.0	15.0	4.0	14.0	8.0	20.0	4.0	14.0	13.0	18.0	50.0	2.0	3.0	0.2	3.0	0.0	
BCC-BCT	CUM	0	0	0	0	0	0	0	1	4	19	35	500	5.0	15.0	4.0	14.0	8.0	20.0	4.0	14.0	13.0	18.0	50.0	5.0	2.3	0.2	5.7	1.7	
BCC-SRT	T1	0	0	0	0	0	0	0	1	4	19	32	509	7.0	15.0	10.0	17.0	17.0	20.0	18.0	18.0	15.0	19.0	20.0	6.5	2.0	0.2	5.0	0.0	
BCC-SRT	T2	0	0	0	0	0	0	0	1	4	19	32	509	7.0	15.0	10.0	17.0	17.0	20.0	18.0	18.0	15.0	19.0	20.0	4.0	1.5	0.3	5.0	10.0	
BCC-SRT	T3	0	0	0	0	0	0	0	1	4	19	32	509	7.0	15.0	10.0	17.0	17.0	20.0	18.0	18.0	15.0	19.0	20.0	1.5	1.5	0.3	3.0	50.0	
BCC-SRT	CUM	0	0	0	0	0	0	0	1	4	19	32	509	7.0	15.0	10.0	17.0	17.0	20.0	18.0	18.0	15.0	19.0	20.0	4.0	1.7	0.3	4.3	20.0	
BCN-1	T1	0	0	0	0	0	0	0	1	5	1	17	939	6.0	7.0	6.0	17.0	18.0	20.0	6.0	18.0	18.0	19.0	25.0	1.5	0.5	0.3	4.0	50.0	
BCN-1	T2	0	0	0	0	0	0	0	1	5	1	17	939	6.0	7.0	6.0	17.0	18.0	20.0	6.0	18.0	18.0	19.0	25.0	1.0	0.5	0.2	3.0	90.0	
BCN-1	T3	0	0	0	0	0	0	0	1	5	1	17	939	6.0	7.0	6.0	17.0	18.0	20.0	6.0	18.0	18.0	19.0	25.0	3.0	0.5	0.3	3.0	90.0	
BCN-1	CUM	0	0	0	0	0	0	0	1	5	1	17	939	6.0	7.0	6.0	17.0	18.0	20.0	6.0	18.0	18.0	19.0	25.0	1.8	0.5	0.2	3.3	76.7	
BCN-2	T1	0	0	0	0	0	0	0	1	5	1	16	735	4.0	2.0	9.0	7.0	18.0	20.0	14.0	14.0	15.0	20.0	25.0	3.0	0.5	0.2	6.0	80.0	

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
BCN-2	T2	0	0	0	0	0	0	0	1	5	1	16	735	4.0	2.0	9.0	7.0	18.0	20.0	14.0	14.0	15.0	20.0	25.0	2.5	0.5	0.2	6.0	90.0
BCN-2	T3	0	0	0	0	0	0	0	1	5	1	16	735	4.0	2.0	9.0	7.0	18.0	20.0	14.0	14.0	15.0	20.0	25.0	2.0	0.5	0.2	6.0	70.0
BCN-2	CUM	0	0	0	0	0	0	0	1	5	1	16	735	4.0	2.0	9.0	7.0	18.0	20.0	14.0	14.0	15.0	20.0	25.0	2.5	0.5	0.2	6.0	80.0
BMC-CG	T1	0	0	0	0	0	0	0	1	5	10	28	1670	15.0	10.0	14.0	16.0	18.0	20.0	18.0	18.0	15.0	20.0	40.0	2.5	1.5	0.2	6.0	95.0
BMC-CG	T2	0	0	0	0	0	0	0	1	5	10	28	1670	15.0	10.0	14.0	16.0	18.0	20.0	18.0	18.0	15.0	20.0	40.0	2.5	2.0	0.3	5.0	85.0
BMC-CG	T3	0	0	0	0	0	0	0	1	5	10	28	1670	15.0	10.0	14.0	16.0	18.0	20.0	18.0	18.0	15.0	20.0	40.0	3.0	0.5	0.3	8.0	60.0
BMC-CG	CUM	0	0	0	0	0	0	0	1	5	10	28	1670	15.0	10.0	14.0	16.0	18.0	20.0	18.0	18.0	15.0	20.0	40.0	2.7	1.3	0.2	6.3	80.0
CC-CCR	T1	0	0	0	0	0	0	0	1	5	1	7	1741	16.0	14.0	15.0	19.0	18.0	20.0	16.0	19.0	5.0	20.0	40.0	3.0	0.5	0.1	5.0	90.0
CC-CCR	T2	0	0	0	0	0	0	0	1	5	1	7	1741	16.0	14.0	15.0	19.0	18.0	20.0	16.0	19.0	5.0	20.0	40.0	3.0	0.5	0.1	5.0	100.0
CC-CCR	T3	0	0	0	0	0	0	0	1	5	1	7	1741	16.0	14.0	15.0	19.0	18.0	20.0	16.0	19.0	5.0	20.0	40.0	3.0	0.5	0.2	10.0	90.0
CC-CCR	CUM	0	0	0	0	0	0	0	1	5	1	7	1741	16.0	14.0	15.0	19.0	18.0	20.0	16.0	19.0	5.0	20.0	40.0	3.0	0.5	0.1	6.7	93.3
CC-CSP	T1	0	0	0	0	0	0	0	1	5	1	4	4256	13.0	18.0	9.0	19.0	7.0	20.0	15.0	17.0	16.0	8.0	30.0	4.0	0.5	0.2	4.0	50.0
CC-CSP	T2	0	0	0	0	0	0	0	1	5	1	4	4256	13.0	18.0	9.0	19.0	7.0	20.0	15.0	17.0	16.0	8.0	30.0	3.0	1.0	0.2	4.0	60.0
CC-CSP	T3	0	0	0	0	0	0	0	1	5	1	4	4256	13.0	18.0	9.0	19.0	7.0	20.0	15.0	17.0	16.0	8.0	30.0	3.0	1.0	0.2	3.0	80.0
CC-CSP	CUM	0	0	0	0	0	0	0	1	5	1	4	4256	13.0	18.0	9.0	19.0	7.0	20.0	15.0	17.0	16.0	8.0	30.0	3.3	0.8	0.2	3.7	63.3
CON-ECR	T1	0	0	0	0	0	0	0	1	5	1	2	843	15.0	11.0	13.0	15.0	10.0	20.0	17.0	20.0	14.0	20.0		3.0	2.0			0.0
CON-ECR	T2	0	0	0	0	0	0	0	1	5	1	2	843	15.0	11.0	13.0	15.0	10.0	20.0	17.0	20.0	14.0	20.0		4.0	1.0			0.0
CON-ECR	T3	0	0	0	0	0	0	0	1	5	1	2	843	15.0	11.0	13.0	15.0	10.0	20.0	17.0	20.0	14.0	20.0		6.0	3.0			0.0
CON-ECR	CUM	0	0	0	0	0	0	0	1	5	1	2	843	15.0	11.0	13.0	15.0	10.0	20.0	17.0	20.0	14.0	20.0		4.3	2.0			0.0
DCC-DC	T1	0	0	0	0	0	0	0	1	5	1	12	435	8.0	18.0	13.0	17.0	10.0	20.0	15.0	18.0	11.0	20.0	40.0	1.0	1.5	0.3	6.0	0.0
DCC-DC	T2	0	0	0	0	0	0	0	1	5	1	12	435	8.0	18.0	13.0	17.0	10.0	20.0	15.0	18.0	11.0	20.0	40.0	1.0	1.5	0.3	6.0	0.0
DCC-DC	T3	0	0	0	0	0	0	0	1	5	1	12	435	8.0	18.0	13.0	17.0	10.0	20.0	15.0	18.0	11.0	20.0	40.0	2.5	1.5	0.3	8.0	5.0
DCC-DC	CUM	0	0	0	0	0	0	0	1	5	1	12	435	8.0	18.0	13.0	17.0	10.0	20.0	15.0	18.0	11.0	20.0	40.0	1.5	1.5	0.3	6.7	1.7
EC-HG	T1	0	0	0	0	0	0	1	0				384	10.0	8.0	15.0	8.0	19.0	20.0	12.0	17.0	17.0	19.0	70.0	11.5	5.1	0.5	9.0	60.0
EC-HG	T2	0	0	0	0	0	0	1	0				384	10.0	8.0	15.0	8.0	19.0	20.0	12.0	17.0	15.0	20.0	70.0	11.0	3.1	0.5	9.0	70.0
EC-HG	T3	0	0	0	0	0	0	1	0				384	10.0	8.0	15.0	6.0	19.0	20.0	12.0	17.0	17.0	20.0	70.0	14.0	5.0	0.4	9.0	50.0
EC-HG	CUM	0	0	0	0	0	0	1	0				384	10.0	8.0	15.0	7.3	19.0	20.0	12.0	17.0	16.3	19.7	70.0	12.2	4.4	0.5	9.0	60.0
EC-RSFR	T1	1	0	0	0	0	0	0	0	3	48	81	33	2.0	2.0	5.0	2.0	1.0	18.0	5.0	16.0	14.0	17.0	100.0			0.5	15.0	10.0
EC-RSFR	T2	1	0	0	0	0	0	0	0	3	48	81	33	2.0	2.0	5.0	2.0	1.0	18.0	5.0	18.0	18.0	17.0	100.0			0.1	5.0	10.0
EC-RSFR	T3	1	0	0	0	0	0	0	0	3	48	81	33	2.0	2.0	5.0	2.0	1.0	18.0	5.0	18.0	16.0	20.0	100.0			0.4	11.0	10.0
EC-RSFR	CUM	1	0	0	0	0	0	0	0	3	48	81	33	2.0	2.0	5.0	2.0	1.0	18.0	5.0	17.3	16.0	18.0	100.0			0.3	10.3	10.0
ENC-RSFR	T1	0	0	0	0	0	1	0	0				115	1.0	0.0	10.0	0.0	10.0	2.0	0.0	18.0	18.0	5.0						
ENC-RSFR	T2	0	0	0	0	0	1	0	0				115	1.0	0.0	10.0	0.0	10.0	2.0	0.0	18.0	18.0	5.0						
ENC-RSFR	T3	0	0	0	0	0	1	0	0				115	1.0	0.0	10.0	0.0	10.0	2.0	0.0	18.0	18.0	5.0						
ENC-RSFR	CUM	0	0	0	0	0	1	0	0				115	1.0	0.0	10.0	0.0	10.0	2.0	0.0	18.0	18.0	5.0						
FC-FCC	T1	0	0	0	0	0	0	0	1	5	1	5	4917	7.0	12.0	10.0	10.0	18.0	15.0	5.0	6.0	5.0	10.0	50.0	2.5	0.5	0.1	3.0	50.0
FC-FCC	T2	0	0	0	0	0	0	0	1	5	1	5	4917	7.0	12.0	10.0	10.0	18.0	15.0	5.0	6.0	5.0	10.0	50.0	2.0	0.5	0.0	3.0	60.0
FC-FCC	T3	0	0	0	0	0	0	0	1	5	1	5	4917	7.0	12.0	10.0	10.0	18.0	15.0	5.0	6.0	5.0	10.0	50.0	2.0	0.3	0.0	3.0	40.0
FC-FCC	CUM	0	0	0	0	0	0	0	1	5	1	5	4917	7.0	12.0	10.0	10.0	18.0	15.0	5.0	6.0	5.0	10.0	50.0	2.2	0.4	0.0	3.0	50.0
FC-PSP	T1	0	0	0	0	0	0	0	1	5	1	6	4503	19.0	16.0	12.0	16.0	20.0	20.0	14.0	18.0	6.0	20.0	50.0	2.0	0.5	0.2	6.0	70.0
FC-PSP	T2	0	0	0	0	0	0	0	1	5	1	6	4503	19.0	16.0	12.0	16.0	20.0	20.0	14.0	18.0	6.0	20.0	50.0	3.0	0.5	0.2	7.0	70.0
FC-PSP	T3	0	0	0	0	0	0	0	1	5	1	6	4503	19.0	16.0	12.0	16.0	20.0	20.0	14.0	18.0	6.0	20.0	50.0	2.5	2.0	0.1	7.0	30.0
FC-PSP	CUM	0	0	0	0	0	0	0	1	5	1	6	4503	19.0	16.0	12.0	16.0	20.0	20.0	14.0	18.0	6.0	20.0	50.0	2.5	1.0	0.1	6.7	56.7
GVC-WB	T1	0	0	0	0	0	0	1	0	2	52	84	328	5.0	19.0	10.0	19.0	6.0	18.0	15.0	15.0	5.0	17.0	70.0	16.0	3.5	0.2	13.0	40.0
GVC-WB	T2	0	0	0	0	0	0	1	0	2	52	84	328	5.0	19.0	10.0	19.0	10.0	18.0	15.0	15.0	10.0	17.0	70.0	15.0	3.0	0.6	5.0	30.0

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
GVC-WB	T3	0	0	0	0	0	0	1	0	2	52	84	328	8.0	10.0	10.0	10.0	8.0	20.0	15.0	15.0	10.0	15.0	70.0	10.0	2.0	0.3	9.0	90.0
GVC-WB	CUM	0	0	0	0	0	0	1	0	2	52	84	328	6.0	16.0	10.0	16.0	8.0	18.7	15.0	15.0	8.3	16.3	70.0	13.7	2.8	0.3	9.0	53.3
JAM-GS	T1	0	0	0	0	0	0	0	1	4	28	42	499	16.0	13.0	6.0	16.0	20.0	20.0	0.0	18.0	19.0	14.0	10.0		4.0		25.0	50.0
JAM-GS	T2	0	0	0	0	0	0	0	1	4	28	42	499	16.0	13.0	6.0	16.0	20.0	20.0	0.0	18.0	19.0	14.0	10.0		4.0		35.0	40.0
JAM-GS	T3	0	0	0	0	0	0	0	1	4	28	42	499	16.0	13.0	6.0	16.0	20.0	20.0	0.0	18.0	19.0	14.0	10.0				50.0	80.0
JAM-GS	CUM	0	0	0	0	0	0	0	1	4	28	42	499	16.0	13.0	6.0	16.0	20.0	20.0	0.0	18.0	19.0	14.0	10.0		4.0		36.7	56.7
KC-BCF	T1	0	0	0	0	0	0	0	1	5	10	19	3923	7.0	3.0	12.0	5.0	18.0	20.0	17.0	14.0	18.0	19.0	25.0	3.0	0.5	0.5	6.0	70.0
KC-BCF	T2	0	0	0	0	0	0	0	1	5	10	19	3923	7.0	3.0	12.0	5.0	18.0	20.0	17.0	14.0	18.0	19.0	25.0	2.0	1.0	0.3	9.0	80.0
KC-BCF	T3	0	0	0	0	0	0	0	1	5	10	19	3923	7.0	3.0	12.0	5.0	18.0	20.0	17.0	14.0	18.0	19.0	25.0	4.0	0.5	0.3	9.0	20.0
KC-BCF	CUM	0	0	0	0	0	0	0	1	5	10	19	3923	7.0	3.0	12.0	5.0	18.0	20.0	17.0	14.0	18.0	19.0	25.0	3.0	0.7	0.3	8.0	56.7
KCC-SD	T1	0	0	0	0	0	0	1	0	1	54	85	331	3.0	0.0	15.0	0.0	18.0	18.0	4.0	16.0	18.0	10.0	45.0	2.0	0.5	0.2	9.0	60.0
KCC-SD	T2	0	0	0	0	0	0	1	0	1	54	85	331	3.0	0.0	15.0	0.0	2.0	10.0	4.0	18.0	10.0	5.0	45.0	3.0	0.5	0.1	6.0	90.0
KCC-SD	T3	0	0	0	0	0	0	1	0	1	54	85	331	4.0	4.0	15.0	4.0	2.0	10.0	4.0	18.0	15.0	5.0	45.0	3.0	0.5	0.2	6.0	30.0
KCC-SD	CUM	0	0	0	0	0	0	1	0	1	54	85	331	3.3	1.3	15.0	1.3	7.3	12.7	4.0	17.3	14.3	6.7	45.0	2.7	0.5	0.2	7.0	60.0
KC-KCR	T1	0	0	0	0	0	0	0	1	5	10	18	4281	3.0	1.0	11.0	3.0	18.0	18.0	16.0	12.0	14.0	18.0	40.0	7.0	1.0	0.1	8.0	70.0
KC-KCR	T2	0	0	0	0	0	0	0	1	5	10	18	4281	3.0	1.0	11.0	3.0	18.0	18.0	16.0	12.0	14.0	18.0	40.0	1.5	1.0	0.2	5.0	85.0
KC-KCR	T3	0	0	0	0	0	0	0	1	5	10	18	4281	3.0	1.0	11.0	3.0	18.0	18.0	16.0	12.0	14.0	18.0	40.0	6.0	0.5	0.1	10.0	40.0
KC-KCR	CUM	0	0	0	0	0	0	0	1	5	10	18	4281	3.0	1.0	11.0	3.0	18.0	18.0	16.0	12.0	14.0	18.0	40.0	4.8	0.8	0.2	7.7	65.0
LCC-CFC	T1	0	0	0	0	0	0	0	1	5	10	22	4165	8.0	1.0	15.0	18.0	18.0	20.0	18.0	18.0	10.0	19.0	28.0	6.0	0.5	0.5	6.0	90.0
LCC-CFC	T2	0	0	0	0	0	0	0	1	5	10	22	4165	8.0	1.0	15.0	18.0	18.0	20.0	18.0	18.0	10.0	19.0	28.0	4.0	0.5	0.4	4.0	80.0
LCC-CFC	T3	0	0	0	0	0	0	0	1	5	10	22	4165	8.0	1.0	15.0	18.0	18.0	20.0	18.0	18.0	10.0	19.0	28.0	5.0	0.5	0.4	6.0	90.0
LCC-CFC	CUM	0	0	0	0	0	0	0	1	5	10	22	4165	8.0	1.0	15.0	18.0	18.0	20.0	18.0	18.0	10.0	19.0	28.0	5.0	0.5	0.4	5.3	86.7
MCC-BML	T1	0	0	0	0	0	0	0	1	5	10	21	1686	7.0	3.0	10.0	3.0	18.0	20.0	18.0	12.0	18.0	19.0	30.0	3.0	2.0	0.5	21.0	60.0
MCC-BML	T2	0	0	0	0	0	0	0	1	5	10	21	1686	7.0	3.0	10.0	3.0	18.0	20.0	18.0	12.0	18.0	19.0	30.0	2.0	2.5	0.1	8.0	85.0
MCC-BML	T3	0	0	0	0	0	0	0	1	5	10	21	1686	7.0	3.0	10.0	3.0	18.0	20.0	18.0	12.0	18.0	19.0	30.0	2.0	1.5	0.7	8.0	90.0
MCC-BML	CUM	0	0	0	0	0	0	0	1	5	10	21	1686	7.0	3.0	10.0	3.0	18.0	20.0	18.0	12.0	18.0	19.0	30.0	2.3	2.0	0.4	12.3	78.3
MC-WB	T1	1	0	0	0	0	0	0	0	1	54	88	1136	1.0	1.0	5.0	1.0	6.0	17.0	5.0	11.0	11.0	18.0	20.0			0.4	3.0	20.0
MC-WB	T2	1	0	0	0	0	0	0	0	1	54	88	1136	1.0	1.0	5.0	1.0	6.0	17.0	5.0	11.0	11.0	18.0	20.0			0.4	3.0	20.0
MC-WB	T3	1	0	0	0	0	0	0	0	1	54	88	1136	1.0	1.0	5.0	1.0	6.0	15.0	5.0	10.0	11.0	17.0	20.0			0.4	3.0	20.0
MC-WB	CUM	1	0	0	0	0	0	0	0	1	54	88	1136	1.0	1.0	5.0	1.0	6.0	16.3	5.0	10.7	11.0	17.7	20.0			0.4	3.0	20.0
NC-PCR	T1	0	0	0	0	0	0	0	1	5	10	23	3774	15.0	12.0	14.0	18.0	18.0	20.0	18.0	18.0	16.0	19.0	30.0	2.5	0.5	0.3	5.0	95.0
NC-PCR	T2	0	0	0	0	0	0	0	1	5	10	23	3774	15.0	12.0	14.0	18.0	18.0	20.0	18.0	18.0	16.0	19.0	30.0	1.5	0.5	0.3	5.0	70.0
NC-PCR	T3	0	0	0	0	0	0	0	1	5	10	23	3774	15.0	12.0	14.0	18.0	18.0	20.0	18.0	18.0	16.0	19.0	30.0	4.0	1.0	0.2	6.0	3.0
NC-PCR	CUM	0	0	0	0	0	0	0	1	5	10	23	3774	15.0	12.0	14.0	18.0	18.0	20.0	18.0	18.0	16.0	19.0	30.0	2.7	0.7	0.2	5.3	56.0
NPC-NC	T1	0	0	0	0	0	0	0	1	4	28	31	3760	14.0	10.0	12.0	12.0	18.0	20.0	15.0	9.0	12.0	18.0	20.0	3.0	0.5	0.3	5.0	40.0
NPC-NC	T2	0	0	0	0	0	0	0	1	4	28	31	3760	14.0	10.0	12.0	12.0	18.0	20.0	15.0	9.0	12.0	18.0	20.0	4.0	1.0	0.2	4.0	60.0
NPC-NC	T3	0	0	0	0	0	0	0	1	4	28	31	3760	14.0	10.0	12.0	12.0	18.0	20.0	15.0	9.0	12.0	18.0	20.0	2.5	1.0	0.2	6.0	50.0
NPC-NC	CUM	0	0	0	0	0	0	0	1	4	28	31	3760	14.0	10.0	12.0	12.0	18.0	20.0	15.0	9.0	12.0	18.0	20.0	3.2	0.8	0.2	5.0	50.0
PC-PMP	T1	0	0	0	0	0	0	1	0	5	1	1	4449	17.0	4.0	15.0	4.0	12.0	20.0	15.0	18.0	15.0	20.0	65.0	5.0	1.5	0.1	5.0	60.0
PC-PMP	T2	0	0	0	0	0	0	1	0	5	1	1	4449	17.0	6.0	15.0	8.0	10.0	20.0	15.0	18.0	17.0	19.0	65.0	5.5	1.5	0.2	5.0	70.0
PC-PMP	T3	0	0	0	0	0	0	1	0	5	1	1	4449	17.0	6.0	15.0	8.0	17.0	20.0	15.0	18.0	18.0	18.0	65.0	1.5	1.5	0.1	6.0	70.0
PC-PMP	CUM	0	0	0	0	0	0	1	0	5	1	1	4449	17.0	5.3	15.0	6.7	13.0	20.0	15.0	18.0	16.7	19.0	65.0	4.0	1.5	0.2	5.3	66.7
ROB-DLZ	T1	0	0	0	0	0	0	0	1	5	1	3	223	9.0	12.0	9.0	17.0	12.0	20.0	16.0	15.0	11.0	20.0	30.0	5.0	1.0	0.2	4.0	0.0
ROB-DLZ	T2	0	0	0	0	0	0	0	1	5	1	3	223	9.0	12.0	9.0	17.0	12.0	20.0	16.0	15.0	11.0	20.0	30.0	3.0	1.5	0.3	3.0	0.0
ROB-DLZ	T3	0	0	0	0	0	0	0	1	5	1	3	223	9.0	12.0	9.0	17.0	12.0	20.0	16.0	15.0	11.0	20.0	30.0	9.5	2.0	0.2	4.0	5.0

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFLE LENGTH	RIFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
ROB-DLZ	CUM	0	0	0	0	0	0	0	1	5	1	3	223	9.0	12.0	9.0	17.0	12.0	20.0	16.0	15.0	11.0	20.0	30.0	5.8	1.5	0.2	3.7	1.7
SC-AS	T1	0	0	0	0	0	0	0	1	4	28	37	1487	7.0	17.0	13.0	17.0	20.0	18.0	18.0	16.0	15.0	16.0	10.0	5.0	0.5	0.2	12.0	80.0
SC-AS	T2	0	0	0	0	0	0	0	1	4	28	37	1487	7.0	17.0	13.0	17.0	20.0	18.0	18.0	16.0	15.0	16.0	10.0	3.0	1.0	0.5	10.0	90.0
SC-AS	T3	0	0	0	0	0	0	0	1	4	28	37	1487	7.0	17.0	13.0	17.0	20.0	18.0	18.0	16.0	15.0	16.0	10.0	2.0	1.0	0.5	8.0	90.0
SC-AS	CUM	0	0	0	0	0	0	0	1	4	28	37	1487	7.0	17.0	13.0	17.0	20.0	18.0	18.0	16.0	15.0	16.0	10.0	3.3	0.8	0.4	10.0	86.7
SC-LCR	T1	0	0	0	0	0	0	0	1	4	32	46	1193	16.0	12.0	10.0	16.0	20.0	18.0	18.0	13.0	11.0	15.0	15.0	3.0	1.0	0.3	10.0	40.0
SC-LCR	T2	0	0	0	0	0	0	0	1	4	32	46	1193	16.0	12.0	10.0	16.0	20.0	18.0	18.0	13.0	11.0	15.0	15.0	2.0	0.5	0.5	8.0	10.0
SC-LCR	T3	0	0	0	0	0	0	0	1	4	32	46	1193	16.0	12.0	10.0	16.0	20.0	18.0	18.0	13.0	11.0	15.0	15.0	2.0	1.5	0.3	10.0	0.0
SC-LCR	CUM	0	0	0	0	0	0	0	1	4	32	46	1193	16.0	12.0	10.0	16.0	20.0	18.0	18.0	13.0	11.0	15.0	15.0	2.3	1.0	0.4	9.3	16.7
SMC-DC	T1	0	0	0	0	0	0	0	1	5	1	8	433	17.0	18.0	17.0	19.0	16.0	20.0	17.0	19.0	19.0	20.0	40.0	6.0	3.0	0.3	8.0	0.0
SMC-DC	T2	0	0	0	0	0	0	0	1	5	1	8	433	17.0	18.0	17.0	19.0	16.0	20.0	17.0	19.0	19.0	20.0	40.0	3.0	0.5	0.5	4.0	0.0
SMC-DC	T3	0	0	0	0	0	0	0	1	5	1	8	433	17.0	18.0	17.0	19.0	16.0	20.0	17.0	19.0	19.0	20.0	40.0	3.0	2.0	0.3	4.0	5.0
SMC-DC	CUM	0	0	0	0	0	0	0	1	5	1	8	433	17.0	18.0	17.0	19.0	16.0	20.0	17.0	19.0	19.0	20.0	40.0	4.0	1.8	0.3	5.3	1.7
SMC-SMC	T1	0	0	0	0	0	0	0	1	5	1	10	1291	12.0	10.0	15.0	10.0	18.0	18.0	14.0	17.0	16.0	19.0	50.0	1.5	1.0	0.3	10.0	40.0
SMC-SMC	T2	0	0	0	0	0	0	0	1	5	1	10	1291	12.0	10.0	15.0	10.0	18.0	18.0	14.0	17.0	16.0	19.0	50.0	1.5	1.0	0.2	9.0	0.0
SMC-SMC	T3	0	0	0	0	0	0	0	1	5	1	10	1291	12.0	10.0	15.0	10.0	18.0	18.0	14.0	17.0	16.0	19.0	50.0	3.0	1.0	0.3	10.0	60.0
SMC-SMC	CUM	0	0	0	0	0	0	0	1	5	1	10	1291	12.0	10.0	15.0	10.0	18.0	18.0	14.0	17.0	16.0	19.0	50.0	2.0	1.0	0.2	9.7	33.3
SMC-SMR	T1	0	0	0	0	0	0	0	1	5	5	27	168	7.0	17.0	8.0	18.0	8.0	20.0	16.0	12.0	10.0	20.0	25.0	5.0	1.0	0.4	7.0	0.0
SMC-SMR	T2	0	0	0	0	0	0	0	1	5	5	27	168	7.0	17.0	8.0	18.0	8.0	20.0	16.0	12.0	10.0	20.0	25.0	3.0	3.0	0.2	6.0	5.0
SMC-SMR	T3	0	0	0	0	0	0	0	1	5	5	27	168	7.0	17.0	8.0	18.0	8.0	20.0	16.0	12.0	10.0	20.0	25.0	3.0	1.5	0.1	9.0	10.0
SMC-SMR	CUM	0	0	0	0	0	0	0	1	5	5	27	168	7.0	17.0	8.0	18.0	8.0	20.0	16.0	12.0	10.0	20.0	25.0	3.7	1.8	0.2	7.3	5.0
SMR-DLR	T1	0	0	0	0	0	0	0	1				280	10.0	0.0	12.0	1.0	18.0	20.0	18.0	18.0	16.0	18.0	100.0	5.0	2.0	0.3	8.0	0.0
SMR-DLR	T2	0	0	0	0	0	0	0	1				280	10.0	0.0	12.0	1.0	18.0	20.0	18.0	18.0	16.0	18.0	100.0	3.0	10.0	0.4	7.0	0.0
SMR-DLR	T3	0	0	0	0	0	0	0	1				280	10.0	0.0	12.0	1.0	18.0	20.0	18.0	18.0	16.0	18.0	100.0	4.0	10.0	0.5	15.0	0.0
SMR-DLR	CUM	0	0	0	0	0	0	0	1				280	10.0	0.0	12.0	1.0	18.0	20.0	18.0	18.0	16.0	18.0	100.0	4.0	7.3	0.4	10.0	0.0
SV-WCR	T1	0	0	0	0	0	0	1	0	3	46	52	1258	10.0	10.0	10.0	14.0	10.0	20.0	18.0	17.0	7.0	18.0	20.0	5.0	1.0	0.3	6.0	90.0
SV-WCR	T2	0	0	0	0	0	0	1	0	3	46	52	1258	10.0	10.0	10.0	14.0	12.0	20.0	18.0	17.0	8.0	18.0	20.0	3.0	2.0	0.3	5.0	90.0
SV-WCR	T3	0	0	0	0	0	0	1	0	3	46	52	1258	10.0	10.0	10.0	14.0	10.0	20.0	18.0	17.0	10.0	15.0	20.0	4.0	2.0	0.3	5.0	90.0
SV-WCR	CUM	0	0	0	0	0	0	1	0	3	46	52	1258	10.0	10.0	10.0	14.0	10.7	20.0	18.0	17.0	8.3	17.0	20.0	4.0	1.7	0.3	5.3	90.0
SWR-CSPD	T1	0	0	0	0	0	0	0	1				3963	15.0	6.0	12.0	6.0	18.0	20.0	12.0	18.0	5.0	19.0	35.0	4.0	1.5	0.5	9.0	30.0
SWR-CSPD	T2	0	0	0	0	0	0	0	1				3963	15.0	6.0	12.0	6.0	18.0	20.0	12.0	18.0	5.0	19.0	35.0	2.0	1.0	0.2	15.0	80.0
SWR-CSPD	T3	0	0	0	0	0	0	0	1				3963	15.0	6.0	12.0	6.0	18.0	20.0	12.0	18.0	5.0	19.0	35.0	1.0	0.5	0.3	17.0	80.0
SWR-CSPD	CUM	0	0	0	0	0	0	0	1				3963	15.0	6.0	12.0	6.0	18.0	20.0	12.0	18.0	5.0	19.0	35.0	2.3	1.0	0.3	13.7	63.3
SWR-CSPU	T1	0	0	0	0	0	0	0	1				3996	16.0	16.0	8.0	15.0	16.0	20.0	15.0	18.0	19.0	17.0	40.0	2.0	2.0	0.2	4.0	5.0
SWR-CSPU	T2	0	0	0	0	0	0	0	1				3996	16.0	16.0	8.0	15.0	16.0	20.0	15.0	18.0	19.0	17.0	40.0	2.0	1.0	0.2	5.0	75.0
SWR-CSPU	T3	0	0	0	0	0	0	0	1				3996	16.0	16.0	8.0	15.0	16.0	20.0	15.0	18.0	19.0	17.0	40.0	7.0	1.0	0.3	5.0	75.0
SWR-CSPU	CUM	0	0	0	0	0	0	0	1				3996	16.0	16.0	8.0	15.0	16.0	20.0	15.0	18.0	19.0	17.0	40.0	3.7	1.3	0.2	4.7	51.7
SYC-NT	T1	0	0	0	0	0	0	0	1	4	28	38	520	6.0	1.0	7.0	5.0	9.0	14.0	7.0	18.0	19.0	19.0	50.0	1.0	1.0			20.0
SYC-NT	T2	0	0	0	0	0	0	0	1	4	28	38	520	6.0	1.0	7.0	5.0	9.0	14.0	7.0	18.0	19.0	19.0	50.0	4.0	1.0			20.0
SYC-NT	T3	0	0	0	0	0	0	0	1	4	28	38	520	6.0	1.0	7.0	5.0	9.0	14.0	7.0	18.0	19.0	19.0	50.0	2.5	0.5			40.0
SYC-NT	CUM	0	0	0	0	0	0	0	1	4	28	38	520	6.0	1.0	7.0	5.0	9.0	14.0	7.0	18.0	19.0	19.0	50.0	2.5	0.8			26.7
WC-2MM	T1	0	0	0	0	0	0	0	1	3	37	54	284	2.0	2.0	9.0	5.0	8.0	20.0	16.0	17.0	18.0	19.0	35.0	4.0	2.0	0.3	3.0	100.0
WC-2MM	T2	0	0	0	0	0	0	0	1	3	37	54	284	2.0	2.0	9.0	5.0	8.0	20.0	16.0	17.0	18.0	19.0	35.0	5.0	0.5	0.4	3.0	70.0
WC-2MM	T3	0	0	0	0	0	0	0	1	3	37	54	284	2.0	2.0	9.0	5.0	8.0	20.0	16.0	17.0	18.0	19.0	35.0	3.0	1.0	0.5	2.0	60.0
WC-2MM	CUM	0	0	0	0	0	0	0	1	3	37	54	284	2.0	2.0	9.0	5.0	8.0	20.0	16.0	17.0	18.0	19.0	35.0	4.0	1.2	0.4	2.7	76.7

Site Code	Replicate	May-98	Sep-98	Nov-98	May-99	Nov-99	May-00	Nov-00	May-01	CATEGORY	GIBSON SCORE	RANK	ELEVATION	EPIFAUNAL SUBSTRATE	EMBEDDEDNESS	VELOCITY DEPTH REGIMES	SEDIMENT DEPOSITION	CHANNEL FLOW STATUS	CHANNEL ALTERATION	RIFFLE FREQUENCY	BANK STABILITY	VEGETATIVE PROTECTION	RIPARIAN VEGETATIVE ZONE WIDTH	REACH LENGTH	RIFFLE LENGTH	RIFFLE WIDTH	AVERAGE VELOCITY	AVERAGE DEPTH	CANOPY COVER
WC-CRT	T1	0	0	0	0	0	0	0	1	3	37	56	307	6.0	7.0	9.0	6.0	9.0	17.0	12.0	14.0	14.0	17.0	50.0	5.0	2.5	0.3	2.0	30.0
WC-CRT	T2	0	0	0	0	0	0	0	1	3	37	56	307	6.0	7.0	9.0	6.0	9.0	17.0	12.0	14.0	14.0	17.0	50.0	5.0	0.5	0.3	4.0	20.0
WC-CRT	T3	0	0	0	0	0	0	0	1	3	37	56	307	6.0	7.0	9.0	6.0	9.0	17.0	12.0	14.0	14.0	17.0	50.0	3.0	0.5	0.3	3.0	70.0
WC-CRT	CUM	0	0	0	0	0	0	0	1	3	37	56	307	6.0	7.0	9.0	6.0	9.0	17.0	12.0	14.0	14.0	17.0	50.0	4.3	1.2	0.3	3.0	40.0
WC-EOT	T1	0	0	0	0	0	0	0	1	3	37	58	267	3.0	2.0	9.0	6.0	8.0	18.0	10.0	16.0	15.0	18.0	30.0	3.0	1.5	0.3	4.0	30.0
WC-EOT	T2	0	0	0	0	0	0	0	1	3	37	58	267	3.0	2.0	9.0	6.0	8.0	18.0	10.0	16.0	15.0	18.0	30.0	2.0	0.5	0.4	5.0	80.0
WC-EOT	T3	0	0	0	0	0	0	0	1	3	37	58	267	3.0	2.0	9.0	6.0	8.0	18.0	10.0	16.0	15.0	18.0	30.0	2.0	0.5	0.2	5.0	90.0
WC-EOT	CUM	0	0	0	0	0	0	0	1	3	37	58	267	3.0	2.0	9.0	6.0	8.0	18.0	10.0	16.0	15.0	18.0	30.0	2.3	0.8	0.3	4.7	66.7
WLC-ABL	T1	0	0	0	0	0	0	0	1	4	28	41	1764	6.0	10.0	9.0	17.0	9.0	20.0	17.0	16.0	16.0	19.0	100.0	7.5	1.5			70.0
WLC-ABL	T2	0	0	0	0	0	0	0	1	4	28	41	1764	6.0	10.0	9.0	17.0	9.0	20.0	17.0	16.0	16.0	19.0	100.0	4.0	2.0			40.0
WLC-ABL	T3	0	0	0	0	0	0	0	1	4	28	41	1764	6.0	10.0	9.0	17.0	9.0	20.0	17.0	16.0	16.0	19.0	100.0	2.0	0.5			50.0
WLC-ABL	CUM	0	0	0	0	0	0	0	1	4	28	41	1764	6.0	10.0	9.0	17.0	9.0	20.0	17.0	16.0	16.0	19.0	100.0	4.5	1.3			53.3

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 Sep-98 39
 Nov-98 39
 May-99 40
 Nov-99 35
 May-00 32
 Nov-00 40
 May-01 54

¹ Substrate Consolidation: low=16, med=10, high=4

Site Code	Replicate	RIFFLE COMPLEXITY	RIFFLE EMBEDDEDNESS	SUBSTRATE CONSOLIDATION ¹	% FINES	% GRAVEL	% COBBLE	% BOULDER	% BEDROCK	% GRADIENT	SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN	pH	WATER TEMPERATURE	SALINITY	TOTAL ALKALINITY (CaCO ₃ , mg/L)	AMMONIA-NITROGEN (mg/L)	NITRATE-NITROGEN (mg/L)	TOTAL DISSOLVED SOLIDS (mg/L)	ORTHO-PHOSPHATE PHOSPHORUS (mg/L)	TOTAL PHOSPHORUS (mg/L)	Nitrite-Nitrogen (mg/L)	KJELDAHL NITROGEN (mg/L)	Organic Nitrogen (mg/L)	TOTAL NITROGEN (mg/L)	TURBIDITY (NTU)	
CC-ECR	T1	12.0	10.0	15.0	25.0	50.0	20.0	5.0	0.0	3.3	3429.0	9.3	7.6	14.2	1.8												
CC-ECR	T2	13.0	10.0	16.0	30.0	30.0	20.0	20.0	0.0	8.8	3429.0	9.3	7.6	14.2	1.8												
CC-ECR	T3	14.0	12.0	16.0	20.0	35.0	25.0	20.0	0.0	10.0	3429.0	9.3	7.6	14.2	1.8												
CC-ECR	CUM	13.0	10.7	15.7	25.0	38.3	21.7	15.0	0.0	7.4	3429.0	9.3	7.6	14.2	1.8												
CC-H94	T1	0.0	0.0	16.0	100.0	0.0	0.0	0.0	0.0	0.5	1037.0	5.6	8.1	19.1	0.5	380											
CC-H94	T2	2.0	0.0	16.0	85.0	15.0	0.0	0.0	0.0	0.5	1037.0	5.6	8.1	19.1	0.5	380											
CC-H94	T3	1.0	0.0	16.0	95.0	5.0	0.0	0.0	0.0	5.0	1037.0	5.6	8.1	19.1	0.5	380											
CC-H94	CUM	1.0	0.0	16.0	93.3	6.7	0.0	0.0	0.0	2.0	1037.0	5.6	8.1	19.1	0.5	380											
DLC-DLM	T1	8.0	5.0	10.0	30.0	30.0	25.0	15.0	0.0	3.2	1308.0	8.8	8.3	19.2	0.7	210	ND	7	990	ND	ND	0.02	0.5	0.5	7.5	0.44	
DLC-DLM	T2	17.0	17.0	10.0	10.0	10.0	15.0	55.0	10.0	4.4	1308.0	8.8	8.3	19.2	0.7	210	ND	7	990	ND	ND	0.02	0.5	0.5	7.5	0.44	
DLC-DLM	T3	16.0	14.0	10.0	30.0	10.0	30.0	30.0	0.0	1.0	1308.0	8.8	8.3	19.2	0.7	210	ND	7	990	ND	ND	0.02	0.5	0.5	7.5	0.44	
DLC-DLM	CUM	13.7	12.0	10.0	23.3	16.7	23.3	33.3	3.3	2.9	1308.0	8.8	8.3	19.2	0.7	210	ND	7	990	ND	ND	0.02	0.5	0.5	7.5	0.44	
JC-OLR	T1	14.0	19.0	10.0	20.0	0.0	10.0	10.0	50.0	1.0	629.0	9.4	8.5	19.7	0.3	229											
JC-OLR	T2	15.0	19.0	10.0	15.0	0.0	5.0	5.0	75.0	1.0	629.0	9.4	8.5	19.7	0.3	229											
JC-OLR	T3	15.0	19.0	10.0	15.0	0.0	5.0	5.0	75.0	1.0	629.0	9.4	8.5	19.7	0.3	229											
JC-OLR	CUM	14.7	19.0	10.0	16.7	0.0	6.7	6.7	66.7	1.0	629.0	9.4	8.5	19.7	0.3	229											
LPC-CTT	T1	7.0	6.0	16.0	40.0	10.0	10.0	10.0	30.0	4.1	715.0	7.6	7.9	16.0	0.4	205	ND	0.5	430	ND	ND	ND	0.5	0.5	1	0.76	
LPC-CTT	T2	9.0	14.0	16.0	10.0	10.0	10.0	30.0	40.0	18.6	715.0	7.6	7.9	16.0	0.4	205	ND	0.5	430	ND	ND	ND	0.5	0.5	1	0.76	
LPC-CTT	T3	7.0	10.0	16.0	50.0	20.0	10.0	20.0	0.0	3.8	715.0	7.6	7.9	16.0	0.4	205	ND	0.5	430	ND	ND	ND	0.5	0.5	1	0.76	
LPC-CTT	CUM	7.7	10.0	16.0	33.3	13.3	10.0	20.0	23.3	8.8	715.0	7.6	7.9	16.0	0.4	205	ND	0.5	430	ND	ND	ND	0.5	0.5	1	0.76	
SMR-SMB	T1	4.0	1.0	20.0	100.0	0.0	0.0	0.0	0.0	0.8	2720.0	6.3	8.2	16.4	1.4												
SMR-SMB	T2	5.0	1.0	20.0	100.0	0.0	0.0	0.0	0.0	0.5	2720.0	6.3	8.2	16.4	1.4												
SMR-SMB	T3	4.0	1.0	20.0	100.0	0.0	0.0	0.0	0.0		2720.0	6.3	8.2	16.4	1.4												
SMR-SMB	CUM	4.3	1.0	20.0	100.0	0.0	0.0	0.0	0.0	0.7	2720.0	6.3	8.2	16.4	1.4												
ATC-TC	T1	15.0	11.0	10.0	20.0	20.0	40.0	20.0	0.0	1.3	642.0	9.9	8.7	22.1	0.3	232	ND	ND	490	ND	ND	ND	0.4	0.4	0.4	0.32	
ATC-TC	T2	16.0	12.0	10.0	25.0	25.0	20.0	30.0	0.0	9.3	642.0	9.9	8.7	22.1	0.3	232	ND	ND	490	ND	ND	ND	0.4	0.4	0.4	0.32	
ATC-TC	T3	17.0	12.0	10.0	15.0	15.0	40.0	30.0	0.0	4.4	642.0	9.9	8.7	22.1	0.3	232	ND	ND	490	ND	ND	ND	0.4	0.4	0.4	0.32	
ATC-TC	CUM	16.0	11.7	10.0	20.0	20.0	33.3	26.7	0.0	5.0	642.0	9.9	8.7	22.1	0.3	232	ND	ND	490	ND	ND	ND	0.4	0.4	0.4	0.32	
BC-BCR	T1	17.0	12.0	16.0	20.0	30.0	30.0	20.0	0.0	1.0	354.0	5.8	7.6	20.2	0.2	188	ND	ND	220	ND	ND	ND	0.4	0.4	0.4	0.34	
BC-BCR	T2	17.0	12.0	16.0	30.0	20.0	30.0	20.0	0.0	1.0	354.0	5.8	7.6	20.2	0.2	188	ND	ND	220	ND	ND	ND	0.4	0.4	0.4	0.34	
BC-BCR	T3	17.0	12.0	16.0	20.0	30.0	20.0	30.0	0.0	3.0	354.0	5.8	7.6	20.2	0.2	188	ND	ND	220	ND	ND	ND	0.4	0.4	0.4	0.34	
BC-BCR	CUM	17.0	12.0	16.0	23.3	26.7	26.7	23.3	0.0	1.7	354.0	5.8	7.6	20.2	0.2	188	ND	ND	220	ND	ND	ND	0.4	0.4	0.4	0.34	
BCC-BCT	T1	13.0	16.0	10.0	20.0	10.0	30.0	40.0	0.0	6.0	1008.0	3.2	7.6	18.0	0.5		ND	ND	790	ND	ND	ND	0.6	0.6	0.6	0.22	
BCC-BCT	T2	16.0	15.0	16.0	15.0	10.0	60.0	15.0	0.0	1.0	1008.0	3.2	7.6	18.0	0.5		ND	ND	790	ND	ND	ND	0.6	0.6	0.6	0.22	
BCC-BCT	T3	15.0	17.0	16.0	15.0	40.0	40.0	5.0	0.0	0.5	1008.0	3.2	7.6	18.0	0.5		ND	ND	790	ND	ND	ND	0.6	0.6	0.6	0.22	
BCC-BCT	CUM	14.7	16.0	14.0	16.7	20.0	43.3	20.0	0.0	2.5	1008.0	3.2	7.6	18.0	0.5		ND	ND	790	ND	ND	ND	0.6	0.6	0.6	0.22	
BCC-SRT	T1	18.0	15.0	10.0	10.0	20.0	40.0	30.0	0.0	2.0	680.0	6.8	7.6	19.9	0.3	185	ND	ND	770	ND	0.45	ND	0.3	0.3	0.3	1.7	
BCC-SRT	T2	15.0	15.0	10.0	10.0	30.0	50.0	10.0	0.0	2.5	680.0	6.8	7.6	19.9	0.3	185	ND	ND	770	ND	0.45	ND	0.3	0.3	0.3	1.7	
BCC-SRT	T3	12.0	12.0	16.0	45.0	40.0	10.0	5.0	0.0	0.5	680.0	6.8	7.6	19.9	0.3	185	ND	ND	770	ND	0.45	ND	0.3	0.3	0.3	1.7	
BCC-SRT	CUM	15.0	14.0	12.0	21.7	30.0	33.3	15.0	0.0	1.7	680.0	6.8	7.6	19.9	0.3	185	ND	ND	770	ND	0.45	ND	0.3	0.3	0.3	1.7	
BCN-1	T1	11.0	8.0	16.0	35.0	60.0	5.0	0.0	0.0	14.0	997.0	8.7	7.9	20.8	0.5		ND	ND	600	ND	0.06	ND	0.3	0.3	0.3	0.38	
BCN-1	T2	8.0	6.0	16.0	60.0	40.0	0.0	0.0	0.0	20.0	997.0	8.7	7.9	20.8	0.5		ND	ND	600	ND	0.06	ND	0.3	0.3	0.3	0.38	
BCN-1	T3	8.0	8.0	16.0	60.0	35.0	0.0	5.0	0.0	8.6	997.0	8.7	7.9	20.8	0.5		ND	ND	600	ND	0.06	ND	0.3	0.3	0.3	0.38	
BCN-1	CUM	9.0	7.3	16.0	51.7	45.0	1.7	1.7	0.0	14.2	997.0	8.7	7.9	20.8	0.5		ND	ND	600	ND	0.06	ND	0.3	0.3	0.3	0.38	
BCN-2	T1	4.0	4.0	16.0	65.0	30.0	5.0	0.0	0.0	8.6	998.0	4.8	7.6	21.5	0.5		ND	ND	610	ND	ND	ND	0.5	0.5	0.5	2.3	

Site Code	Replicate	RIFFLE COMPLEXITY	RIFFLE EMBEDDEDNESS	SUBSTRATE CONSOLIDATION ¹	% FINES	% GRAVEL	% COBBLE	% BOULDER	% BEDROCK	% GRADIENT	SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN	pH	WATER TEMPERATURE	SALINITY	TOTAL ALKALINITY (CaCO ₃ , mg/L)	AMMONIA-NITROGEN (mg/L)	NITRATE-NITROGEN (mg/L)	TOTAL DISSOLVED SOLIDS (mg/L)	ORTHO-PHOSPHATE PHOSPHORUS (mg/L)	TOTAL PHOSPHORUS (mg/L)	Nitrite-Nitrogen (mg/L)	KJELDAHL NITROGEN (mg/L)	Organic Nitrogen (mg/L)	TOTAL NITROGEN (mg/L)	TURBIDITY (NTU)	
GVC-WB	T3	8.0	10.0	10.0	30.0	20.0	5.0	15.0	30.0	1.0	2046.0	8.4	7.5	14.2	1.1												
GVC-WB	CUM	5.3	16.0	16.7	13.3	11.7	1.7	5.0	68.3	2.1	2046.0	8.4	7.5	14.2	1.1												
JAM-GS	T1	15.0	16.0	10.0	35.0	10.0	50.0	5.0	0.0	1.0						225											
JAM-GS	T2	15.0	16.0	10.0	40.0	10.0	50.0	0.0	0.0	1.0						225											
JAM-GS	T3	9.0	1.0	16.0	80.0	10.0	0.0	0.0	10.0	1.0						225											
JAM-GS	CUM	13.0	11.0	12.0	51.7	10.0	33.3	1.7	3.3	1.0						225											
KC-BCF	T1	6.0	5.0	16.0	60.0	40.0	0.0	0.0	0.0	7.6	422.0	5.5	8.3	22.7	0.2	168											
KC-BCF	T2	5.0	2.0	16.0	70.0	30.0	0.0	0.0	0.0	8.9	422.0	5.5	8.3	22.7	0.2	168											
KC-BCF	T3	5.0	2.0	16.0	70.0	30.0	0.0	0.0	0.0	2.5	422.0	5.5	8.3	22.7	0.2	168											
KC-BCF	CUM	5.3	3.0	16.0	66.7	33.3	0.0	0.0	0.0	6.3	422.0	5.5	8.3	22.7	0.2	168											
KCC-SD	T1	3.0	0.0	18.0	100.0	0.0	0.0	0.0	0.0	11.2	1951.0	5.7	7.4	15.6	1												
KCC-SD	T2	3.0	0.0	18.0	100.0	0.0	0.0	0.0	0.0	11.7	1951.0	5.7	7.4	15.6	1												
KCC-SD	T3	4.0	4.0	18.0	80.0	0.0	0.0	20.0	0.0	5.8	1951.0	5.7	7.4	15.6	1												
KCC-SD	CUM	3.3	1.3	18.0	93.3	0.0	0.0	6.7	0.0	9.6	1951.0	5.7	7.4	15.6	1												
KC-KCR	T1	3.0	1.0	16.0	95.0	0.0	0.0	5.0	0.0	7.6	461.0	5.7	7.6	15.0	0.2												
KC-KCR	T2	3.0	1.0	16.0	70.0	0.0	0.0	30.0	0.0	2.5	461.0	5.7	7.6	15.0	0.2												
KC-KCR	T3	3.0	1.0	16.0	90.0	0.0	0.0	10.0	0.0	4.2	461.0	5.7	7.6	15.0	0.2												
KC-KCR	CUM	3.0	1.0	16.0	85.0	0.0	0.0	15.0	0.0	4.8	461.0	5.7	7.6	15.0	0.2												
LCC-CFC	T1	5.0	1.0	16.0	80.0	0.0	0.0	20.0	0.0	17.3	404.0	6.1	8.1	18.9	0.2	202											
LCC-CFC	T2	5.0	1.0	16.0	95.0	0.0	0.0	5.0	0.0	15.2	404.0	6.1	8.1	18.9	0.2	202											
LCC-CFC	T3	5.0	1.0	16.0	100.0	0.0	0.0	0.0	0.0	10.7	404.0	6.1	8.1	18.9	0.2	202											
LCC-CFC	CUM	5.0	1.0	16.0	91.7	0.0	0.0	8.3	0.0	14.4	404.0	6.1	8.1	18.9	0.2	202											
MCC-BML	T1	3.0	1.0	16.0	95.0	0.0	0.0	5.0	0.0	1.0	677.0	10.8	8.6	13.1	0.3	220	ND	0.9	390	ND	0.08	ND	1.2	1.2	2.2	1.3	
MCC-BML	T2	4.0	5.0	16.0	75.0	5.0	0.0	20.0	0.0	10.2	677.0	10.8	8.6	13.1	0.3	220	ND	0.9	390	ND	0.08	ND	1.2	1.2	2.2	1.3	
MCC-BML	T3	3.0	1.0	16.0	80.0	20.0	0.0	0.0	0.0	2.5	677.0	10.8	8.6	13.1	0.3	220	ND	0.9	390	ND	0.08	ND	1.2	1.2	2.2	1.3	
MCC-BML	CUM	3.3	2.3	16.0	83.3	8.3	0.0	8.3	0.0	4.6	677.0	10.8	8.6	13.1	0.3	220	ND	0.9	390	ND	0.08	ND	1.2	1.2	2.2	1.3	
MC-WB	T1													15.5													
MC-WB	T2													15.5													
MC-WB	T3													15.5													
MC-WB	CUM													15.5													
NC-PCR	T1	16.0	15.0	16.0	10.0	20.0	50.0	20.0	0.0	17.2	576.0	7.3	7.7	17.4	0.3		ND	ND	340	ND	ND	ND	0.5	0.5	0.5	0.24	
NC-PCR	T2	15.0	15.0	16.0	20.0	30.0	40.0	10.0	0.0	3.4	576.0	7.3	7.7	17.4	0.3		ND	ND	340	ND	ND	ND	0.5	0.5	0.5	0.24	
NC-PCR	T3	12.0	19.0	16.0	5.0	5.0	5.0	5.0	80.0	6.4	576.0	7.3	7.7	17.4	0.3		ND	ND	340	ND	ND	ND	0.5	0.5	0.5	0.24	
NC-PCR	CUM	14.3	16.3	16.0	11.7	18.3	31.7	11.7	26.7	9.0	576.0	7.3	7.7	17.4	0.3		ND	ND	340	ND	ND	ND	0.5	0.5	0.5	0.24	
NPC-NC	T1	12.0	8.0	16.0	30.0	55.0	5.0	10.0	0.0	5.9	447.0	5.2	7.3	13.4	0.2	86	ND	ND	300	ND	ND	ND	0.4	0.4	0.4	0.63	
NPC-NC	T2	11.0	8.0	16.0	40.0	45.0	10.0	5.0	0.0	6.9	447.0	5.2	7.3	13.4	0.2	86	ND	ND	300	ND	ND	ND	0.4	0.4	0.4	0.63	
NPC-NC	T3	13.0	10.0	16.0	40.0	45.0	10.0	5.0	0.0	6.1	447.0	5.2	7.3	13.4	0.2	86	ND	ND	300	ND	ND	ND	0.4	0.4	0.4	0.63	
NPC-NC	CUM	12.0	8.7	16.0	36.7	48.3	8.3	6.7	0.0	6.3	447.0	5.2	7.3	13.4	0.2	86	ND	ND	300	ND	ND	ND	0.4	0.4	0.4	0.63	
PC-PMP	T1	17.0	4.0	5.0	20.0	20.0	30.0	30.0	0.0	10.0	95.0	10.1	7.2	3.1	0												
PC-PMP	T2	17.0	6.0	5.0	15.0	15.0	30.0	20.0	20.0	5.0	95.0	10.1	7.2	3.1	0												
PC-PMP	T3	16.0	6.0	5.0	15.0	15.0	20.0	50.0	0.0	11.7	95.0	10.1	7.2	3.1	0												
PC-PMP	CUM	16.7	5.3	5.0	16.7	16.7	26.7	33.3	6.7	8.9	95.0	10.1	7.2	3.1	0												
ROB-DLZ	T1	16.0	16.0	16.0	10.0	10.0	50.0	30.0	0.0	4.0	274.0	9.2	8.8	24.7	0.1	179	ND	ND	350	ND	ND	ND	3	3	3	0.95	
ROB-DLZ	T2	15.0	15.0	16.0	10.0	10.0	60.0	20.0	0.0	5.0	274.0	9.2	8.8	24.7	0.1	179	ND	ND	350	ND	ND	ND	3	3	3	0.95	
ROB-DLZ	T3	16.0	16.0	16.0	5.0	5.0	50.0	40.0	0.0	6.0	274.0	9.2	8.8	24.7	0.1	179	ND	ND	350	ND	ND	ND	3	3	3	0.95	

Site Code	Replicate	RIFLE COMPLEXITY	RIFLE EMBEDDEDNESS	SUBSTRATE CONSOLIDATION ¹	% FINES	% GRAVEL	% COBBLE	% BOULDER	% BEDROCK	% GRADIENT	SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN	pH	WATER TEMPERATURE	SALINITY	TOTAL ALKALINITY (CaCO ₃ , mg/L)	AMMONIA-NITROGEN (mg/L)	NITRATE-NITROGEN (mg/L)	TOTAL DISSOLVED SOLIDS (mg/L)	ORTHO-PHOSPHATE PHOSPHORUS (mg/L)	TOTAL PHOSPHORUS (mg/L)	Nitrite-Nitrogen (mg/L)	KJELDAHL NITROGEN (mg/L)	Organic Nitrogen (mg/L)	TOTAL NITROGEN (mg/L)	TURBIDITY (NTU)
ROB-DLZ	CUM	15.7	15.7	16.0	8.3	8.3	53.3	30.0	0.0	5.0	274.0	9.2	8.8	24.7	0.1	179	ND	ND	350	ND	ND	ND	3	3	3	0.95
SC-AS	T1	4.0	20.0	10.0	5.0	5.0	5.0	5.0	80.0	6.1	1191.0	7.3	8.3	18.8	0.6	345	ND	ND	1000	ND	0.05	ND	0.3	0.3	0.3	0.26
SC-AS	T2	4.0	20.0	10.0	5.0	5.0	30.0	0.0	60.0	11.0	1191.0	7.3	8.3	18.8	0.6	345	ND	ND	1000	ND	0.05	ND	0.3	0.3	0.3	0.26
SC-AS	T3	4.0	19.0	10.0	5.0	5.0	30.0	0.0	60.0	7.6	1191.0	7.3	8.3	18.8	0.6	345	ND	ND	1000	ND	0.05	ND	0.3	0.3	0.3	0.26
SC-AS	CUM	4.0	19.7	10.0	5.0	5.0	21.7	1.7	66.7	8.2	1191.0	7.3	8.3	18.8	0.6	345	ND	ND	1000	ND	0.05	ND	0.3	0.3	0.3	0.26
SC-LCR	T1	16.0	17.0	16.0	25.0	25.0	30.0	20.0	0.0	8.4	996.0	8.3	7.4	17.0	0.5	341	ND	1.98	880	ND	ND	ND	0.3	0.3	2.3	0.18
SC-LCR	T2	12.0	18.0	10.0	10.0	20.0	20.0	10.0	40.0	8.8	996.0	8.3	7.4	17.0	0.5	341	ND	1.98	880	ND	ND	ND	0.3	0.3	2.3	0.18
SC-LCR	T3	15.0	10.0	10.0	10.0	30.0	30.0	30.0	0.0	6.4	996.0	8.3	7.4	17.0	0.5	341	ND	1.98	880	ND	ND	ND	0.3	0.3	2.3	0.18
SC-LCR	CUM	14.3	15.0	12.0	15.0	25.0	26.7	20.0	13.3	7.9	996.0	8.3	7.4	17.0	0.5	341	ND	1.98	880	ND	ND	ND	0.3	0.3	2.3	0.18
SMC-DC	T1	18.0	18.0	16.0	10.0	10.0	40.0	40.0	0.0	0.5	602.0	8.0	8.4	24.0	0.3	322	ND	ND	420	ND	0.05	ND	0.7	0.7	0.7	0.24
SMC-DC	T2	17.0	17.0	16.0	15.0	10.0	40.0	30.0	0.0	2.5	602.0	8.0	8.4	24.0	0.3	322	ND	ND	420	ND	0.05	ND	0.7	0.7	0.7	0.24
SMC-DC	T3	17.0	18.0	16.0	10.0	20.0	40.0	30.0	0.0	3.5	602.0	8.0	8.4	24.0	0.3	322	ND	ND	420	ND	0.05	ND	0.7	0.7	0.7	0.24
SMC-DC	CUM	17.3	17.7	16.0	11.7	13.3	40.0	33.3	0.0	2.2	602.0	8.0	8.4	24.0	0.3	322	ND	ND	420	ND	0.05	ND	0.7	0.7	0.7	0.24
SMC-SMC	T1	10.0	18.0	10.0	5.0	0.0	15.0	80.0	0.0	49.1	614.0	5.6	7.4	18.7	0.3	212	ND	ND	380	ND	ND	ND	0.4	0.4	0.4	0.28
SMC-SMC	T2	12.0	6.0	10.0	10.0	0.0	20.0	70.0	0.0	8.4	614.0	5.6	7.4	18.7	0.3	212	ND	ND	380	ND	ND	ND	0.4	0.4	0.4	0.28
SMC-SMC	T3	12.0	10.0	16.0	30.0	0.0	40.0	30.0	0.0	5.9	614.0	5.6	7.4	18.7	0.3	212	ND	ND	380	ND	ND	ND	0.4	0.4	0.4	0.28
SMC-SMC	CUM	11.3	11.3	12.0	15.0	0.0	25.0	60.0	0.0	21.1	614.0	5.6	7.4	18.7	0.3	212	ND	ND	380	ND	ND	ND	0.4	0.4	0.4	0.28
SMC-SMR	T1	17.0	18.0	16.0	10.0	10.0	50.0	30.0	0.0	2.0	452.0	9.0	8.1	19.2	0.2	179	ND	ND	310	ND	0.69	ND	0.5	0.5	0.5	5.3
SMC-SMR	T2	15.0	16.0	16.0	30.0	20.0	30.0	20.0	0.0	1.0	452.0	9.0	8.1	19.2	0.2	179	ND	ND	310	ND	0.69	ND	0.5	0.5	0.5	5.3
SMC-SMR	T3	14.0	14.0	16.0	15.0	15.0	45.0	25.0	0.0	1.5	452.0	9.0	8.1	19.2	0.2	179	ND	ND	310	ND	0.69	ND	0.5	0.5	0.5	5.3
SMC-SMR	CUM	15.3	16.0	16.0	18.3	15.0	41.7	25.0	0.0	1.5	452.0	9.0	8.1	19.2	0.2	179	ND	ND	310	ND	0.69	ND	0.5	0.5	0.5	5.3
SMR-DLR	T1	1.0	0.0	16.0	90.0	10.0	0.0	0.0	0.0	1.0	1120.0	5.9	8.4	21.5	0.6	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SMR-DLR	T2	1.0	0.0	16.0	90.0	10.0	0.0	0.0	0.0	1.0	1120.0	5.9	8.4	21.5	0.6	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SMR-DLR	T3	1.0	0.0	16.0	90.0	10.0	0.0	0.0	0.0	1.0	1120.0	5.9	8.4	21.5	0.6	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SMR-DLR	CUM	1.0	0.0	16.0	90.0	10.0	0.0	0.0	0.0	1.0	1120.0	5.9	8.4	21.5	0.6	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SV-WCR	T1	10.0	10.0	5.0	20.0	0.0	20.0	40.0	20.0	4.0	1904.0	7.6	7.6	12.1	1	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SV-WCR	T2	10.0	10.0	5.0	20.0	0.0	30.0	50.0	0.0	3.3	1904.0	7.6	7.6	12.1	1	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SV-WCR	T3	10.0	10.0	5.0	20.0	0.0	30.0	50.0	0.0	7.5	1904.0	7.6	7.6	12.1	1	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SV-WCR	CUM	10.0	10.0	5.0	20.0	0.0	26.7	46.7	6.7	4.9	1904.0	7.6	7.6	12.1	1	179	ND	2.13	1000	0.2	0.16	0.01	0.7	0.7	2.8	4.6
SWR-CSPD	T1	14.0	10.0	16.0	10.0	20.0	65.0	5.0	0.0	9.5	392.0	6.2	7.8	18.7	0.2	96	ND	ND	240	0.06	ND	ND	0.3	0.3	0.3	2.2
SWR-CSPD	T2	8.0	18.0	16.0	10.0	10.0	20.0	20.0	40.0	8.9	392.0	6.2	7.8	18.7	0.2	96	ND	ND	240	0.06	ND	ND	0.3	0.3	0.3	2.2
SWR-CSPD	T3	4.0	20.0	16.0	0.0	0.0	0.0	0.0	100.0	2.5	392.0	6.2	7.8	18.7	0.2	96	ND	ND	240	0.06	ND	ND	0.3	0.3	0.3	2.2
SWR-CSPD	CUM	8.7	16.0	16.0	6.7	10.0	28.3	8.3	46.7	7.0	392.0	6.2	7.8	18.7	0.2	96	ND	ND	240	0.06	ND	ND	0.3	0.3	0.3	2.2
SWR-CSPU	T1	3.0	1.0	16.0	90.0	10.0	0.0	0.0	0.0	0.5	330.0	9.5	7.8	13.1	0.2	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SWR-CSPU	T2	9.0	14.0	16.0	50.0	25.0	25.0	0.0	0.0	1.0	330.0	9.5	7.8	13.1	0.2	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SWR-CSPU	T3	18.0	11.0	10.0	15.0	20.0	50.0	15.0	0.0	3.5	330.0	9.5	7.8	13.1	0.2	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SWR-CSPU	CUM	10.0	8.7	14.0	51.7	18.3	25.0	5.0	0.0	1.7	330.0	9.5	7.8	13.1	0.2	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SYC-NT	T1	2.0	1.0	16.0	90.0	10.0	0.0	0.0	0.0	2.0	856.0	7.8	8.1	21.5	0.4	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SYC-NT	T2	2.0	1.0	16.0	90.0	10.0	0.0	0.0	0.0	4.0	856.0	7.8	8.1	21.5	0.4	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SYC-NT	T3	2.0	1.0	16.0	90.0	10.0	0.0	0.0	0.0	5.0	856.0	7.8	8.1	21.5	0.4	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
SYC-NT	CUM	2.0	1.0	16.0	90.0	10.0	0.0	0.0	0.0	3.7	856.0	7.8	8.1	21.5	0.4	292	ND	ND	610	0.05	ND	ND	0.6	0.5	0.6	1.4
WC-2MM	T1	2.0	2.0	16.0	60.0	40.0	0.0	0.0	0.0	1.5	1255.0	9.3	8.4	17.5	0.6	292	ND	1.9	960	0.24	0.37	ND	0.8	0.8	2.6	8.8
WC-2MM	T2	2.0	3.0	16.0	60.0	40.0	0.0	0.0	0.0	0.5	1255.0	9.3	8.4	17.5	0.6	292	ND	1.9	960	0.24	0.37	ND	0.8	0.8	2.6	8.8
WC-2MM	T3	2.0	2.0	16.0	60.0	40.0	0.0	0.0	0.0	0.5	1255.0	9.3	8.4	17.5	0.6	292	ND	1.9	960	0.24	0.37	ND	0.8	0.8	2.6	8.8
WC-2MM	CUM	2.0	2.3	16.0	60.0	40.0	0.0	0.0	0.0	0.8	1255.0	9.3	8.4	17.5	0.6	292	ND	1.9	960	0.24	0.37	ND	0.8	0.8	2.6	8.8

Site Code	Replicate	RIFFLE COMPLEXITY	RIFFLE EMBEDDEDNESS	SUBSTRATE CONSOLIDATION ¹	% FINES	% GRAVEL	% COBBLE	% BOULDER	% BEDROCK	% GRADIENT	SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN	pH	WATER TEMPERATURE	SALINITY	TOTAL ALKALINITY (CaCO ₃ , mg/L)	AMMONIA-NITROGEN (mg/L)	NITRATE-NITROGEN (mg/L)	TOTAL DISSOLVED SOLIDS (mg/L)	ORTHO-PHOSPHATE PHOSPHORUS (mg/L)	TOTAL PHOSPHORUS (mg/L)	Nitrite-Nitrogen (mg/L)	KJELDAHL NITROGEN (mg/L)	Organic Nitrogen (mg/L)	TOTAL NITROGEN (mg/L)	TURBIDITY (NTU)
WC-CRT	T1	4.0	5.0	16.0	40.0	60.0	0.0	0.0	0.0	3.0	1219.0	10.7	8.8	19.0	0.6	ND	2.7	940	0.24	0.46	ND	1.2	1.2	3.9	12	
WC-CRT	T2	6.0	5.0	16.0	40.0	50.0	10.0	0.0	0.0	1.5	1219.0	10.7	8.8	19.0	0.6	ND	2.7	940	0.24	0.46	ND	1.2	1.2	3.9	12	
WC-CRT	T3	7.0	9.0	16.0	25.0	70.0	5.0	0.0	0.0	3.0	1219.0	10.7	8.8	19.0	0.6	ND	2.7	940	0.24	0.46	ND	1.2	1.2	3.9	12	
WC-CRT	CUM	5.7	6.3	16.0	35.0	60.0	5.0	0.0	0.0	2.5	1219.0	10.7	8.8	19.0	0.6	ND	2.7	940	0.24	0.46	ND	1.2	1.2	3.9	12	
WC-EOT	T1	4.0	3.0	16.0	70.0	30.0	0.0	0.0	0.0	4.0	1146.0	5.1	8.2	20.2	0.6	ND	2.9	880	0.25	0.42	0.1	1.8	1.8	4.9	4.5	
WC-EOT	T2	3.0	2.0	16.0	65.0	30.0	5.0	0.0	0.0	1.5	1146.0	5.1	8.2	20.2	0.6	ND	2.9	880	0.25	0.42	0.1	1.8	1.8	4.9	4.5	
WC-EOT	T3	2.0	2.0	16.0	70.0	25.0	5.0	0.0	0.0	0.5	1146.0	5.1	8.2	20.2	0.6	ND	2.9	880	0.25	0.42	0.1	1.8	1.8	4.9	4.5	
WC-EOT	CUM	3.0	2.3	16.0	68.3	28.3	3.3	0.0	0.0	2.0	1146.0	5.1	8.2	20.2	0.6	ND	2.9	880	0.25	0.42	0.1	1.8	1.8	4.9	4.5	
WLC-ABL	T1	6.0	9.0	10.0	15.0	30.0	30.0	20.0	5.0	4.5	708.0	8.7	8.3	21.1	0.3	ND	ND	490	ND	ND	ND	0.6	0.6	0.6	1.5	
WLC-ABL	T2	6.0	9.0	16.0	20.0	40.0	10.0	30.0	0.0	6.0	708.0	8.7	8.3	21.1	0.3	ND	ND	490	ND	ND	ND	0.6	0.6	0.6	1.5	
WLC-ABL	T3	7.0	11.0	16.0	5.0	15.0	10.0	70.0	0.0	12.5	708.0	8.7	8.3	21.1	0.3	ND	ND	490	ND	ND	ND	0.6	0.6	0.6	1.5	
WLC-ABL	CUM	6.3	9.7	14.0	13.3	28.3	16.7	40.0	1.7	7.7	708.0	8.7	8.3	21.1	0.3	ND	ND	490	ND	ND	ND	0.6	0.6	0.6	1.5	

¹ Substrate Consolidati