Appendix II.Habitat parameters at transects. In order: transect # (see table 1); Conductivity; alkalinity; hardness; air temperature; water temperature; pH; depth in cm.; width in m; water flow class; grazing; substrate (0-100): mud, sand, gravel, rock; streamside vegetation (0-3): sage, grass, forbs, reeds, bare, willow, cottonwood; aquatic vegetation (0-3): emergent, submerged, algae; hiding place present, hiding place type.

										Substrate				Streamside veg.							Aquatic veg			Hideaway	
#	cond	hard	alka	T.	T.		dep.	wid.	body	gra-zing	mud	sand	grav	rock	sgbr	gras	forb	reed	bare	will	cott	emer	subm	alga	Y or N	type
1								7	POND	2	100	0	0	0	1	2	0	0	2	0	0	0	3	0		
2								30	POND	1	100	0	0	0	1	1	1	1	1	0	0	0.5	0.5	0		
3	93	20	40				10	5	POOL	0	0	100	0	0	0	1	1	1	3	1	0	0.5	0.5	0		
4	93	20	40				7	1.0	OXBOW	0	0	100	0	0	0.0	0.0	0.0	2.0	1.5	0.0	0.0	1.0	0.0	0.0		
5	93	40	60				7	0.2	OXBOW	0	0	100	0	0	0.0	1.5	0.5	0.5	3.0	0.0	0.0	0.0	0.0	0.5		
6	93	40	60				9	0.7	OXBOW	0	0	100	0	0	0.0	3.0	1.0	0.5	2.0	0.0	0.0	2.5	0.5	0.0		
7	93	40	60				22	0.3	OXBOW	0	0	0	100	0	0.0	1.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	1.0		
8		40	60				3	0.2	POOL	0	0	0	50	50	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0		
9	93	40	60				27	1.0	OXBOW	0	0	100	0	0	0.0	0.5	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.5		
10	93	40	60				8	0.3	OXBOW	0	0	100	0	0	0.0	0.0	0.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0		
11	93	40	60				37	1.3	OXBOW	0	0	100	0	0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	1.0	1.0	0.0		
12	93	40	60				24	1.5	OXBOW	0	50	50	0	0	0.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0		
13	93	40	60				12	1.5	OXBOW	0	0	100	0	0	0.0	1.5	0.0	0.0	1.5	0.0	0.0	0.5	0.5	0.0		
14		40	60				9	0.8	OXBOW	0	0	100	0	0	0.0	0.0	0.0	1.0	2.0	0.0	0.0	0.5	0.5	0.0		
15	93	40	60				25	4.0	OXBOW	0	0	25	25	50	0.0	0.0	0.0	0.0	2.0	2.0	0.0	0.0	0.0	1.0		
16		20	40				24	2.0	POOL	0	0	25	25	50	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0		
17	340						32	3.0	POOL	2	0	0	0	0	0.0	1.0	1.5	2.5	0.5	0.5	0.0	2.0	0.0	0.0		
18	420				12.8		13	1.0	OXBOW	2	0	10	90	0	0.5	1.5	1.0	1.0	2.0	0.0	0.0	1.0	0.0	1.0		
19	420	20	40				19	1.5	OXBOW	0	0	0	100	0	1.0	0.5	0.0	0.5	2.0	0.0	0.0	0.0	0.0	2.5		
20	420	20	40				7	5.0	RUN	0	0	0	100	0	0.5	1.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0		
21	420	20	40				1	0.5	POOL	0	0	0	50	50	1.5	1.0	2.0	1.5	0.5	0.0	0.0	0.5	1.5	1.0		
22		40	60					1.0	RIFFL	1	0	0	0	0	0.0	0.5	2.0	2.5	0.5	0.0	0.0	2.0	2.0	2.0		
23					12.5		42	13.0	POOL	2	90	0	10	0	2.5	1.0	0.5	1.5	0.5	0.0	0.0	2.0	2.5	2.0		
24	250	120	140		9.5		13	1.0	RIFFL	1	10	90	0	0	2.0	2.5	1.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5		
25	250	120	140		9.0		20	1.0	RIFFL	2	50	0	0	50	2.0	1.0	1.0	0.5	1.0	1.0	0.0	0.5	0.5	0.0		
26	250	120	140				12	1.0	RIFFL	1	50	0	50	0	2.0	0.5	1.0	0.0	1.0	1.0	0.0	0.5	0.0	0.0		
27	250	120	140		9.5		17	1.0	RIFFL	2	0	0	50	50	2.0	1.5	1.0	0.0	2.0	2.0	0.0	0.5	0.5	0.0		
28	250	120	140				19	1.0	RIFFL	2	0	0	50	50	0.5	0.5	1.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0		
29	250	120	140				17	1.0	RIFFL	2	0	0	50	50	3.0	0.0	1.0	0.0	2.0	1.0	0.0	0.5	0.0	0.0		
30							15	0.5	RIFFL	2	10	90	0	0	2.0	2.0	2.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0		
31		40	60				7	0.2	RIFFL	1	0	70	20	0	2.5	1.5	1.0	0.0	1.0	3.0	0.0	0.0	0.0	0.0		
32							15	1.0	RIFFL	1	10	30	10	10	3.0	0.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0		

#	cond	hard	alka	T.	T.		dep.	wid.	body	gra-zing	Substrate mud	sand	grav	rock	Streamside veg. sgbr	gras	forb	reed	bare	will	cott	Aquatic veg emer	subm	alga	Hideaway Y or N	type
33		40	60		21.0		2	0.5	RUN	1	0	10	80	10	0.5	1.0	0.5	1.0	1.0	0.0	0.0	1.0	0.0	1.5	Y	VEG
34		20	60		22.0		4	2.0	POOL	2	100	0	0	0	0.0	1.0	2.0	2.0	1.0	0.0	0.0	2.0	1.0	0.5	Y	VE.
35		40	60		23.0		2	1.0	RUN	2	10	0	80	10	1.0	2.0	0.5	0.0	1.0	0.0	0.0	0.5	0.0	0.0	N	VEG
36		40	60		18.0		10	1.5	RUN	2	0	0	80	10	0.0	0.5	0.5	1.0	1.0	1.0	0.0	2.5	0.0	2.0	Y	ALGAE
37		40	60		19.0		5	1.0	RUN	1	15	0	85	0	0.5	1.0	1.5	2.0	0.5	0.0	0.0	2.0	0.5	1.5	Y	ALGAE
38		40	60		18.0		5	3.0	POOL	2	100	0	0	0	1.0	2.5	1.0	0.5	0.5	0.0	0.0	2.5	2.5	2.5	Y	VEG
39	102	40	60		10.0		4	1.0	RUN	1	0	0	50	50	2.0	1.5	0.5	1.0	2.0	1.1	1.1	1.0	0.0	2.0	Y	VEG
40	98	40	60		10.0		7	1.0	RUN	1	0	0	100	0	1.0	1.0	1.0	1.5	1.0	0.0	0.0	2.0	1.0	1.5	Y	VEG
41	105	40	40		17.0			40.0	POND	2	90	0	0	10	2.0	1.0	0.5	2.0	0.0	0.0	0.0	0.0	0.5	2.0	Y	VEG
42	77	40	40		14.0			20.0	POND	2	70	0	30	0	0.5	0.5	0.5	0.5	2.0	0.0	0.0	0.5	0.0	2.0	Y	ALGAE
43	100	40	60		26.0		2	17.0	POND	2	100	0	0	0	1.0	0.5	0.5	2.5	1.0	0.0	0.0	1.5	1.5	3.0	Y	VEG
44	109	40	60		12.5		2	0.4	RUN	1	0	0	40	60	1.0	0.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	2.0	Y	VEG
45	80	40	60		10.0		30	3.0	RUN	1	5	90	5	0	0.5	0.5	0.5	1.0	2.0	0.5	0.0	1.0	0.5	0.5	N	
46	0	40	60		10.0		15	3.0	RUN	0	0	10	90	0	0.5	0.0	0.5	0.0	0.5	2.0	2.0	1.5	0.0	0.5	N	
47	97	40	60		12.0		3	0.5	OXBOW	1	100	0	0	0	0.5	0.0	0.5	1.5	2.0	1.0	0.0	1.0	0.0	0.0	Y	STICKS
48	97	40	60		11.0		30	1.0	RUN	1	5	0	80	15	0.0	1.0	1.0	2.0	0.5	2.0	0.0	1.0	0.0	0.0	Y	VEG
49	97	40	60		14.0		30	3.0	RUN	1	0	10	65	25	0.0	0.0	0.5	1.0	2.0	2.5	0.0	2.0	0.0	0.0	Y	VEG
50	97	40	60		16.0		45	2.0	RUN	1	0	50	50	0	0.0	0.0	0.5	2.5	0.5	2.0	0.0	1.5	0.0	1.0	Y	VEG
51	97	40	60	26.5	15.0			4.0	POOL	1	25	0	75	0	0.0	0.5	0.5	1.5	2.0	2.0	0.0	0.5	0.5	0.0	Y	VEG
52	97	40	60	29.0	18.0		2	5.0	POOL	1	100	0	0	0	0.5	0.5	0.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	Y	VEG
53	97	40	60	23.0	32.0		4	0.5	POOL	0	100	0	0	0	0.0	0.5	0.5	0.5	2.0	0.5	0.0	0.5	0.0	2.5	Y	VEG
54	97	40	60	25.0	28.0		17	2.0	OXBOW	1	100	0	0	0	0.5	0.5	0.5	1.0	1.5	1.0	1.0	0.0	2.0	0.0	Y	VEG
55	97	40	60	28.0	17.0		2	2.0	POOL	1	50	50	0	0	0.0	0.5	0.5	1.0	2.0	2.0	0.0	0.0	0.5	0.0	Y	VEG
56	97	40	60	26.0	18.0		16	3.0	RIFFL	1	10	0	45	45	0.5	0.5	0.5	0.5	1.0	2.5	0.0	1.0	0.5	0.0	Y	VEG
57	69	20	60	12.0	10.0		4	0.8	RIFFL	0	0	0	25	75	0.0	2.0	1.0	2.0	0.5	0.0	0.0	0.5	0.0	1.5	N	
58	69	20	60	16.0	10.0		6	0.8	RIFFL	1	0	0	50	50	0.5	1.0	0.5	0.5	2.0	1.0	0.0	0.5	0.0	0.0	N	
59	69	20	60	15.5	12.0		10	1.0	RIFFL	0	0	0	50	50	0.5	2.5	1.0	0.5	1.0	0.0	1.0	0.0	0.5	0.5	Y	NO
60		20	60	15.5	11.0		4	0.5	RIFFL	1	0	0	100	0	0.5	1.0	0.5	0.0	0.5	2.5	0.0	0.5	0.0	0.0	Y	VEG
61	73			18.5	12.0		8	1.0	RIFFL	1	0	0	50	50	0.5	0.5	1.5	0.5	1.0	1.0	0.0	1.0	0.0	2.5	Y	ALGAE
62				25.0	15.5		9	0.5	RUN	1	0	0	50	50	0.5	1.0	0.5	3.0	0.0	0.0	0.0	3.0	0.0	0.0	Y	VEG
63		20	60	21.0	21.0		11	0.5	RUN	1	0	0	70	30	0.5	2.0	1.5	1.5	0.5	0.0	0.0	2.0	0.5	1.5	Y	ALGAE
64		20	60	21.0	22.0		13	2.0	RUN	2	100	0	0	0	0.5	0.5	0.5	2.5	2.0	0.0	0.0	1.0	2.5	2.0	Y	VEG
65		20	60	21.0	20.0		8	2.0	RUN	2	100	0	0	0	0.5	1.5	0.5	2.5	1.0	0.0	0.0	2.5	1.5	1.5	Y	VEG
66	95	40	60	24.0	12.0			10.0	POND	2	100	0	0	0	0.5	0.5	0.5	2.0	1.5	2.0	0.0	2.0	2.5	2.5	Y	VEG
67		40	60	26.1	22.0		30	2.5	OXBOW	1	5	0	95	0	0.0	2.0	0.5	1.0	1.5	1.0	0.0	2.0	0.5	0.5	Y	VEG

#	cond	hard	alka	T.	T.		dep.	wid.	body	gra-zing	Substrate mud	sand	grav	rock	Streamside veg. sgbr	gras	forb	reed	bare	will	cott	Aquatic veg emer	subm	alga	Hideaway Y or N	type
68	58	40	60	25.0	16.0		25	3.0	RUN	2	0	20	80	0	0.0	1.5	0.5	0.5	2.0	2.0	0.0	0.0	1.0	1.5	Y	VEG
69	72	40	60	12.0	10.0		4	2.0	RIFFL	1	0	0	30	70	0.0	2.0	0.5	2.5	0.2	1.0	0.0	0.5	0.5	0.0	Y	VEG
70	72	40	60	10.0	10.0		15	1.3	RIFFL	1	0	0	10	90	0.0	3.0	2.0	2.0	0.0	1.0	0.0	2.0	1.0	0.0	Y	VEG
71	72	40	60	11.0	10.0		24	2.0	OXBOW	1	98	0	0	2	0.0	2.0	2.0	2.5	0.0	2.5	0.0	1.5	0.0	0.5	Y	VEG
72	72	40	60	11.0	10.0		9	1.0	OXBOW	1	100	0	0	0	0.0	2.0	2.0	2.0	2.0	0.5	0.0	0.5	1.0	0.0	Y	VEG
73	72	40	60	11.0	11.0		10	1.0	RIFFL	1	0	0	10	90	0.5	2.0	1.5	2.5	0.0	1.0	0.0	0.5	0.5	0.0	Y	VEG
74	72	40	60	11.0	11.0		35	7.5	OXBOW	2	98	0	0	2	0.0	2.0	1.0	2.0	0.5	2.0	0.0	0.5	0.0	3.0	Y	VEG
75	72	40	60	11.0	11.0		4	0.8	OXBOW	3	100	0	0	0	0.0	1.0	0.5	2.5	0.0	2.5	0.0	2.5	1.5	2.5	Y	VEG
76	72	40	60	9.0	9.0		31	2.0	RUN	1	0	20	80	0	1.0	0.5	1.0	3.0	0.5	2.5	0.0	1.5	0.5	2.0	Y	VEG
77	72	40	60	14.0	12.0		20	1.5	OXBOW	1	50	0	0	50	0.0	0.5	1.0	2.5	0.0	2.5	0.0	2.0	0.0	0.0	Y	VEG
78	72	40	60	15.0	10.0		24	3.0	RUN	1	0	20	80	0	0.0	1.0	1.0	1.0	2.0	1.5	0.0	1.0	0.0	0.0	N	
79	72	40	60	15.0	10.0		35	3.0	RUN	2	10	70	20	0	0.0	0.5	1.0	2.0	2.0	1.0	0.0	1.0	1.0	2.0	Y	VEG
80	71	20	40	15.0	12.0		37	3.5	RUN	1	100	0	0	0	0.5	2.0	2.0	3.0	0.5	0.0	0.0	2.0	0.5	2.0	Y	VEG
81	53	40	60	14.0	16.0		28	2.0	POOL	2	50	0	40	5	1.0	1.0	1.5	8.2	0.0	0.0	0.0	1.0	0.5	3.0	Y	ALGAE
82	53	40	60	14.0	18.0		20	1.0	POOL	2	0	50	0	50	0.5	2.0	2.0	2.0	0.0	0.0	0.0	1.0	0.5	0.5	Y	BANK
83		40	60	14.0	18.0		20	1.0	POOL	2	0	50	0	50	0.5	2.0	2.0	2.0	0.0	0.0	0.0	1.0	0.5	0.5	Y	BANK
84	74	40	60	12.0	12.0		3	3.0	RUN	2	0	0	50	50	0.5	2.0	1.5	2.5	0.5	1.0	0.0	2.0	0.0	2.0	Y	VEG
85	74	40	60	11.5	12.0		6	0.5	RUN	2	70	0	0	30	1.0	1.0	1.5	2.0	1.0	0.0	0.0	1.0	0.0	1.0	N	
86	74	40	60	13.0	12.0		24	1.5	RUN	1	0	10	70	20	0.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	2.0	0.0	Y	VEG
87	74	40	60	13.0	12.0		30	2.0	RUN	1	50	20	20	0	0.0	1.0	1.0	3.0	0.0	1.0	0.0	1.5	1.0	2.0	Y	VEG
88	0	40	60	13.0	15.0		11	2.0	RUN	1	100	0	0	0	0.5	1.0	2.0	3.0	0.0	0.0	0.0	3.0	2.0	3.0	Y	ALGAE
89	0	40	60	13.0	11.0		17	0.8	RUN	1	10	10	75	5	1.0	1.0	2.5	2.0	1.0	0.5	0.0	2.0	1.0	2.0	Y	ALGAE
90	118	40	80	12.0	14.0		15	1.5	POOL	2	20	80	0	0	1.0	1.0	1.0	2.0	0.5	0.0	0.0	2.0	1.0	0.5	Y	ALGAE
91	118	40	80	10.0	7.0		11	1.0	RUN	2	100	0	0	0	0.0	1.0	2.0	2.5	0.5	0.0	0.0	1.0	5.0	0.0	N	
92	118	40	80	14.0	8.0		7	3.0	POND	1	100	0	0	0	0.0	2.5	5.0	5.0	0.0	0.0	0.0	5.0	1.0	0.5	Y	VEG
93	64	40	60	11.0	8.0		4	3.0	RUN	1	80	20	0	0	0.5	1.0	1.0	2.5	1.0	0.0	0.0	1.0	0.5	2.0	Y	REEDS
94	64	40	60	15.5	8.0		6	0.5	RUN	1	20	0	80	0	0.0	0.5	1.0	3.0	0.0	0.0	0.0	3.0	1.0	2.0	Y	VEG
95	56	20	40	24.0	15.0			1.0	RUN	1	0	0	100	5	1.0	1.0	2.0	0.0	0.0	0.0	0.0	1.0	1.0	0.5	N	
96	56	20	40	20.5	11.0		5	2.0	POOL	1	0	0	100	0	0.5	2.0	2.0	3.0	0.0	0.0	0.0	2.0	1.0	3.0	Y	ALGAE
97	56	20	40	24.0	16.0		14	0.5	POOL	2	0	0	100	0	1.0	2.0	2.0	2.0	0.5	0.0	0.0	0.0	0.0	2.0	N	
98	51	20	40	26.0	20.0		50	1.5	POOL	1	0	100	0	0	1.0	2.0	2.0	2.0	0.5	0.0	0.0	1.0	0.0	2.0	Y	ALGAE
99	51	20	40	26.0	20.0		18	1.0	POOL	2	0	0	100	0	0.5	2.0	1.0	2.0	1.0	0.0	0.0	2.0	1.0	3.0	Y	ALGAE
100	51	20	40	25.0	18.0		15	1.5	RUN	2	5	5	90	0	0.0	1.0	3.0	2.0	0.0	0.0	0.0	1.0	0.5	2.5	Y	ALGAE
101	90	60	60	21.0	12.0		25	5.0	OXBOW	1	80	10	20	0	0.5	1.0	1.0	2.0	2.0	1.0	0.0	2.0	1.0	2.0	Y	VEG
102	72	60	60	17.0	13.0		22	3.0	RUN	1	0	0	90	10	0.5	1.0	2.0	2.0	1.0	2.0	0.0	1.0	2.0	0.0	Y	VEG

									gra-	Substrate				Streamside veg.							Aquatic veg			Hideaway	
#	cond	hard	alka	T.	T.		dep.	wid.	body	zing	mud	sand	grav	rock	sgbr	gras	forb	reed	bare	will	cott	emer	subm	alga	Y or N	type
103	72	60	60	21.0	14.0		24	2.0	RUN	0	0	0	80	20	0.0	1.0	1.0	2.0	2.5	2.0	0.0	2.0	1.0	0.0	N	
104	72	60	60	32.0	17.0		13	2.0	RUN	2	0	0	100	0	0.5	0.5	0.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	N	
105	72	60	60	27.0	16.0		45	3.0	RUN	1	0	50	50	0	0.5	1.0	1.0	1.0	2.0	1.0	0.0	1.0	0.0	0.0	N	
106	96	60	60	26.0	23.0		40	2.0	OXBOW	0	0	0	100	0	0.5	0.0	0.0	1.0	2.0	0.5	0.0	1.0	0.0	2.0	Y	ALGAE
107	96	60	60	26.0	19.0		24	5.0	RIFFL	0	0	0	10	90	0.0	1.0	1.0	1.0	0.0	2.0	0.0	0.5	0.0	0.0	Y	ROCK
108		40	40	28.0	22.0		4	4.0	RUN	2	50	0	50	0	0.0	0.5	0.5	1.0	3.0	1.0	0.0	0.0	0.5	0.5	N	
109		40	40	34.5	30.0		1	0.2	OXBOW	1	90	0	10	0	0.0	0.0	0.5	1.0	3.0	0.5	0.0	0.0	0.0	0.5	N	
110		40	40	35.5	23.0		24	3.0	RUN	0	0	20	80	0	0.0	1.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.5	N	
111		40	40	17.0	18.0		25	6.0	RUN	0	0	10	90	0	0.5	1.0	1.0	0.5	2.5	2.0	0.0	0.0	0.0	0.0	N	
112		40	40	17.0	18.0		54	1.5	OXBOW	0	0	100	0	0	0.0	0.5	0.5	0.5	2.0	3.0	0.0	0.0	0.0	0.5	Y	VEG
113		40	40	29.0	24.0		33	3.0	RIFFL	0	0	10	90	0	0.0	1.0	0.5	2.0	2.5	2.0	0.0	1.0	0.0	0.0	N	
114		40	40	26.0	15.0		25	2.0	RUN	1	90	0	10	0	0.5	1.0	1.0	2.5	0.5	0.0	0.0	1.0	0.5	0.5	N	
115		40	40	22.0	16.0		31	1.5	RUN	1	80	0	10	10	0.0	1.0	0.5	2.5	0.5	0.0	0.0	1.0	0.0	0.5	Y	VEG
116		40	40	12.0	22.0		24	20.0	POND	1	100	0	0	0	0.5	1.0	2.0	3.0	0.0	0.0	0.0	1.5	1.5	0.0	N	
117		40	40	12.0	20.0		10	1.0	RUN	1	0	10	90	0	2.0	1.0	1.0	2.5	1.0	0.0	0.0	1.5	0.0	0.0	N	
118		40	40	24.4	24.0		12	0.5	RUN	1	100	0	0	0	0.5	2.0	0.5	2.0	0.0	1.0	0.0	2.5	1.0	1.0	Y	VEG
119		40	40	24.0	22.0		10	1.5	RIFFL	1	5	5	10	80	0.5	0.5	0.5	2.0	2.0	0.0	0.0	1.0	0.5	0.5	N	
120		40	40	17.0	24.0		12	1.5	RUN	2	50	50	0	0	2.0	0.5	0.5	1.5	2.0	0.0	0.0	1.0	0.5	0.5	N	
121		40	40	13.5	20.0			7.5	OXBOW	3	100	0	0	0	0.0	0.5	0.5	2.0	2.0	3.0	0.0	0.0	2.0	2.0	N	
122				12.0	8.0		16	2.5	RIFFL	2	0	10	20	70	0.5	1.0	0.5	0.5	2.0	2.0	0.0	1.0	0.0	0.0	N	
123				10.0	8.5		10	2.0	RUN	1	0	20	80	0	0.5	2.0	0.5	2.0	0.5	2.0	0.0	2.0	1.0	0.5	N	
124	69	40	60	20.0	21.0		44	2.0	RUN	2	30	0	70	0	2.0	0.5	0.5	1.5	2.0	0.0	0.0	1.0	0.0	2.0	N	
125	69	40	60	24.0	22.0		37	1.0	RUN	1	60	0	40	0	2.0	0.5	2.0	1.5	1.0	0.0	0.0	1.0	0.0	0.0	Y	BANK
126	69	40	60	24.5	21.5		11	2.0	RIFFL	1	0	0	80	20	0.0	1.0	2.0	2.5	1.0	0.0	0.0	1.0	0.0	1.0	Y	ALGAE
127	69	40	60	20.0	21.0		22	0.5	RUN	1	0	0	100	0	0.5	2.0	2.5	2.5	0.5	0.0	0.0	2.0	0.0	1.5	Y	BANK
128	69	40	60	18.0	22.0		36	1.0	OXBOW	0	100	0	0	0	0.5	2.0	2.0	1.0	0.5	0.0	0.0	1.0	0.5	2.0	Y	ALGAE
129	69	40	60	15.5	20.5		31	2.0	POOL	1	80	0	0	20	1.0	1.0	0.5	2.5	0.5	2.0	0.0	2.5	0.5	0.5	Y	VEG
130	109	60	80	16.0	5.5		28	2.0	RUN	1	0	50	10	40	0.0	2.0	1.5	3.0	1.0	2.0	0.0	1.0	0.0	0.0	Y	VEG
131	109	60	80	20.0	14.0		23	3.5	RUN	1	30	60	10	0	0.5	2.0	1.0	1.0	2.0	2.0	0.0	1.0	2.0	0.0	Y	VEG
132	109	60	80	24.0	16.0		38	3.0	RUN	1	40	60	0	0	0.0	1.5	0.5	0.5	2.0	2.5	0.0	0.0	0.0	0.0	Y	VEG
133	109	60	80	21.5	17.5		39	2.0	RUN	1	25	20	30	25	1.0	2.0	1.5	1.5	1.0	2.0	0.0	0.0	0.5	0.0	N	
134	109	60	80	21.0	19.0		24	1.5	RUN	1	10	0	70	20	0.0	2.5	0.5	2.0	0.5	0.5	0.0	1.5	0.0	0.0	N	
135	187	40	80	19.0	22.0		60	50.0	POND	2	100	0	0	0	0.5	1.0	0.5	2.0	1.0	0.0	0.0	2.5	2.0	2.0	N	
136	74	40	40	19.0	8.0		13	1.0	RIFFL	0	0	0	90	10	0.0	1.0	3.0	1.0	0.0	0.0	0.0	1.0	0.5	0.0	N	
137	74	40	40	18.5	9.0		18	1.0	RIFFL	1	0	0	35	65	0.0	1.0	2.5	0.0	0.5	1.5	0.0	0.5	0.0	0.5	Y	VEG

#	cond	hard	alka	T.	T.		dep.	wid.	body	gra-zing	Substrate mud	sand	grav	rock	Streamside veg. sgbr	gras	forb	reed	bare	will	cott	Aquatic veg emer	subm	alga	Hideaway Y or N	type
138	74	40	40	20.0	12.0		12	1.0	RIFFL	3	0	0	80	20	1.0	0.5	2.5	0.0	2.0	2.0	0.0	1.0	0.0	0.0	Y	VEG
139	74	40	40	19.5	13.0		8	2.5	RIFFL	3	0	0	20	80	1.5	0.0	2.0	0.0	2.5	2.5	0.0	2.0	0.5	0.0	Y	VEG
140	74	40	40	23.5	13.0		6	2.0	RUN	3	50	50	0	0	0.0	0.0	2.0	0.0	2.5	3.0	0.0	0.0	0.0	0.0	Y	VEG
141	0	40	40	14.5	8.0		24	1.0	RUN	1	100	0	0	0	0.0	1.0	1.0	2.5	0.0	2.5	0.0	2.5	3.0	3.0	Y	ALGAE
142		40	40	18.0	13.0		60	13.0	POOL	1	20	50	30	0	0.5	1.0	2.0	2.5	0.5	0.0	0.0	2.5	3.0	3.0	Y	ALGAE
143		40	40	18.0	12.0		30	2.0	POOL	1	10	80	10	0	0.0	1.5	2.0	2.5	0.0	0.0	0.0	1.5	2.5	3.0	Y	ALGAE
144		40	40	18.0	11.0		25	3.0	POOL	1	100	0	0	0	0.0	0.5	2.5	2.0	1.0	3.0	0.0	1.0	3.0	3.0	Y	BRANCH
145		40	40	21.0	16.0		15	3.0	POOL	1	100	0	0	0	0.0	0.0	2.0	3.0	0.0	0.0	0.0	2.0	0.5	2.5	Y	ALGAE
146		40	40	20.0	20.0		32	5.0	RUN	1	100	0	0	0	0.5	0.5	0.5	3.0	0.0	1.0	0.0	1.5	2.5	3.0	Y	ALGAE
147		40	40	20.0	19.5		12	1.5	POOL	1	0	0	50	50	2.5	1.0	1.0	0.5	1.0	0.0	1.5	0.5	1.5	1.5	N	
148		40	40	21.0	17.0		4	0.5	RUN	1	0	5	5	90	0.0	2.0	1.5	2.0	0.0	1.5	0.0	1.5	0.5	1.5	Y	ALGAE
149	57	40	40	19.0	11.5		15	5.0	RUN	2	0	50	50	0	0.0	0.0	0.5	2.5	0.5	0.0	0.0	2.0	0.5	2.0	Y	ALGAE
150	57	40	40	26.0	11.0		15	2.5	OXBOW	3	40	60	0	0	0.5	0.5	2.0	0.0	2.5	2.5	0.0	0.0	0.0	0.0	N	
151	57	40	40	26.0	14.0		34	2.0	OXBOW	1	0	10	70	20	0.0	0.0	1.0	3.0	0.5	2.5	0.0	1.5	0.0	0.5	Y	VEG
152	61	80	40	26.0	23.0		15	4.0	POOL	1	0	50	50	0	0.0	0.0	1.5	2.0	2.0	2.5	0.0	2.0	2.0	0.5	Y	VEG
153	90	60	60	26.5	21.0		17	10.0	POOL	2	0	0	95	5	0.0	0.0	1.5	2.0	2.5	0.0	0.0	1.0	2.5	2.5	N	
154	90	60	60	24.5	23.0		25	4.0	RUN	1	0	0	30	70	0.0	1.0	1.0	1.0	2.0	2.5	0.0	0.5	0.0	2.5	Y	ALGAE
155	90	60	60	32.0	24.0		12	2.0	POOL	1	0	50	50	0	0.0	0.0	0.5	2.0	0.5	2.0	0.0	1.5	0.0	0.5	N	
156	77	60	80	19.0	16.0		6	0.5	POOL	2	0	0	60	40	1.0	2.5	0.5	1.0	0.5	0.0	0.0	1.0	0.0	1.5	N	
157	106	60	80	15.5	13.0		100	6.0	RUN	1	0	80	0	20	0.0	0.5	0.5	2.0	2.5	0.0	0.0	0.5	0.5	2.0	Y	ALGAE
158	103	60	80	28.0	14.0		5	1.0	RIFFL	0	0	0	0	100	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.5	0.0	2.0	Y	ALGAE
159	106	60	80	24.5	17.0		15	4.0	RUN	1	0	0	30	70	2.0	0.5	0.5	2.0	0.5	2.0	0.0	1.0	0.0	1.0	Y	ALGAE
160	103	60	80	25.5	17.5		52	5.0	RUN	1	0	0	60	40	0.5	1.0	1.0	1.0	2.5	2.0	0.0	0.0	0.0	0.5	N	
161	103	60	80	32.0	24.0		15	0.8	OXBOW	0	0	0	0	100	0.0	0.0	1.5	2.0	2.0	2.0	0.0	2.0	0.0	0.5	Y	ROCK
162	104	80	80	25.5	16.0		20	0.5	RUN	1	0	0	0	100	0.0	2.5	1.0	2.5	0.5	0.0	0.0	2.0	0.0	2.5	Y	ALGAE
163	79	60	80	24.5	14.5		15	12.0	POND	1	100	0	0	0	1.0	2.0	1.0	2.5	0.0	0.0	0.0	2.5	1.0	0.5	Y	VEG
164	35			28.0	26.0		5	0.1	RIFFL	3	0	90	10	0	2.5	1.0	1.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	N	
165					22.0		5	0.1	RIFFL	3	0	90	10	0	0.5	0.5	0.5	0.0	2.5	1.5	0.0	0.0	0.0	0.0	N	
166				25.5	13.0		5	0.1	RUN	3	0	70	30	0	0.5	0.0	0.5	0.0	2.5	2.0	0.0	0.0	0.0	0.0	N	
167	33			26.8	13.0		2	0.0	RUN	3	0	80	20	0	0.5	1.0	2.0	0.0	1.5	2.5	0.0	0.5	0.0	1.0	N	
168	33			26.5	15.0		5	1.0	RUN	3	0	90	10	0	0.0	0.5	0.5	0.0	2.0	2.5	0.0	0.0	0.0	0.0	N	
169	65	60	60	25.0	16.0		24	1.0	RUN	2	0	30	70	0	2.0	0.5	0.5	2.0	2.5	0.0	0.0	0.5	0.5	0.0	N	
170	65	60	60	23.0	13.0		15	1.5	OXBOW	2	100	0	0	0	0.5	0.5	1.0	2.5	0.5	0.0	0.0	2.5	1.0	0.0	Y	VEG
171	65	60	60	25.5	15.0		16	1.0	RUN	1	0	10	10	80	0.0	2.0	0.5	2.0	0.5	0.5	0.0	2.0	0.5	2.0	Y	ALGAE
172	65	60	60	21.0	20.0			8.0	OXBOW	2	40	20	20	20	0.5	2.5	1.0	1.5	0.5	0.5	0.0	1.5	2.0	1.5	Y	VEG

#	cond	hard	alka	T.	T.		dep.	wid.	body	gra-zing	Substrate mud	sand	grav	rock	Streamside veg. sgbr	gras	forb	reed	bare	will	cott	Aquatic veg emer	subm	alga	Hideaway Y or N	type
173	65	60	60	23.0	21.0		30	4.0	RUN	1	0	10	70	20	0.0	2.0	0.5	1.5	0.5	2.5	0.0	2.5	0.5	0.5	N	
174	65	60	60	26.0	20.0		35	2.0	RIFFL	1	0	0	30	70	0.5	1.0	1.0	1.0	2.0	1.0	0.0	0.5	0.0	1.0	Y	ROCK
175	315	60	80	26.5	14.0		12	1.5	RUN	2	0	0	80	20	0.5	0.0	0.5	0.0	2.5	2.0	0.0	0.0	0.0	2.0	N	
176	315	60	80	30.0	15.0		14	1.5	RUN	2	0	20	50	30	2.0	0.0	2.0	0.0	2.0	2.0	0.0	2.5	0.5	1.0	Y	VEG
177	315	60	80	30.0	17.5		15	0.5	RIFFL	2	0	10	20	70	1.5	0.5	1.5	0.0	2.5	2.0	0.0	0.5	0.0	0.0	N	
178	315	60	80	29.0	17.5		20	1.0	RIFFL	2	0	50	50	0	0.0	0.0	1.0	0.0	3.0	2.0	0.0	0.5	0.5	0.0	N	
179	129	60	80	19.0	12.0		16	1.0	RUN	1	50	50	0	0	0.5	2.5	2.5	0.0	1.0	2.5	0.0	0.5	0.0	2.0	Y	ALGAE
180	129	60	80	24.5	14.0		10	2.5	RIFFL	1	10	30	20	40	2.5	2.0	2.0	1.0	2.0	0.0	0.0	1.5	0.5	2.5	N	
181				23.0			0	1.5	DRY	1	0	0	70	20	1.0	2.0	0.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	N	
182				23.0			0	3.0	DRY	0	0	80	20	0	2.5	0.0	0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0		
183				23.0			0	16.0	DRY	1	0	70	20	10	2.5	0.0	0.5	0.0	3.0	0.0	0.0	0.0	0.0	0.0		
184				26.5			0	12.0	DRY	1	0	70	20	10	3.0	0.5	0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	N	
185				25.0			0	2.0	DRY	1	0	70	30	0	3.0	1.0	0.5	0.5	0.0	2.5	0.0	0.0	0.0	0.0	N	
186				26.5			0	3.0	DRY	1	0	80	20	0	3.0	1.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	N	
187				26.5			0	3.0	DRY	1	0	90	10	0	3.0	0.5	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	N	
188				26.0			0	1.0	DRY	0	0	80	20	0	2.0	0.5	0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	N	
189				26.0			0	2.0	DRY	0	0	80	20	0	2.5	2.0	0.5	0.0	2.0	0.0	0.0	0.0	0.0	0.0	N	
190				26.0			0	3.0	DRY	1	0	50	50	50	2.0	0.5	0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	N	
191							0	1.0	DRY	0	0	60	30	10	2.5	1.0	1.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	N	
192				28.0	29.0		16	1.0	RUN	1	0	30	30	40	2.0	1.0	0.5	0.0	1.5	0.0	0.0	0.0	0.0	1.5	N	
193	44	40	40	20.0	19.0		15	30.0	POND	1	70	30	0	0	0.0	0.5	2.0	2.5	0.0	0.0	0.0	2.5	1.0	0.5	Y	VEG
194	44	40	40	23.0	20.0		60	3.0	POND	1	0	100	0	0	0.5	0.0	0.5	2.0	2.5	0.0	0.0	1.5	2.0	0.5	Y	VEG
195	37	40	40	30.0	17.0		20	2.5	RUN	2	0	0	60	40	1.0	0.5	0.5	0.5	2.5	1.0	0.0	0.5	0.0	0.0	N	
196	37	40	40	29.0	16.0		7	2.0	RUN	1	0	0	80	20	0.0	2.0	1.5	0.5	2.0	2.5	0.0	0.5	0.0	2.0	Y	BANK
197							0	1.0	DRY	1	0	0	10	90	0.5	0.5	1.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	N	
198	80	80	40	20.0	11.0		41	1.0	RIFFL	0	0	0	50	50	0.0	2.0	2.0	0.5	2.0	1.5	0.0	0.5	0.5	0.0	Y	BANK
199	80	80	40	23.0	19.0		15	1.0	OXBOW	1	100	0	0	0	0.0	2.0	2.5	0.5	1.0	2.0	0.0	0.0	2.0	2.5	Y	ALGAE
200	80	80	40	23.0	21.0		15	1.0	POND	1	100	0	0	0	0.0	0.5	1.5	0.5	2.0	1.5	0.0	0.0	0.5	1.5	Y	ALGAE
201	80	80	40	27.0	15.0		45	2.0	RUN	1	20	50	30	0	0.0	2.5	1.5	1.5	0.5	2.0	0.0	0.0	2.0	0.5	N	
202					24		24	4	OXBOW	1	0	100	0	0	0	2	1	2.5	2	1.5	0	1.5	0.5	0.5	N	
203				29	23		20	1.5	RUN	1	0	70	30	0	0	1.5	2	0	2.5	2	0	0	0	0	Y	BRANCH
204				29	22		35	3	OXBOW	1	10	20	70	0	0	1.5	0.5	1.5	2.5	2	0	1	0	0.5	Y	BANK