

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat						Vegetative							
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall		
Columbia	Columbia River	1	1	5	3	1	2	2	2	3	2	2	2	4	5	3	2	3	2	2	3	2	3	2		
		2	2	4	3	2	3	2	2	2	2	2	2	4	4	3	3	3	3	3	3	3	3	4	3	
		3	4	1	4	1	3	4	3	3	3	3	3	4	4	3	1	4	3	2	3	5	4	4	3	
		4	4	1	4	1	2	3	3	3	3	3	3	3	4	3	1	4	3	1	3	5	3	4	3	
		5	1	1	1	1	1	1	3	2	1	3	2	2	5	1	1	3	2	1	2	5	4	1	2	
		6	1	1	1	1	1	1	5	4	3	5	4	3	5	3	2	4	3	2	4	5	4	1	3	
		7	1	1	1	1	1	1	4	3	3	3	3	5	5	3	2	5	4	3	5	5	5	1	4	
		8	5	1	5	5	5	3	4	3	3	4	3	5	5	3	4	5	4	4	5	5	5	5	5	
		9	1	1	1	1	1	1	4	2	2	4	3	1	4	3	1	2	2	1	2	5	3	1	2	
		10	1	1	1	1	1	1	4	1	2	3	2	2	3	5	1	2	3	2	2	4	4	1	2	
		11	4	1	1	1	1	2	4	1	2	3	3	1	1	3	1	1	1	1	1	3	3		2	
		12	4	1	2	1	1	2	4	2	4	4	3	1	1	3	2	2	2	1	2	3	3	1	2	
		13	4	1	5	1	1	3	5	3	5	3	4	3	4	5	2	4	4	1	4	5	4	4	3	
		14	1	1	1	1	1	1	5	3	5	5	4	1	4	3	1	3	2	1	3	5	3	1	3	
		15	1	1	1	1	1	1	4	3	5	4	4	2	2	3	1	3	2	1	3	4	3	1	2	
		16	1	1	1	1	1	1	5	3	5	5	4	2	3	1	2	3	2	1	3	4	3	1	2	
		17	4	1	5	1	1	3	5	3	3	4	4	4	5	3	1	5	4	2	4	5	4	5	4	
	18	Log Pond	1	1	1		1						4	3	5	1	3	3	2	2	4	4	3	3		
	19	Columbia River	5	1	5	1	1	3	5	5	3	5	4	5	5	5	2	5	4	1	5	5	5	5	4	
	21		3	2	4	1	1	3	4	3	2	4	3	4	5	3	3	4	4	3	3	5	4	5	4	
	22		4	1	5	5	5	4	4	4	3	5	4	4	5	3	4	5	4	3	4	5	4	5	4	
	23		2	3	4	1	1	2	4	3	2	4	3	3	4	5	1	2	3	1	3	4	3	5	3	
	24		5	1	5	1	1	3	4	5	3	5	4	5	5	3	2	5	4	3	5	5	5	5	4	
	25		4	1	4	1	1	3	4	3	3	5	4	4	3	3	2	4	3	2	4	4	4	3	3	
	26		1	1	1	1	1	1	4	3	2	4	3	4	4	5	1	3	3	1	2	5	4	1	2	
	31		4	1	5	1	1	3	5	4	3	5	4	5	5	3	2	5	4	3	4	5	4	4	4	
	32		2	3	4	1	1	2	4	3	3	3	3	2	4	3	2	3	3	2	3	4	3	3	3	
	33		1	1	1	5	5	2	5	4	3	5	4	5	5	1	5	5	4	2	4	5	4	1	3	
	34		1	1	1	1	1	1	4	3	1	3	3	2	4	3	4	2	3	1	1	5	3	1	2	
	35		4	1	4	1	1	2	4	3	3	5	4	4	3	3	3	4	3	1	3	4	3	2	3	
	36		1	1	1	1	1	1	3	2	2	4	3	2	4	5	3	3	3	2	3	5	4	1	3	
	37		1	1	1	1	1	1	4	3	3	5	4	4	4	5	3	4	4	2	4	5	4	1	3	
	38		4	1	4	1	1	2	4	3	3	5	4	4	3	3	2	4	3	1	3	4	3	3	3	
	39		5	1	5	1	1	3	5	4	3	5	4	5	5	5	4	5	5	4	5	5	5	5	5	
	40		4	1	5	5	5	4	3	3	3	4	3	4	5	3	3	5	4	2	4	5	4	4	4	
	41		Owl Creek	5	1	5	1	3	5	4	3	5	4	5	5	5	4	5	5	3	4	5	5	5	5	4
	Cowlitz		Cowlitz River	1	5	1	5	1	3	4	3	3	4	4	5	5	3	2	5	4	2	5	5	5	5	4
		9		1	1	1	1	1	4	3	3	4	3	3	4	5	2	3	4	1	3	5	4	1	3	
		10		1	1	1	1	1	1	3	3	2	2	2	2	3	2	2	2	1	2	3	3	1	2	
			11	2	3	3	1	2	3	3	4	4	3	2	4	5	2	3	3	2	3	4	3	3	3	

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Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall	
Cowlitz	Cowlitz River	12	1	1	1	1	1	4	2	1	3	2	1	2	3	2	1	2	1	1	4	3	1	2	
		13	1	1	1	1	1	4	3	3	3	3	1	3	5	2	2	3	1	2	4	3	1	2	
		14	1	1	1	1	1	4	2	2	4	3	3	5	5	3	3	4	2	3	4	4	1	3	
		15	4	2	5	1	3	5	3	3	5	4	2	5	5	4	3	4	2	3	5	4	5	4	
		16	4	1	5	1	3	5	3	3	5	4	5	5	3	3	5	4	2	4	5	4	5	4	
		17	3	1	4	1	2	4	3	2	3	3	3	2	5	5	3	3	4	2	2	5	3	4	3
		24	4	1	4	1	2	4	2	2	2	2	3	3	5	5	2	4	4	2	3	5	4	4	3
		25	4	1	5	1	3	5	3	3	3	4	3	2	5	5	1	3	3	2	3	5	4	5	4
		26	4	1	5	1	3	5	3	3	3	3	3	3	5	5	1	3	3	3	4	5	4	5	4
		27	4	3	3	1	3	4	2	1	3	2	2	3	5	5	2	2	3	2	2	4	4	5	3
		28	4	1	5	1	3	5	3	3	3	4	3	2	5	5	2	4	4	2	3	5	3	5	4
		29	4	2	5	1	3	5	4	4	4	4	4	3	5	3	3	4	4	3	4	5	4	5	4
	30	4	2	5	2	3	4	4	4	4	3	4	4	5	3	2	4	4	4	4	5	5	5	4	
	31	4	1	5	1	3	5	4	4	4	4	4	3	5	5	4	4	4	2	4	5	4	5	4	
	Coweeman River	47	4	2	4	2	3	4	4	4	4	4	3	5	5	4	4	4	3	4	5	4	4	4	4
		48	3	3	5	2	3	4	5	5	5	4	4	5	3	4	4	4	4	5	4	4	4	5	4
		49	3	4	4	4	4	3	4	4	2	3	5	5	3	4	3	4	5	4	4	4	4	5	4
		50	3	5	4	3	4	3	4	4	2	3	5	5	3	4	3	4	5	4	3	4	5	5	4
		51	4	2	4	2	3	3	4	4	2	3	5	5	3	4	3	4	4	4	4	5	5	5	5
		52	3	3	1	3	3	3	3	3	3	1	2	5	5	5	4	3	4	5	3	4	4		4
		53	5	1	4	4	4	5	4	4	4	2	3	5	5	3	4	3	4	5	4	5	5	5	5
		54	5	1	4	5	4	5	3	4	4	2	3	5	5	5	4	3	4	5	4	5	5	5	5
		55	3	2	4	3	3	3	3	3	3	2	3	4	5	3	4	3	4	3	3	5	4	5	4
		56	3	3	4	3	3	3	3	3	3	2	3	5	5	5	4	3	4	5	4	4	4	5	4
		57	2	5	5	4	4	2	3	4	4	3	3	5	5	3	4	3	4	5	5	3	3	5	4
		58	3	2	5	2	3	5	5	5	5	3	4	5	5	5	4	4	4	4	5	5	5	5	5
	59	4	1	5	2	3	5	5	5	5	4	5	5	5	3	3	4	4	4	5	5	5	5	5	
	60	3	2	4	3	3	4	3	3	4	3	3	5	5	3	3	3	4	5	4	5	5	5	5	
	Goble Creek	61	3	3	4	2	3	3	4	4	2	3	5	5	5	3	3	4	4	4	4	5	5	4	
		62	2	5	1	4	3	2	3	3	1	2	5	5	5	3	2	4	5	3	3	3		4	
Goble Creek, N F	63	3	4	4	2	3	3	3	3	2	3	5	5	5	3	3	4	5	4	4	4	5	4		
	64	2	5	1	3	3	2	2	3	1	2	5	5	5	3	2	4	5	3	3	3		4		
Mulholland Creek	65	3	4	1	3	3	2	3	3	1	2	5	5	5	3	2	4	4	3	4	4		4		
Baird Creek	66	2	5	3	3	3	2	2	3	1	2	5	5	5	4	2	4	4	3	3	3	5	4		
Coweeman River, U T	67	2	5	1	4	3	2	2	2	1	2	5	5	5	3	2	4	5	3	3	3		4		
Ostrander Creek	68	3	3	4	3	3	3	3	4	3	3	4	5	5	2	3	4	4	4	4	4	5	4		
	69	3	2	4	3	3	4	4	4	2	3	5	5	5	3	3	4	5	4	5	5	5	5		

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Cowlitz	Ostrander Creek, S F	70	4	3	4	2	3	3	2	3	2	2	5	5	5	3	3	4	4	4	4	5	5	4	
	Salmon Creek	71	3	4	4	1	3	4	3	3	2	3	2	4	5	2	2	3	2	2	3	3	5	3	
	Arkansas Creek	73	5	5	3	3	4	3	3	3	2	2	4	5	5	1	2	3	4	3	3	5	5	4	
		75	4	1	5	1	3	4	4	4	5	4	3	5	5	3	4	4	3	4	5	4	5	4	
		76	3	5	1	2	3	2	3	3	1	2	5	5	5	3	2	4	5	3	3	4		4	
	Delameter Creek	77	5	2	4	1	3	4	4	4	3	3	4	5	5	3	3	4	4	4	5	5	5	4	
	Monahan Creek	78	3	4	3	1	3	2	3	3	2	2	5	5	5	3	2	4	4	3	4	4	5	4	
		79	3	4	1	3	3	3	3	3	1	2	5	5	5	3	2	4	5	3	4	4		4	
	Toutle River	80	4	1	3	2	3	4	2	2	2	3	3	4	3	2	3	3	3	3	5	4	3	4	
		81	4	1	4	1	2	4	2	2	2	3	2	4	5	2	3	3	3	2	3	5	4	4	3
		82	3	3	4	3	3	4	2	2	2	2	4	5	5	3	3	4	3	3	4	4	5	4	
		83	3	5	4	5	4	3	2	3	2	2	5	5	5	4	4	4	5	4	4	3	4	5	4
		84	5	2	1	3	3	3	1	1	1	1	4	5	5	3	3	4	5	3	5	5	1	4	
		85	4	3	2	3	3	3	1	2	1	2	3	4	5	3	2	2	3	3	2	4	4	2	3
		86	5	1	4	3	3	4	2	2	2	2	3	4	5	5	3	3	4	4	4	5	5	4	4
		87	3	2	4	4	3	4	2	2	2	2	2	4	5	3	4	4	4	5	4	5	4	4	4
		88	3	2	4	3	3	4	2	2	2	2	2	4	5	5	4	4	4	4	4	5	4	4	4
	Toutle River, N F	89	5	1	4	1	3	4	2	2	2	3	4	5	5	3	4	4	4	3	4	5	5	5	4
		90	3	2	4	3	3	4	2	2	2	3	4	5	5	4	3	4	4	4	4	5	4	5	4
		91	4	1	2	1	2	3	2	2	2	2	5	2	5	3	3	4	2	3	4	4	1	3	
		92	4	1	2	1	2	3	2	2	2	2	4	2	5	3	3	3	3	1	2	4	3	2	2
		93	4	1	3	1	2	4	2	2	2	2	3	4	5	3	3	4	1	3	5	4	3	3	
		94	4	1	2	1	2	4	2	2	2	2	2	4	3	5	2	3	3	2	3	4	4	2	3
	Toutle River, S F	95	5	1	4	3	3	4	2	2	2	2	4	5	5	3	4	4	4	4	4	5	5	4	4
		96	5	1	5	2	3	5	3	3	3	3	4	5	5	3	4	4	4	4	4	5	5	5	5
		97	4	1	4	1	3	4	3	3	3	3	3	5	5	3	4	4	3	4	4	5	4	4	4
		98	3	2	4	3	3	4	3	3	3	3	4	5	5	3	4	4	3	4	4	5	4	4	4
99		3	4	5	3	4	4	3	4	3	3	5	5	5	4	4	4	4	4	5	4	4	5	4	
100		4	1	5	2	3	3	3	3	3	3	4	5	5	2	4	4	4	4	4	5	5	5	5	
101		4	1	3	1	2	3	3	3	3	3	3	2	3	5	2	3	3	2	3	4	4	2	3	
102		4	1	1	1	2	3	1	1	1	1	1	4	5	5	3	3	4	1	3	5	5	1	3	
Outlet Creek	103	5	1	4	3	3	5	2	3	2	3	5	5	5	3	3	4	4	4	5	5	5	5	5	
	104	5	1	4	1	3	4	2	2	2	2	5	5	3	3	4	4	3	4	5	5	5	5	4	
Silver Lake	105	4		2		3						2	2	1	3	2	2	2	2	4	4	1	2		
	106	5		5		5						5	5	1	3	5	4	3	5	5	5	5	5	5	
	107	5		3		4						5	5	5	3	4	4	4	4	4	5	5	4	4	

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Cowlitz	Silver Lake	108	5		4		4						5	5	3	4	3	4	5	4	5	5	5	5	5	
		109	5		4		4						4	5	1	3	4	4	3	4	5	5	4	4	4	
		110	5		3		4						5	5	3	3	4	4	3	4	5	5	4	4	4	
		111	5		3		4						4	4	1	3	3	3	4	4	5	5	3	4	4	
		112	3		3		3						3	3	1	3	2	3	3	3	4	4	3	3	3	
	113	5		5		5						5	5	3	4	5	4	3	5	5	5	5	5	5	5	
	Sucker Creek	114	5		5		5	5	5	3	3	4	5	5	5	3	5	5	3	5	5	5	5	5	5	5
	Silver Lake	115	5		5		5						5	5	3	5	5	4	3	5	5	5	5	5	5	5
	Hemlock Creek	116	5	1	4	2	3	4	4	2	2	3	5	5	3	3	4	4	3	3	5	5	5	5	4	4
		117	4	1	4	1	2	4	3	2	2	3	4	5	3	3	4	4	2	3	5	4	5	5	4	4
	118	3	3	1	3	3	3	3	3	2	2	2	5	5	5	3	2	4	4	3	4	4			4	4
	Studebaker Creek (2)	119	4	2	3	3	3	4	2	1	1	2	5	5	5	3	2	4	5	3	5	5	4		4	4
	Johnson Creek	120	4	3	5	3	4	4	3	3	3	3	5	5	5	3	3	4	4	5	4	5	5	5	4	4
	Toutle River, S F, U T (5)	121	2	5	1	3	3	2	3	3	1	2	5	5	5	3	2	4	4	3	3	3			3	3
	Bear Creek (2)	122	3	5	3	5	4	3	2	3	1	2	5	5	5	3	2	4	5	3	3	4	5	5	4	4
	Harrington Creek	123	4	2	4	3	3	3	3	3	2	2	5	5	5	3	3	4	5	4	5	5	5	5	5	5
	Toutle River, S F, U T (4)	124	3	5	4	4	4	3	2	3	2	2	5	5	5	3	3	4	5	4	3	4	5	5	4	4
	Trouble Creek	125	3	5	3	4	4	3	2	3	1	2	5	5	5	3	2	4	5	3	3	5	5	5	4	4
	Toutle River, S F, U T	126	3	3	1	3	3	3	1	2	1	2	5	5	5	3	3	4	3	3	4	4			4	4
	Toutle River, S F, U T (3)	127	3	3	1	3	3	3	1	1	1	1	5	5	5	3	3	4	3	3	4	4			4	4
Coldspring Creek	128	3	3	1	3	3	3	1	1	1	1	5	5	5	3	2	4	3	3	4	4			4	4	
	129	4	5	4	4	4	4	4	2	2	3	5	5	5	2	4	4	4	4	3	5	5	5	4	4	
Toutle River, S F, U T (2)	130	5	1	1	1	2	3	1	1	1	2	5	5	5	3	2	4	2	3	5	5			4	4	
Wyant Creek	131	5	1	5	2	3	5	4	4	3	4	4	5	5	5	3	4	3	4	5	5	5	5	4	4	

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Cowlitz	Wyant Creek, UT	132	3	3	4	3	3	4	3	3	2	3	5	5	5	2	3	4	4	4	4	4	5	4	
	Green River	133	3	3	5	4	4	4	3	4	3	3	5	5	5	4	4	4	5	5	4	4	5	5	
	Green River	134	5	1	4	3	3	4	2	3	3	3	5	5	5	3	3	4	4	4	5	5	5	5	
	Devils Creek	135	3	3	5	3	3	4	4	5	3	4	5	5	5	2	3	4	5	5	4	4	5	5	
	Green River, UT	136	2	4	3	3	3	3	1	3	1	2	4	5	5	2	2	4	4	3	4	3	5	4	
	Shultz Creek	137	3	5	4	4	4	2	2	3	2	2	5	5	5	2	3	4	4	4	3	4	5	4	
	Alder Creek	138	3	2	1	3	2	3	2	3	1	2	4	5	5	3	2	4	4	3	5	4		4	
	Hoffstadt Creek	139	3	3	3	3	3	2	2	2	2	2	4	5	5	2	3	4	3	3	4	4	4	4	
	Bear Creek	140	4	1	1	1	2	4	1	1	1	2	5	5	5	2	4	4	2	3	5	5		4	
	Deer Creek	141	3	3	3	3	3	3	2	3	2	2	4	5	5	3	3	4	4	3	4	4	4	4	
	Castle Creek	142	5	1	1	1	2	4	1	1	1	2	4	4	5	3	2	4	1	3	5	5		3	
	Castle Lake	143	2		3		3						4	5	5	3	2	4	2	3	3	3	5	3	
	Maratta Creek	144	5	1	1	2	2	4	1	1	1	2	5	5	5	3	3	4	2	3	5	5		4	
	Coldwater Creek	145	4	1	3	1	2	4	1	1	1	2	3	4	5	3	3	4	2	2	5	4	4	3	
	South Coldwater Creek	146	5	1	4	1	3	4	2	2	2	2	5	5	5	2	4	4	2	3	5	5	5	4	
	Coldwater Lake	147	3		4		3						5	5	5	3	3	4	2	4	4	4	5	4	
	Studebaker Creek	148	4	1	2	1	2	4	2	2	2	2	2	3	5	1	2	3	1	2	4	4	2	3	
	Fawn Lake	149	3		1		2						4	5	5	3	3	4	1	3	3	4		3	
	Olequa Creek	150	2	4	5	2	3	4	4	5	3	4	4	5	5	2	4	4	3	4	4	4	3	5	4
	Stillwater Creek	151	4	1	5	2	3	5	4	4	3	4	4	5	5	3	3	4	4	4	5	5	5	5	5
152		5	2	4	3	3	4	3	4	2	3	5	5	5	3	3	4	5	4	5	5	5	5	5	
Campbell Creek	153	5	1	4	1	3	5	4	4	4	4	5	5	5	3	3	4	4	4	4	5	5	5	5	
	154	5	1	5	2	3	5	3	3	4	4	4	5	5	3	4	4	3	4	5	5	5	5	4	
	155	4	1	4	1	2	4	4	4	5	4	2	3	5	3	3	3	2	3	4	4	3	3	3	
	156	5	1	5	3	3	5	4	4	4	4	5	5	5	3	4	4	5	5	5	5	5	5	5	
Salmon Creek (2)	157	3	5	1	3	3	2	2	2	1	2	5	5	5	3	2	4	5	3	3	4		4		
ama Kalama River	1	4	1	5	1	3	5	5	3	4	4	3	5	1	2	4	3	2	4	5	4	5	5	4	
	2	1	1	1	1	1	5	5	3	5	4	5	5	3	3	5	4	2	4	5	4	1	3		
	3	5	1	5	1	3	5	4	5	5	5	5	5	3	4	5	4	4	5	5	5	5	5	5	

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat						Vegetative									
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall				
Kalama	Kalama River	7	4	1	5	1	3	5	4	4	5	4	4	5	5	2	5	4	4	5	5	5	5	5	5			
		10	5	1	5	1	3	3	3	3	5	4	4	5	5	1	4	4	5	5	5	5	5	5	5	5		
		12	3	3	5	3	3	3	3	3	3	4	3	4	5	5	1	3	4	4	4	4	4	5	4	4		
	Kalama	Kalama River	13	2	4	4	3	3	2	3	3	2	2	4	5	3	2	3	3	4	4	4	4	3	5	4	4	
			14	3	2	5	2	3	3	4	3	4	4	4	3	5	3	3	4	3	3	4	5	4	5	4	4	
			15	3	3	5	3	3	3	4	3	4	4	4	4	5	3	3	4	4	4	4	4	4	5	4	4	
			17	2	5	4	3	3	4	3	3	4	2	3	5	5	5	3	3	4	5	4	3	3	5	4	4	
			18	3	4	4	3	3	3	3	3	4	2	3	5	5	5	3	3	4	4	4	4	4	4	4	4	
			19	3	4	4	3	3	3	3	3	4	2	3	5	5	3	3	3	4	4	4	4	4	5	4	4	
			20	3	3	5	3	3	3	4	4	4	3	4	4	5	5	3	4	4	4	4	4	4	5	4	4	
			21	4	4	4	3	3	4	4	3	3	2	3	5	5	5	3	3	4	4	4	4	5	5	4	4	
			22	3	4	4	3	3	4	3	3	3	2	3	5	5	5	3	3	4	5	4	4	4	5	4	4	
			23	3	4	3	3	3	3	3	3	3	2	3	5	5	3	3	3	4	5	4	4	4	4	4	4	
			24	3	3	4	4	4	3	3	2	3	2	2	5	5	3	3	3	4	5	4	4	4	5	4	4	
			25	2	5	3	4	4	4	3	2	2	1	2	5	5	5	3	3	4	5	3	3	3	5	4	4	
			26	3	4	4	4	4	4	4	3	3	4	3	5	5	5	4	3	4	5	4	4	4	5	4	4	
			27	5	3	4	4	4	4	4	2	3	2	3	5	5	5	3	3	4	5	4	4	5	5	5	5	
			28	3	4	3	5	5	4	3	2	2	2	2	5	5	5	3	3	4	5	4	4	4	4	4	4	
			Kalama	Kress Lake	30	5		1		3						5	5	5	4	2	4	4	3	5	5		4	4
				Little Kalama River	31	3	5	5	3	4	3	4	5	3	4	5	5	5	4	3	4	5	5	3	4	5	4	4
	Wild Horse Creek	32		2	5	1	2	3	2	2	3	1	2	5	5	5	4	2	4	5	3	3	3		4	4		
	Gobar Creek	33		3	5	1	3	3	2	3	3	1	2	5	5	5	4	2	4	5	3	3	4		4	4		
	Bear Creek (3)	34		2	5	1	1	2	2	3	3	1	2	5	5	5	4	2	4	4	3	3	3		3	3		
	Arnold Creek	35		2	5	1	3	3	2	3	3	1	2	5	5	5	4	2	4	5	3	3	3		4	4		
	Jacks Creek	36		3	5	1	4	3	2	3	3	1	2	5	5	5	4	2	4	5	3	3	4		4	4		
	Elk Creek	37		3	5	1	4	3	2	2	3	1	2	5	5	5	4	2	4	5	3	3	4		4	4		
	Wolf Creek	38		3	4	1	4	3	3	2	3	1	2	5	5	5	4	2	4	5	3	4	4		4	4		
	Langdon Creek	39		3	4	3	5	4	3	2	2	1	2	5	5	5	4	2	4	5	3	4	4	5	4	4		
Kalama	Kalama River, N F	40	3	5	3	4	4	3	2	2	1	2	5	5	5	4	3	4	5	3	3	4	5	4	4			
	Kalama River, U T	41	3	5	1	4	3	2	2	2	1	2	5	5	5	4	2	4	4	3	3	4		3	3			
	Fossil Creek	42	2	5	3	4	4	3	2	2	1	2	5	5	5	4	2	4	5	3	3	3	5	4	4			
		43	3	5	1	4	3	2	2	2	1	2	5	5	5	2	2	4	4	3	3	4		3	3			

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat						Vegetative					
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall
Kalama	Fossil Creek, UT	44	2	5	1	5	3	2	2	2	1	2	5	5	5	2	2	4	5	3	3	3		4
		45	3	5	1	5	4	3	2	2	1	2	5	5	5	2	2	4	5	3	3	4		4
	Dryer Glacier	46	5	1	1	5	3	3	1	1	1	2	5	5	5	2	2	4	5	3	5	5		5
	Dry Creek	47	3	2	1	4	3	3	2	2	1	2	5	5	5	4	3	4	5	3	5	5		4
	Merrill Lake	48	3		3		3						5	5	5	3	4	4	4	4	5	5	4	4
		49	3		4		3						4	5	3	4	4	4	5	4	5	4	4	4
		50	5		3		4						5	5	5	4	3	4	4	3	4	5	4	4
51		3		3		3						4	5	3	4	3	4	5	3	4	4	3	4	
	52	3		5		4						5	5	3	3	4	4	5	5	3	4	5	4	
Lewis	Lewis River	1	1	1	1	1	1	4	3	2	4	3	2	4	3	3	2	3	2	2	5	4	1	3
		2	1	1	1	1	1	4	3	3	4	4	2	4	3	2	3	3	2	3	5	4	1	3
		3	1	1	1	1	1	4	3	3	4	3	2	4	5	2	3	3	1	2	5	3	1	2
		4	4	1	5	1	3	5	3	3	5	4	3	4	3	1	4	3	1	3	5	3	4	3
	Horseshoe Lake	5	1		1		1						2	4	5	1	2	3	2	2	5	4	1	3
	Lewis River	17	4	1	2	1	2	4	4	4	4	4	1	2	5	1	2	2	1	2	4	3	1	2
		18	4	1	5	1	3	4	4	4	5	4	3	4	3	1	4	3	2	4	5	4	4	4
		19	5	1	3	5	3	4	1	1	3	2	4	5	3	2	3	3	3	3	5	5	4	4
		20	4	1	4	2	3	4	3	4	4	4	3	4	5	1	3	3	3	3	5	4	4	4
	Lewis River	21	4	1	5	1	3	5	4	4	5	4	5	5	3	2	5	4	3	4	5	4	5	4
		22	4	1	5	1	3	5	4	5	5	4	3	5	5	2	4	4	2	4	5	4	4	4
		23	3	3	4	2	3	4	4	4	5	4	4	5	5	2	4	4	4	4	4	4	4	4
		24	4	3	4	2	3	4	3	4	3	3	3	3	3	5	3	3	3	3	4	3	4	3
		25	2	5	5	1	3	3	4	4	3	3	4	5	5	3	4	4	4	4	3	3	5	4
		26	2	4	5	1	3	4	4	4	4	3	4	4	5	3	3	4	4	3	5	4	3	5
	Lake Merwin	27	4		3		3							3	5	3	3	3	3	2	3	5	4	3
		28	3		4		3							5	5	3	5	3	4	5	4	3	4	5
		29	2		1		2							5	5	3	4	3	4	5	3	3	3	
		30	4		4		4							5	5	3	5	4	4	5	4	4	5	5
		31	4		4		4							5	5	1	4	3	4	5	4	4	5	5
32		3		3		3							5	5	5	3	3	4	5	4	3	4	4	
33		2		3		3							4	5	3	3	3	4	5	3	4	3	4	
34		3		3		3							5	5	5	4	3	4	5	4	4	4	4	
35		5		3		4							4	5	1	2	3	3	5	3	5	5	3	
36		4		4		4							5	5	3	4	4	4	5	4	4	5	4	
	37	5		4		5							5	5	3	4	3	4	4	4	4	5	4	
	38	5		3		4							4	5	3	4	3	4	3	3	5	5	4	
	39	5		5		5							5	5	3	4	4	4	5	5	5	5	5	
	40	5		5		5							4	5	3	4	3	4	4	4	5	5	5	

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat					Vegetative							
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall	
Lewis	Yale Lake	41	3		4		3						5	5	5	4	3	4	4	4	4	4	5	4	
		42	4		1		3						3	4	3	4	3	3	2	2	5	4	1	3	
		43	5		4		4						5	5	5	4	3	4	5	4	5	5	5	5	5
		44	5		4		4						5	5	5	4	3	4	5	4	5	5	5	5	5
		45	4		3		4						5	5	5	4	2	4	5	3	5	5	5	5	5
	Yale Lake	46	2		4		3						3	4	5	4	2	4	3	3	3	2	5	5	3
		47	5		4		4						4	5	3	4	3	4	4	3	5	5	5	5	4
		48	4		4		4						5	5	3	4	4	4	4	4	5	5	5	5	5
		49	5		4		4						4	5	5	4	3	4	3	4	5	5	4	4	4
		50	5		5		5						5	5	3	4	4	4	4	4	5	5	5	5	5
	Cape Horn Creek	51	2	5	1	3	3	2	2	3	1	2	5	5	5	3	2	4	5	3	3	3			4
	Jim Creek	52	4	5	1	4	3	3	2	3	1	2	5	5	5	3	2	4	5	3	3	5			4
	Rock Creek	53	2	5	1	4	3	2	2	3	1	2	5	5	5	4	2	4	5	3	3	3			4
	Brooks Creek	54	2	5	1	1	2	2	2	3	1	2	5	5	5	3	2	4	5	3	3	3			4
	Speelyai Creek	55	4	2	4	2	3	4	3	4	2	3	5	5	5	3	3	4	5	4	5	5	5	5	5
		56	4	1	5	2	3	5	4	4	3	4	5	5	5	3	3	4	4	5	5	5	5	5	5
		57	5	1	4	3	3	5	4	4	2	4	5	5	5	3	3	4	4	4	5	5	5	5	5
		58	3	4	3	3	3	3	2	3	1	2	5	5	5	3	3	4	5	3	4	4	5	5	4
	Speelyai Creek, U T	59	2	5	1	3	3	2	2	3	1	2	5	5	5	3	2	4	5	3	3	3			4
	Speelyai Creek, W F	60	2	5	1	5	3	2	2	3	1	2	5	5	5	3	2	4	5	3	3	3			4
Speelyai Creek Diversion Ditch	61	5	1	1	2	2	4	3	3	1	3	5	5	5	3	2	4	4	3	5	5			4	
Dog Creek	62	5	1	1	2	2	4	1	2	1	2	5	5	5	3	2	4	5	3	5	5			5	
Cougar Creek	63	4	2	1	5	3	4	2	1	1	2	5	5	5	5	3	4	5	3	5	5			4	
	64	3	4	1	4	3	3	2	3	2	2	5	5	5	5	2	4	5	3	4	4			4	
Panamaker Creek	65	2	5	1	4	3	2	2	3	1	2	5	5	5	4	2	4	5	3	3	3			4	
Glacial runoff, unnamed	66	3	2	1	2	2	4	1	1	2	2	3	5	3	3	3	3	3	2	5	4			3	
ethy, y	Mill Creek	1	3	3	4	2	3	3	4	2	3	5	5	5	3	3	4	5	4	4	4	4	5	5	4
	Mill Creek, S F	2	5	3	3	2	3	3	2	3	1	2	5	5	5	3	2	4	5	3	4	5	5	5	4

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			Hydrologic					Hyporheic (Riverine Only)					Habitat					Vegetative							
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall	
Mill, Abernethy, Germany	Mill Creek	3	5	1	4	2	3	4	3	4	2	3	5	5	5	3	3	4	5	4	5	5	5	5	
	Spruce Creek	4	2	5	1	4	3	2	3	3	1	2	4	5	5	3	2	4	5	3	3	3		3	
	Abernethy Creek	5	3	3	4	2	3	3	3	4	2	3	5	5	5	4	3	4	4	4	4	5	5	4	
	Cameron Creek	6	3	3	1	3	3	2	3	3	1	2	5	5	5	3	2	4	5	3	4	4		4	
Mill, Abernethy, Germany	Abernethy Creek	7	3	2	4	2	3	3	3	4	2	3	5	5	5	3	3	4	4	4	5	5	5	4	
		8	4	1	4	1	3	5	3	4	2	3	5	5	5	3	3	4	4	4	5	5	5	5	
		9	4	3	1	3	3	2	2	3	1	2	5	5	5	3	2	4	5	3	4	5		4	
	Ordway Creek	10	4	2	1	2	2	4	2	3	1	2	5	5	5	3	2	4	5	3	5	5		4	
	Germany Creek	11	3	4	4	1	3	3	3	4	2	3	5	5	5	3	3	4	5	4	4	4	4	5	4
		12	4	2	4	1	3	4	3	4	2	3	5	5	5	3	3	4	4	4	4	5	5	5	5
		13	2	5	1	3	3	1	3	3	1	2	5	5	5	2	2	4	5	3	3	3		4	
	Coal Creek	14	3	2	3	1	2	2	4	3	2	2	3	3	3	3	3	3	3	2	3	4	4	4	3
		15	1	5	1	1	2	4	5	5	5	5	5	5	5	3	4	5	4	5	5	3	5	1	4
		16	1	1	1	1	1	1	4	3	2	4	3	5	5	3	4	4	4	1	2	5	3	1	2
		17	1	4	5	4	4	3	4	5	3	5	4	5	5	3	3	5	4	3	5	5	5	1	4
		18	1	1	1	1	1	1	4	3	2	4	3	2	3	5	2	3	3	1	2	4	3	1	2
19		4	1	4	1	3	4	3	3	3	5	4	5	3	3	2	4	4	2	4	4	4	3	3	
20	4	1	5	1	3	4	4	4	3	5	4	4	5	5	2	4	4	4	4	5	5	5	5		
21	4	2	4	2	3	3	3	3	4	2	3	5	5	5	2	3	4	4	4	5	5	5	4		
Elochoman River, E F	22	3	4	1	2	2	3	2	2	1	2	5	5	5	2	2	4	5	3	4	4			4	
Upper Chehalis	Chehalis River, S F	1	3	4	1	2	3	3	2	3	1	2	5	5	5	3	2	4	4	3	4	4		4	
City of Kalama	Columbia River	27	1	1	1	1	1	5	4	3	5	4	5	5	3	3	5	4	3	5	5	5	5	1	4
		28	1	1	1	1	1	1	4	2	3	4	3	1	3	1	3	2	2	1	2	4	3	1	2
		29	1	1	1	1	1	1	4	2	3	4	3	2	2	1	2	2	2	1	2	4	3	1	2
		30	3	1	2	1	2	2	4	2	4	4	3	2	2	3	2	2	2	1	2	4	3	1	2
		4	4	1	4	1	3	5	5	3	5	4	5	4	5	2	5	4	2	4	5	4	1	3	
	5	2	4	3	3	3	3	3	2	3	4	3	4	3	5	2	2	3	4	3	3	3	3	3	

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat					Vegetative							
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall	
City of Kalama	Kalama River	6	3	2	5	2	3	5	4	3	5	4	5	5	5	1	4	4	5	5	5	5	5	5	5
		8	5	1	5	1	3	4	3	4	5	4	4	5	3	1	4	3	4	5	5	5	5	4	4
		9	5	1	5	1	3	5	4	3	5	4	5	5	5	3	5	5	3	5	5	5	5	5	4
	Kalama River	11	4	1	4	1	2	3	3	3	5	4	1	4	5	1	3	3	2	3	5	3	3	3	3
	Kress Lake	29	5	1	5		4						5	5	5	4	4	4	5	5	5	5	5	5	
City of Kelso	Columbia River	20	1	1	1	1	1	5	5	3	5	4	5	5	5	3	5	5	4	5	5	5	5	1	4
	Owl Creek	42	4	1	5	1	3	5	4	3	5	4	4	4	5	4	4	4	3	4	5	4	5	5	4
		43	3	3	4	2	3	4	4	4	3	3	3	5	5	5	2	3	4	5	4	4	5	5	5
	Cowlitz River	2	5	1	4	1	3	4	3	4	4	4	4	5	5	2	3	4	3	4	5	5	5	4	4
		3	4	1	3	1	2	4	3	3	4	4	3	4	3	3	3	3	3	3	3	5	4	3	4
		4	1	1	1	1	1	4	2	2	4	3	3	3	3	2	2	3	3	3	4	4	4	1	3
		5	1	1	1	1	1	4	2	2	4	3	2	3	5	2	3	3	2	3	4	4	4	1	3
		6	1	1	1	1	1	4	2	2	4	3	2	2	3	2	2	2	2	2	3	4	4	1	3
	Cowlitz River	7	1	1	1	1	1	4	5	3	3	5	4	4	5	5	2	4	4	3	4	5	5	1	4
		8	1	1	1	1	1	4	1	1	3	2	2	1	5	2	1	2	2	1	1	3	3	1	2
	Coweeman River	32	5	1	5	1	3	5	5	4	5	4	4	5	3	3	5	4	4	4	5	5	5	5	5
		33	1	1	1	1	1	4	3	2	4	3	2	3	5	2	3	3	1	2	4	3	1	1	2
		34	1	1	1	1	1	4	2	2	4	3	2	3	5	2	2	3	1	2	4	3	1	1	2
		35	5	1	5	1	3	5	5	3	5	4	5	4	4	5	3	4	4	4	5	5	5	4	5
		36	5	1	5	1	3	5	4	3	5	4	4	4	4	3	4	4	4	4	5	5	5	4	4
		37	4	1	4	1	3	5	4	3	4	4	4	3	4	5	3	4	4	3	4	5	4	4	4
		38	1	1	1	1	1	4	2	2	4	3	1	1	3	2	1	1	2	1	2	3	3	1	2
		39	1	1	1	1	1	4	2	1	3	3	3	2	4	5	3	2	3	2	1	5	3	1	2
		40	1	1	1	1	1	4	5	3	3	5	4	2	5	5	3	4	4	2	3	5	4	1	3
		41	1	1	1	1	1	4	3	2	4	3	2	2	5	5	3	3	4	1	2	5	3	1	2
42		1	1	1	1	1	4	3	2	4	3	2	2	4	5	3	3	3	2	3	5	4	1	3	
43		3	2	5	1	3	5	5	5	5	4	4	4	5	5	3	4	4	3	5	5	4	5	4	
44		4	1	5	1	3	5	4	5	5	5	5	3	5	5	4	4	4	2	4	5	4	5	4	
45	2	5	4	1	3	3	4	4	4	3	3	5	5	5	3	3	4	4	4	3	3	5	4		
46	4	1	5	2	3	5	4	4	4	5	4	5	5	5	4	5	5	3	5	5	5	5	4		
City of Castle Rock	Cowlitz River	18	5	1	5	1	3	5	3	3	4	4	5	4	5	3	4	4	4	5	5	5	4	5	
		19	1	1	1	1	1	4	3	2	3	3	3	3	2	2	3	2	3	3	4	4	1	3	
		20	3	1	3	1	2	5	3	3	5	4	3	5	2	2	3	2	3	4	5	3	4	3	
		21	1	1	1	1	1	4	3	3	4	4	3	3	2	2	2	2	2	3	3	3	4	1	3
		22	3	1	2	1	2	5	4	3	5	4	4	2	4	2	2	3	2	2	4	5	3	3	3
		23	2	1	2	1	2	4	2	2	3	3	3	3	4	2	2	3	2	3	3	5	3	3	3
	Salmon Creek	72	4	2	4	1	3	4	4	3	4	3	3	4	5	2	3	3	3	4	4	4	4	4	4

Appendix F: Shoreline Ecological Function Scores

			Hydrologic					Hyporheic (Riverine Only)					Habitat						Vegetative						
Assessment unit	Waterbody	Reach number	Moderated sediment delivery	Transport of sediment and water (Riverine Only)	Wave and/or flow attenuation	Development of pools, riffles, gravel bars, off channel habitats (Riverine Only)	Hydrologic Overall	Remove excess nutrients and toxic compounds	Water storage	Support of vegetation	Sediment storage and maintenance of base flows	Hyporheic Overall	Wetland/ riparian habitat	Shoreline vegetation	Direct shoreline alterations	Priority habitats/ species	Physical Space and conditions for life history	Habitat Overall	Shade	LWD and other organic recruitment	Ability to remove nutrients, fine sediment, and toxic substances	Shoreline soil stabilization	Wave/Flow attenuation	Vegetative Overall	
	Arkansas Creek	74	4	2	5	2	3	5	3	3	5	4	4	5	5	2	3	4	3	4	5	5	5	4	
City of Woodland	Horseshoe Lake	6	4		5		5						5	5	3	2	5	4	3	4	5	4	5	4	
	Lewis River	7	4	1	5	1	3	5	4	5	5	4	3	5	5	2	4	4	2	4	5	4	4	4	
	Horseshoe Lake	8	3		4		3						4	5	5	2	4	4	4	4	4	4	4	4	4
		9	4		4		4						3	3	5	3	3	3	3	3	4	3	4	3	3
		10	2		5		3						4	5	5	3	4	4	4	4	4	3	3	5	4
	Lewis River	11	2	4	5	1	3	4	4	4	3	4	4	4	5	3	3	4	4	3	5	4	3	5	4
		12	4	1	3	1	2	4	3	2	2	2	3	5	3	3	3	3	3	2	3	5	4	3	3
		13	3	5	4	3	4	3	3	3	2	3	5	5	3	5	3	3	4	5	4	3	4	5	4
		14	2	5	1	1	2	4	2	2	3	1	2	5	5	3	4	3	4	5	3	3	3		4
		15	4	4	4	4	4	4	4	4	4	2	3	5	5	3	5	4	4	5	4	4	4	5	5
16		4	3	4	4	4	4	4	4	4	2	3	5	5	1	4	3	4	5	4	4	4	5	5	