

Appendix A

Tables

Table A-1. Shoreline Modifications and Land Use Information by Management Area.

Management Area	Total Shore length	Armor	Encroach	Point Modifications	Overhanging Veg.	Total Riparian Zone Area	Natural Vegetated Area	Total Impervious Area
	ft	ft	ft	Total	ft	ft ²	ft ²	ft ²
Agate Passage (1)	19,495	11,136	4,101	235	7,098.61	2,765,779	1,981,630	457,196
Port Madison Bay (2)	32,037	19,669	11,128	445	8,264.83	5,927,938	3,895,986	848,732
Rolling Bay-Pt Monroe (3)	29,707	11,408	8,001	291	8,476.87	4,850,204	2,741,291	832,855
Murden Cove (4)	28,843	9,782	5,419	86	10,457.85	5,235,820	3,026,803	924,348
Eagle Harbor (5)	46,054	24,376	13,750	506	10,626.11	8,608,682	3,108,878	3,842,974
Blakely Harbor (6)	20,345	4,534	3,509	132	5,863.43	3,546,429	2,109,451	682,699
Rich Passage (7)	34,565	17,982	7,134	402	2,674.87	6,618,710	2,788,114	1,696,926
Pt Whie-Battle Pt (8)	51,650	25,907	11,508	616	16,395.04	8,887,467	4,992,018	1,942,880
Manzanita Bay (9)	18,879	10,752	5,389	218	6,541.83	3,578,452	2,502,064	428,941
All	281,574	135,546	69,937	2,931	76,399.44	50,019,481	27,146,236	11,657,551
		% Length	% Length	Per 1000ft	% Length		% Riparian Zone	% Riparian Zone
Agate Passage (1)		57%	21%	12.1	36%		72%	17%
Port Madison Bay (2)		61%	35%	13.9	26%		66%	14%
Rolling Bay-Pt Monroe (3)		38%	27%	9.8	29%		57%	17%
Murden Cove (4)		34%	19%	3.0	36%		58%	18%
Eagle Harbor (5)		53%	30%	11.0	23%		36%	45%
Blakely Harbor (6)		22%	17%	6.5	29%		59%	19%
Rich Passage (7)		52%	21%	11.6	8%		42%	26%
Pt Whie-Battle Pt (8)		50%	22%	11.9	32%		56%	22%
Manzanita Bay (9)		57%	29%	11.5	35%		70%	12%
All		48%	25%	10.4	27%		54%	23%

Table A-2. Summary Statistics of Normalized Reach Controlling Factors Scores by Management Area.

Management Area	Qualitative Impact Rating	Average	Median	Worst	Best	n
Agate Passage (1)	Moderate	-0.470	-0.544	-0.689	0.000	12
Port Madison Bay (2)	Moderate	-0.471	-0.480	-0.700	-0.025	24
Rolling Bay-Pt Monroe (3)	Moderate	-0.421	-0.433	-0.800	-0.125	18
Murden Cove (4)	Low/Moderate	-0.334	-0.340	-0.644	0.000	20
Eagle Harbor (5)	Moderate	-0.559	-0.578	-0.867	-0.250	35
Blakely Harbor (6)	Low/Moderate	-0.295	-0.329	-0.675	0.000	16
Rich Passage (7)	Moderate	-0.468	-0.463	-0.778	-0.050	28
Pt White-Battle Pt (8)	Moderate	-0.466	-0.482	-0.750	-0.100	38
Manzanita Bay (9)	Moderate	-0.486	-0.540	-0.711	-0.125	10
ALL Reaches	Moderate	-0.454	-0.475	-0.867	0.000	201
ALL MA Scores	Moderate	-0.441	-0.468	-0.559	-0.295	9

Table A-3. Raw Controlling Factors Scores by Management Area and Metric.
 (Font Color Indicates Two Worst (Red) and Best (Green) Scores in Each Metric. Range from 0 to -5)

Management Area	Wave Energy	Natural Shade	Artificial Shade	Sediment Supply	Substrate Type	Depth-Slope	Pollut.	Hydrol.	Phys. Disturb.	Average
Agate Passage (1)	-2.42	-2.75	-1.92	-2.92	-3.42	-2.17	-3.00	-1.58	-1.00	-2.35
Port Madison Bay (2)	-0.96	-2.29	-2.79	-2.50	-3.54	-2.92	-1.33	-1.04	-1.75	-2.13
Rolling Bay-Pt Monroe (3)	-2.50	-2.39	-1.33	-2.61	-2.67	-2.61	-1.67	-1.00	-1.50	-2.03
Murden Cove (4)	-2.10	-1.95	-0.45	-2.35	-2.00	-2.10	-1.95	-1.05	-0.55	-1.61
Eagle Harbor (5)	-1.94	-2.11	-2.09	-2.29	-3.03	-3.14	-4.74	-1.74	-2.14	-2.58
Blakely Harbor (6)	-1.63	-0.75	-1.50	-1.44	-1.75	-1.94	-0.94	-0.88	-1.06	-1.32
Rich Passage (7)	-2.43	-0.71	-1.86	-2.32	-2.86	-2.39	-2.50	-1.36	-1.96	-2.04
Pt Whie-Battle Pt (8)	-2.00	-1.61	-2.24	-2.53	-3.05	-2.61	-2.61	-1.05	-1.84	-2.17
Manzanita Bay (9)	-2.10	-2.60	-2.50	-3.10	-3.80	-3.30	-1.00	-1.10	-1.20	-2.30
All	-1.98	-1.81	-1.90	-2.41	-2.90	-2.61	-2.47	-1.23	-1.60	-2.10

Table A-4. Ecological Functional Scores by Management Area and Metric.
 (Shading Highlights Management Areas with Lowest (Red) and Highest (Green) Quantified Functions.
 Range from 0 to 50)

Management Area	Reach Average	Median	Max	Min	n
Agate Passage (1)	28.42	29.00	32.00	22.00	12
Port Madison Bay (2)	23.08	20.00	36.00	16.00	24
Rolling Bay-Pt Monroe (3)	22.67	23.50	26.00	18.00	18
Murden Cove (4)	20.20	20.50	26.00	13.00	20
Eagle Harbor (5)	17.91	18.00	24.00	12.00	35
Blakely Harbor (6)	17.56	17.00	27.00	10.00	16
Rich Passage (7)	16.07	15.50	22.00	12.00	28
Pt White-Battle Pt (8)	19.79	18.50	30.00	13.00	38
Manzanita Bay (9)	23.90	22.50	33.00	20.00	10
ALL Reach Scores	20.18	20.00	36.00	10.00	201
ALL MA Scores	21.07	20.20	28.42	16.07	9

Note: Ecological function scores, in many cases, were developed from geographically incomplete data sets and should be used in the context that not all reaches and MAs have been evaluated for specific functional indicators – this means that functional indicators (e.g. forage fish spawning) may exist in some reaches and MAs, but have not been mapped or identified in an existing database and therefore the ecological function scores may be artificially low.