

APPENDIX O

Okanagan Indian Band Results



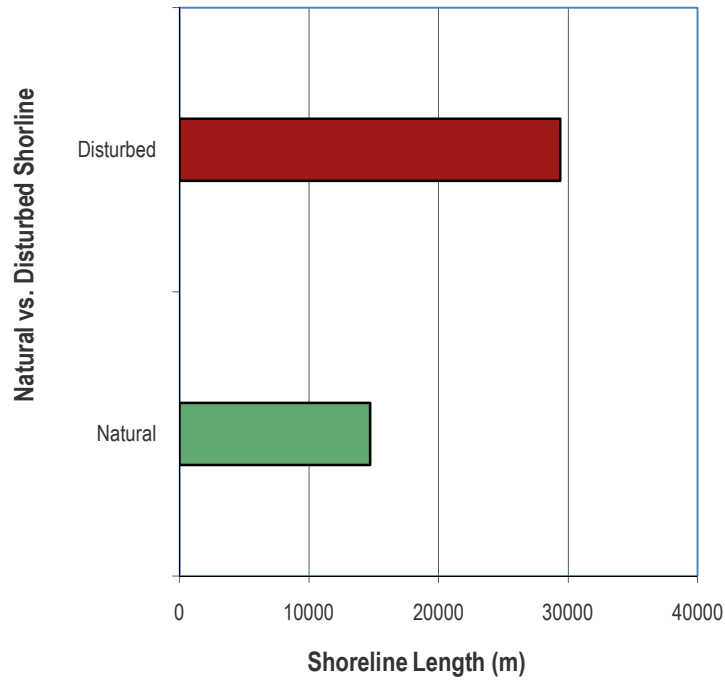


Figure 1: The percent of natural and disturbed shoreline.

Table 1: The total shore length of percentage of shore length along Okanagan Lake

	% of Shoreline	Shore Length (m)
Natural	33.33%	14695
Disturbed	66.67%	29398
Total		44093.5



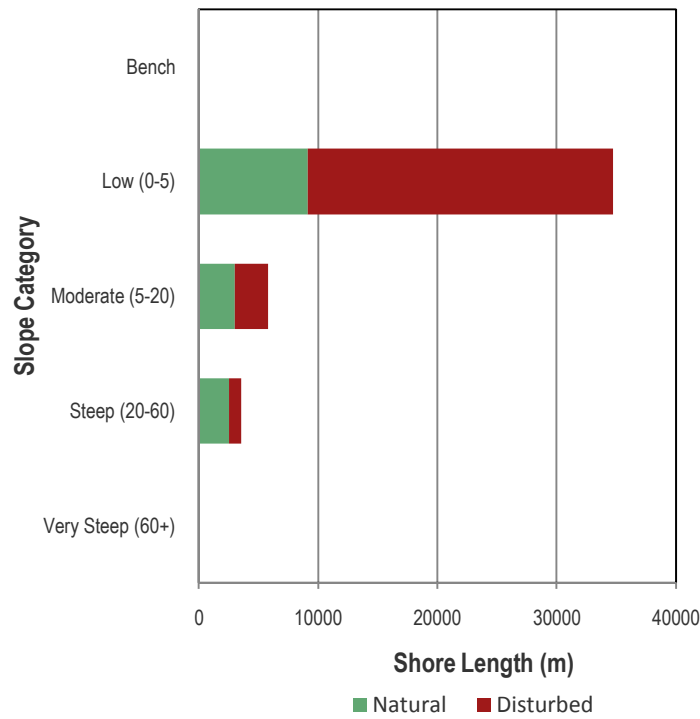


Figure 2: The length of natural and disturbed shorelines in each slope category.

Table 2: The percentage of natural and disturbed shore lengths within each of the different slope categories.

Slope	% of Total Shore Length	Total Shore Length (m)	Shore Length Natural (m)	Shore Length Disturbed (m)	% Natural	% Disturbed
Very Steep (60+)	0.0	0	0	0	0	0
Steep (20-60)	8.0	3542	2557	985	72.2	27.8
Moderate (5-20)	13.2	5824	3027	2797	52.0	48.0
Low (0-5)	78.8	34728	9111	25617	26.2	73.8
Bench	0.0	0	0	0	0	0
Total	100.0	44093	14695	29398	33.3	66.7



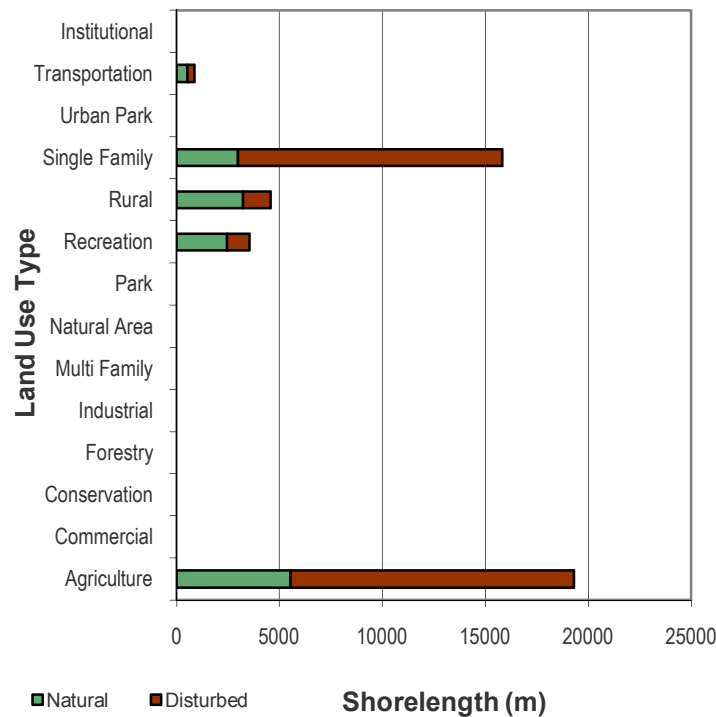


Figure 3: The length of natural and disturbed shoreline in each land use category

Table 3: The total length of natural and disturbed shorelines and their associated land uses around Okanagan Lake

	% of Shoreline Length	Shoreline Length (m)	Natural Shore Length (m)	Disturbed Shore Length (m)	% Natural	% Disturbed
Agriculture	43.8%	19311	5525	13786	28.6%	71.4%
Commercial	0.0%	0	0	0	0	0
Conservation	0.0%	0	0	0	0.0%	0.0%
Forestry	0.0%	0	0	0	0.0%	0.0%
Industrial	0.0%	0	0	0	0.0%	0.0%
Multi Family	0.0%	0	0	0	0	0
Natural Area	0.0%	0	0	0	0.0%	0.0%
Park	0.0%	0	0	0	0	0
Recreation	8.0%	3548	2455	1093	69.2%	30.8%
Rural	10.4%	4564	3220	1344	70.6%	29.4%
Single Family	35.9%	15817	2984	12833	18.9%	81.1%
Urban Park	0.0%	0	0	0	0	0
Transportation	1.9%	854	513	342	60.0%	40.0%
Institutional	0.0%	0	0	0	0.0%	0.0%
Total	100.0%	44093.5				



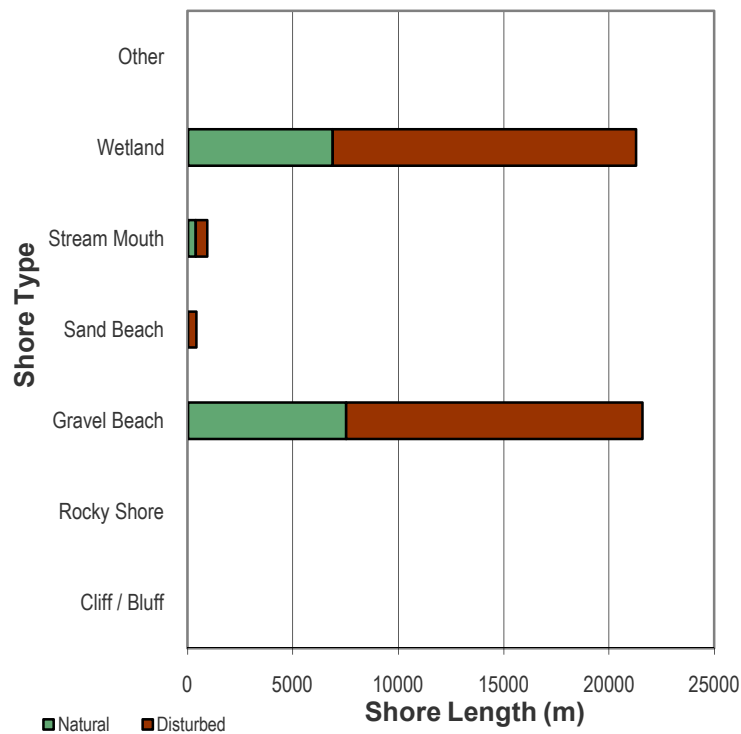


Figure 4: The length of natural and disturbed shoreline in each shore type category

Table 4: The total length of natural and disturbed shoreline and associated percentages within the different shore types that occur around Okanagan Lake

Shore Type	% of Total	Total Shoreline Length (m)	Natural Shore Length (m)	Disturbed Shore Length (m)	% Natural	% Disturbed
Cliff / Bluff	0.0%	0	0	0.0	0	0
Rocky Shore	0.0%	0	0	0.0	0	0
Gravel Beach	48.9%	21552	7486	14066.1	34.7%	65.3%
Sand Beach	0.9%	380	0	379.9	0.0%	100.0%
Stream Mouth	2.1%	922	351	570.6	38.1%	61.9%
Wetland	48.2%	21240	6859	14381.5	32.3%	67.7%
Other	0.0%	0	0	0.0	0	0
Total	100.00%	44093				



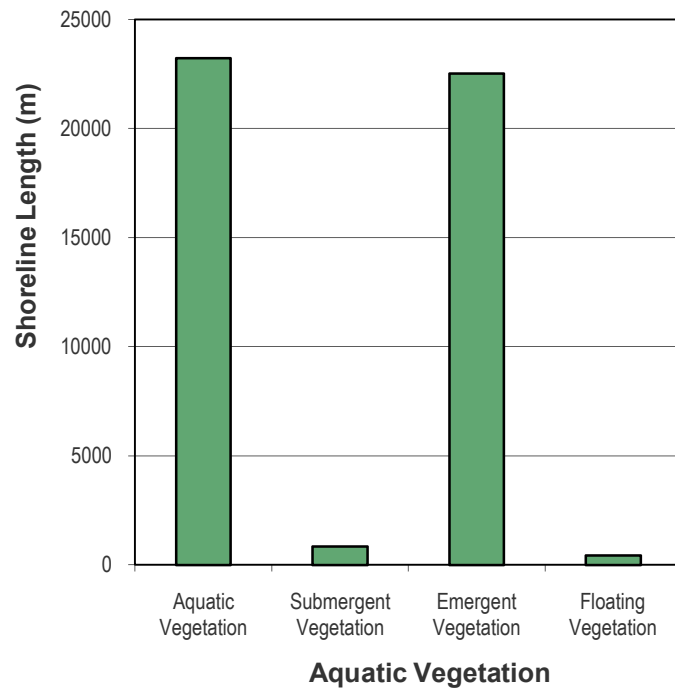


Figure 5: The shore length of each different type of aquatic vegetation.

Table 5: The total shoreline length and percentage that has aquatic, submergent, emergent, and floating vegetation along Okanagan Lake

Type	% of Total Shoreline Length	Shoreline Length (m)
Aquatic Vegetation	52.7%	23225
Submergent Vegetation	1.9%	829
Emergent Vegetation	51.1%	22510
Floating Vegetation	1.0%	439



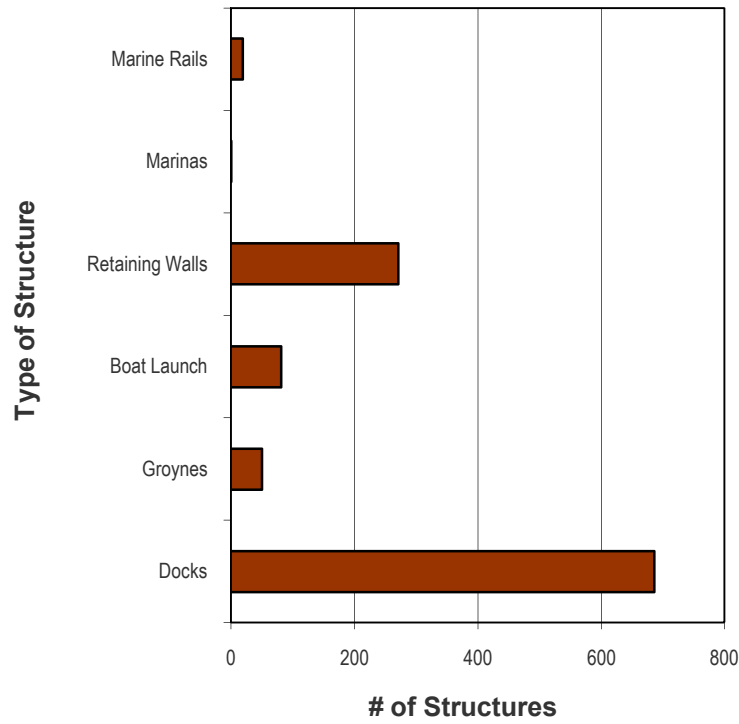
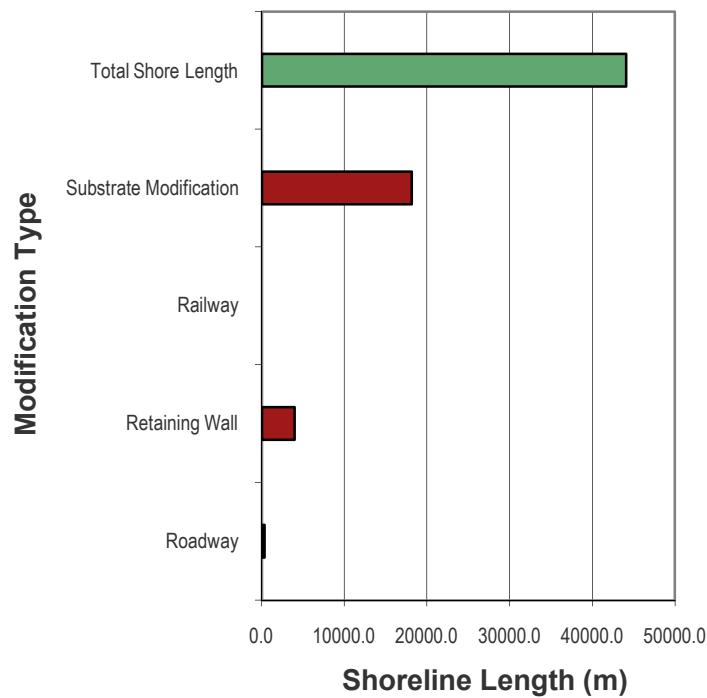


Figure 6: The total number of different types of modifications on Okanagan Lake

Table 6: The total number and density (# per km) of different shoreline modifications occurring around Okanagan Lake

Type	Total #	# Per km
Docks	686	15.56
Groynes	51	1.16
Boat Launch	82	1.86
Retaining Walls	271	6.15
Marinas	1	0.02
Marine Rails	19	0.43



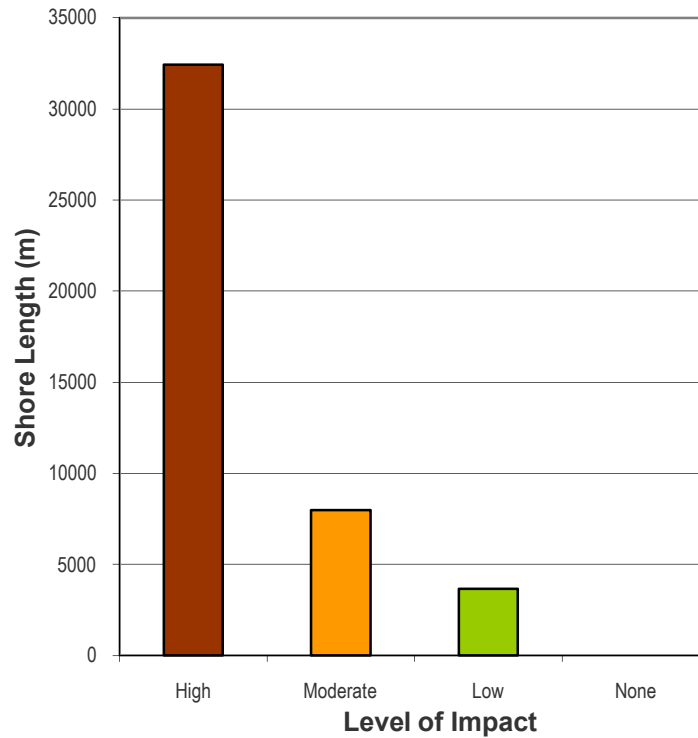


. **Figure 7:** The shore length of different shore modifiers were observed.

Table 7: The approximate shoreline length that has been impacted by substrate modification, road and railways, and retaining walls along Okanagan Lake

Category	% of Shoreline	Shorelength (m)
Roadway	1%	341.7
Retaining Wall	9%	3983.8
Railway	0%	0.0
Substrate Modification	41%	18158.6
Total Shore Length		44093.5





. **Figure 8:** The shore length of different levels of impact on Okanagan Lake..

Table 8: The Level of Impact around Okanagan Lake (High > 40%, Moderate (10-40%), Low (<10%), None (0%))

Level of Impact	% of Shoreline	Shore Length
High	73.57%	32437
Moderate	18.09%	7977
Low	8.34%	3679
None	0.00%	0
Shore Length		44093.5



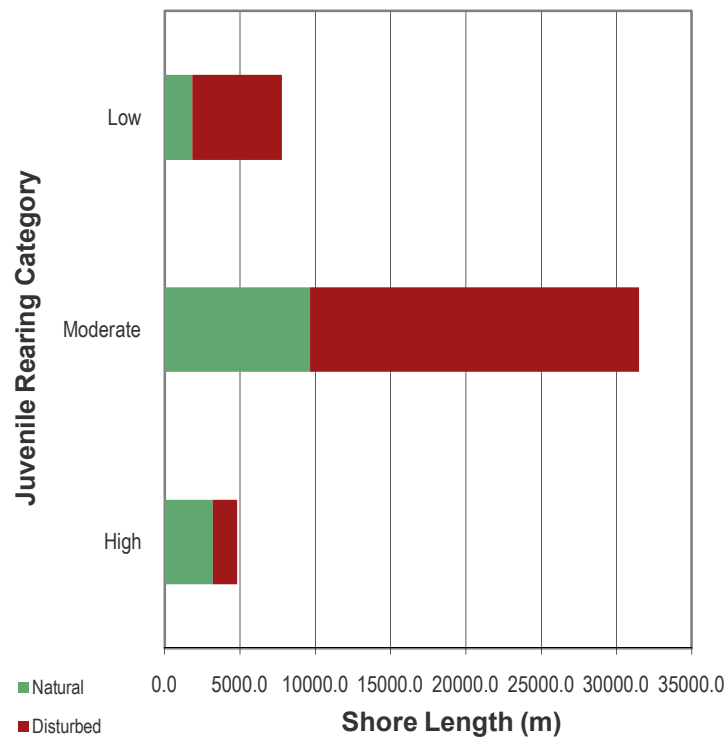


Figure 9: The natural and disturbed shore length of areas classified as having and High, Moderate, or Low Juvenile Rearing ranking.

Table 9: The shore length and percentage of shoreline areas classified as having High, Moderate, or Low Juvenile Rearing Value on Okanagan Lake.

Juvenile Rearing Category	# of Segments	Shore Length (m or %)				Total
		Natural (m)	Natural (%)	Disturbed (m)	Disturbed (%)	
High	5	3210.7	66.6%	1609.2	33.4%	4820.6
Moderate	20	9632.6	30.6%	21875.9	69.4%	31508.8
Low	6	1852.1	23.9%	5912.9	76.1%	7765.3



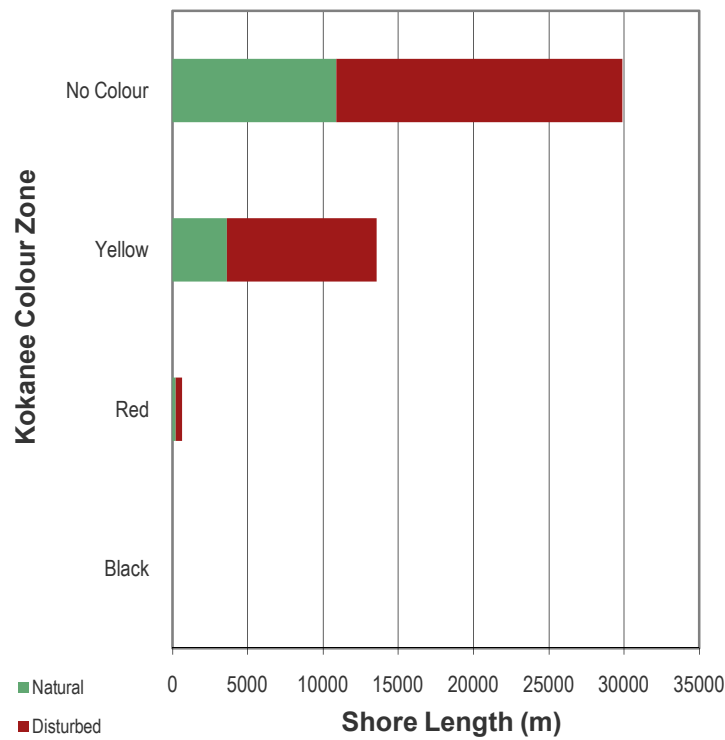


Figure 10: The length of natural and disturbed shoreline in the different shore spawning kokanee zones.

Table 10: The length of natural and disturbed shorelines within the different Okanagan Large Lakes Protocol Kokanee Shore Spawning areas.

Black		Red		Yellow		No Colour	
Natural	Disturbed	Natural	Disturbed	Natural	Disturbed	Natural	Disturbed
0	0	30.6%	69.4%	26.7%	73.3%	36.4%	63.6%
0	0	197	447	3624	9953	10874	18998



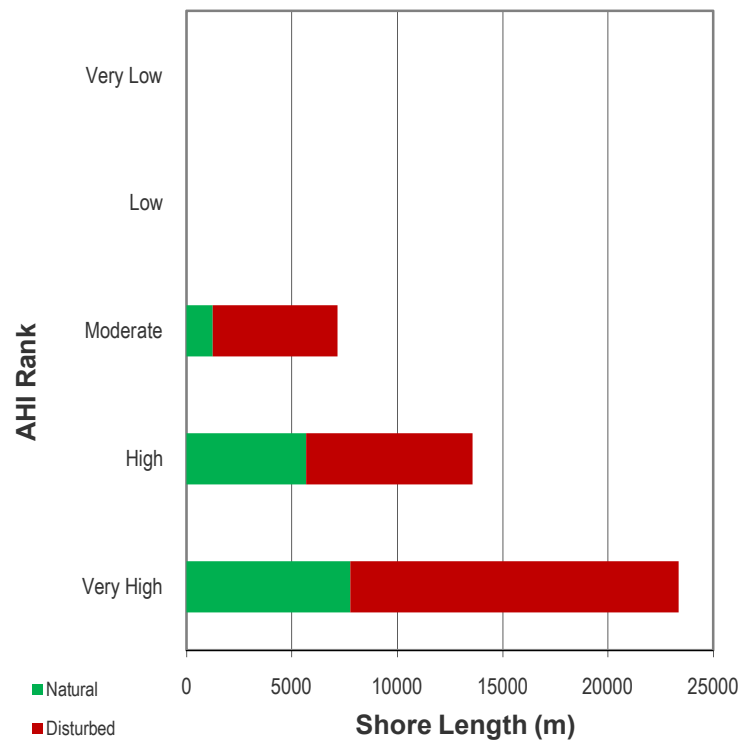


Figure 11: The length of natural and disturbed shoreline in the different AHI rankings.

Table 13: The shoreline that is natural and disturbed (m and %) within each of the different AHI rankings.

AHI Rank	Natural		Disturbed	
	m	%	m	%
Very High	7770.43686	33.3%	15589.0952	66.7%
High	5690.751354	42.0%	7864.842609	58.0%
Moderate	1234.25726	17.2%	5944.077951	82.8%
Low	0	0	0	0
Very Low	0	0	0	0

