

APPENDIX D

Detailed Ecological Economic Evaluation Table

Maury Island ecosystem service valuation summary, per hectare.

Land Cover	Aesthetic and Amenity	Climate and Atmospheric Reg	Disturbance Prevention	Food and Raw Materials	Habitat Refugium	Recreation	Soil Retention and Formation	Waste Assimilation	Water Regulation and Supply	Row Total	Total
Beach	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 88,203	\$ -	\$ -	\$ -	\$ 88,203	
Beach near dwelling	\$ 68,754	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 48,500	\$ -	\$ -	\$ 117,254	
Coastal Riparian	\$ 1,691	\$ -	\$ 367	\$ -	\$ 3,842	\$ 81	\$ 814	\$ 225	\$ 2,374	\$ 9,395	
Forest	\$ 7.38	\$ 1,333	\$ -	\$ -	\$ 9.62	\$ 463	\$ -	\$ -	\$ 13	\$ 1,826	
Freshwater Stream	\$ 0.61	\$ -	\$ -	\$ -	\$ 594	\$ 424	\$ -	\$ -	\$ 574	\$ 1,594	
Freshwater Wetland	\$ 4,832	\$ -	\$ 15,389	\$ -	\$ 23,118	\$ 1,137	\$ -	\$ 28,304	\$ 5.30	\$ 72,786	
Grassland/Herbaceous	\$ -	\$ 8.24	\$ -	\$ -	\$ -	\$ 2	\$ 1.18	\$ 102	\$ 3.53	\$ 117	
Nearshore Habitat	\$ -	\$ -	\$ -	\$ 3,680	\$ 6,224	\$ 6,377	\$ -	\$ -	\$ -	\$ 16,282	
Saltwater Wetland	\$ -	\$ -	\$ 559	\$ -	\$ -	\$ 25	\$ -	\$ 218	\$ 609	\$ 1,413	
Area by Cover and ES Class (in hectares)											
Disturbed	0	0	0	0	0	0	0	0	0	253.5	253.55
Beach	0	0	0	0	0	26.8	0	0	0		26.8
Beach near dwelling	64.6	0	0	0	0	0	64.6	0	0		64.6
Coastal Riparian	132.4	0	132.4	0	132.4	132.4	132.4	132.4	132.4		132.4
Forest	1043.8	1043.8	0	0	1043.8	1043.8	0	0	1043.8		1043.8
Freshwater Stream	41.4	0	0	0	41.4	41.4	0	0	41.4		41.4
Freshwater Wetland	3.6	0	3.6	0	3.6	3.6	0	3.6	3.6		3.6
Grassland/Herbaceous	0	321.4	0	0	0	321.4	321.4	321.4	321.4		321.4
Nearshore Habitat	0	0	0	565.2	565.2	565.2	0	0	0		565.2
Saltwater Wetland	0	0	6.7	0	0	6.7	0	6.7	6.7		6.7
TOTAL											2460
Value by Service and Cover Class for Maury Island											
Beach	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,371,006	\$ -	\$ -	\$ -	\$ 2,371,006	
Beach near dwelling	\$ 4,442,228	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,133,597	\$ -	\$ -	\$ 7,575,824	
Coastal Riparian	\$ 224,009	\$ -	\$ 48,622	\$ -	\$ 509,067	\$ 10,732	\$ 107,842	\$ 29,872	\$ 314,520	\$ 1,244,664	
Forest	\$ 7,703	\$ 1,391,576	\$ -	\$ -	\$ 10,041	\$ 483,395	\$ -	\$ -	\$ 13,695	\$ 1,906,409	
Freshwater Stream	\$ 25	\$ -	\$ -	\$ -	\$ 24,641	\$ 17,585	\$ -	\$ -	\$ 23,807	\$ 66,058	
Freshwater Wetland	\$ 17,866	\$ -	\$ 56,893	\$ -	\$ 85,466	\$ 4,203	\$ -	\$ 104,642	\$ 20	\$ 269,089	
Grassland/Herbaceous	\$ -	\$ 2,649	\$ -	\$ -	\$ -	\$ 755	\$ 379	\$ 32,915	\$ 1,135	\$ 37,832	
Nearshore Habitat	\$ -	\$ -	\$ -	\$ 2,080,557	\$ 3,518,838	\$ 3,605,238	\$ -	\$ -	\$ -	\$ 9,204,633	
Saltwater Wetland	\$ -	\$ -	\$ 3,770	\$ -	\$ -	\$ 173	\$ -	\$ 1,474	\$ 4,110	\$ 9,527	
Column Total	\$ 4,691,832	\$ 1,394,224	\$ 109,284	\$ 2,080,557	\$ 4,148,054	\$ 6,493,088	\$ 3,241,818	\$ 168,903	\$ 357,286	\$22,685,046	\$22,685,046

Source: Austin Troy, Spatial Informatics Group, 5/10/2004.

