

Summary of Results for June
Home Owners Association Meeting

	Costs Associated with Initial Project			Shoreline Change in 1-Year (High Water Level)				Nearshore Volume Change in 1-Year (High Water Level)				Cost to Renourish based on placement cycle (Sand Bank)		
Solution	Solution Cost Based on 2009 Costs	Cost per Shore Property	Cost per Inland Property	Grand Beach	Forest Beach	Warwick Shores	Sunset Shores	Grand Beach	Forest Beach	Warwick Shores	Sunset Shores	Placement Rate	Cost per Shore Property (2009)	Cost per Inland Property (2009)
				Positive values are gains in beach width (ft)				Positive values are gains in nearshore volume (cy)				(Yearly rate of Placement)	(\$)	(\$)
25,000cy Nourishment at Sunset Shores	\$573,465	\$1,423	\$419	3.28	1.84	1.87	26.56	-78	228	1,007	22,620	1-year	\$839	\$247
												2-years	\$419	\$123
												3-years	\$280	\$82
												4-years	\$210	\$62
												6-years	\$140	\$41
120,000cy Nourishment at Forest Beach to Sunset Shores	\$1,980,904	\$4,915	\$1,446	3.61	31.51	24.23	34.04	3,178	58,448	22,036	22,291	1-year	\$3,573	\$1,051
												2-years	\$1,786	\$526
												3-years	\$1,191	\$350
												4-years	\$893	\$263
												6-years	\$595	\$175
5 - Submerged Breakwaters with 75,000 cy of nourishment at Warwick Shores to Sunset Shores	\$1,287,857	\$3,195	\$940	8.20	-2.49	29.93	30.20	-12,706	29,285	13,905	48,964	1-year	\$2,097	\$617
												2-years	\$1,048	\$308
												3-years	\$699	\$206
												4-years	\$524	\$154
												6-years	\$349	\$103
25 - Submerged Breakwaters with 75,000 cy of nourishment at Warwick Shores to Sunset Shores	\$2,646,262	\$6,566	\$1,932	5.41	-1.28	31.25	29.80	67,385	88,809	48,761	66,791	1-year	\$2,097	\$617
												2-years	\$1,048	\$308
												3-years	\$699	\$206
												4-years	\$524	\$154
												6-years	\$349	\$103
	Costs Associated with Initial Project			Shoreline Change in 1-Year (Low Water Level)				Nearshore Volume Change in 1-Year (Low Water Level)				Cost to Renourish based on placement cycle (Sand Bank)		
Solution	Solution Cost Based on 2009 Costs	Cost per Shore Property	Cost per Inland Property	Grand Beach	Forest Beach	Warwick Shores	Sunset Shores	Grand Beach	Forest Beach	Warwick Shores	Sunset Shores	Placement Rate	Cost per Shore Property (2009)	Cost per Inland Property (2009)
				Positive values are gains in beach width (ft)				Positive values are gains in nearshore volume (cy)				(Yearly rate of Placement)	(\$)	(\$)
25,000cy Nourishment at Sunset Shores	\$573,465	\$1,423	\$419	-0.16	3.15	3.71	28.85	-143	-307	-1,360	29,067	1-year	\$839	\$247
												2-years	\$419	\$123
												3-years	\$280	\$82
												4-years	\$210	\$62
												6-years	\$140	\$41
120,000cy Nourishment at Forest Beach to Sunset Shores	\$1,980,904	\$4,915	\$1,446	-0.10	35.41	40.96	31.35	-137	50,208	49,593	53,530	1-year	\$3,573	\$1,051
												2-years	\$1,786	\$526
												3-years	\$1,191	\$350
												4-years	\$893	\$263
												6-years	\$595	\$175
5 - Submerged Breakwaters with 75,000 cy of nourishment at Warwick Shores to Sunset Shores	\$1,287,857	\$3,195	\$940	-14.24	-4.46	15.24	26.78	-23,824	33,064	23,636	62,743	1-year	\$2,097	\$617
												2-years	\$1,048	\$308
												3-years	\$699	\$206
												4-years	\$524	\$154
												6-years	\$349	\$103
25 - Submerged Breakwaters with 75,000 cy of nourishment at Warwick Shores to Sunset Shores	\$2,646,262	\$6,566	\$1,932	-17.78	-3.38	16.68	27.38	79,392	100,869	68,374	90,910	1-year	\$2,097	\$617
												2-years	\$1,048	\$308
												3-years	\$699	\$206
												4-years	\$524	\$154
												6-years	\$349	\$103

Assumptions / Notes:

1 Houses and Properties counted from MDEQ Maps

2 Shoreline Property is all first line houses

3 Inland houses are 2nd and 3rd row of houses in Grand Beach Area, and best guess of houses in association

4 Cost of beach nourishment is assumed to be 66% responsibility of shoreline homes and 33% of inland homes

5 Placement areas gain 30 ft of beach due to placement and is reflected in results

6 Placement volume from nourishment is included in table results.

7 2009 Water Levels ranged from 0.0ft LWD (January) to 1.50ft (July)