GALVESTON ISLAND PARKS BOARD-BUILDING RESILIENCY THROUGH PARTNERSHIPS: CASE STUDIES-BABE'S BEACH

Kimberly Danesi Chief Operations Officer Galveston Island Park Board of Trustees





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PRESTREMENDED-COM

NOTE: TANKER GATE WORKSKA

2/12/2021



Building Resiliency Through Partnerships: Case Studies – Babe's Beach

Park Board of Trustees of the City of Galveston

Kimberly Danesi, COO



2017 Inaugural Ribbon Cutting for "Babe's Beach"

TOURISM GENERATES \$74 MILLION G

Galveston Tourism

Intersection for Collaboration

Opportunity

- Previous relationship based on permitting authorities only
- No clear local lead for beach nourishment
- Last nourishment project took place in 1994

Advantages

- Galveston District Offices
- D.C. Advocate who is familiar with coastal projects
- IDC funding mechanism
- Beach Maintenance Advisory
 Committee input







US Army Corps of Engineers®



US Army Corps of Engineers® Engineer Research and Development Center

ERDC/CHL TR-16-13

Coastal and Hydraulics Laboratory



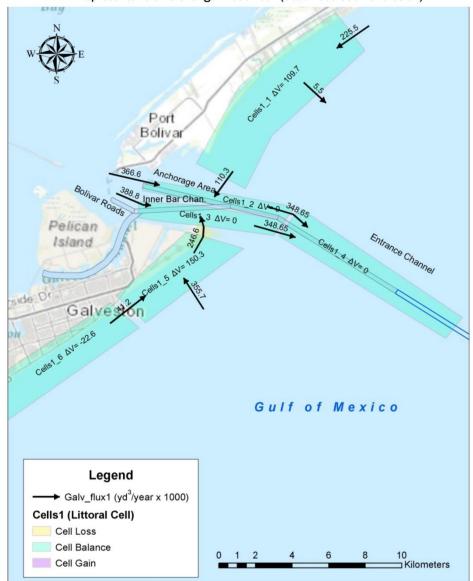
Galveston Island, Texas, Sand Management Strategies

Ashley E. Frey, Andrew Morang, and David B. King

July 2016

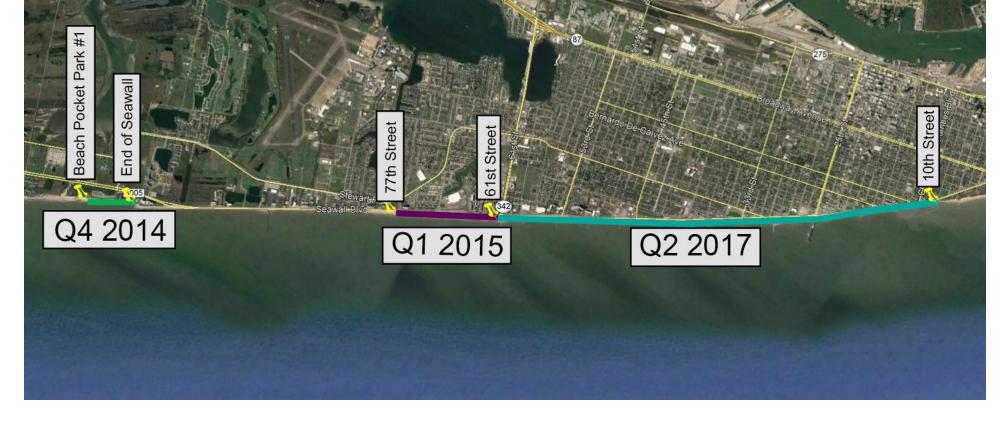


Figure 10. Sediment budget cells in the Galveston Entrance area. Units are in $yd^{3}/yr \times 1000$. ΔV represents volume change in each cell (beach accretion or erosion).

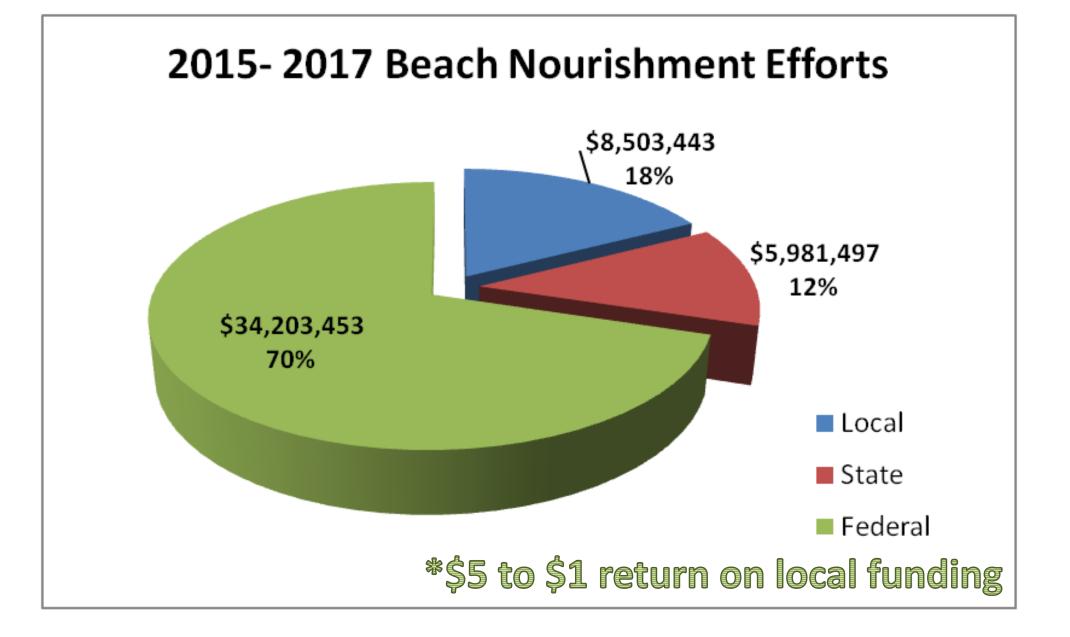


Strategic Planning

- Knowing there is a need for continuous nourishment, how do we ensure long term needs are met
 - Identified Funding opportunities at the Federal and State level
 - Sand Sourcing
 - Amended Permits with Sand Sourcing Data
 - Researched alternatives
- Now it's time to Nourish our Beaches
 - Dellanera
 - Historic Seawall
 - Babe's Beach



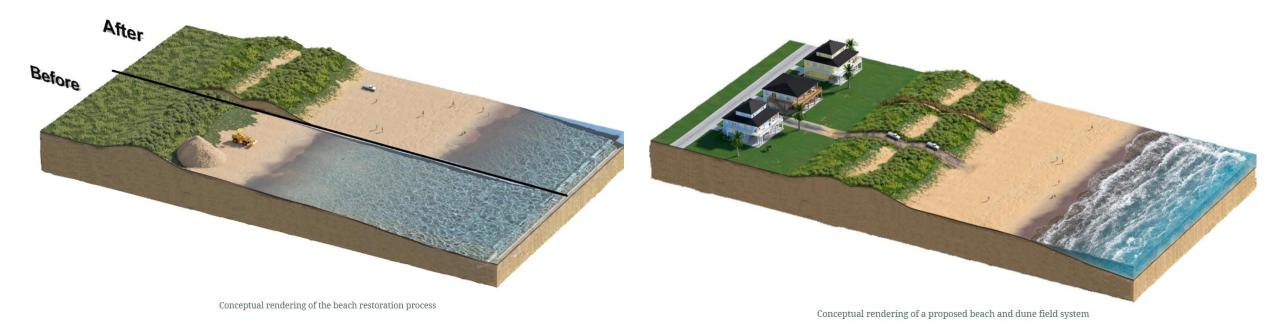
Summary Table of 2015 -2017 Beach Nourishment Program					
	Cost	Volume (yds.3)	\$/yd3	Length (ft.)	
End of Seawall	4,986,720	113,000	\$44.13	2,100	
Seawall West	23,515,358	629,188	10.60	4,980	
Historical Seawall	19,586,315	1,000,000	16.74	19,483	
Total	\$48,088,393	1,742,188		26,563	



Babe's Beach

- Location: West of 61st Street along Seawall Blvd.
- Length: 4,980LF
- Volume: 629,188 cu/yds. Density: 126.3cu/yd. LF
- Timing: Construction 09/2015 to 11/15/2015
- Budget: Total Budget \$22,993,050.00 Beach Placement \$ 8,039,192.80
- Cost cu/yd: \$10.60
- Contractor: Great Lakes Dredge and Dock

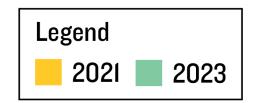
Moving Forward



Beach Nourishment Plans 2021 - 2023

2021				
Babe's Beach FEMA	2,961,202			
Babe's Beach RESTORE	25,000,000			
Dellanera FEMA	4,680,797			
Historic Seawall FEMA	7,168,099			
2021 Total	\$39,810,098			
2023				
Babe's Beach RESTORE	25,000,000			
8 Mile TX GLO	10,000,000			
2023 Total	\$35,000,000.00			
Beach Nourishment Totals	\$74,810,098			





















Stay well.