Beneficial Use of Dredged Material in the Galveston District

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Galveston District
Custodians of the Coast

US Army Corps of Engineers
BUILDING STRONG®
Galveston District
Beneficial Use Project Locations

- Bessie Heights Marsh
- Sabine-Neches Waterway
- Houston Ship Channel
- Texas City Ship Channel
- Chocolate Bayou
- GIWW-Caney Creek
- GIWW-Port O'Connor
- GIWW-Aransas
- Corpus Christi-La Quinta Extension
- Channel to Port Mansfield
- Brazos Island Harbor - South Padre Island

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### Galveston District Beneficial Use Statistics

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<th>FY 10</th>
<th>FY 12</th>
<th>FY 13</th>
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<tbody>
<tr>
<td><strong>Total Amount Dredged</strong></td>
<td>24,500,000</td>
<td>20,000,000</td>
<td>20,500,000</td>
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<tr>
<td><strong>Total Amount Used for BU</strong></td>
<td>4,000,000</td>
<td>3,200,000</td>
<td>4,300,000</td>
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<tr>
<td><strong>Percent Beneficial Use</strong></td>
<td>~16%</td>
<td>~16%</td>
<td>~20%</td>
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Notable Galveston District Beneficial Use Projects

- Houston Navigation Channel – marsh restoration at Atkinson Island
- Texas City Channel – 1,000 acres of marsh in Lower Galveston Bay
- Sabine-Neches Waterway– Bessie Heights Marsh
- GIWW– Aransas National Wildlife Refuge – 1,600 acres of marsh
- Brazos Island Harbor – 3,000 feet of beach nourishment at South Padre Island
- Port Mansfield Channel – 3 acres beach nourishment
- Chocolate Bayou – marsh creation
- Houston Ship Channel – Evia Island – 6 acre bird nesting habitat
- Houston Ship Channel– Bolivar Marsh creation/channelization

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Houston Ship Channel—Upper Galveston Bay

Aerial of Existing Atkinson Island marsh cells and new cells currently under construction (M7/8/9,&10)
Houston Ship Channel—Upper Galveston Bay
Atkinson Island marsh cell under construction
Houston Ship Channel—Lower Galveston Bay

Bolivar Marsh—
Channelization and
Marsh Creation (ongoing)
Houston Ship Channel—Lower Galveston Bay

Bolivar Marsh—Marsh Creation
Neches River Channel (Sabine-Neches Waterway)
Bessie Heights Marsh

Marsh Creation
Channels form shortly after pumping of dredged material into open water area

Established 28 acres of marsh one year later

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Texas City Channel

Construction of containment levees for Beneficial Use Site

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Matagorda Ship Channel--Sundown Island

Nourishment along eroded areas

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Chocolate Bayou

Construction of Beneficial Use Sites

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GIWW-Aransas National Wildlife Reserve

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BUS B, construct breakwater

Bus Site

San Antonio Bay

Port Lavaca

Rockport

Aransas Pass

Matagorda Bay

Bus A

Bus J

Bus D
Gulf Intracoastal Waterway
Beneficial Use Projects

Beach Nourishment

Little Beach

Rollover
GIWW-
West Bay Mooring BU Site
Brazos Island Harbor
Beach Nourishment

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How is SWG trying to increase BU?

- Actively identify projects
- Re-evaluate our DMMPs
- Work with the RSM program
- Bring together Corps and Resource Agencies