



Gulf Savers® is an initiative of Restore the Earth Foundation Inc., a 501c3 not-for-profit, transforming concern for the earth into positive “boots on the ground” action that produces tangible results through collaborative partnerships.

- Transformative Projects
- Transformative Leaders
- Transformational Solutions

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Volunteers from across the nation lead the way..... filling and deploying Gulf Saver® bags



Black Mangrove/spartina - 8 months after planting



Black mangrove/spartina - 8 months after planting



Wetland Restoration & Marsh

Gulf Savers® Bag: A Novel Approach for Spartina alterniflora in Marsh Ecosystems Restoration
An Innovative Solution for Early Project Success!

The Gulf Saver Bag is a biodegradable, self contained package of native plants with its own site specific custom mixed supply of natural nutrients to support, feed, and protect the native vegetation. The bag is a stability kit that jump starts growth and survivability in the face of storm surge, wave action and rapid erosion, unlike traditional methods of planting plugs.

The Gulf Saver Bag, creates a supportive environment for accretion by slowing down water, allowing sediment to build, and adding nutrient rich biomass to the soil. Oil eating microbes can also be introduced to the custom mix for added protection against oil impacted sites.



Gulf Saver® bags Demonstration/Pilot at Pass a Loutre, WMA, Venice, Louisiana • BENEFIT / ANALYSIS
Gulf Saver Bags vs Traditional Plug Planting with Spartina alterniflora and Black mangrove

MEASUREMENTS	GULF SAVER BAGS
Spacing	5.0 meter centers/3 bag clusters - 507 bags/acre
Survivability	95% 1st year
Anticipated Replanting	5% one time
Service Value	100% in <2 years
Carbon Credit Value Achieved	1st year
Estimated DSAYS	16+ /acre
Estimated Cost Per DSAY	\$1,000.00
Percent Coverage at 18 months	70-100%
Vegetation Height at 18 months	90-150cm



MEASUREMENTS	BARE ROOT PLUGS
Spacing	0.7 meter centers -10,816 plugs/acre
Survivability	50% 1st & 2nd year
Anticipated Replanting	50% year 1 / 50% year 2 (2x)
Service Value	100% in 5-10 years
Carbon Credit Value Achieved	5th year
Estimated DSAYS	12+ /acre
Estimated Cost Per DSAY	\$3,154.00
Percent Coverage at 18 months	20%
Vegetation Height at 18 months	50-75cm



Note: Site success has been at remote, vulnerable locations

CREATION

- Stabilizes and accelerates native re-vegetation
- Remediates soil and organic matter
- Re-establishes wildlife habitat
- Replicable/scalable



An Innovative Combination
Saving Louisiana Wetlands

Technical Support, and Monitoring Provided By:
MATRIXNEWORLD
Enabling Progress

