

MARSH RESTORATION & PIPELINE PROTECTION PROJECT

PROJECT DESCRIPTION

Installation of EcoBale system for marsh mitigation and restoration for pipeline protection and cover.

LOCATION

Lost Lake, Ship Shoal Pipeline Corridor, Louisiana

CONTRIBUTORS

- Shell Pipeline Company
- Jacobs Engineering Group
- Morrison
- Martin Ecosystems



PURPOSE

The subsiding coast of Louisiana is an ecological event that is occurring at an astonishing rate (an average loss of 1-ac/hr). This land hosts a vibrant coastal ecosystem, a large fishing and sportsman industry and critical infrastructure for Oil & Gas both driving the economy and energy needs of the US. Approx. 1/3 of the US' oil flows through pipelines in LA, collected offshore on platforms and transported to US refineries and then distributed around the country. As the coastal environment and climate conditions change, Shell has demonstrated leadership and coastal asset stewardship using natural infrastructure to fortify and enhance vulnerable coastal land. In this project, natural infrastructure was utilized through 60 EcoBales used as an alternative to traditional infrastructure such as cement or bulkheads for closing off the pipeline ROW.

BENEFITS OF NATURAL INFRASTRUCTURE

- Increased pipeline integrity by maintaining overlying protective sediments
- Reduced exposure of maintenance crews to hazards and cost reduction for continued pipelines maintenance
- Improved marsh production and water quality, flood risk reduction, and aquatic resource benefits

WHAT IS AN ECOBALE

EcoBales are manufactured using 100% recycled PET plastic drinking bottles. Each EcoBale is made of approximately 1620 plastic bottles and weighs only 260 pounds. Installation of the EcoBale system provide ability for less footprint and is expected to create a natural ridge and ecosystem to achieve the result desired.

