Outline

- Definition
- Project Need
- Project Objectives
- TLP Website
- TLP GIS-based Map Portal
- Case Studies Demo
- Future Actions
Definition of Thin Layer Placement

- Purposeful placement of dredged material for functional/ecological benefit

- Depends on Project Objectives
  - Placement depth not restrictively defined
  - Wetlands nourishment ~ 6 inches thick
  - Mobile Bay sediment budgeting – 6 to 12 inches
  - IJburg island creation > 12 inches
TLP Website and Database - Project Need

- Information and case studies for TLP not well documented
- Little or no technical guidance available for TLP design or implementation
- Multiple knowledge gaps
- An accessible, consolidated, living information resource is needed

Photo from Steve Miller - Ellicott Dredges LLC
TLP Tools

- Website

Map Portal

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Website and Database Primary Objectives

- Aggregate the current state of knowledge regarding thin layer placement of dredged material
- Consolidate literature/references pertaining to all project phases – from design to post-construction monitoring
- Provide centralized, accessible, and consolidated resource for case studies
- Provide a basis for guidance development
Website and Database Secondary Objectives

- Provide a vehicle for collection of case studies worldwide
- Create an engaging and user friendly product
- Create a database that was compatible with the USACE data integration initiative

Photo from Kirk Gilligan, Seal Beach NWR Manager
TLP Website - Access

https://tlp.el.erdc.dren.mil/

www.engineeringwithnature.org/
TLP Map Portal

Key Features of the Redesign:

► User-centered Design – intuitive and easy-to-use
  • A more intuitive, easy-to-use interface

► Login Options: LinkedIn Credentials or Email Log-in
  • Login using email and password
  • Broader Access for Corps and non-Corps users
  • Connect your LinkedIn account to pull-in your professional profile

► A Community of TLP Professionals
  • Create a user profile and populate your professional information using LinkedIn or the user profile dashboard
TLP Map Portal

Key Functionality:

► **Draw Polygons: Unlimited Points vs. Setting a point**
  • Easily draw your project area by plotting unlimited points. All geo-location information is captured including dimensions and longitude/latitude, etc.

► **Story Maps: Upload Rich Media and Documents**
  • Easily add and remove photos, video links, reports, and other documents from your case study project information area

► **Import/Export Data: Easily Upload & Access**
  • The Application Programming Interface (API): Easily share data for any TLP case study (or all) with approved web applications. Pull raw data for any case study via our online API web service
TLP Map Portal
What case study data is being captured?

Sections

- General Information
- Project Cost
- Containment Structures
- Pre-construction
- Design & Planning
- Construction
- Post-construction
- Monitoring
- Regulatory Aspects
- Lessons Learned

New! Upload projects using Excel
How do I create a new case study?

Easy and User-friendly:

1. Create an Account
2. Create a New Case Study
3. Assign Contributors
4. Begin Inputting Information
5. Await Publishing Approval
What else can I do on the TLP website?

Join our Community!

1. **Improved:** Interactive Map
2. **New:** Create User Profile
3. **New:** Case Study Directory
4. **New:** Case Study Profile Page
5. **Coming:** TLP Media Library
FAQs: How do I get help if I need it?

Fast Answers!

1. Site-wide Guidance Text
2. Form Tool Tips
3. Online FAQ Section
Future products and enhancements

- Website forum
- TLP Newsletter
- Enhanced search tool
- Enhanced case study page
- New case studies, resources, and photos will be added every quarter
- Formalized guidance for the practice of thin layer placement
How can I contribute?

- Case studies, models, construction methods and other relevant information that may be useful to practitioners are solicited.
- Sign up on our **List Server** and **Map Portal**

Please contact us!

- **Website registration and contributions**
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Questions?

Photo from Kirk Gilligan, Seal Beach NWR Manager
Reference Slides
TLP Website

https://tlp.el.erdc.dren.mil/

Current features:

- Relevant literature
- Case studies – fact sheets, photo galleries, map-based database and project documentation/data
- Event tracker
- List server
- Contributor portal
TLP Website - Resources

- ~200 resources
- Search by relevance
- Resources summaries
  - How does it apply?
  - What you will find here?
- Quick category searches
  - Organized by project stage
- Workshops and presentations
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TLP Website – Case Studies

- ~21 case studies
- Factsheets
  - Background
  - Project Description
  - Findings
  - References
  - Agency/company logo and authorship
- Project Gallery

More extensive info available in Map-Based Portal…!
TLP Website – Case Studies

Project Summary

Seal Beach

Project Summary

Factsheet

Seal Beach National Wildlife Refuge

Background

The Seal Beach National Wildlife Refuge (NWR) is administrated by the U.S. Fish and Wildlife Service as part of the National Wildlife Refuge System and is situated within the boundaries of Naval Weapons Station Seal Beach. This 369-acre refuge is bordered by tidal salt marsh that supports the third largest breeding population of the federally endangered light-footed Ridgely’s rail.

The Thinner Slim loaf Bed Placement Augmentation Pilot Project encompassed an area of 3.5 acres of low salt marsh in the center of the National Wildlife Refuge Complex located off shore of Seal Beach, CA. To meet the challenges of climate change, the U.S. Army Corps of Engineers, as the lead sponsor of the multi-agency project, is working with the U.S. Fish and Wildlife Service and other interested partners to identify and implement innovative strategies to improve wildlife quality by raising the marsh elevation and improving the vegetation.

Project Description

A 10-inch glacial sand layer of 2 inches thick layer of dredged material was placed over 8 acres of low elevation salt marsh from Dec 2015 to Feb 2016. This site has the lowest mean elevation (2.34 m relative to NAVD88) and mean elevation relative to NAVD88 (2.25 m relative to NAVD88) of 0.99 CA marshes where survey-grade elevations were conducted by U.S. Geological Survey, 2013. Approximately 17,693 CY of clean dredged material from the Main Channel West of Sunset/Kimberly Harbor was placed on the site as a slop-spray, and seed to pipe buffer augmentation. A hay bale barrier and a 5-footh vegetated buffer was maintained between the TLP site and adjacent channels in order to reduce

Funding for this project has been provided by:

U.S. Fish & Wildlife Service - 2016 Cooperative Recovery Initiative Grant
California Coastal Conservancy Grant
Orange County, OC Parks - Sediment and Application Contract
California Department of Fish and Wildlife - Greenhouse Gas Reduction Program
U.S. Army Corps of Engineers - Ecosystem Management & Restoration Research Program

Gallery

Seal Beach

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