

Los Cerritos Wetlands Authority

Los Cerritos Wetlands Restoration Plan Public Meeting

Via Zoom

March 18, 2021

•Presenters:

Eric Zahn, Restoration Ecologist, Tidal Influence Sally Gee, Project Analyst, Rivers and Mountains Conservancy We appreciate you being courteous! This meeting is being moderated and inappropriate behavior will lead to being removed.

Meeting Format

- During the presentation, all participants will be muted
- After the presentation there will be an opportunity to unmute and ask questions
- Ask questions at any time in chatroom!
 - This meeting is being recorded

Agenda

• Los Cerritos Wetlands Authority Restoration Planning Process

Review of Draft Restoration Plan

Next Steps

Questions & Answers

The Los Cerritos Wetlands Habitat Restoration Plan Final Draft

March 2021

Prepared For:

the Los Cerritos Wetlands Authority 100 N. Old San Gabriel Canyon Rd. Azusa, CA 91702

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Prepared By:

Coastal Restoration Consultants

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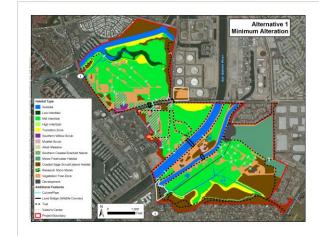
Los Cerritos Wetlands Authority

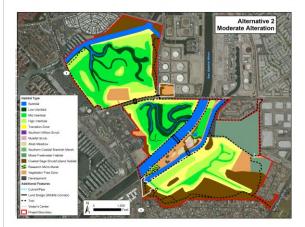
Los Cerritos Wetlands Authority (LCWA)

- Formed in 2006
- Comprised of the State Coastal Conservancy, Rivers and Mountains Conservancy, City of Long Beach, and City of Seal Beach
- Promotes acquisition, <u>restoration</u>, conservation and management of the Los Cerritos Wetlands
- Landowner and Lead Agency for CEQA

LCWA Restoration Planning History

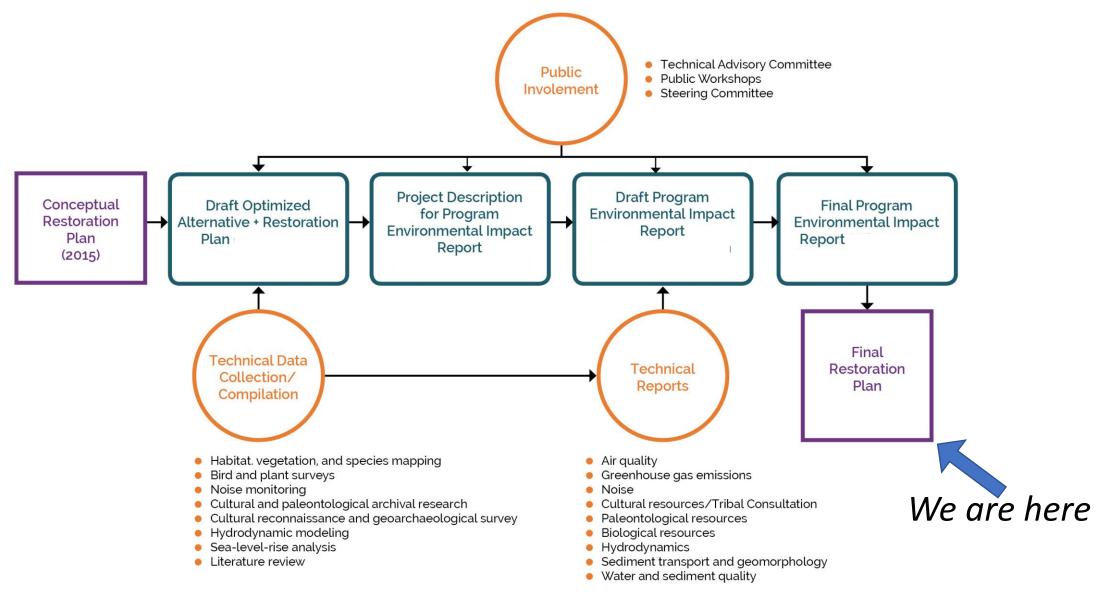
- LCWA Board approved the Los Cerritos Wetlands Conceptual Restoration Plan in August 2015
- Conceptual Plan Included 3 Restoration Alternatives: Minimum Alteration, Moderate Alteration, Maximum Alteration
- Funding received in 2017 to initiate next steps: prepare Program Environmental Impact Report (PEIR) and Final Restoration Plan
- LCWA Board Certified the Final Program EIR in January 2021







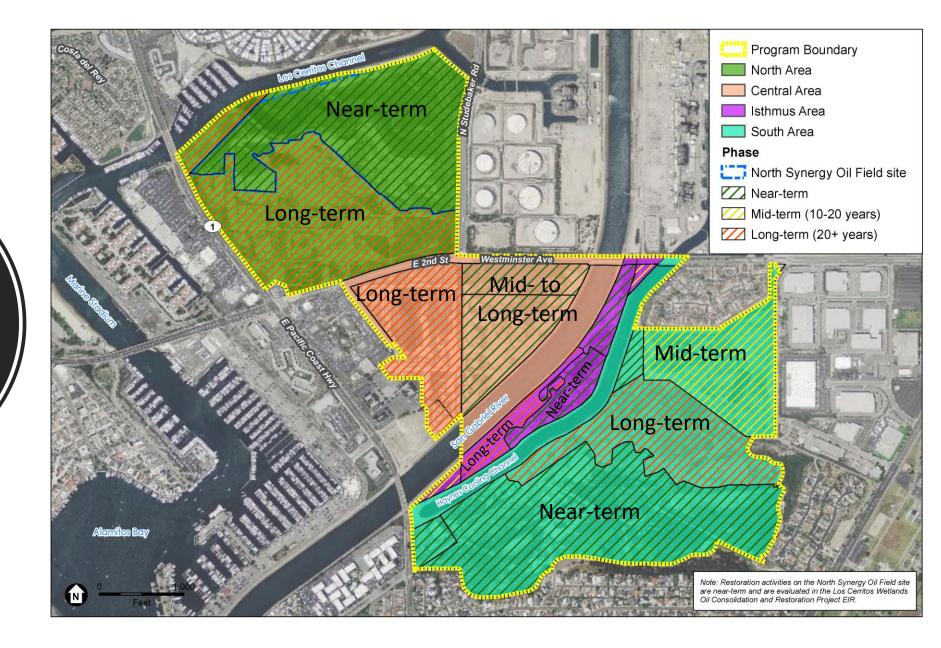
Current LCWA Restoration Planning Process



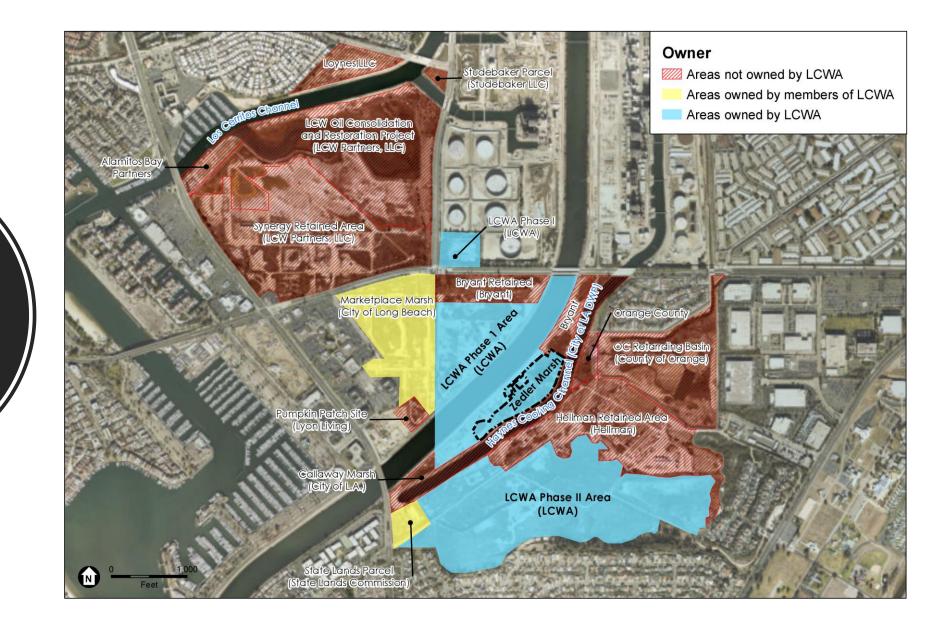
Program Area Boundary



Proposed Program Phasing



Los Cerritos Wetlands Complex Land Ownership

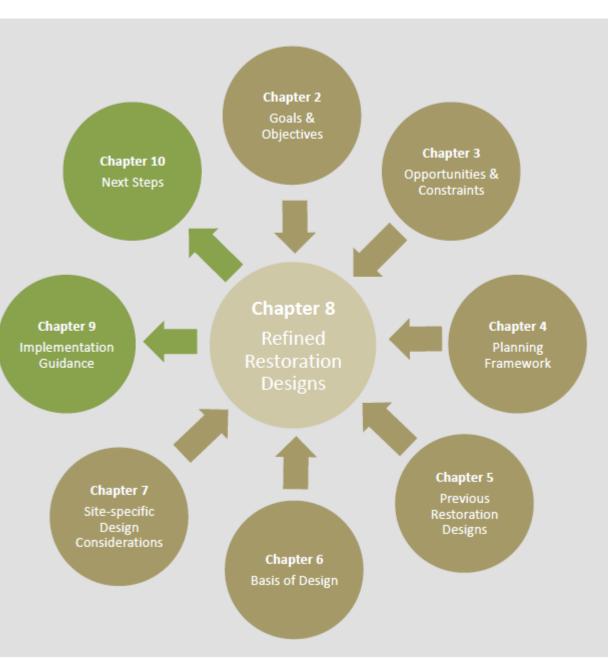


Review of LCW Restoration Plan



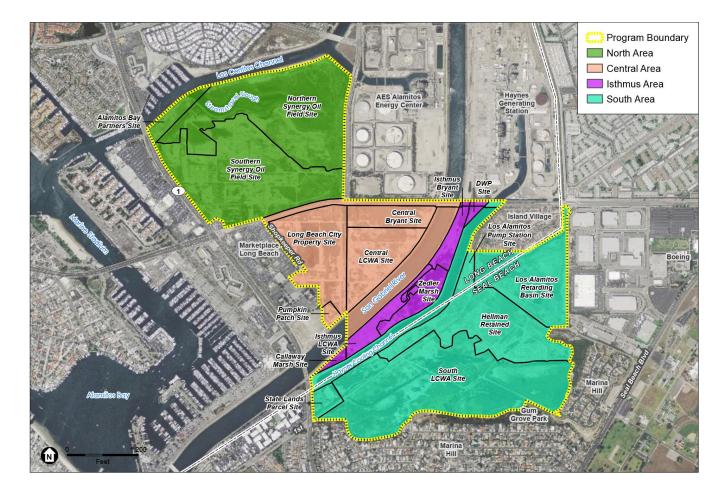
1. INTRODUCTION

- This plan includes considerable technical details providing the basis for refining the restoration designs presented in the PEIR.
- Readers can navigate the document by following Figure 1-3
- **Chapters 2-7** contain technical details that informed the development of the refined restoration designs
- **Chapter 8** present the refined restoration designs
- **Chapters 9 and 10** present guidance for successful implementation and further refinement of those restoration designs

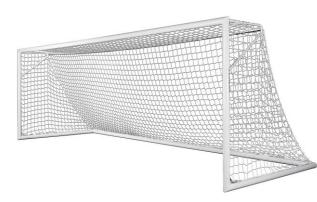


1. INTRODUCTION

- The Restoration Plan covers the entire Program EIR area
- Refinements are provided for near-term projects
- Other planning efforts or the PEIR are referenced for certain mid- or long-term projects
- Table 1-1 summarizes how the plan discusses restoration on all sites



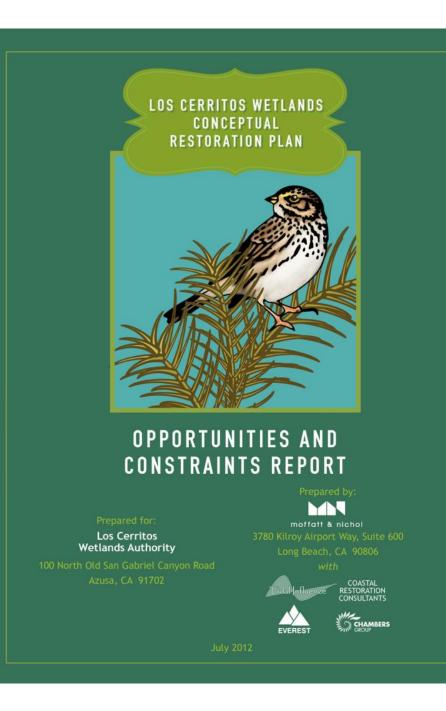
2. GOALS AND OBJECTIVES



- 1. Restore tidal wetland process and functions to the maximum extent possible
- 2. Maximize **contiguous habitat** areas and maximize the **buffer** between habitat and sources of human disturbance.
- 3. Create a **public access and interpretive program** that is practical, protective of sensitive habitat and ongoing oil operations, economically feasible, and will ensure a memorable visitor experience.
- 4. Incorporate **phasing of implementation** to accommodate existing and future potential changes in land ownership and usage, and as funding becomes available.
- 5. Strive for long-term restoration success.
- 6. Integrate experimental actions and research into the project, where appropriate, to inform restoration and management actions for this project.

3. OPPORTUNITIES AND CONSTRAINTS

- This section summarizes the opportunities and constraints related to restoration at the LCW
- They are detailed in an Opportunities and Constraints Report prepared by Moffatt & Nichol (2012) as part of the Conceptual Restoration Plan
- Most Opportunities are also Constraints
 - •Topography /Landforms /Soils
 - •Tidal Exchange/Local Watersheds / Hydrology
 - •Ecology
 - •Climate Change
 - •Infrastructure
 - •Human Interaction
 - •Regulatory/Implementation



4. PLANNING FRAMEWORK

- This chapter covers the following topics:
 - HISTORIC CONDITIONS
 - RESTORING ECOSYSTEM PROCESSES
 - REGIONAL AND LOCAL NEEDS ANALYSIS
 - ECOLOGICAL RESILIENCE AND RESTORATION
 - CURRENT CONDITIONS



Contaminated Soils Mapping From the PEIR Los Cerritos Wetlands Habitat Restoration Plan Figure 4-15

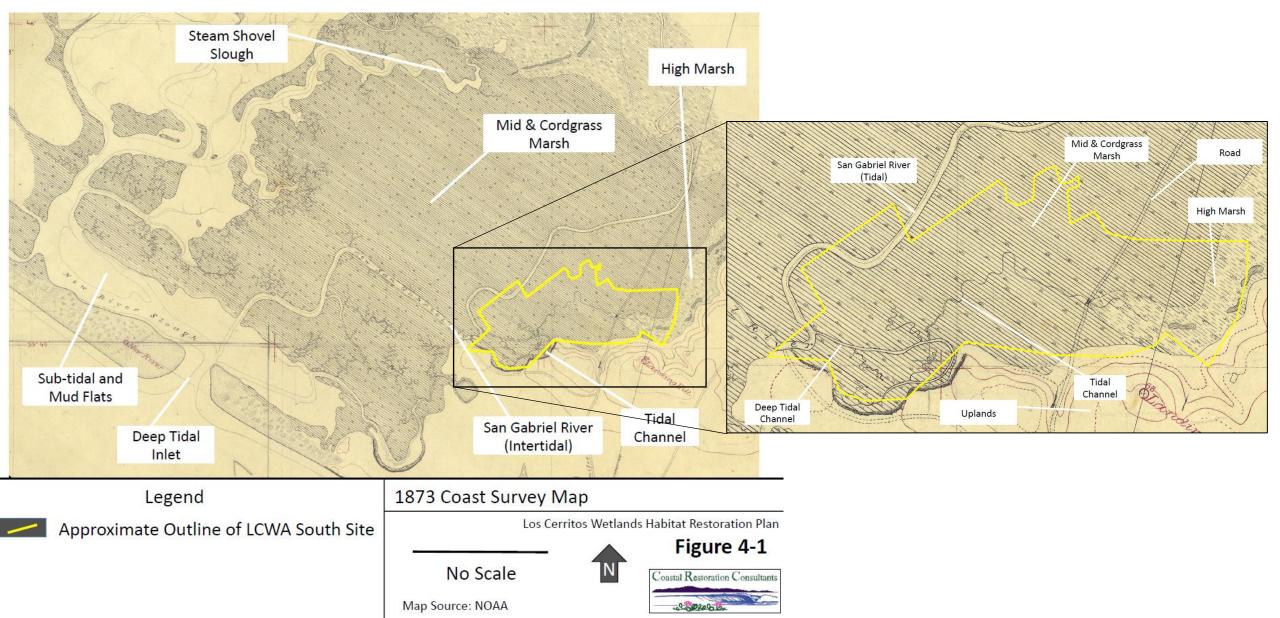


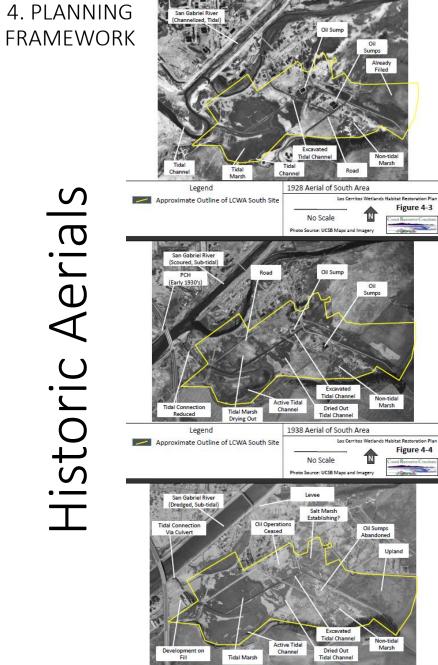
Los Cerritos Wetlands Restoration Plan Program EIR

Potential ESHA From the PEIR

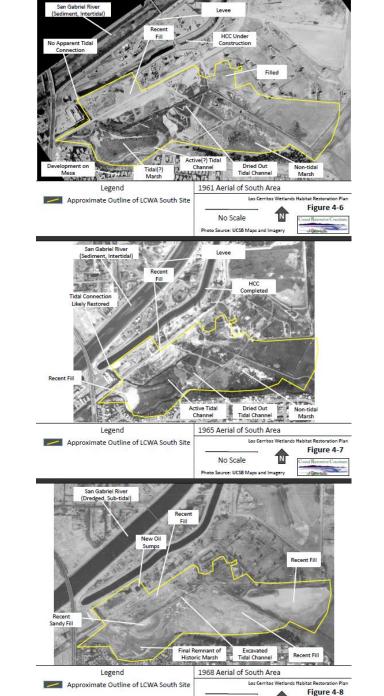
4. PLANNING FRAMEWORK

T-sheet Analysis





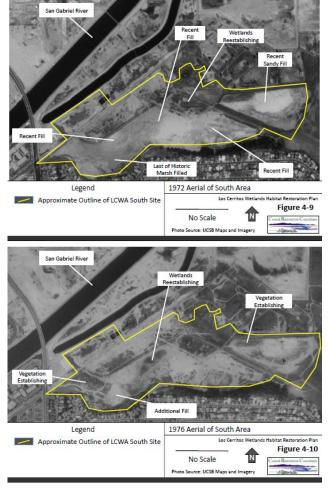


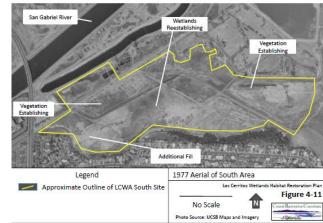


No Scale

Photo Source: UCSB Maps and Imagery

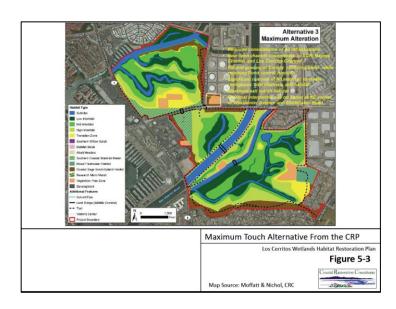
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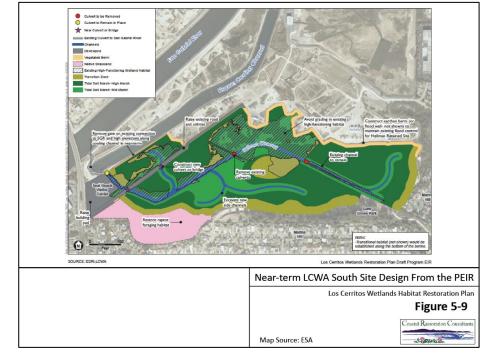




5. PREVIOUS RESTORATION DESIGNS

- This chapter summarizes the LCWA's previous restoration design iterations including the
 - Conceptual Restoration Plan
 - Program EIR
- Graphics from each of these documents are provided



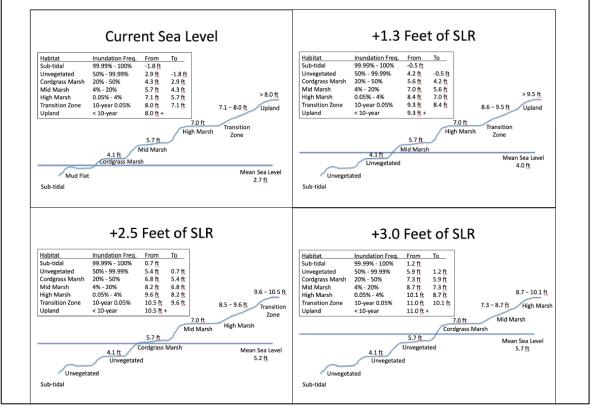




6. BASIS OF DESIGN FOR RESTORATION IN THE LCW

- This chapter outlines the basis of design that supported the development of the Refined Restoration Plan for the South LCWA Site (Chapter 8).
- The principles laid out in this basis of design should be applicable to other projects that tier off within LCW as planning progresses
- This chapter covers the following topics:
 - HABITATS TO BE RESTORED
 - HYDROLOGY AND HYDRAULICS
 - SEA LEVEL RISE RESILIENCE
 - LANDFORM
- Table 6-1 describe each potential habitat type to be restored

Figure 6-6. Conceptual design for SLR resilience in restored marshes using tiered wetland terraces.





Ridgway's Rail



S-banded Tiger Beetle



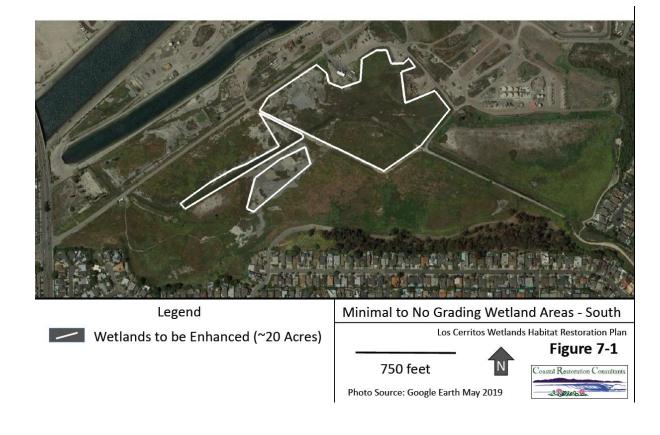
Salt Marsh Bird's Beak



California Boxthorn

7. SITE-SPECIFIC DESIGN CONSIDERATIONS

- This chapter describes project-specific and sitespecific design considerations that were used to inform the development of the Refined Restoration Plan
- This chapter covers the following topics:
 - SETTING TARGETS FOR DIFFERENT HABITATS
 - RESTORATION ACTIONS WITH MULTIPLE
 BENEFITS
 - PHASING WITHIN AND BETWEEN AREAS
 - KNOWN SOIL CONTAMINATION
 - REGULATORY AND PERMITTING
 CONSIDERATIONS
 - WATER QUALITY
 - PUBLIC ACCESS



8. REFINED RESTORATION DESIGNS

- This chapter provides details regarding potential near-term restoration projects
- Refined restoration designs are provided for:
 - South LCWA Site
 - Central LCWA Site
- Description of existing restoration designs are provided for:
 - Isthmus Area
 - North Area
- Table 8-1 describes the rare species that exist in the South LCWA Site
- Table 8-2 describes the rare species that could be introduced to the South LCWA Site



Belding's Savannah Sparrow establish 20-30 breeding territories each year in the South LCWA Site



Least Bell's Vireo exists nearby South LCWA site and could be introduced to the site with restoration of willow woodland habitat





Legend Upland Infrastructure C. lewisii Preservation C. lewisii Mitigation Upland on Fill Bioswale/Riparian Experimental Plot Refined Restoration Plan for the LCWA South Site

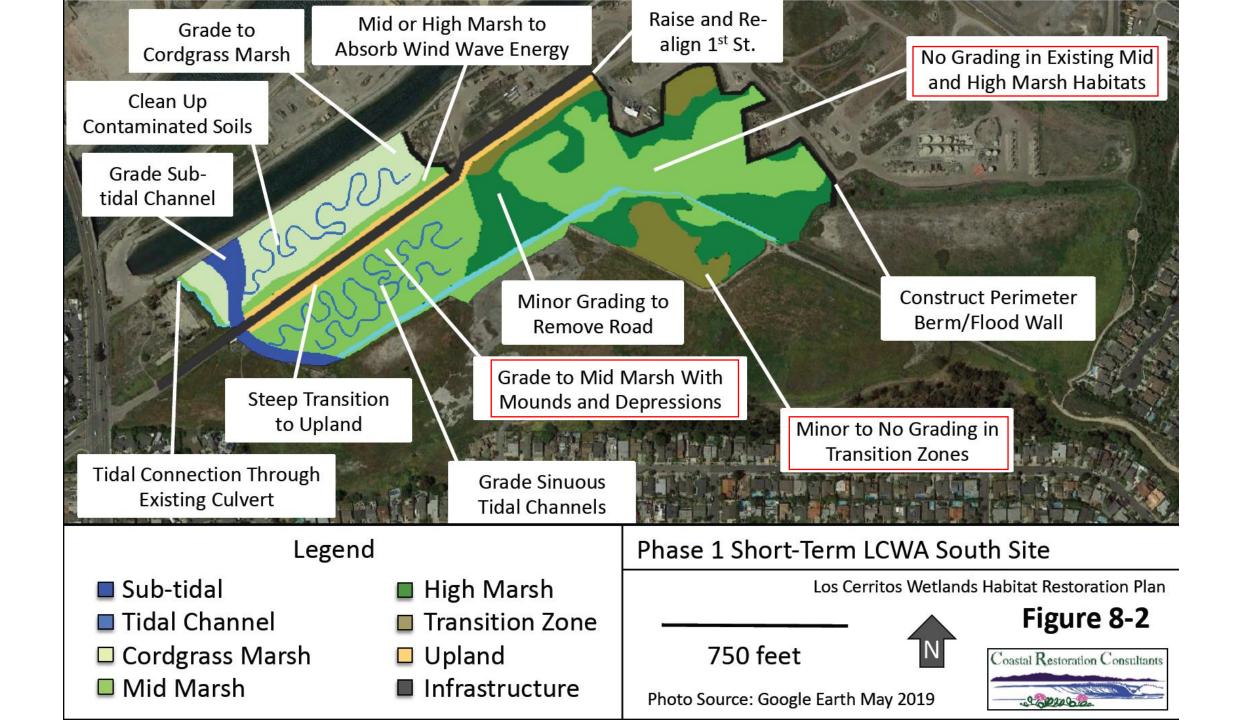
Los Cerritos Wetlands Habitat Restoration Plan

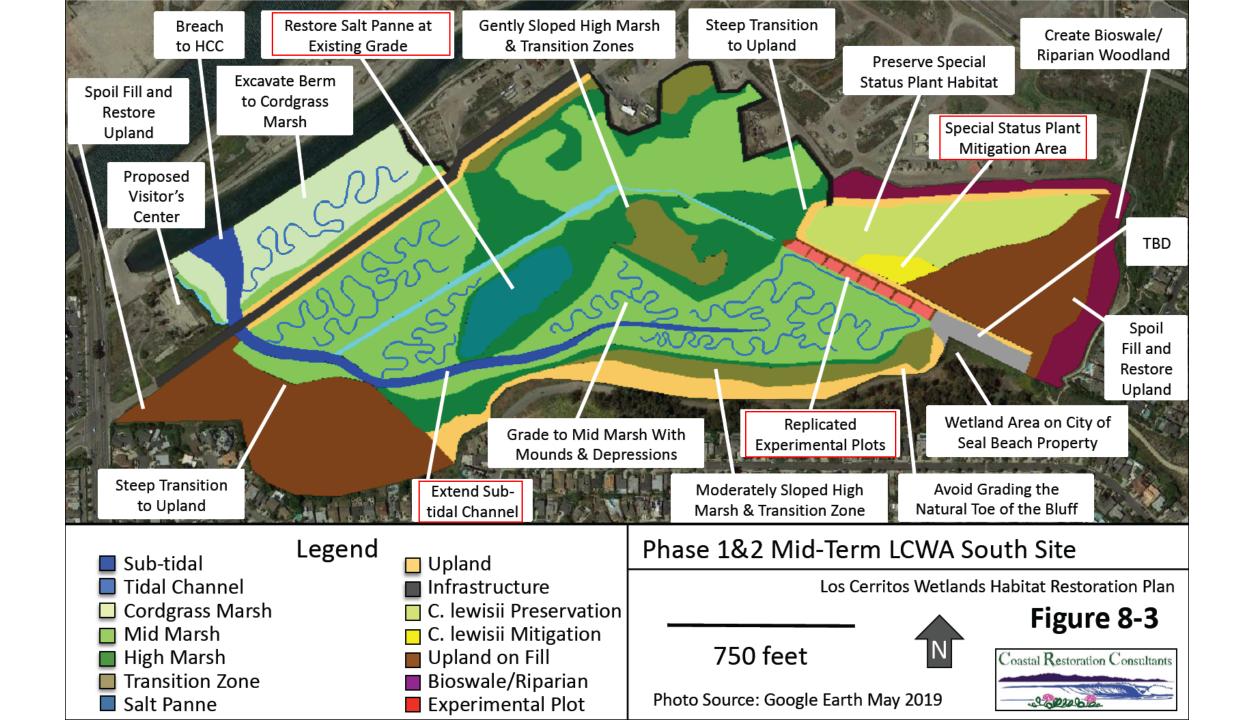
750 feet

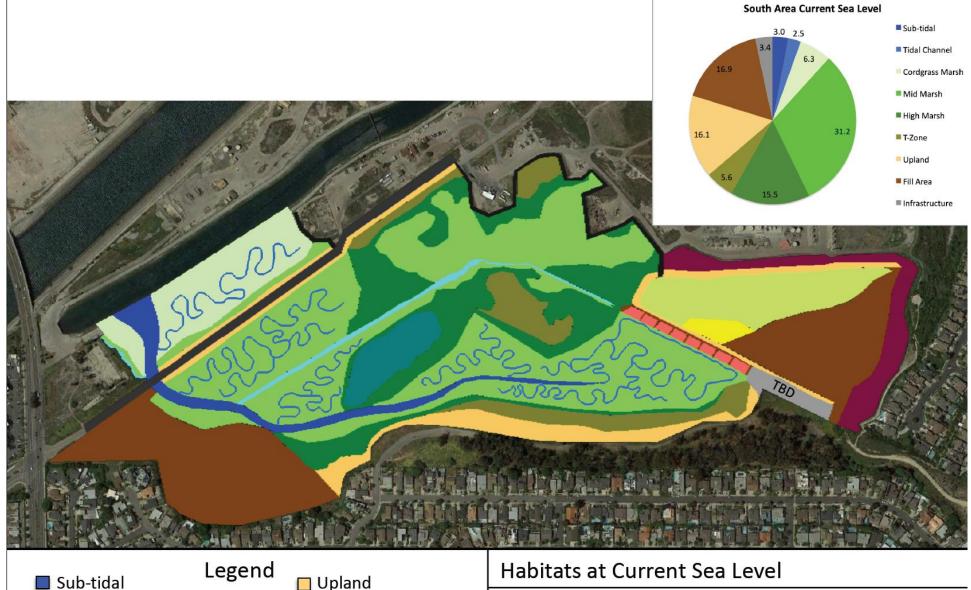
Photo Source: Google Earth May 2019













Tidal Channel

Mid Marsh

High Marsh

Salt Panne

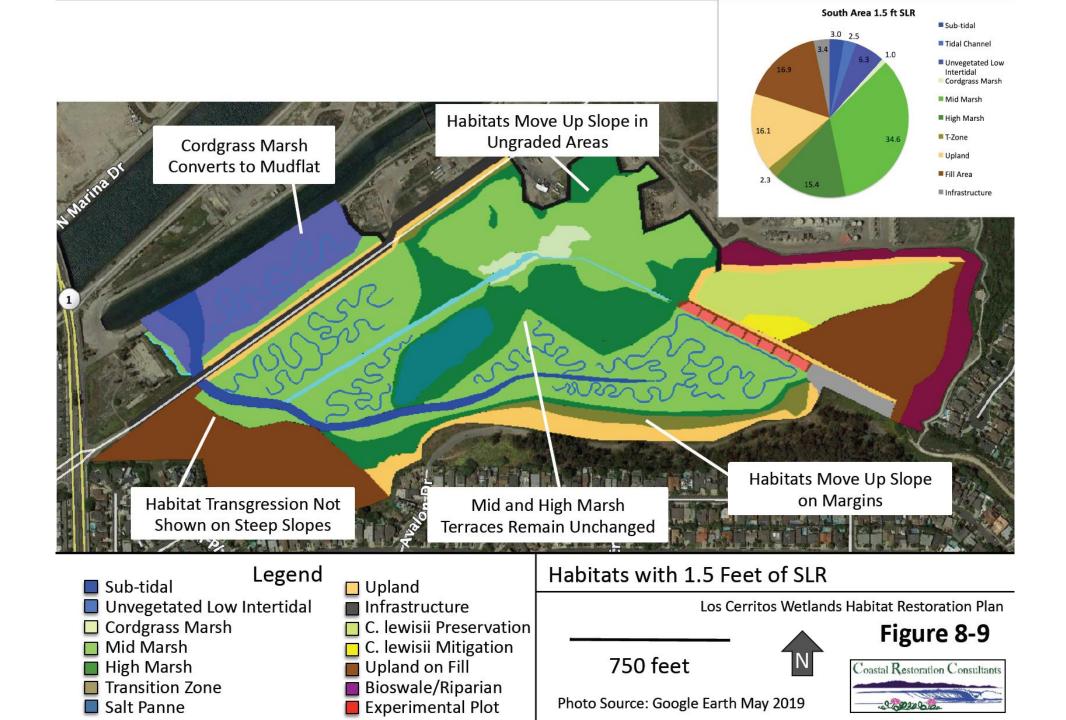
Habitats at Current Sea Level

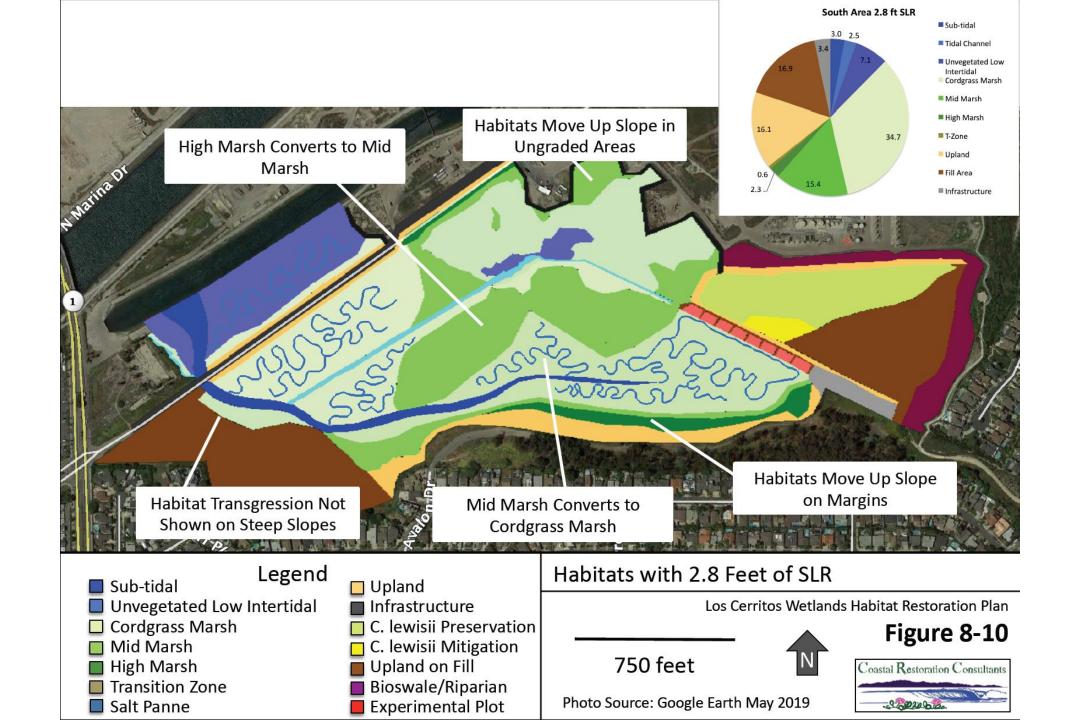
Los Cerritos Wetlands Habitat Restoration Plan

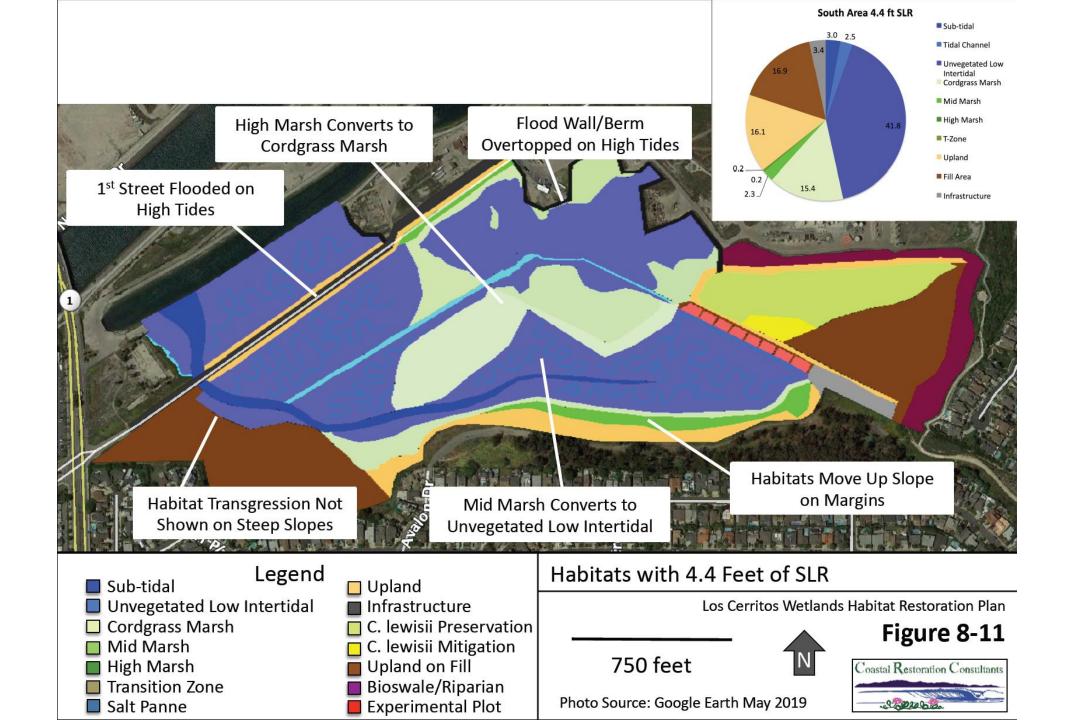
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Photo Source: Google Earth May 2019









Central Area: Restoration Concept Mid-Term

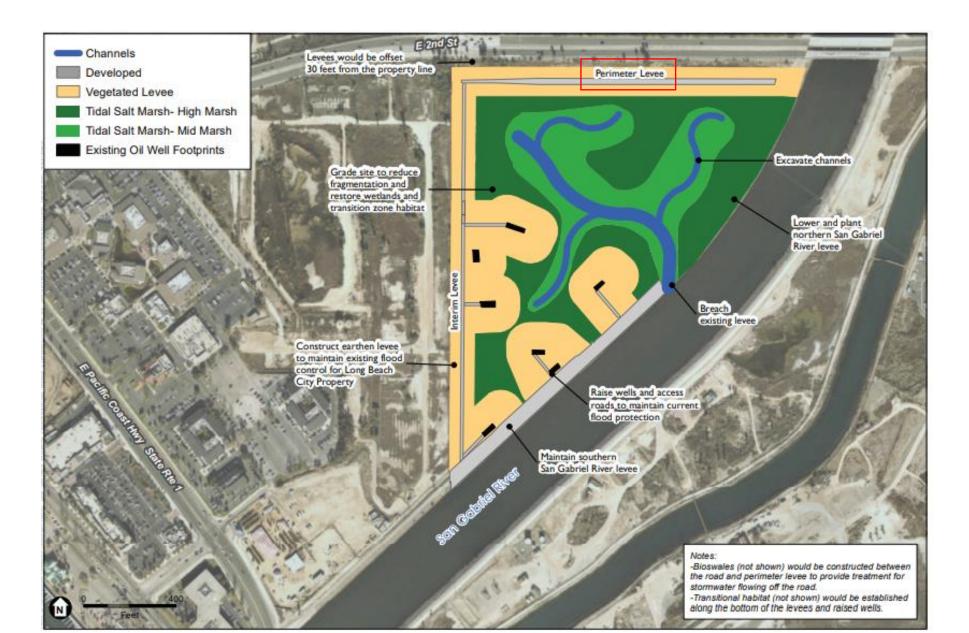
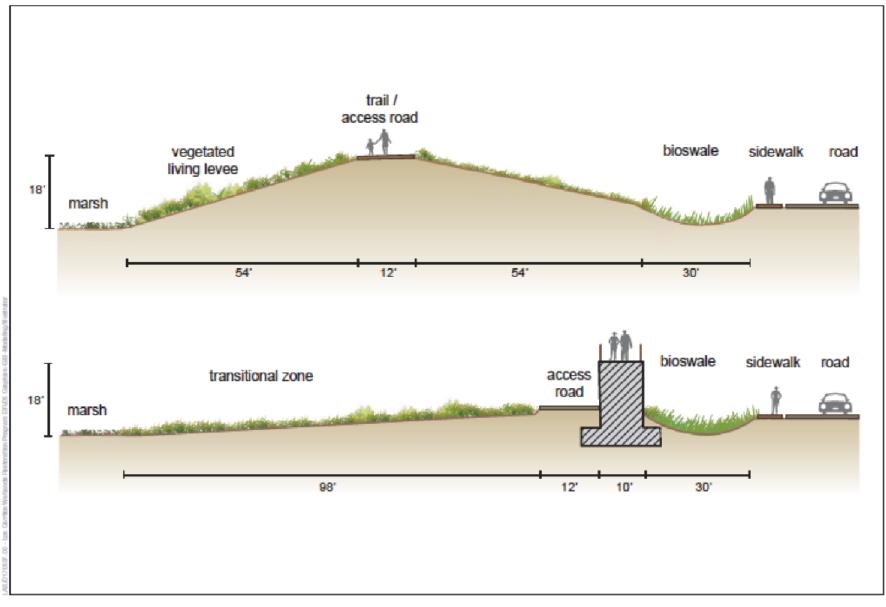
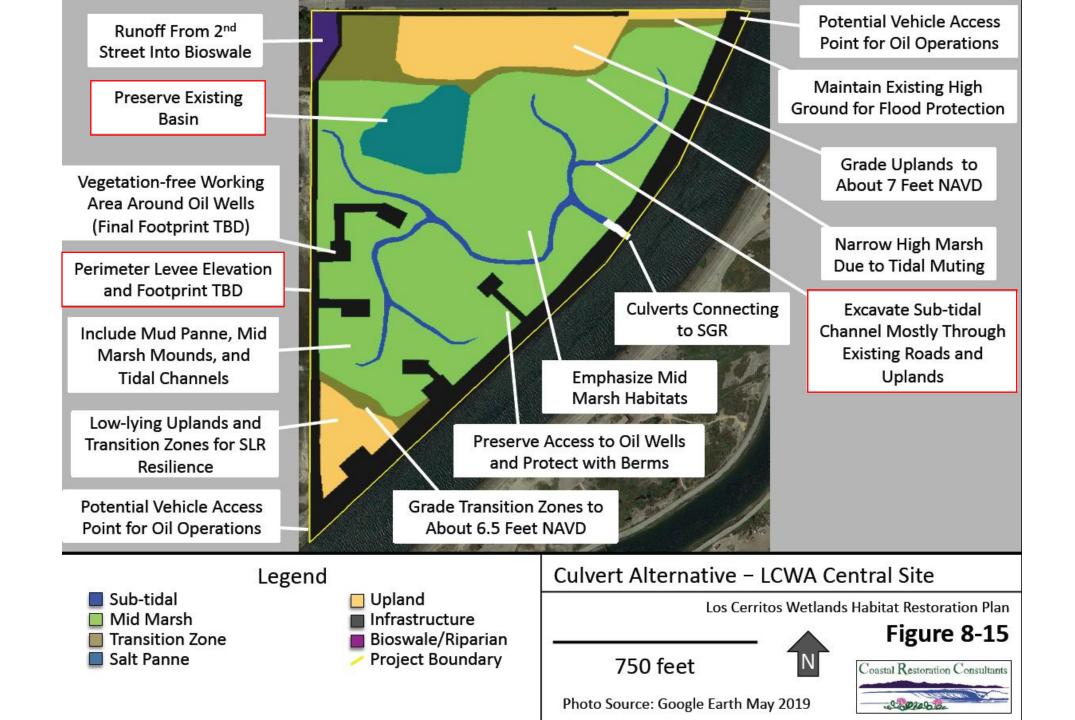


Figure 8-13. Conceptual designs for new LCWA Central site flood protection with full breach to SGR.





9. IMPLEMENTATION GUIDANCE

- This chapter covers the following topics:
 - ADAPTIVE MANAGEMENT AND ADAPTIVE RESTORATION
 - SOILS
 - REVEGETATION STRATEGIES
 - FINAL GRADING
 - ECOSYSTEM MONITORING
 - ON-SITE MITIGATION



Table 9-1. Revegetation strategies for different habitats. Guidance for vegetating levees can be found in the PEIR.

	Considerations for Restoration
Sub-tidal	- Establishing Zostera marina from turion transplants
	- Shown to be successful at other sites
Low Intertidal	- No planting
Unvegetated	Ho planting
Cordgrass Marsh	- Plant Spartina foliosa from container stock or plugs
	- Establishing tall robust plants requires fine soils with organic matter and
	good tidal flushing
Mud Panne	- Plant Salicornia bigelovii from seed
	- Plant <i>Batis maritima</i> on margins
Mid Marsh	 Plant high diversity of marsh species from container stock
	 Irrigation may aid establishment
	- Do not plant or seed Salicornia pacifica
	-Plant <i>Suaeda esteroa</i> from seed
Salt Panne	- Seed Lasthenia glabrata ssp. coulteri around edges
High Marsh	 Plant high diversity of marsh species from container stock and seed
	 Use irrigation to control soil salinity and aid establishment
	- Do not plant or seed Salicornia pacifica
Transition Zone	- Plant high diversity of species from container stock and seed
	- Use irrigation to control soil salinity and aid establishment
	- Plant more wetland species at lower elevations and more upland species
	higher
Upland	- Use direct seeding and container plants
	- Plant grassland species on heavy soils
	- Plant coastal prairie species on sandy soils
	- Plant coastal sage scrub on slopes and better-drained soils
	- Use irrigation only in the rainy season to aid establishment
	- Will require extensive weeding
Riparian/Bioswale	- Plant cuttings/stakes and container stock
	- Use irrigation until roots reach groundwater
	- Will require weeding

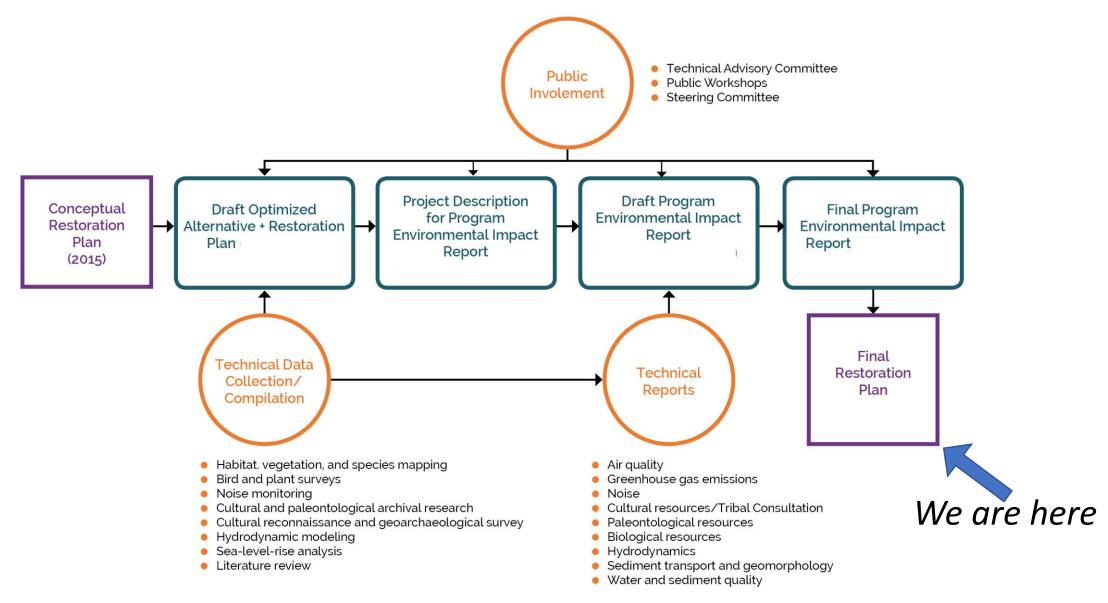
10. NEXT STEPS

- This chapter covers the following topics:
 - THE NEXT PHASE OF PLANNING SOUTH LCWA SITE
 - DATA GAPS SOUTH LCWA SITE
 - PUBLIC ACCESS AND VISITOR EXPERIENCE
 - PERMITTING AND APPROVALS
 - TIMELINE
- Table 10-1 provides a summary of all possible permits/approval
- Table 10-2 provides an estimated general timeline for the next phase of planning





Next Steps for the LCWA Restoration Planning Process



Next Steps for the LCWA Restoration Planning Process

- Public Comments on Restoration Plan Due March 25, 2021
- Technical Advisory Committee Meeting April 12, 2021
- Tribal Advisory Groups Meetings Spring 2021
- LCW Restoration Plan Presented to LCWA Board May 2021
- LCWA South Area Restoration Project
 - Moffatt and Nichol Consulting Team Under Contract
 - Technical Studies Spring-Summer 2021
 - Project Level CEQA Analysis Summer-Winter 2021*
 - 30%-65% Construction Design Complete in 2022*
 - Permit Applications Submitted in 2022*
 - Public Engagement Throughout

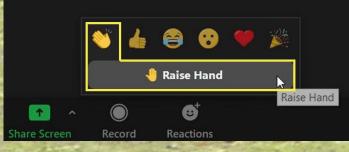


THANK YOU FOR LISTENTING Now it is your TERN!

Questions and Answers

Questions and Answers

How to ask a question 1. Press "Reactions" to "Raise Hand" 2. Moderator will unmute you 3. Speak when called upon 4. Mute yourself after question 5. Lower Hand



For More Information

Visit intoloscerritoswetlands.org or Contact Icwa@tidalinfleunce.com



Los Cerritos Wetlands Authority

Links Program EIR - https://intoloscerritoswetlands.org/the-lcws-eir/ Restoration Plan - https://intoloscerritoswetlands.org/wp-content/uploads/2021/03/LCW-Restoration-Plan-Final-Draft.pdf