

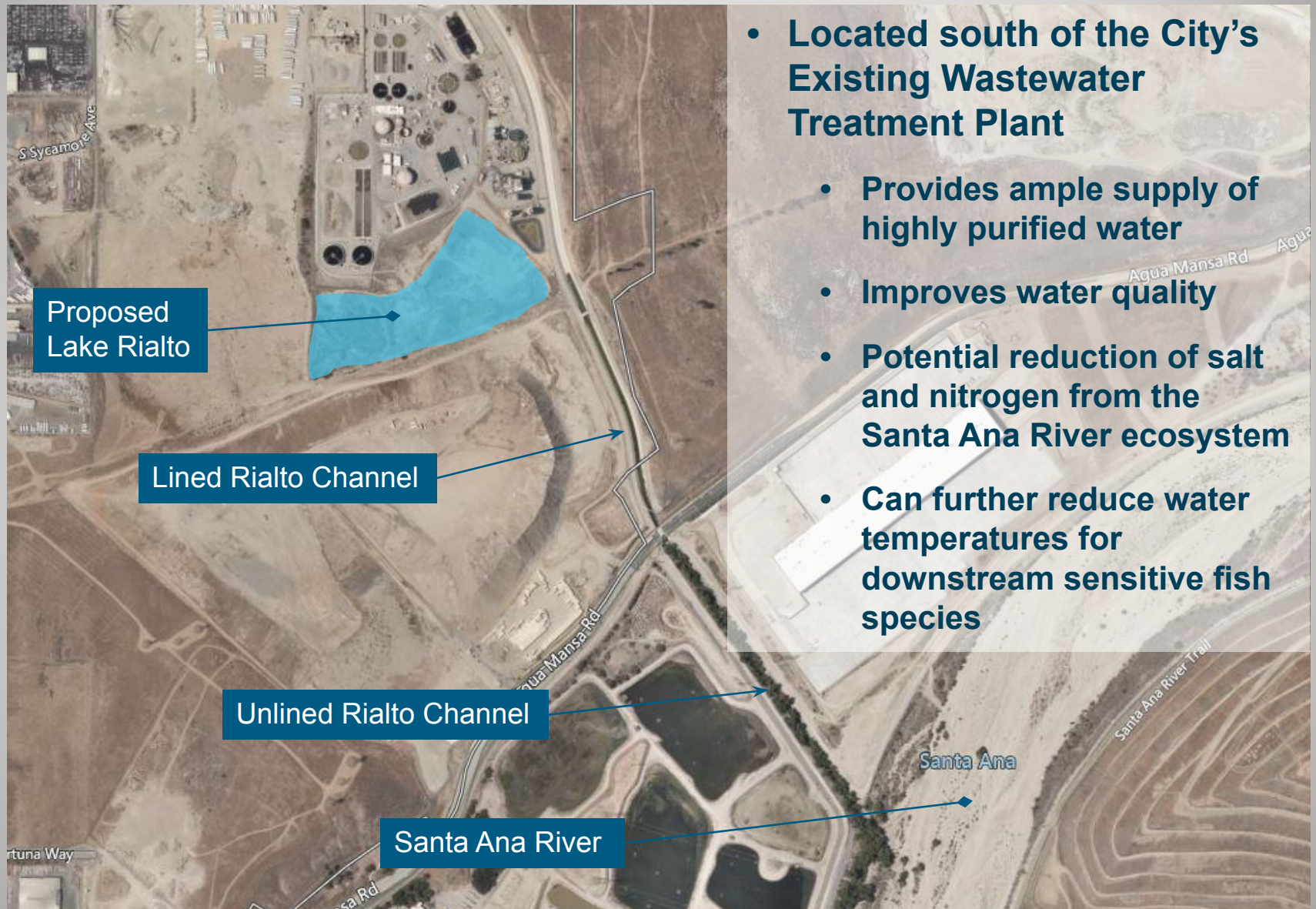


Lake Rialto Introduction

October 14, 2022



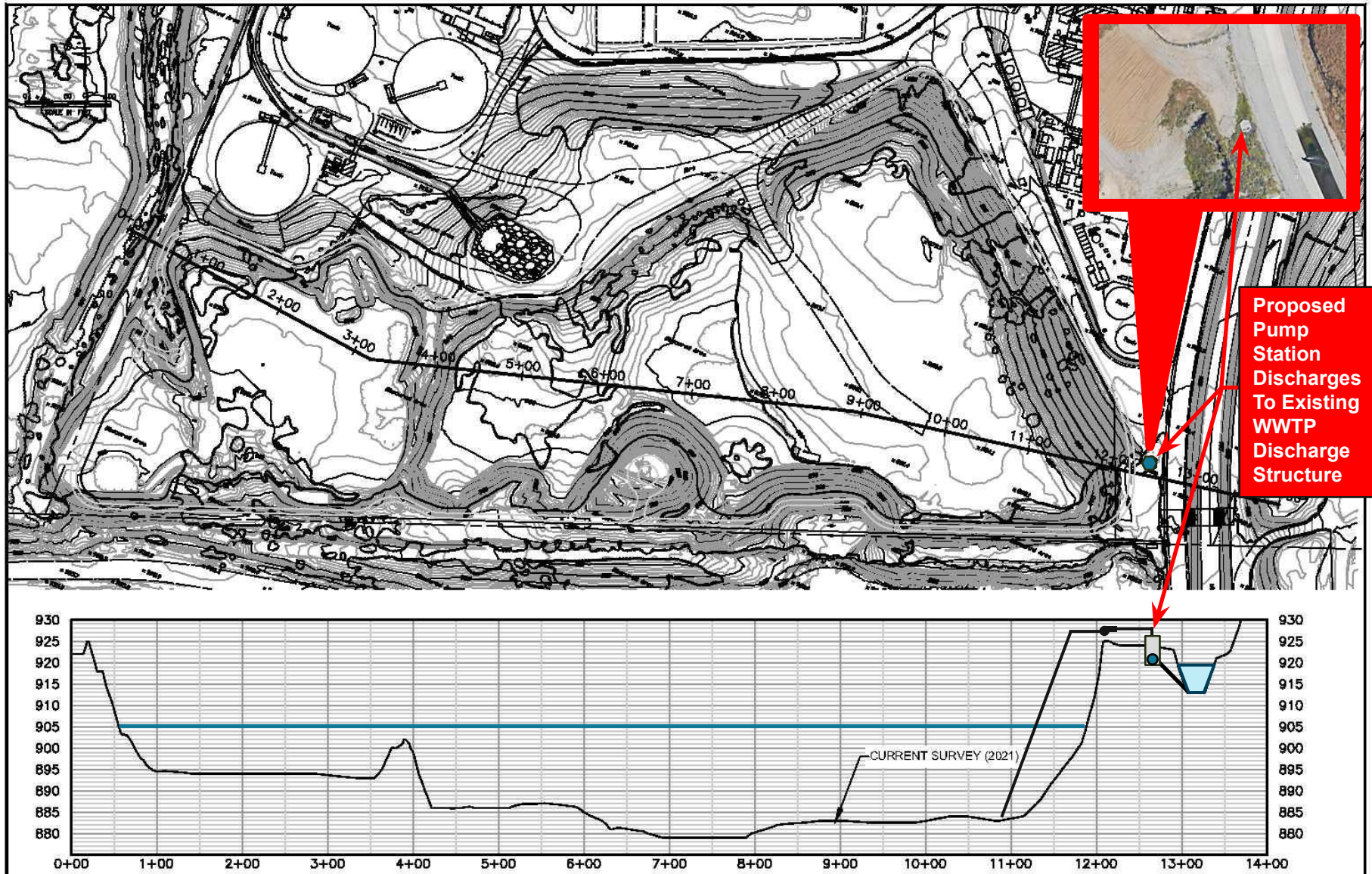
Location of Lake Rialto



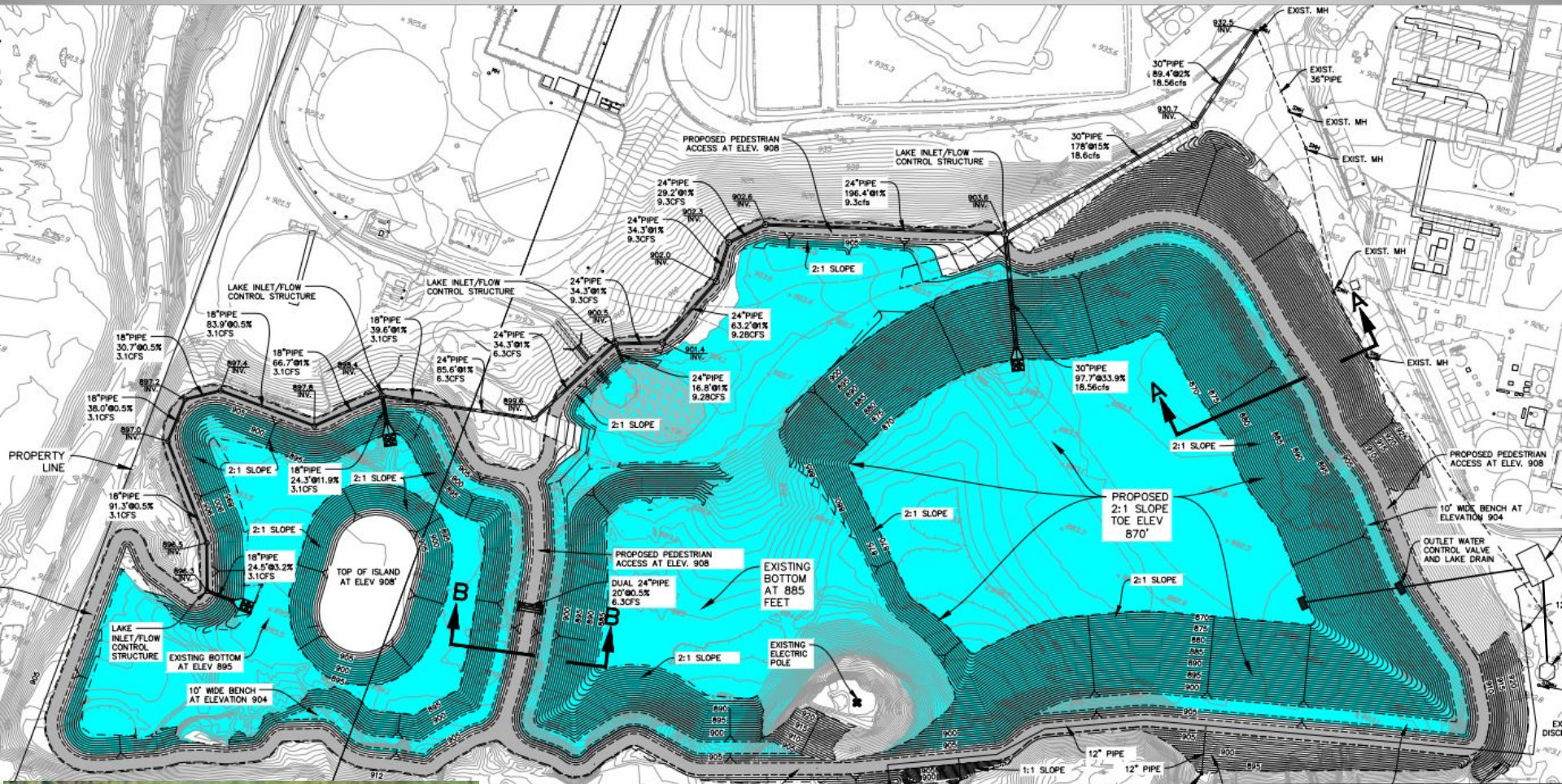
- Located south of the City's Existing Wastewater Treatment Plant
- Provides ample supply of highly purified water
- Improves water quality
- Potential reduction of salt and nitrogen from the Santa Ana River ecosystem
- Can further reduce water temperatures for downstream sensitive fish species

Lake Rialto Concept - Section

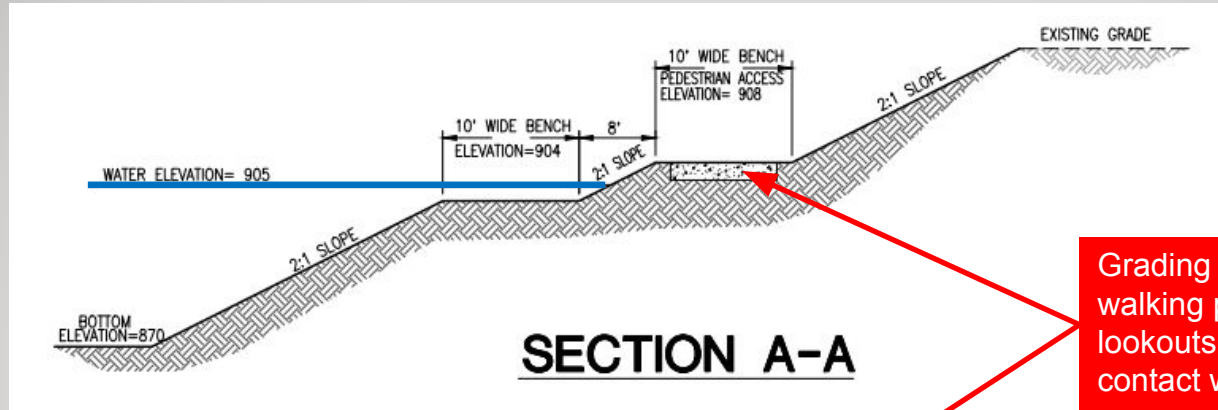
Pumping to Current Discharge Structure



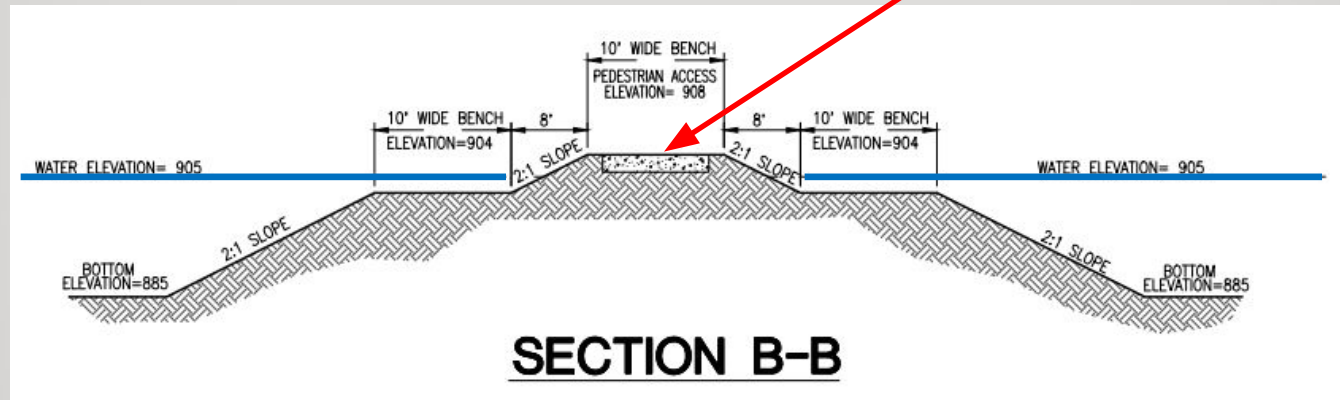
Lake Rialto – Conceptual Grading & Piping



Lake Rialto – Cross Sections



Grading achieves desired walking paths, view lookouts without human contact with the lake.



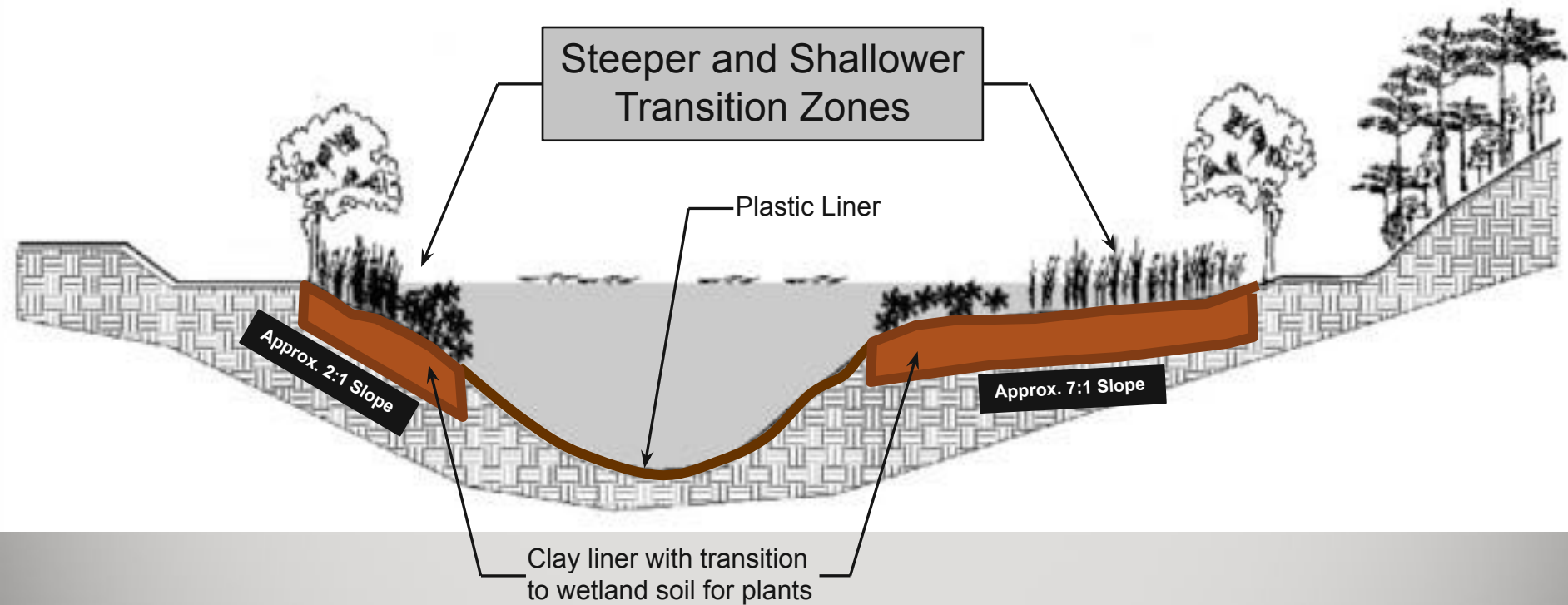
Lake Rialto – Conceptual Design

- **Hydraulic & Habitat Benefits**
 - Creation of Wetlands & Wildlife Habitat
 - Retention and Control of flows in the Rialto Channel
 - Removal of Invasive Fish Species
 - Improve water quality
- **Community Benefits**
 - Water Feature (non-contact)
 - Walking Trails
 - Education



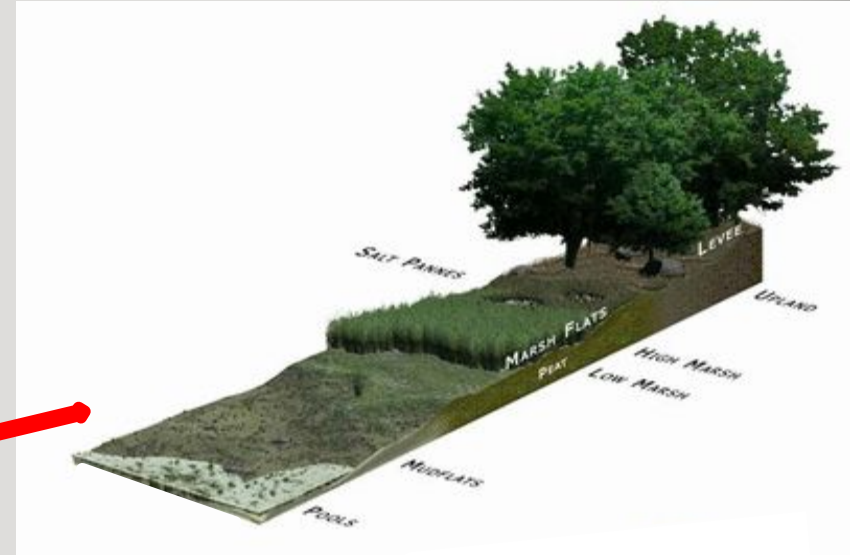
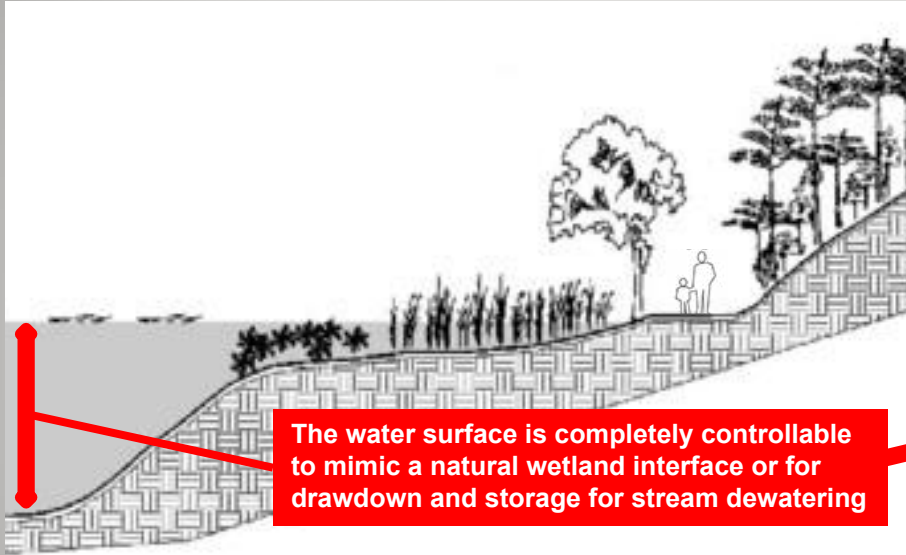
Lake Rialto

Wetland/Upland Interface Cross Section Using Hybrid of Clay/Soil and Plastic Liner



Lake Rialto

Hydraulic Controls and Wetland/Upland Interface Cross Section



Provides Hydraulic and Habitat Benefits for the Santa Ana River Habitat Conservation Plan Rialto Channel Invasive Fish Species Removal

STREAM DEWATERING



Total Lake Storage

38.65 MG

At 7 MGD = 5.5 D

At 11.7 MGD = 3.3 D

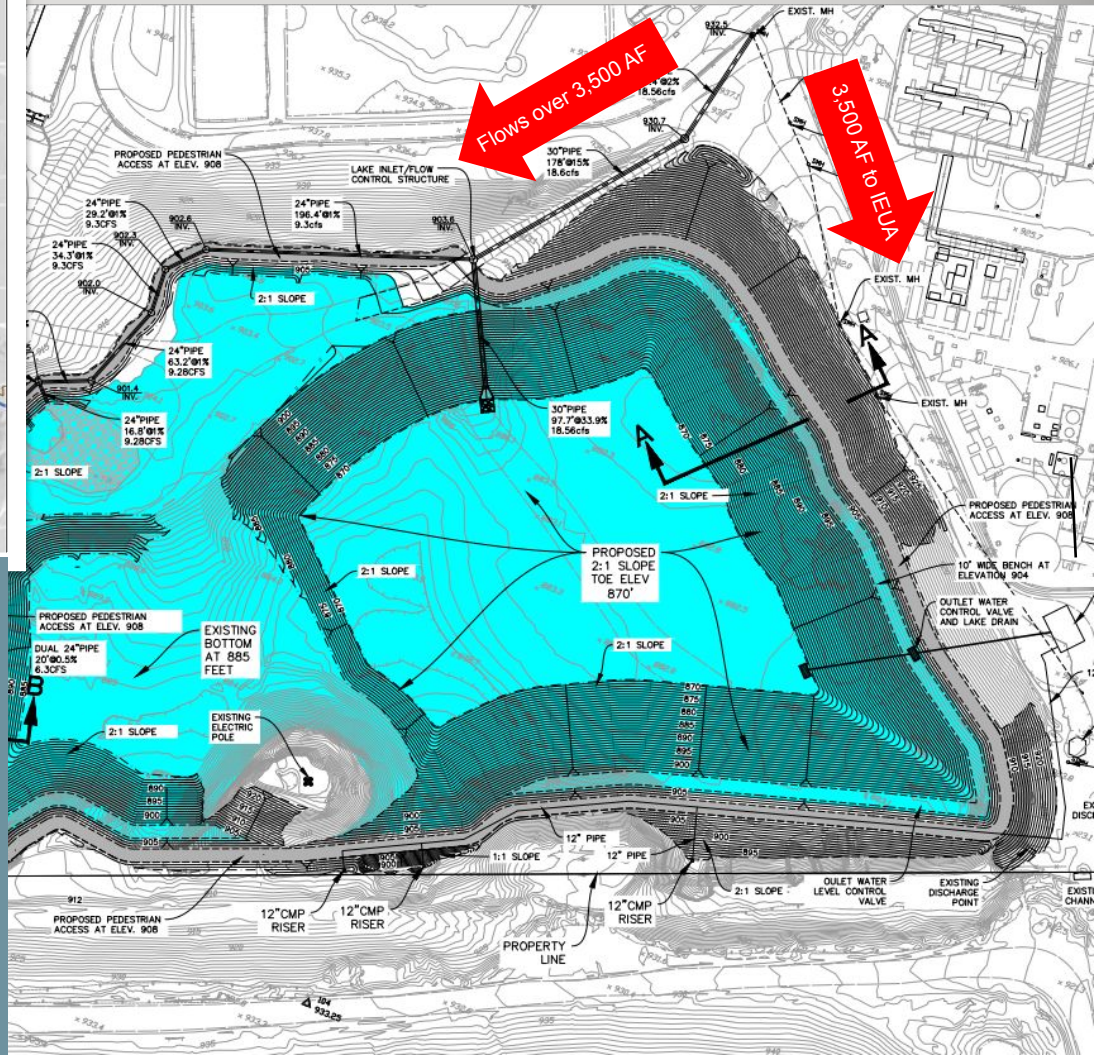
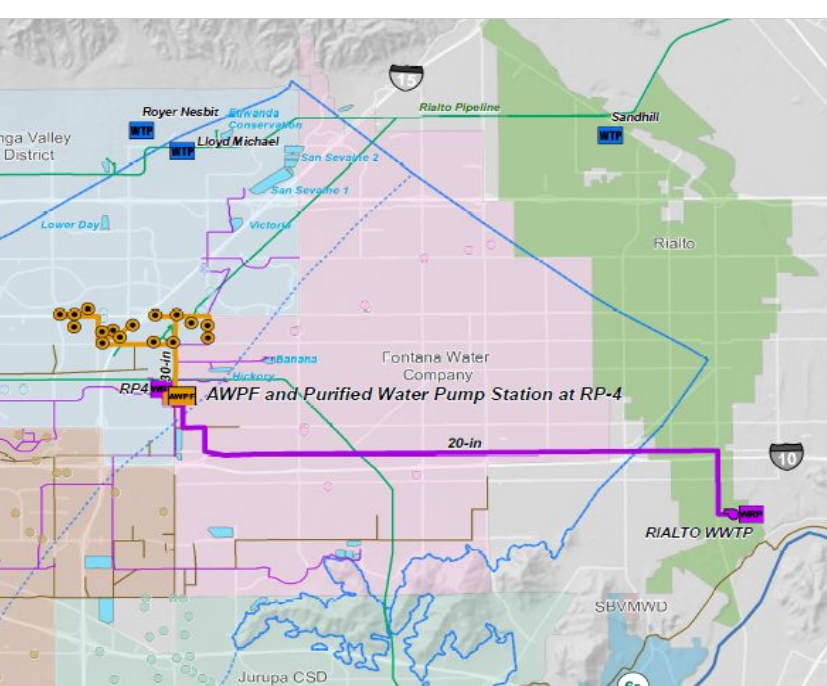


Provides Multiple Community Benefits

Recreational (Non-Contact) , Environmental & Educational



Lake Rialto – Summer Flow Diversions to IEUA Potential Considerations for DDW



Project Components & Considerations

- 7 MGD for six months [May to October] 3,500 AFY
- (1) Pump station + pipeline + interconnection
- Supplemental well to meet HCP discharge requirements
- Point of diversion to IEUA
- Consolidation or separation of flows through Lake Rialto To IEUA?

Project Schedule

Table 2 – Lake Rialto Final Design Schedule

Task/Subtask	Mar-2022	Apr-2022	May-2022	Jun-2022	Jul-2022	Aug-2022	Sep-2022	Oct-2022	Nov-2022	Dec-2022
Civil and Mechanical Plans					★					
Offsite Surveying and Street Parking Plans										
Landscaping and Irrigation Plans										
Hydrology/Hydraulics Report										
Storm Water Pollution Prevention Plan (SWPPP)										
Technical Specifications										
Construction Period Engineering Services										
Project Management										
City proceeds to bid construction contract										★

Notes:

Anticipated Notice to Proceed is March 2022

★ = Presentation to the Water Subcommittee

Questions