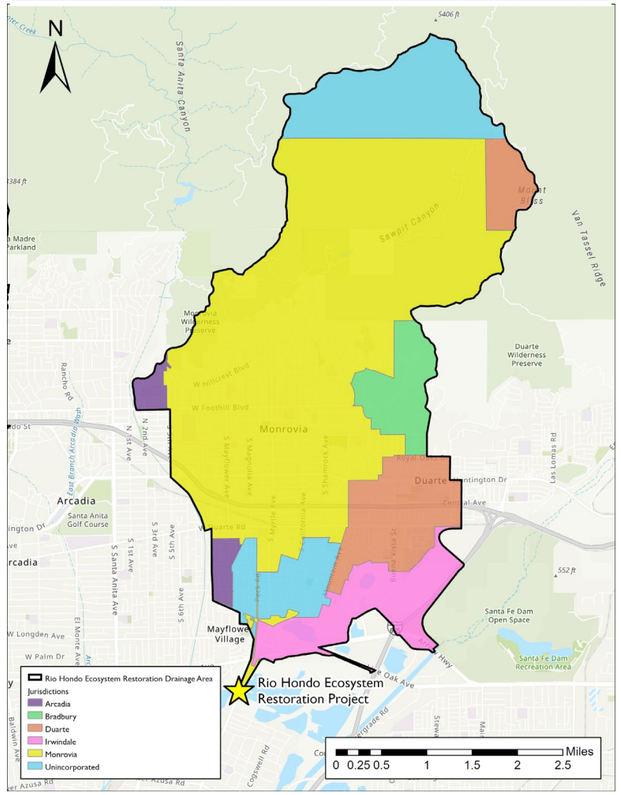
RIO HONDO/SAN GABRIEL RIVER WATER QUALITY GROUP, CITY OF ARCADIA
RIO HONDO ECOSYSTEM RESTORATION STORMWATER CAPTURE PROJECT
FACT SHEET

EXISTING SITE CONDITIONS

DRAINAGE AREA



DRAINAGE CHARACTERISTICS

REGIONAL WATER MANAGEMENT PLAN	Rio Hondo/ San Gabriel River Water Quality Group
DRAINAGE AREA	**10,681 acres** Monrovia (60.7%) Unincorporated LA County (15.0%) Duarte (10.3%) Irwindale (7.5%) Bradbury (4.6%) Arcadia (1.9%)
INFILTRATION RATE	0.3 inches per hour (assumed in modelling)
APPROX. DEPTH TO GROUNDWATER	54 ft BGS
MODELED AVERAGE ANNUAL RUNOFF VOLUME	4,036 ac-ft per year

Sawpit Wash Channel

Rio Hondo Ecosystem Restoration Project Site

BMP CHARACTERISTICS

LOCATIONS Peck Road Water Conservation Park (5401 Peck Road, Arcadia)
Pick A Part Lot (3333 Peck Road, Monrovia)

LAT: 34°06'22.0"N
LONG: 118°00'27.6"W

Proposed BMP Description: The Rio Hondo Ecosystem Restoration Project is divided into two distinct phases: (1) the Peck Road Park Lake restoration area and improvements, and (2) the cluster of parcels immediately to the north of Peck Road Park Lake encompassed by Live Oak Avenue, Peck Road, and Lynd Avenue (herein referred to as the Pick-a-Part lot. The Phase 1 site is owned and operated by the Los Angeles County, Department of Parks and Recreation and the Phase 2 Pick-A-Part Lot is privately owned by several business owners. **This application only seeks design funds for Phase 1 of the project**. Runoff within this corridor ultimately drains to Sawpit Wash within the Rio Hondo watershed. The project seeks to improve water quality discharged to the Sawpit Wash and to the Rio Hondo Watershed. In addition, the project also proposes to address water supply benefit by restoring the basins in Peck Road Water Conservation Park and rehabilitate areas of the park. The project consists of 2 stormwater diversions from the LACFCD Sawpit Wash Channel. The water captured will be filtered by a combination of pretreatment systems (hydrodynamic separators) and flow through a combination wetland and groundwater recharge basin system ultimately discharging into the two large storage basins in Peck Road Water Conservation Park and subsequently, the Rio Hondo. Phase 1 has a total storage of 36.6 AF/12 MG (76.6 AF Total). This project has the potential to offer runoff storage and water quality benefits for these jurisdictions that can address the additional needs for stormwater management identified to achieve compliance in the rWMP. The project is downstream of the proposed Arboretum Treatment Wetlands and Groundwater Recharge Stormwater Capture Project and will work in tandem to provide watershed wide benefit.

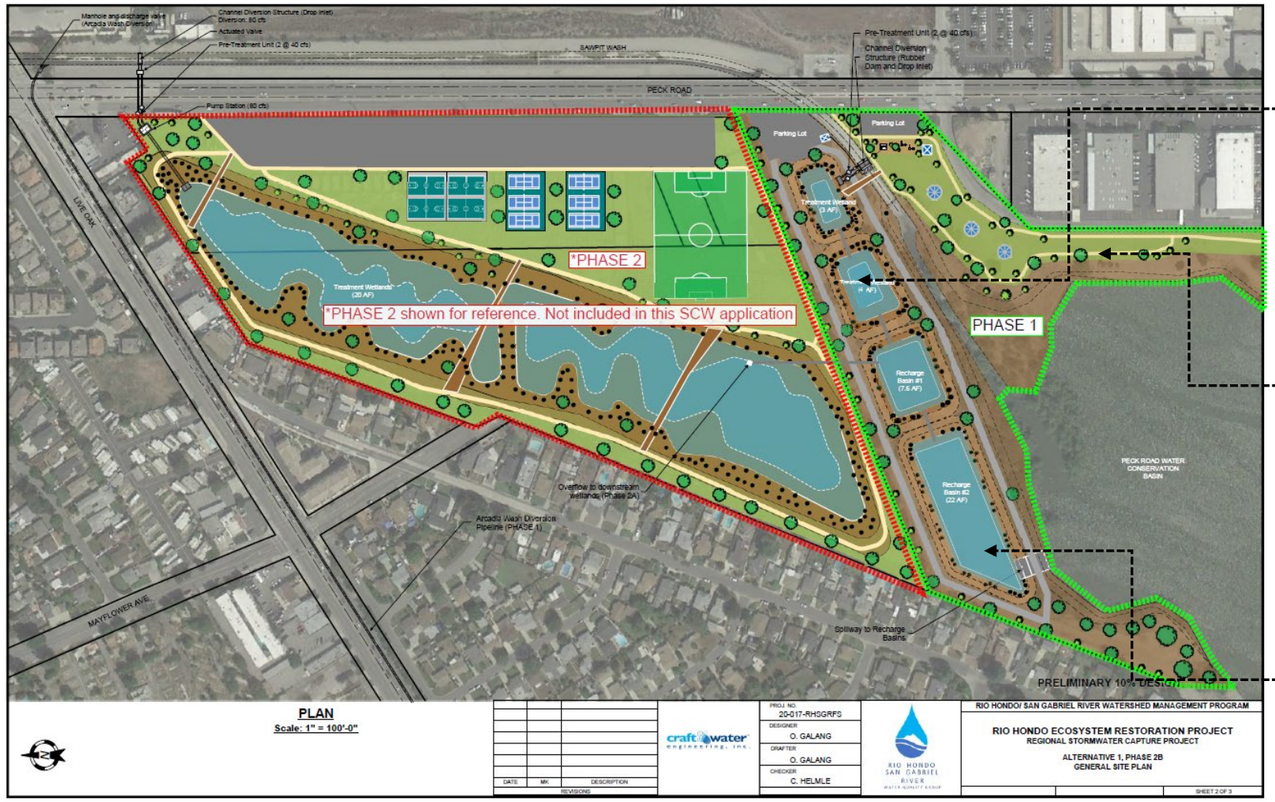
Project Benefits:

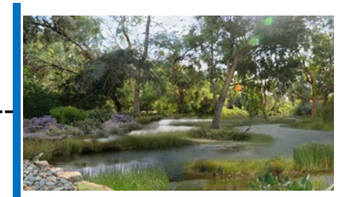
- **Water Quality** Improvement in the Sawpit Wash and Peck Road Park Lake by removing trash, metals, and nutrients in stormwater
- **Nature-Based** treatment wetlands and recharge basins with sustainable native landscaping and lake storage
- **Park recreational enhancements** with a wetland/habitat area and a lake restoration
- **Public Access to Waterways** with new public access to natural treatment wetlands and pedestrian pathways

RIO HONDO SAN GABRIEL RIVER WATER QUALITY GROUP

craftwater engineering, inc.

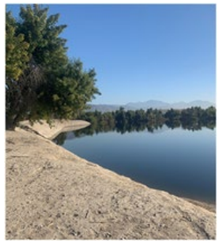
PROPOSED CONCEPTUAL SITE LAYOUT





Treatment Wetland

Public Access

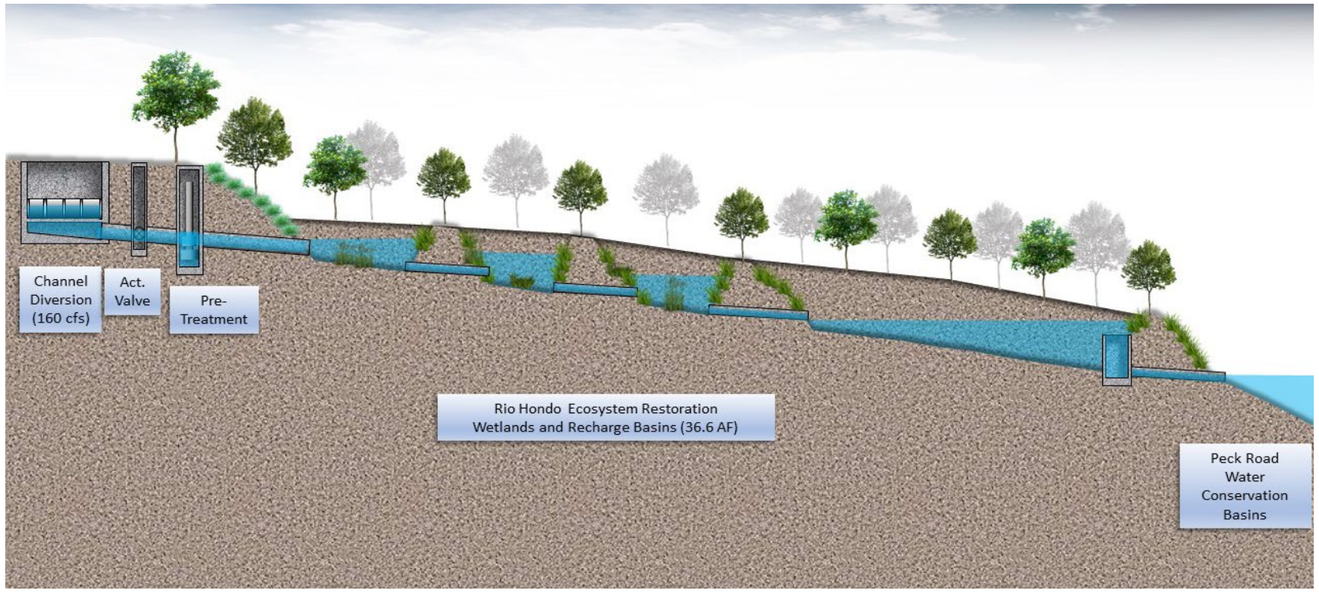


Groundwater Recharge Basins

PRELIMINARY SCW SCORING

SECTION	TOTAL COST
A.1 Wet Weather Water Quality Benefits • A.1.1 Water Quality Cost Effectiveness > 1.0 AF/$Million • A.1.2 Pollutant Reduction >50%	 20 20
B. Significant Water Supply Benefits • B1. Water Supply Cost Effectiveness • B2. Water Supply Benefit Magnitude	 10 12
C. Community Investment Benefits • Improved flood management • Creation/enhancement/restoration of parks • Improved public access to waterways • Enhanced/new recreational opportunities • Reducing local heat island effect • Increasing number of trees and/or vegetation	 5
D. Nature-Based Solutions	10
E. Leveraging Funds and Community Support • Strong local, community-based support	 4
TOTAL SCORE	**81**

TYPICAL CROSS SECTION



PROJECT CHARACTERISTICS

<u>Primary Pollutant</u> Zinc Reduction Achieved (% Zn reduction)	461 lb/yr (50.2%) PHASE 1 ONLY
<u>Secondary Pollutant</u> Copper Reduction Achieved (% Cu reduction)	124 lb/yr (54.4%) PHASE 1 ONLY
<u>Design Diversion Rate</u> Sawpit Wash – Phase 1 Sawpit Wash – Phase 2	 80 cfs 80 cfs
Storage Capacity for Natural Treatment Wetlands, Groundwater Recharge Basins, and Peck Road Park Basins	36.6 ac-ft (12 MG) 40.0 ac-ft (13 MG)
24-Hour Capacity	41.0 ac-ft PHASE 1 ONLY
Construction Cost Estimate	$8,390,625 PHASE 1 ONLY

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