AR-2 To Approve a Joint Exercise of Powers Agreement

May 3, 2022

Objective

- To approve a joint exercise of powers agreement among the cities of Arcadia, Bradbury, Duarte, Monrovia and Sierra Madre to create the Rio Hondo/San Gabriel River Watershed Management Joint Powers Authority.

Background

- In May 2013, the cities of Arcadia, Azusa, Bradbury, Duarte, Monrovia, Sierra Madre and County of Los Angeles and Los Angeles County Flood Control District enter into MOU for cost sharing of the development of the Enhanced Watershed Management Program and the Coordinated Integrated Monitoring Plan
- The EWMP was submitted in July 2014 and approved in April 2016.
- Original EWMP proposed 10 regional projects and 436 miles of green streets.
- In March 2018, the group submitted a revised Watershed Management Program which omitted the City of Azusa and proposed 5 regional projects.

JPA Discussion

- The formation of a joint powers authority is being recommended by the cities in order to help facilitate the implementation of the revised WMP (rWMP).
- A JPA is a new governmental organization created by the member agencies and is legally independent.
- The JPA is subject to the Ralph M. Brown Act and will hold open meetings; is subject to the Public Records Act and Political Reform Act.
- JPA's are able to hire staff, obtain financing, enter into contracts; acquire, construct, manage, maintain or operate buildings, structured or improved public property, apply for and receive grants, obtain insurance, prepare or oppose legislation, and conduct public outreach.
- The member agencies will act as the governing board to the JPA.

JPA Responsibilities

- The member agencies have identified the following WMP-related work to be carried out:
  - Public outreach and education regarding details of the MS4 permit, the requirements and costs of the WMP and the need for viable financing.
  - Working toward compliance with the approved WMP, including financing, land acquisition, project design, project construction, long-term project ownership, maintenance and management of improvements.
  - Advocacy for policy change to make the Clean Water Act, Porter Cologne Water Quality Act, MS4 permit and WMP requirements more viable and sustainable.

JPA Responsibilities

- The following outline the roles and responsibilities of the JPA:
  - The City Managers of each member agency shall serve as the governing Board
  - Determine general policy for the Authority
  - Act on behalf of all members in adopting strategies to pursue the purposes of the Authority
  - Approve an annual or bi-annual budget
  - Ensure that projects and programs that are undertaken are in the best interest of the residents and communities served by the Authority.

JPA Responsibilities Pt. 2

- The following outline the roles and responsibilities of the JPA:
  - Authorize expenditures of funds in accordance with the adopted budget and any purchasing procedures
  - Assess annual membership costs and project contributions based on the approved cost allocation formula.
  - Approve or deny applications from similarly situated local agencies for admission to the Authority
  - Adopt by-laws, rules and regulations governing operations of the Authority
  - Appoint ad hoc or standing committees of its members in uniformity with Ralph M. Brown Act

Schedule of City Council Approvals

- The cities of Arcadia, Bradbury, Duarte, Monrovia and Sierra Madre staff and city attorneys have reviewed the proposed joint exercise of powers agreement and have proposed the following schedule for City Council presentations and approvals:
  - City of Arcadia: May 17, 2022
  - City of Bradbury: Approved on April 19, 2022
  - City of Duarte: May 2022
  - City of Sierra Madre: May 10, 2022

Looking ahead

- The group is completing the 100% design plans for the Encanto Park Stormwater Capture Project and submitting CEQA documents to LA County Public Works for final Approval by Fall 2022.
- The Rio Hondo Ecosystem Restoration Project is scheduled to start initial design work by Fall 2022.
- Grant Application for Basin 3E by July 2023

Rio Hondo Ecosystem Restoration Project

PROPOSED CONCEPTUAL SITE LAYOUT


Treatment Wetland


Public Access


Groundwater Recharge Dry Wells

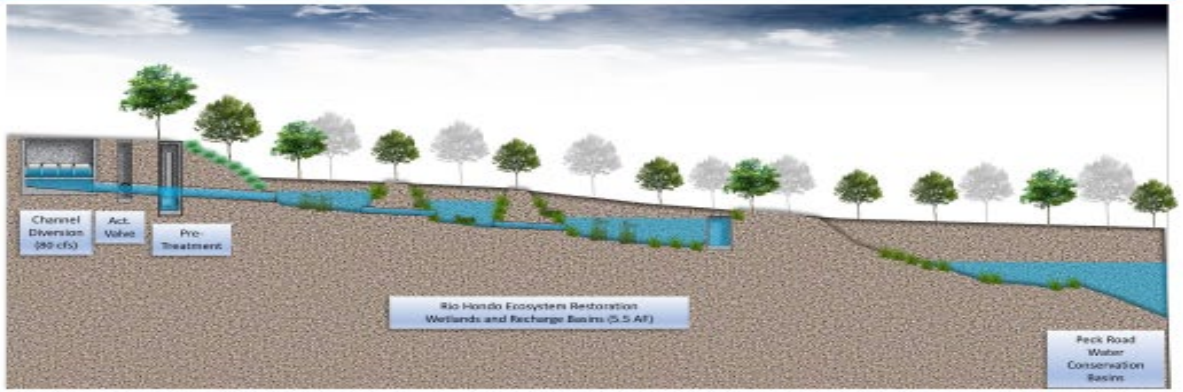
PRELIMINARY SCW SCORING*

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	 0 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	 10
D. Nature-Based Solutions	14
E. Leveraging Funds and Community Support • Strong local, community-based support	 4
TOTAL SCORE	80

RIO HONDO/SAN GABRIEL RIVER WATER QUALITY GROUP, CITY OF ARCADIA

RIO HONDO ECOSYSTEM RESTORATION STORMWATER CAPTURE PROJECT FACT SHEET

TYPICAL CROSS SECTION



PROJECT CHARACTERISTICS*

Primary Pollutant Zinc Reduction Achieved (% Zn reduction)	920 lb/yr (71.5%)
Secondary Pollutant Copper Reduction Achieved (% Cu reduction)	222 lb/yr (74.4%)
Design Diversion Rate Sawpit Wash	160 cfs
Storage Capacity for Natural Treatment Wetlands, Groundwater Recharge Basins, and Peck Road Park Basins	76.6 ac-ft (25 MG)
24-Hour Capacity	80.2 ac-ft
Construction Cost Estimate	$32,810,000+parcel

*Scoring and Characteristics are from the original SCW application and will be updated in design

Encanto Park Stormwater Capture Project

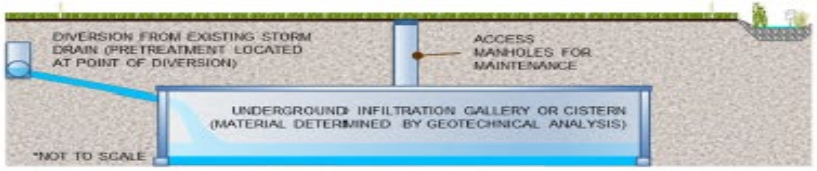
PROPOSED CONCEPTUAL SITE LAYOUT

PLANNING-LEVEL COST ESTIMATE

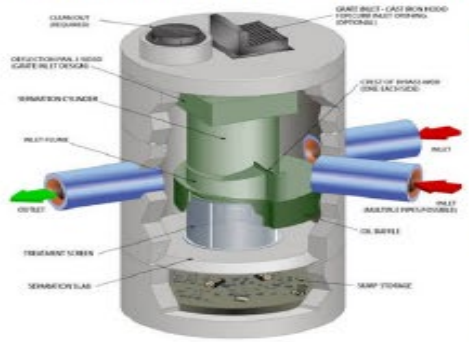
DESCRIPTION	TOTAL COST
Diversion, Pretreatment, and Conveyance	$252,125
Pump Station and Conveyance	$280,625
Storage and Treatment	$836,010
SUBTOTAL	$1,368,760
Mobilization/Demobilization (5% of Subtotal)	$68,438
Estimating Contingency (25% of Subtotal)	$342,190
TOTAL COST	$1,779,388

TYPICAL STORMTRAP SUBSURFACE SYSTEM

CONCEPTUAL CROSS SECTION



TYPICAL HYDRODYNAMIC SEPARATOR PRETREATMENT DEVICE (Source: Contech)



PROJECT CHARACTERISTICS

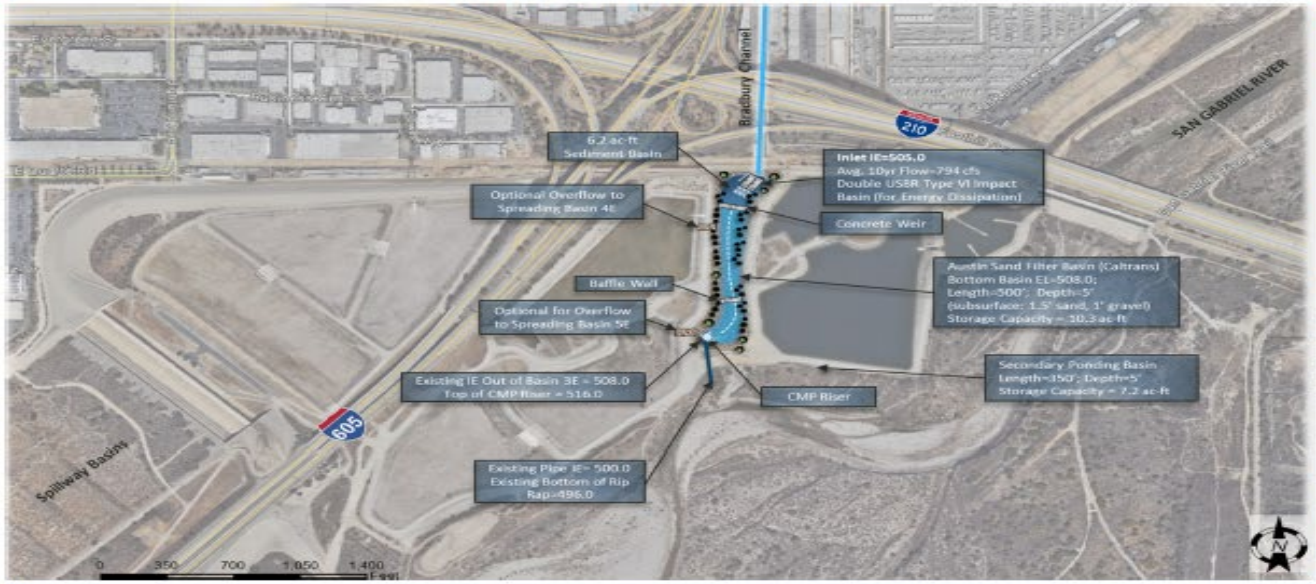
Zinc Reduction Achieved (Note: this project is nested; % Zn reduction contingent upon downstream project)	64.3 lb/yr (7.5%)
Design Diversion Rate (cfs)	3 cfs
Estimated Subsurface Storage Footprint (sq-ft)	11,250 sq-ft
Estimated Subsurface Storage Capacity (ac-ft)	1.3 ac-ft
Estimate Annual Groundwater Recharge (ac-ft/yr)	17.6 ac-ft/yr

CITY OF DURATE
ENCANTO PARK STORMWATER CAPTURE PROJECT

RIO HONDO SAN GABRIEL RIVER

Basin 3E

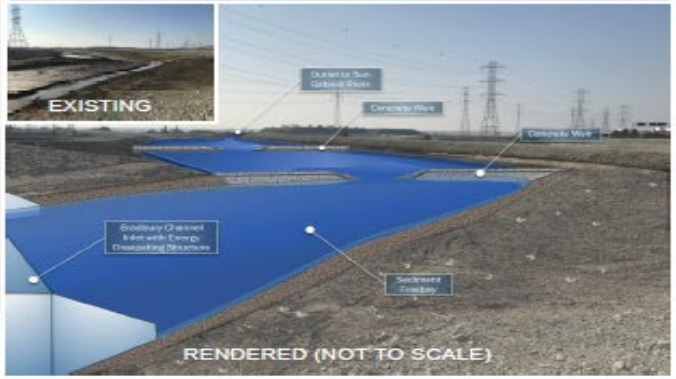
PROPOSED CONCEPTUAL SITE LAYOUT



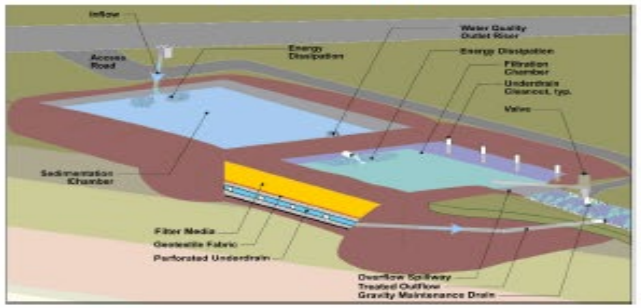
PLAN VIEW

PLANNING-LEVEL COST ESTIMATE

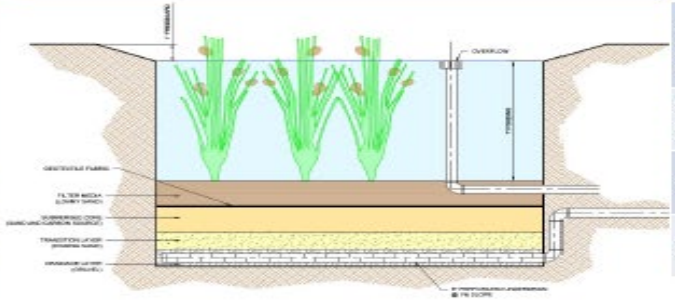
DESCRIPTION	TOTAL COST
Bradbury Channel, Pretreatment, and Conveyance	$547,700
Storage and Treatment	$1,051,314
SUBTOTAL	$1,599,014
Mobilization/Demobilization (5% of Subtotal)	$79,951
Estimating Contingency (25% of Subtotal)	$399,754
TOTAL COST	$2,078,718



ISOMETRIC VIEW OF CALTRANS AUSTIN SAND FILTER BASIN
(Source: Caltrans DOT)



TREATMENT SECTION



PROJECT CHARACTERISTICS

Zinc Reduction Achieved (Note: this project is nested; % Zn reduction contingent upon downstream project)	64.3 lb/yr (7.5%)
Design Sand Depth Design Gravel Layer Depth	1.5' 1'
Estimated Storage Capacity for Basin	11.4 ac-ft
Estimate Annual Groundwater Recharge	337 ac-ft/yr

CITY OF BRADBURY, CITY OF DUARTE, AND THE COUNTY OF LOS ANGELES

BASIN 3E ENHANCEMENTS AT SANTA FE SPREADING GROUNDS PROJECT

RIO HONDO SAN GABRIEL RIVER

Arcadia Regional Park

Questions?