

April 2026

# Chino Basin Watermaster Engineering Services *for Fiscal Year 2026/27*

PREPARED FOR

Chino Basin Watermaster



PREPARED BY



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# Chino Basin Watermaster Engineering Services

## *Fiscal Year 2026/27*

### EXECUTIVE SUMMARY

This document summarizes a proposed scope-of-work and cost estimate for Watermaster Engineering Services in fiscal year (FY) 2026/27. For each engineering task in this summary, the following information is provided:

- **Cost Estimate.** This is the estimated cost to complete the task in FY 2026/27, which includes all costs for Watermaster Engineer labor, equipment rentals, laboratory analyses, travel, other subcontractors, etc. Subcontractor costs are passed through with no additional “markup.” The cost estimates include costs that will be covered by cost sharing partners (e.g., IEUA) and/or carryover budget from the prior FY. Hence, the cost to the Watermaster Parties in 2026/27 will be less than the costs stated herein for those tasks with cost share and/or carryover funding.
- **Rationale.** This is a description of why the task is being proposed for FY 2026/27, including references to associated regulatory requirements, Court Orders, CEQA requirements, or agreements.
- **Scope.** This is a summary description of the scope of work required to complete the task.
- **Deliverables.** This is a summary of the task deliverables.

This summary is accompanied by four tables that describe the cost estimates in more detail and compare the cost estimates to the prior year Watermaster budget:

- **Table 1.** This is a detailed line-item cost estimate for each proposed task. It includes totals for the following:
  - **Total Engineering Cost Estimate.** The total cost to complete the task in 2026/27, including Watermaster Engineer labor, equipment rentals, laboratory analyses, travel, other subcontractors, etc.
  - **IEUA Cost Share.** The amount of Total Engineering Cost Estimate covered by IEUA under cost sharing agreements.
  - **Watermaster Engineering Cost Estimate.** The Total Engineering Cost Estimate minus the IEUA Cost Share.
  - **Expected Watermaster Carryover.** The estimated amount of unspent approved budget for work planned for FY 2025/26 that is now expected to be performed in FY 2026/27.<sup>1</sup>
  - **Proposed Watermaster Budget for Engineering Services 2026/27.** The Watermaster Engineering Cost Estimate minus Expected Carryover. This is the estimated costs that would be assessed to the Watermaster parties for 2026/27.
- **Table 2.** This table compares the Watermaster Engineering Cost Estimates for FY 2026/27 versus 2025/26.
- **Table 3.** This table explains the variances between the Watermaster Engineering Cost Estimates for FY 2026/27 versus 2025/26 for the tasks with variances greater than \$15,000.

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<sup>1</sup> The expected Watermaster carryover does not include the portion of carryover that IEUA would be responsible for in a cost-share; for cost-share projects that assume carryover, IEUA’s portion of carryover is included in the “IEUA Cost Share” column.



- **Table 4.** This table breaks down the Total Engineering Cost Estimate into the various expense categories of labor and other direct costs.

The total proposed cost estimate for engineering services in FY 2026/27 is \$3,513,272. Cost sharing contributions by IEUA (~\$201,975) reduces the estimated costs for Watermaster engineering services to \$3,272,047, which is about \$171,357 less than the Watermaster engineering costs for FY 2025/26. Currently, it is estimated that about \$39,250 of the Watermaster engineering costs will be funded via carryover funds from the FY 2025/26 budget.

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**8306, 8506, 8406, 6206, 6306 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**  
**Pool, Advisory, Watermaster Meetings**

	Cost Estimate
Consultant Labor	\$114,448
Other Direct Costs	\$2,387
<b>Total</b>	<b>\$116,835</b>

**Rationale**

The Watermaster General Manager and/or the Watermaster Board may direct West Yost to prepare for and attend the following meetings:

- Watermaster Pool meetings (Appropriative, Agricultural, and Overlying Non-Agricultural)
- Watermaster Advisory Committee meetings
- Watermaster Board meetings

Watermaster meetings are assumed to occur in all months except August and December.

**Scope of Work**

For each meeting, West Yost will prepare engineering updates with supporting maps, charts, tables, handouts, and PowerPoint presentations, as appropriate. West Yost shall also participate in conference calls with Watermaster’s General Manager and staff to prepare for the meetings and may be asked by Watermaster staff to help prepare staff reports for business items.

**Deliverables**

West Yost will deliver the following to Watermaster:

- Maps, charts, tables, handouts, and PowerPoint presentations prepared by West Yost for the meetings.
- Other as-requested deliverables.



## **6901.8, 5901.8 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

### **Other General Meetings as Requested**

	Cost Estimate
Consultant Labor	\$78,416
Other Direct Costs	\$1,909
<b>Total</b>	<b>\$80,325</b>

### **Rationale**

The Watermaster General Manager and/or the Watermaster Board may direct West Yost to prepare for and attend the following meetings:

- Other general meetings as requested by Watermaster’s General Manager or Board.
- Coordination conference calls with Watermaster’s General Manager and staff.

Work on this task will be performed only upon request by Watermaster’s General Manager or the Board.

### **Scope of Work**

For each meeting, West Yost will prepare supporting maps, charts, tables, handouts, and PowerPoint presentations, as appropriate, and may participate in conference calls to coordinate with Watermaster staff prior to or following the meetings.

### **Deliverables**

West Yost will deliver the following to Watermaster:

- Maps, charts, tables, handouts, and PowerPoint presentations prepared by West Yost for the meetings.
- Other as-requested deliverables.



**5935 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**Material Physical Injury Requests, Others**

	Cost Estimate
Consultant Labor	\$36,096
Other Direct Costs	\$0
<b>Total</b>	<b>\$36,096</b>

**Rationale**

At the direction of the Watermaster General Manager, West Yost will conduct a material physical injury analysis for each transfer application, storage application, and recharge application, or as otherwise directed by Watermaster and pursuant to the Peace Agreement and the Rules and Regulations. Specifically, Article 10 of the Watermaster Rules and Regulations (paragraph 10.10) requires that:

*“[...] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster’s scheduled consideration and possible action on any pending Applications.”*

Per the Peace Agreement (page 8), material physical injury is defined as:

*“[...] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land subsidence, increases in pump lift and adverse impacts associated with rising groundwater.”*

**Scope of Work**

This task provides engineering services to assist Watermaster staff in the evaluation of transfer, storage, and recharge applications. Occasionally, Watermaster staff requires engineering services in the evaluation of such transfers. Material physical injury analyses anticipated the fiscal year will cover water transfers among the parties, recharge applications, and storage application, as directed by Watermaster.

**Deliverables**

The deliverables for this work will be defined by specific Watermaster direction for projects requiring MPI analyses.



**5906.71 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**Miscellaneous General Manager and Data Requests – from Watermaster Staff**

	Cost Estimate
Consultant Labor	\$112,352
Other Direct Costs	\$300
<b>Total</b>	<b>\$112,652</b>

**Rationale**

The Watermaster General Manager and/or Watermaster staff may direct West Yost to perform specific technical analyses and/or respond to miscellaneous data requests related to Chino Basin optimum management. The recommended budget estimate is based on prior years' experience.

**Scope of Work**

West Yost shall perform the following tasks:

- Perform ad hoc analyses and review of documents requested by the Watermaster General Manager and/or Watermaster staff.
- Fulfill requests from the Watermaster General Manager and/or Watermaster staff, including the preparation of PowerPoint presentations, maps, charts, and technical reports.
- Fulfill requests for hydrologic data, model files, model analyses, PowerPoint presentations, maps, charts, technical reports, etc., as requested by Watermaster staff.

**Deliverables**

West Yost shall deliver to Watermaster data-request deliverables as well as PowerPoint presentations, maps, charts, and technical reports, as requested.



**5906.72 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**Miscellaneous Data Requests – from Non-Watermaster Staff, Watermaster Parties, and Non-Watermaster Entities**

	Cost Estimate
Consultant Labor	\$58,316
Other Direct Costs	<u>\$0</u>
<b>Total</b>	<b>\$58,316</b>

**Rationale**

The Watermaster General Manager and/or Watermaster staff may direct West Yost to perform specific technical analyses and/or respond to miscellaneous data requests from Watermaster parties, non-Watermaster staff, and non-Watermaster entities. The recommended budget estimate is based on prior years’ experience.

**Scope of Work**

West Yost shall perform the following tasks:

- Perform ad hoc analyses requested by Watermaster parties, non-Watermaster staff, and non-Watermaster entities, as directed by the Watermaster General Manager and/or Watermaster staff.
- Fulfill requests for hydrologic data, model files, model analyses, PowerPoint presentations, maps, charts, technical reports, etc. requested by Watermaster parties, non-Watermaster staff, or non-Watermaster entities, as directed by Watermaster staff.

**Deliverables**

West Yost shall deliver to Watermaster the data-request deliverables as well as PowerPoint presentations, maps, charts, and technical reports, as requested by the Watermaster General Manager and/or Watermaster staff.



## 6901.95 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING

### SGMA Reporting Requirement for April 1, 2027 WC Section 10720.8 (f).

	Cost Estimate
Consultant Labor	\$24,858
Other Direct Costs	\$0
<b>Total</b>	<b>\$24,858</b>

### Rationale

The Sustainable Groundwater Management Act (SGMA) has a requirement that the Watermaster or a local agency of an adjudicated basin identified in WC Section 10720.8(a) submit specific data, information, and reports for the previous water year annually to the California Department of Water Resources (DWR) by April 1 of each year. Pursuant to SGMA WC Section 10720.8(f), Watermaster is required to submit:

- (A) Groundwater elevation data unless otherwise submitted pursuant to WC Section 10932
- (B) Annual aggregated data identifying groundwater extraction
- (C) Surface water supply used for or available for use for groundwater recharge or in-lieu use
- (D) Total water use
- (E) Change in groundwater storage
- (F) The annual report submitted to the court

### Scope of Work

The reporting period is water year 2025/26. Item (A) has already been submitted for the California Statewide Groundwater Elevation Monitoring (CASGEM) Program, so no further data will be reported pursuant to the SGMA. Items (B) through (D) and (F) will be compiled from the appropriators, the IEUA, and Watermaster. Item (E) is a result from the Chino Basin groundwater model that will be updated with data through September 30, 2026. The change in storage will be estimated from the resulting water budget table for water year 2025/26.

The DWR has implemented an Adjudicated Basin Annual Reporting System, which is an on-line submission system that consists of specialized reporting templates for entering all the required information and provides the capability to upload supporting documents and reports. A Technical Memorandum will be prepared for Watermaster, explicitly documenting the information for Items (A) through (F) that will be populated into the reporting templates for the April 1 submittal.

### Deliverables

West Yost shall deliver the following to Watermaster:

- A draft memorandum that documents the information submitted to the DWR Adjudicated Basin Annual Reporting System.
- The draft Memorandum will be submitted to Watermaster in February 2027 for Watermaster review and comment.
- The final Memorandum will be submitted to Watermaster by March 4, 2027 for review and approval by the Watermaster Pools, Advisory Committee, and Board.
- The required information and documents will be submitted to the DWR using the Adjudicated Basin Annual Reporting System by April 1, 2027.



**6906 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**Project Management**

	Cost Estimate
Consultant Labor	\$67,966
Other Direct Costs	<u>\$0</u>
<b>Total</b>	<b>\$67,966</b>

**Rationale**

This task is for routine project management and the preparation of quarterly estimated-cost-at-completion reports.

**Scope of Work**

West Yost shall perform routine project management services, including:

- Set up and update the Integrated Schedule Budget Management (ISBM) system.
- Prepare, execute, and set up accounting for supplemental notice to proceeds and budget authorizations
- Analyze staffing requirements and make assignments for various tasks.
- Review the schedules of deliverables.
- Prepare monthly budget summary tables.
- Prepare the Estimated Cost at Completion (ECAC) and Earned Value (EV) estimates.
- Prepare quarterly progress reports on progress, schedule, and ECAC for Watermaster staff
- Attend joint Watermaster/West Yost senior staff meetings.
- Attend Watermaster budget workshops.

**Deliverables**

West Yost shall deliver the following to Watermaster:

- Quarterly summary of costs to date, ECACs, and estimates of progress on a task-by-task basis.
- Monthly budget summary tables.



**6906.1 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**Watermaster Model Update and Required Demonstrations**

	<b>Task 1</b>	<b>Task 2</b>	<b>Total</b>
Consultant Labor	\$78,388	\$10,000	\$88,388
Other Direct Costs	\$0	\$0	\$0
<b>Total</b>	<b>\$78,388</b>	<b>\$10,000</b>	<b>\$88,388</b>

**Rationale**

Watermaster updated its groundwater models in 2007, 2013, 2020, and 2025. Watermaster applies its groundwater model to estimate net recharge and Safe Yield, to assess the state of hydraulic control, to assist with SGMA compliance, to conduct material physical injury assessments, to assist in the development of a storage framework and Storage Management Plan, and to support the development of TDS and nitrate concentration changes in the basin.

Activities historically performed in this task have included: the assessment of the adequacy of supplemental water recharge capacity pursuant to Section 7.3 of the Peace II Agreement; the evaluation of the balance of recharge and discharge; and the evaluation of the cumulative effects of transfers. Each year since 2012, a technical assessment of the adequacy of supplemental water recharge capacity was completed and reported to the Watermaster pursuant to Section 7.3 of the Peace II Agreement.

The evaluation of the balance of recharge and discharge and the cumulative effects of transfers was initiated in FY 2025/26 and will be completed in FY 2026/27 following the completion of the groundwater model update in summer 2026 (the 2025 Safe Yield Reevaluation). This effort will include the evaluation of the adequacy of the 6,500 afy supplemental water recharge requirement pursuant to Section 8.4(e) of the Peace II Agreement.

The work anticipated for this line item in FY 2026/27 includes the evaluation of the balance of recharge and discharge and the cumulative effect of transfers and the preparation of annual finding of compliance with Section 7.3 of the Peace II Agreement.

**Scope of Work**

The consultant shall perform the following tasks:

- **Task 1 – Evaluate the Balance of Recharge and Discharge and the Cumulative Effects of Transfers**
  - Task 1.1—Collect, Compile, and Review Data to Update Historical Hydrology and Prepare Annual Estimate of Balance of Recharge and Discharge. The evaluation of the balance of recharge and discharge is a retrospective analysis of the water budgets in each of the five OBMP management zones (MZs) from the period of July 1, 2020 through June 30, 2026. The consultant will collect and/or compile the necessary data to replace the projection data in the 2025 Chino Valley Model (CVM) for this period, including hydrologic data, pumping data, and recharge data.
  - Task 1.2—Evaluate the Minimum Recharge Quantity in MZ-1. This task will include preparing and running an alternative scenario of the historical model (Task 1.1) to simulate the impact of varying supplemental water recharge in MZ-1. The alternative scenario will be compared to the historical model, and the results will be compared to evaluate whether the minimum recharge quantity in MZ-1 should be greater than 6,500 acre-feet per year. The scope of this task will be precisely defined by the end of FY 2025/26.



- Task 1.3—Compile the Historical Transfers in the Chino Basin and Determine the Annual Avoided Wet-Water Replenishment. The consultant will use the Watermaster Assessment Packages to calculate the avoided wet-water replenishment by Party by year.
- Task 1.4—Evaluate Basin Response to the Water Replenishment That Would Have Occurred in the Absence of Transfers. In this task, the consultant will create a new scenario that will be identical to the calibration run of the 2025 CVM, with imported water recharge increased to the volume that would have occurred in the absence of transfers for the period of July 1, 2000 through June 30, 2026. This scenario will be simulated and compared to the 2025 CVM calibration run (extended through June 30, 2026 in Task 1.1) and to determine the cumulative effect of transfers on the basin.
- Task 1.5—Prepare Report. In this task, the consultant will document the work in Tasks 1.1 through 1.4.
- **Task 2 Prepare Finding of Substantial Compliance.** The work required for this task includes review and update of planning information, testing the adequacy of existing wet-water recharge capacity to meet future wet-water replenishment obligations, and preparation of a technical memorandum to document substantial compliance as required by Section 7.3 of the Peace II Agreement.

## **Deliverables**

For Task 1, West Yost will prepare a report for Watermaster documenting the evaluation of the balance of recharge and discharge, the minimum recharge quantity in MZ-1, and the cumulative effects of transfers.

For Task 2, West Yost will deliver a technical memorandum to Watermaster documenting the annual finding of substantial compliance.



## **5945 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

### **Assist Watermaster in Preparing the 49th Annual Report**

	Cost Estimate
Consultant Labor	\$18,334
Other Direct Costs	\$0
<b>Total</b>	<b>\$18,334</b>

#### **Rationale**

This work is required by the Chino Basin Judgment and the Sustainable Groundwater Management Act.

#### **Scope of Work**

This task includes support services to assist Watermaster staff in the preparation of the Watermaster's 49<sup>th</sup> Annual Report documenting Watermaster's activities and water accounting for FY 2025/26. West Yost will work closely with Watermaster staff and their contractor Martin Rauch to provide as-requested support to collect data and prepare content for the Annual Report.

#### **Deliverables**

West Yost's deliverables and associated schedule will be defined by Watermaster upon project kick-off in July 2026.



**6906.21 – OBMP/JUDGMENT ADMIN GENERAL ENGINEERING**

**2026 State of the Basin Report**

	Cost Estimate
Consultant Labor	\$169,740
Other Direct Costs	<u>\$0</u>
<b>Total</b>	<b><u>\$169,740</u></b>

**Rationale**

Pursuant to the November 15, 2001 Court Order, Watermaster prepares a State of the Basin report every two years. The State of the Basin reports are used to document how the state of the basin has changed since the implementation of the Peace Agreement in September 2000. The scope of the report includes a characterization of the time histories of groundwater levels and quality, storage, production, recharge (replenishment and other recharge), ground level, state of hydraulic control, desalter planning and engineering, and production meter installation.

**Scope of Work**

The consultant shall perform the following tasks:

- Compile and analyze production data for FY 2024/25 and FY 2025/26 and prepare exhibits showing production activities by pool and historical trends in production.
- Compile and analyze recharge and recycled water reuse data for FY 2024/25 and FY 2025/26 and prepare exhibits showing groundwater recharge trends.
- Compile and analyze surface water, climate, and land use data and prepare exhibits that show general hydraulic conditions and storage in the Basin.
- Analyze basin-wide water quality and prepare maps that show five-year maximum concentrations for constituents of concern, and historical trends in TDS and nitrate by management zone.
- Prepare rasters depicting the current extent of the VOC plumes.
- Analyze basin-wide groundwater levels and prepare that show historical trends in groundwater levels by management zone with production and recharge trends.
- Create groundwater elevation contours for spring 2026 for the entire basin and the HCMP area.
- Perform raster calculations and comparisons of groundwater-elevation changes that occurred between spring 2000 and spring 2026.
- Compile and analyze ground-level monitoring data for 2021 through 2026 and prepare exhibits showing trends in vertical ground motion in MZ1 and MZ2, and time histories of groundwater pumping, aquifer recharge, groundwater levels, and ground motion in these areas.
- Prepare text to describe analysis of hydrology, storage, production, recharge, groundwater levels, and groundwater quality
- Update ArcGIS Story Map graphics and text.



## **Deliverables**

The West Yost will deliver an updated web-based online interactive State of the Basin Report in ArcGIS StoryMaps. A draft online version will first go to Watermaster staff for review. A final version will be published on Watermaster’s website. A digital export of the State of the Basin in a pdf format will be prepared for filing for the court.

The ArcGIS Online State of the Basin is a new format developed for the 2024 State of the Basin effort. Preparing the 2026 State of the Basin in this online format will result in cost savings because the foundational structure and workflows have already been established, and the effort is less intensive than producing a traditional report.

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**7502, 7505 – PE1: COMPREHENSIVE MONITORING PROGRAM**

**Groundwater and Surface Water Quality Monitoring Program**

	Cost Estimate
Consultant Labor	\$222,534
Other Direct Costs	<u>\$51,500</u>
<b>Total</b>	<b><u>\$274,034</u></b>

**Rationale**

The OBMP, Peace Agreements, and Implementation Plan all call for a key-well monitoring program for groundwater quality as part of Program Element 1.<sup>2</sup> The data generated in Program Element 1 are used for the Biennial State of the Basin Report, the Groundwater Model update and calibration, material physical injury assessments, the evaluation of non-point source groundwater contamination and plumes associated with point-source discharge, Hydraulic Control demonstrations, the Triennial Ambient Water Quality Recomputation<sup>3</sup>, and evaluation of groundwater/surface water interaction near riparian habitat in the Prado Basin. The groundwater-quality and surface water monitoring programs, as currently implemented, meet the minimum requirements for all the above uses.

The Hydraulic Control Monitoring Program (HCMP)<sup>4</sup> and the Prado Basin Habitat Sustainability Program (PBHSP)<sup>5</sup> are regulatory monitoring programs with groundwater and surface water monitoring components. Data collected for the HCMP and PBHSP are also used for all other basin-wide uses.<sup>6</sup>

**Scope of Work**

West Yost shall perform the following tasks:

- Assist Watermaster staff in conducting annual sampling at approximately 28 private wells and 11 monitoring wells between July and October 2026. Samples are sent to Clinical Laboratories for analysis. Sub-tasks include:
  - Annual re-evaluation of wells to sample for the key-well monitoring program.

<sup>2</sup> OBMP Program Element 1—*Develop and Implement Comprehensive Monitoring Program.*

<sup>3</sup> The Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are salt-management requirements of the Basin Plan: [http://www.swrcb.ca.gov/santaana/water\\_issues/programs/basin\\_plan/docs/chapter5.pdf](http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf)

<sup>4</sup> The HCMP surface water and groundwater monitoring programs are maximum-benefit requirements are salt-management requirements of the Basin Plan: [http://www.swrcb.ca.gov/santaana/water\\_issues/programs/basin\\_plan/docs/chapter5.pdf](http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf) and are more specifically described in 2014 HCMP Work Plan.

<sup>5</sup> Pursuant to Mitigation Measure 4.4-3 in the Peace II CEQA SEIR, the PBHSP adaptive monitoring program includes groundwater and surface water monitoring components to ensure that Peace II Agreement activities to not adversely impact Prado Basin riparian habitat. The PBHSP is an adaptive monitoring program that is implemented under the guidance of the Prado Basin Habitat Sustainability Committee (PBHSC) with an annual process of evaluating results and interpretations of the monitoring data and adjusting the monitoring as needed. In FY 2024/25 the proposed PBHSP groundwater and surface water monitoring includes utilization of 15-minute temperature and specific conductance (EC) data measured in the transducers at the PBHSP monitoring wells, and the collection of field water quality parameters quarterly at four surface water sites along Mill and Chino Creeks. For efficiency, the work to download, process, and upload the 15-minute temperature and EC data at the wells is included with the PBHSP transducers in the Groundwater Level Monitoring Program 7104.3.

<sup>6</sup> Watermaster’s groundwater quality monitoring program includes annual sampling at the 21 HCMP monitoring wells and triennial monitoring at the 17 PBHSP wells as part of the basin-wide monitoring program to be used for Watermaster’s various purposes and characterization of water quality.



- Perform field work to sample a portion of the wells on an as-needed basis.<sup>7</sup>
- Process, perform quality assurance/quality control (QA/QC), review all field and laboratory data, and upload to HydroDaVE.
- Coordinate and perform field oversight for well rehabilitation, well maintenance, and monitoring support on an as-needed basis.
- Obtain groundwater-quality and surface water-quality data routinely for about 1,100 wells and 50 surface water sites and from all appropriators and cooperators in and immediately adjacent to the Chino Basin. This includes collecting data from about 30 open investigation clean-up sites in the Chino Basin with data available on the GeoTracker<sup>8</sup> and EnviroStor<sup>9</sup> websites and checking for any new sites on GeoTracker and EnviroStor with confirmed or potential impacts to groundwater quality. All data collected are checked for reasonableness and compiled into HydroDaVE's centralized database. Subtasks include:
  - Place phone calls, send emails, and attend meetings with the water quality staff of appropriators and other cooperating parties.
  - Collect, process, review, and upload hardcopy, spreadsheet, database, and laboratory electronic data deliverables to HydroDaVE.
- Obtain groundwater and surface water quality data for the HCMP. West Yost shall perform the following tasks:
  - Collect and analyze annual groundwater-quality samples from the 21 HCMP monitoring wells, and quarterly groundwater-quality samples from the two USGS National Water-Quality Assessment Program (NAWQA) and two Santa Ana River Water Company (SARWC) wells. Samples are sent to Clinical Laboratories for analysis. Subtasks include:
    - Schedule field work and coordinate with analytical laboratory.
    - Perform field work. Field work follows the SOPs defined in the 2014 HCMP Work Plan.
    - Process, QA/QC, and upload field and laboratory data to HydroDaVE.
  - Collect and analyze quarterly surface-water quality grab samples at two specified surface-water stations on the Santa Ana River. Samples are sent to Clinical Laboratories for analysis. Subtasks include:
    - Schedule field work and coordinate with analytical laboratory.
    - Perform field work. Field work follows the SOPs defined in the 2014 HCMP Work Plan.
    - Process, QA/QC, and upload field and laboratory data to HydroDaVE.
- Collect, compile, review, and upload the following surface water data to HydroDaVE twice per year:
  - Daily discharge data from POTW discharge locations upstream of Prado Dam.

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<sup>7</sup> An as-needed field budget is provided in the event that Watermaster staff needs assistance in completing the water quality sampling program during the target monitoring period of July 2026 through October 2026. The field work will be performed on an as-needed basis, as directed by Watermaster staff.

<sup>8</sup> <http://geotracker.waterboards.ca.gov/>

<sup>9</sup> <http://www.envirostor.dtsc.ca.gov/public/>



- Surface water discharge at six USGS gaging stations along the Santa Ana River and tributaries upstream of Prado Dam.
- Collect, review, and upload quarterly surface water quality field parameters for four surface water sites on Chino Creek and Mill Creek for the PBHSP:
  - Perform field work.
  - Process, QA/QC, and upload field data to HydroDaVE.

## **Deliverables**

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All groundwater-quality data from the key well sampling program will be uploaded to HydroDaVE by December 31, 2026.
- All available groundwater-quality data collected from Chino Basin appropriators and cooperators for the January 1, 2026 to June 30, 2026 period will be uploaded to HydroDaVE by October 31, 2026.
- All available groundwater-quality data collected from Chino Basin appropriators and cooperators for the July 1, 2026 to December 31, 2026 period will be uploaded to HydroDaVE by April 30, 2027.
- All annual groundwater-quality data collected at the 21 HCMP monitoring wells, during August 2026 will be uploaded to HydroDaVE by September 30, 2026.
- All quarterly groundwater-quality data collected at the two NAWQA and two SARWC wells during July 2026, October 2026, January 2027, and April 2027, will be uploaded to HydroDaVE by August 31, 2026, November 30, 2026, February 28, 2027, and May 31, 2027, respectively.
- All quarterly surface water-quality data collected at the two Santa Ana River sites and surface water quality field parameters collected at four Chino Creek and Mill Creek sites during July 2026, October 2026, January 2027, and April 2027, will be uploaded to HydroDaVE by August 31, 2026, November 30, 2026, February 28, 2027, and May 31, 2027, respectively.
- All POTW surface water quality and discharge data for POTWs, and discharge data for the USGS gaging stations for January 2026 through September 2026 will be uploaded to HydroDaVE by November 30, 2026, and for October 2026 through December 2026 will be uploaded to HydroDaVE by February 28, 2027.



**7104.3, 7104.8, 7104.9 – PE1: COMPREHENSIVE MONITORING PROGRAM**

**Groundwater-Level Monitoring Program**

	Cost Estimate
Consultant Labor	\$299,364
Other Direct Costs	\$60,185
<b>Total</b>	<b>\$359,549</b>

**Rationale**

The OBMP, the Peace Agreements, and the Implementation Plan all call for a key well monitoring program for groundwater levels as part of Program Element 1. The data generated in Program Element 1 are used for the Biennial State of the Basin Report, Hydraulic Control demonstrations, land-subsidence monitoring, Groundwater Model development and recalibration, material physical injury assessments, the periodic assessment of Safe Yield, the estimation of storage change, evaluating the impacts of desalter production on nearby private wells, the California Statewide Groundwater Elevation Monitoring (CASGEM) Program,<sup>10</sup> the Triennial Ambient Water Quality Recomputation, and the monitoring of water levels near riparian habitat in Prado Basin to evaluate potential impacts from Peace II Agreement activities.<sup>11</sup> Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are required by the Basin Plan.<sup>12</sup> The groundwater-level monitoring program, as currently implemented, meets the minimum requirements for all the above uses.

**Scope of Work**

West Yost shall perform the following tasks:

- Collect and compile groundwater-level measurements from about 1,200 wells. Of the 1,200 wells, about 140 wells are equipped with transducers that measure water levels every 15-minutes that are visited and downloaded quarterly by West Yost and Watermaster field staff. At about 50 wells, groundwater-level measurements are measured by Watermaster staff monthly. At about 1,000 wells in and immediately adjacent to the Chino Basin, groundwater-level measurements are measured by appropriators and cooperators, and the data are collected by West Yost or are provided to West Yost from the Watermaster. All data are checked for reasonableness regarding historical data at the well, converted from depth-to-water to groundwater-level elevation, and compiled into the centralized HydroDaVE database. Sub-tasks include:
  - Schedule field work for West Yost field staff.

<sup>10</sup> The California Department of Water Resources (DWR) developed the CASGEM Program in accordance with California State Senate Bill SB 6, which was passed in November 2009. CASGEM is a comprehensive groundwater-elevation monitoring program that utilizes locally implemented monitoring programs to track seasonal and long-term groundwater elevations in the state’s alluvial groundwater basins and subbasins, as defined in DWR Bulletin 118. Pursuant to California Water Code Section 10927, Watermaster is the monitoring entity for the Chino and Cucamonga Groundwater Subbasins.

<sup>11</sup> Pursuant to Mitigation Measure 4.4-3 in the Peace II CEQA SEIR, monitoring described in the Adaptive Management Plan for the PBHSP is implemented to ensure that Peace II Agreement activities to not adversely impact Prado Basin riparian habitat.

<sup>12</sup> The Hydraulic Control demonstrations and the Triennial Ambient Water Quality Recomputation are salt-management requirements of the Basin Plan: [http://www.swrcb.ca.gov/santaana/water\\_issues/programs/basin\\_plan/docs/chapter5.pdf](http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf)



- Perform field work to download and maintain approximately 100 transducers for various monitoring wells in Watermaster’s monitoring network. (Field work follows the Standard Operating Procedures [SOPs] defined in the 2014 HCMP Work Plan.)
- Purchase and install replacement transducers and direct-read cables as needed for all wells in the transducer monitoring programs.
- Perform field work on an as-needed basis<sup>13</sup> to download transducer data from 30 wells routinely downloaded by Watermaster staff.
- Review and upload manual groundwater-level measurements collected by Watermaster staff monthly to HydroDaVE.
- Process, review, and upload transducer data downloaded quarterly by West Yost staff into HydroDaVE.
- Process, review, and upload cooperator groundwater-level measurements collected by West Yost to HydroDaVE.
- Review and upload transducer data downloaded quarterly by Watermaster staff, and Appropriative pool water-level measurements collected by Watermaster staff to HydroDaVE.
- Annually reevaluate the key well program due to abandoned and destroyed wells.
- Submit groundwater-level data collected at 46 wells to the Chino and Cucamonga CASGEM program<sup>14</sup> on a biennial basis (fall and spring).
- Help coordinate and contract subcontractors for as-needed well maintenance and rehabilitation services for wells in the monitoring network.

## **Deliverables**

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of July 1, 2026 through September 31, 2026 will be uploaded to HydroDaVE by October 15, 2026.
- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of October 1, 2026 through December 31, 2026 will be uploaded to HydroDaVE by January 15, 2027.
- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of January 1, 2027 through March 31, 2027 will be uploaded into HydroDaVE by April 7, 2027.

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<sup>13</sup> An as-needed budget is provided in the event that Watermaster staff needs assistance in completing the transducer downloads during the target monitoring period for each quarterly download event. The quarterly download of all wells should be completed during the first month at the beginning of each FY quarter—July 2026; October, 2026; January 2027; and April, 2027. Field work will be performed on an as-needed basis, as directed by Watermaster staff.

<sup>14</sup> Watermaster is the designated Monitoring Entity for the Chino and Cucamonga Basins CASGEM program. CASGEM is a mandated statewide monitoring and reporting program for the entire State of California, per the amended California State Water Code SBx7-6 in November 2009.



- All available groundwater-level data collected manually in the field or downloaded from transducers for the period of April 1, 2027 through June 10, 2027 will be uploaded to HydroDaVE by June 30, 2027.
- All available groundwater-level data collected from appropriators in the Chino Basin for the April 1, 2026 through June 30, 2026 period will be uploaded to HydroDaVE by September 15, 2026.
- All available groundwater-level data collected from appropriators in the Chino Basin for the July 1, 2026 through September 30, 2026 period will be uploaded to HydroDaVE by December 15, 2026.
- All available groundwater-level data collected from appropriators in the Chino Basin for the October 1, 2026 through December 31, 2026 period will be uploaded to HydroDaVE by March 15, 2027.
- All available groundwater-level data collected from appropriators in the Chino Basin for the January 1, 2027 through March 31, 2027 period will be uploaded to HydroDaVE by May 31, 2027.
- The fall 2026 CASGEM data submittals will be provided to the DWR by December 31, 2026. The spring 2027 CASGEM data submittals will be provided to the DWR by June 30, 2027.
- Complete coordination and contracting of subcontractors as required to perform as-needed well maintenance and rehabilitation services for wells in the monitoring network.
- Purchase and installation of new replacement transducers and direct-read cables as needed throughout the year for all wells in the transducer monitoring programs.



**7402, 7403, 7406, 7408 – PE1: COMPREHENSIVE MONITORING PROGRAM**  
**MZ-1 Ground-Level Monitoring Program**

	Cost Estimate
Consultant Labor	\$166,718
Other Direct Costs	\$61,396
<b>Total</b>	<b>\$228,114</b>

**Rationale**

Program Element 4 of the OBMP states that land subsidence and ground fissuring in MZ-1 are not acceptable and, to the extent that the cause is pumping in MZ-1, should be managed to tolerable levels. Watermaster conducts a ground-level monitoring program to support Program Element 4 per the requirements of the Peace Agreement, the subsequently developed and Court-approved Chino Basin Subsidence Management Plan, and the monitoring and mitigation requirements of the Peace II California Environmental Quality Act (CEQA) Supplemental Environmental Impact Report (SEIR).

**Scope of Work**

West Yost shall perform the following tasks:

- Maintain and replace (if necessary) the existing monitoring equipment at extensometer and well facilities in the MZ-1 Managed Area and the Areas of Subsidence Concern.
- Download, check, and store monitoring data from extensometers, wells, and recharge activities in the MZ-1 Managed Area and the Areas of Subsidence Concern.
- Conduct GPS surveys at four key control points in the Managed, Northwest, Southeast, and Northeast areas:
  - High-precision GPS acquisition at four control points is recommended over traditional benchmark surveys, as it provides a more cost-effective approach for monitoring vertical ground motion in areas of subsidence concern. This approach also allows for verification of InSAR-derived vertical ground motion estimates, supports calibration of 1D compaction models, and establishes reference elevations for future benchmark surveys.
- Conduct InSAR monitoring of ground motion across western Chino Basin from March 2026 to March 2027 using information collected by the TerraSAR-X satellite.

**Deliverables**

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All ground-level monitoring data, available as of May 1, 2027, will be uploaded into Watermaster’s database by June 30, 2027.



**7302, 7306 – PE1: COMPREHENSIVE MONITORING PROGRAM**

**Prado Basin Habitat Monitoring, Data Analysis and Reporting – 50% IEUA Cost Share**

	Cost Estimate <sup>15</sup>
Consultant Labor	\$152,861
Other Direct Costs	<u>\$13,740</u>
<b>Total</b>	<b>\$166,601</b>

**Rationale**

Mitigation Measure 4.4-3 of the Peace II CEQA SEIR (Biological Resources/Land Use & Planning) calls for the IEUA, Watermaster, and the Orange County Water District to form the Prado Basin Habitat Sustainability Committee (PBHSC). The purpose of the PBHSC is to ensure that the Peace II Agreement actions will not significantly or adversely impact the Prado Basin riparian habitat. The responsibilities of the PBHSC are to develop and implement an adaptive monitoring program for the Prado Basin Habitat Sustainability Program (PBHSP) and to prepare annual reports that include recommendations for ongoing monitoring and any adaptive management actions required to mitigate any measured or prospective loss of riparian habitat that is attributable to the Peace II Agreement.

**Scope of Work**

The PBHSP is implemented as described in the Adaptive Management Plan and recommendations in the Annual Reports. The PBHSP includes the implementation of a monitoring program and the preparation of an annual report. The monitoring program includes monitoring of riparian habitat and all factors that can affect the riparian habitat such as changes in groundwater levels, surface water discharge, climate, and other factors.<sup>16</sup> The PBHSP for FY2026/27 is described in the Recommended Scope and Budget Technical Memorandum of the PBHSP for FY 2026/27 developed through the PBHSC. This work includes the following:

- Collect, compile, and review the following riparian habitat data:
  - High-resolution air photo of the Prado Basin region in July 2026.
  - Landsat remote sensing data in the Prado Basin region over the 2026 water year.
- Collect, compile, review, and upload the 2026 climatic data to HydroDaVE.
- Analyze data and prepare a draft and final 2026 Annual Report of the PBHSC.
- Prepare a Recommended Scope and Budget of the PBHSP for FY 2027/28.
- Prepare for and participate in PBHSC meetings.

<sup>15</sup> IEUA will cost share 50 percent of this task.

<sup>16</sup> The groundwater and surface water monitoring components of the PBHSP are included with Tasks 7103.3 and 7104.3 because the data collected are also used for basin-wide monitoring efforts such as for the Biennial State of the Basin report, groundwater modeling, demonstration of Hydraulic Control, and the triennial Ambient Groundwater Quality Recomputation.



## **Deliverables**

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- All riparian habitat and climatic data through water year 2026 uploaded to HydroDaVE by November 30, 2026.
- High-resolution air photo of the Prado Basin region completed by July 31, 2026.
- A Recommended Scope and Budget memorandum for the PBHSP for FY 2027/28 by March 15, 2027
- Draft Annual Report of the PBHSC by May 10, 2027.
- Final Annual Report of the PBHSC by June 15, 2027.

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**7202 – PE1: COMPREHENSIVE MONITORING PROGRAM**

**Recharge and Well Monitoring Program: Review Documents for Chino Basin Recycled Water GW Recharge Program**

	Cost Estimate
Consultant Labor	\$24,090
Other Direct Costs	\$0
<b>Total</b>	<b>\$24,090</b>

**Rationale**

The IEUA and Watermaster are required to submit specific reports as part of the Chino Basin Recycled Water Groundwater Recharge Program (RWGRP). The RWGRP is being implemented by the IEUA and Watermaster as co-permittees. Annual reporting is performed pursuant to the requirements of the following orders:

- California Regional Water Quality Control Board, Santa Ana Region. Order No. R8-2007-0039. Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, June 29, 2007.
- California Regional Water Quality Control Board, Santa Ana Region. Monitoring and Reporting Program No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, June 29, 2007.
- California Regional Water Quality Control Board, Santa Ana Region. Order No. R8-2009-0057 Amending Order No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water Groundwater Recharge Program: Phase I and Phase II Projects, San Bernardino County, October 23, 2009.
- California Regional Water Quality Control Board, Santa Ana Region. Revised Monitoring and Reporting Program No. R8-2007-0039 for Inland Empire Utilities Agency and Chino Basin Watermaster. Chino Basin Recycled Water.

Watermaster prepares reports pertaining to the HCMP with IEUA review. IEUA prepares reports pertaining to the RWGRP with Watermaster review.<sup>17</sup>

**Scope of Work**

West Yost will review quarterly and annual reports prepared by the IEUA for the RWGRP as well as other reports prepared by the IEUA pursuant to the recharge permit. West Yost will also review other reports or as needed analyses prepared by IEUA per the direction of the Regional Board and the California Department of Drinking Water (DDW), such as five-year engineering reports, and additional monitoring orders or required analyses to demonstrate compliance. West Yost will provide comments and recommendations to the IEUA through the Watermaster as the co-permittee.

**Deliverables**

West Yost will provide comments on the reports and analyses within ten days of their receipt.

<sup>17</sup> This is a component of the “Bright-Line Agreement” between Watermaster and the IEUA.



**5965 – PE1: COMPREHENSIVE MONITORING PROGRAM**

**Support for Development and Implementation of Improved Data Collection and Visualization Tools**

	Cost Estimate
Consultant Labor	\$27,626
Other Direct Costs	\$0
<b>Total</b>	<b>\$27,626</b>

**Rationale**

Watermaster collects and manages multiple datasets from the Watermaster Parties (Parties) and the IEUA to support the management of the Chino Basin pursuant to the 1978 Judgement, the ongoing implementation of the OBMP, and the regulatory requirements of State and local agencies. Additionally, the IEUA requests and collects analogous datasets from some of the Parties located within IEUA’s service area. As such, the Parties receive multiple requests for duplicate data and information, and the datasets collected separately by Watermaster and the IEUA can contain discrepancies.

In FY 2019/20, Watermaster requested West Yost to develop a recommendation for an improved data collection and management process to eliminate duplicate data requests, avoid discrepancies between collected datasets, and create a centralized location for Watermaster and IEUA to access the data. The recommended process included a centralized portal and database where data are collected and managed by Watermaster monthly or annually using data templates customized for each Party. IEUA would have access to the portal and database to download and review information on its member agencies. From FY 2020/21 through 2025/26, Watermaster implemented the recommended approach to develop the Data Portal for data collection and management. In FY 2024/25 and FY 2025/26, Watermaster identified additional needs to support the development of online data visualization tools, such as ArcGIS Online, to support Watermaster with field monitoring operations and visualization of uploaded data.

Watermaster plans to launch the Data Portal in FY 2026/27. During this period, West Yost will continue to provide support to Watermaster including as needed requests to support the launch of the Data Portal and development of data visualization tools.

**Scope of Work**

Support Watermaster with as requested support with:

- Development of Data Portal including updating data-collection template, providing solutions to potential issues, and assisting with describing the new process to the Parties.
- Development of online data visualization tools such as ArcGIS Online and other as needed tools.

**Deliverables**

The deliverables and associated schedule will be defined by Watermaster staff.



## 7202.2 & 6901.95 – PE2: COMPREHENSIVE RECHARGE PROGRAM

### SWRCB and CDFW Water Rights Reporting

	Cost Estimate
Consultant Labor	\$42,452
Other Direct Costs	\$0
<b>Total</b>	<b>\$42,452</b>

### Rationale

Watermaster holds three diversion permits, issued by the SWRCB, that provide authorization to Watermaster to divert and recharge storm and dry-weather discharge. Under this permit, Watermaster is required to conduct the following reporting:

- Annual Streamflow Monitoring Report for Water Rights Permit 21225 to the CDFW, summarizing the findings of a specialized hydrologic assessment of the relative impacts of the diversions of storm water for recharge by Watermaster pursuant to Watermaster’s Permit 21225
- Annual Water Rights Reporting to the SWRCB, which includes documentation of water diversion for the prior water year.

### Scope of Work

West Yost shall perform the following tasks:

- Task 1 – Annual Streamflow Monitoring Report for Water Rights Permit 21225. This task includes engineering services to prepare a specialized hydrologic assessment of the relative impacts of the diversions of storm water for recharge by Watermaster pursuant to Watermaster’s Permit 21225 issued by the State Water Resources Control Board. A report summarizing the analysis is due to the California Department of Fish and Wildlife each year by October 1<sup>st</sup>. This work involves estimating the discharge to the Santa Ana River from its tributaries that flow across the Chino Basin and where storm water is diverted for recharge. The discharge from these tributaries to the Santa Ana River is estimated with and without the Watermaster diversions for recharge, and the relative changes in discharge are computed. The latest version of the Chino Basin surface water model that was developed for the 2025 Safe Yield Reevaluation will be used for this effort.
- Task 2 – Annual Water Rights Reporting to the SWRCB. This task includes providing as-needed assistance to Watermaster staff to update the "Water Diversion Measurement" section of progress reports for Watermaster's water rights permits. For one of the permitted points of diversion, modeling is needed to estimate diversions. The latest version of the Chino Basin surface water model that was developed for the 2025 Safe Yield Reevaluation will be used for this effort.

### Deliverables

West Yost shall deliver the following to Watermaster:

- Task 1 – Annual Streamflow Monitoring Report for Water Rights Permit 21225
  - A letter report entitled, Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal 2025/26, which Watermaster and its attorney will review and forward to the California Department of Fish and Wildlife and State Water Resources Control Board by October 1, 2026.



- The draft report will be delivered to Watermaster and its Attorney for review and comment by September 15, 2026.
- The final report will be delivered to Watermaster and its Attorney by September 27, 2026.
- Task 2 – Annual Water Rights Reporting to the SWRCB
  - Estimates of stormwater recharge, including maximum daily diversions by month by permit.
  - The “Water Diversion Measurement” section of Watermaster’s annual progress reports to the SWRCB.
  - Electronic data files required by SWRCB at time of filing.

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**7202.2 – PE2: COMPREHENSIVE RECHARGE PROGRAM**

**General Engineering Services**

	Cost Estimate
Consultant Labor	\$176,604
Other Direct Costs	<u>\$636</u>
<b>Total</b>	<b><u>\$177,240</u></b>

**Rationale**

Watermaster and the IEUA began implementing the 2013 Amendment to the 2010 Recharge Master Plan (RMPU) in FY 2014/15. The services anticipated in FY 2026/27 include technical support (numerical model simulations, hydraulic calculations, project refinement, conceptual integrity review, etc.) to assist Watermaster and the IEUA in the start-up of the 2013 RMPU projects and evaluate non-2013 RMPU projects, monthly meetings with IEUA and Watermaster staff to review the progress of the RMPU projects, and supporting the implementation of the 2023 RMPU. At Watermaster’s request, West Yost will attend quarterly GRCC and RIPComm meetings.

**Scope of Work**

- Attend GRCC, RIPComm and other meetings with Watermaster and IEUA staff
- Conduct as-needed analysis to support recharge projects
- Support the implementation of the 2013 & 2023 RMPU, including:
  - Perform as-requested technical support for the start-up of the 2013 RMPU projects
  - Refine and implement of the Renewal and Replacement (R&R) Plan including: sharing updated R&R forecasts with Watermaster to obtain feedback and confirm assumptions, meeting with all recharge facilities owners to review assets in 10-year R&R forecast and identify needs for condition assessments, and develop a work plan for conducting condition assessments and other work identified through collaboration with Watermaster.

**Deliverables**

West Yost will provide guidance and support in the implementation of the 2013 and 2023 RMP. West Yost’s deliverables for as-need requests will be determined with each request.



**7202.2 – PE2: COMPREHENSIVE RECHARGE PROGRAM**

**2028 Recharge Master Plan**

	Cost Estimate
Consultant Labor	\$338,832
Other Direct Costs	<u>\$477</u>
<b>Total</b>	<b><u>\$339,309</u></b>

**Rationale**

Pursuant to the Peace II Agreement, Watermaster and the IEUA must update and/or amend the Recharge Master Plan for the Chino Basin no less than every five years. The most recent update, the 2023 Recharge Master Plan, was completed and submitted to the Court in October 2023. The next Recharge Master Plan update (RMPU) must be completed and submitted to the Court in 2028.

During FY 2025/26, the “Annual Finding of Substantial Compliance with the Recharge Master Plan” concluded that under low groundwater level conditions (Scenario 5 of the SYR, which represents high demands, high groundwater utilization, and hot/dry climate/hydrology) the supplemental wet-water recharge capacity is sufficient through 2050 if imported water is available every year. If imported water is available one out of five years, the supplemental wet-water recharge capacity will become insufficient to meet projected replenishment obligations after managed storage accounts reach zero (projected to occur around 2044 in Scenario 5). Additionally, there is a potential loss of recharge from the planned development at the existing Turner 4 Basin.

Based on this, Watermaster is interested in considering and evaluating new recharge projects in the 2028 RMPU. Consideration of new projects will likely result in a 2-year effort for completion the 2028 RMPU, and thus work needs to start in FY 2026/27.

**Scope of Work**

The scope of work for the 2028 RMPU for FY 2026/27 includes:

- Define objectives and refine scope of work. Under this task, Watermaster will review and refine the scope of the 2028 RMPU through a couple of workshops.
- Develop planning, screening, and evaluation criteria. Under this task Watermaster will develop criteria on how and where to conduct recharge, and to screen and evaluate projects (design, financial, operation, screening and selection criteria) and prepare corresponding section in 2028 RMPU report.
- Describe recharge enhancement opportunities. Under this task, Watermaster will identify potential recharge projects, screen them based on the defined criteria, and determine which project to analyze further.

The work to prepare the 2028 RMPU will continue through October 2028.

**Deliverables**

West Yost shall deliver the following to Watermaster:

- Workshop agendas, prep materials and notes.
- Documentation of the scope of work to prepare the 2028 RMPU through completion in October 2028.
- Description of the selected planning, screening, and evaluation criteria for project selection.



## **7303 – PE3/5: WATER SUPPLY PLAN – DESALTERS**

### **Engineering Support for Desalters**

	Cost Estimate
Consultant Labor	\$21,760
Other Direct Costs	\$0
<b>Total</b>	<b>\$21,760</b>

### **Rationale**

The 2004 Basin Plan Amendment approved by the Regional Board and the State Water Resources Control Board established the “maximum benefit” objectives and established certain milestones that must be achieved by Watermaster and the IEUA. To demonstrate compliance with the Regional Board order, Watermaster and the IEUA agreed to achieve Hydraulic Control. The well fields of the Chino Basin Desalter Authority (CDA) are critical to the achievement and maintenance of Hydraulic Control and the demonstration of maximum benefit. The CDA periodically requests from the Watermaster technical assistance, data, information, and attendance at meetings with regulators to support desalter expansion and operations, and the development and implementation of a monitoring and reporting plan for the CDA clean-up project funded by Prop 1 Grant Agreement No. D1712507.

### **Scope of Work**

West Yost shall perform the following tasks at the discretion of the Watermaster General Manager:

- Review and prepare comments on CDA status reports.
- Perform ad hoc analyses requested by the Watermaster General Manager or the CDA.
- Fulfill requests for hydrologic data, model files, model analyses, PowerPoint presentations, maps, charts, technical reports, etc., as requested by the CDA or its consultants.
- Attend meetings and conference calls, as requested by the CDA or its consultants.

### **Deliverables**

West Yost shall deliver the following, at the discretion of the Watermaster General Manager:

- Written comments on the CDA status reports, as requested by the Watermaster general manager.
- PowerPoint presentations, maps, charts, model files, data, technical reports, and recommendations as requested by the CDA.
- Written summaries of meetings.



**7402 – PE4: MANAGEMENT ZONE STRATEGIES**

**MZ-1: Data Analyses, Reports, Meetings, and Administration**

	Cost Estimate
Consultant Labor	\$125,858
Other Direct Costs	\$364
<b>Total</b>	<b>\$126,222</b>

**Rationale**

Program Element 4 of the OBMP states that land subsidence and ground fissuring in MZ-1 are not acceptable and, to the extent that the cause is pumping, should be managed to tolerable levels. Watermaster conducts a ground-motion monitoring program to support Program Element 4 per the requirements of the Peace Agreement, the subsequently developed Court-approved MZ-1 Subsidence Management Plan (MZ-1 Plan) and its revisions (2015 Chino Basin Subsidence Management Plan), and the monitoring and mitigation requirements of the Peace II CEQA SEIR. The 2015 Chino Basin Subsidence Management Plan calls for the annual evaluation of data derived from the monitoring program and revisions to the Subsidence Management Plan and/or the monitoring program if necessary.

**Scope of Work**

West Yost shall perform the following tasks:

- Prepare the draft FY 2025/26 Annual Report for the Ground Level Monitoring Program (GLMP).
- Finalize the FY 2025/26 Annual Report for the GLMP based on comments received from the Ground Level Monitoring Committee (GLMC).
- Analyze all data collected during FY 2026/27 under the GLMP to support the preparation of the FY 2026/27 Annual Report for the GLMP. These data include groundwater levels, groundwater production, aquifer recharge, aquifer-system deformation, tectonic deformation, pumping test results, ground-level and GPS surveys, horizontal strain, and InSAR.
- Conduct meetings with the GLMC to review the data and analyses and develop a list of potential activities and cost estimates for FY 2027/28.

**Deliverables**

West Yost will deliver the following to Watermaster no later than the date or dates indicated:

- The FY 2025/26 Annual Report for the GLMP by November 2, 2026, featuring charts and maps of monitoring data, conclusions regarding the protective nature of the Subsidence Management Plan, the Watermaster-approved activities for the next fiscal year (FY 2026/27), and the revised Subsidence Management Plan, if revisions are necessary.
- Recommended scope of services and budget for the GLMP in FY 2027/28 by April 1, 2027, to support the Watermaster’s budgeting process.



**7402.1 – PE4: MANAGEMENT ZONE STRATEGIES**

**MZ-1: Develop a Subsidence Management Plan for Northwest MZ-1**

	Cost Estimate
Consultant Labor	\$107,696
Other Direct Costs	\$0
<b>Total</b>	<b>\$107,696</b>

**Rationale**

The MZ-1 Subsidence Management Plan (MZ-1 Plan) states that if data from existing monitoring efforts in the Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster will revise the MZ-1 Plan in an attempt to avoid adverse impacts. Land subsidence in Northwest MZ-1 was first identified as a concern in the MZ-1 Summary Report (2006) and in the MZ-1 Plan (2007). Since then, Watermaster has been monitoring subsidence in this area via InSAR, leveling surveys, and groundwater-levels with pressure transducers at selected wells. Of particular concern, subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault—the same spatial pattern of differential subsidence that occurred in the MZ1 Managed Area during the time of ground fissuring. Watermaster, consistent with input from the Ground Level Monitoring Committee (GLMC), determined that the MZ-1 Plan needs to be updated to include a *Subsidence Management Plan for Northwest MZ-1* with the long-term objective of minimizing or abating the occurrence of the differential land subsidence.

Developing a Subsidence Management Plan for Northwest MZ-1 is a multi-year effort. The GLMC oversees a work plan<sup>18</sup> to execute this effort. The scope of work below describes the next year of the work plan.

**Scope of Work**

West Yost shall perform the following tasks to implement the work plan to develop a Subsidence Management Plan for Northwest MZ-1:

- **Monitoring.** The established monitoring program of piezometric levels and pumping at wells in Northwest MZ-1 will continue through various techniques, including: (i) SCADA based monitoring by the Monte Vista Water District; (ii) monitoring of piezometric levels via sonar; (iii) monitoring of piezometric levels via pressure transducers at City of Pomona production wells; and (iv) manual measurements of piezometric levels. These data are collected under the Watermaster’s groundwater-level monitoring program but are analyzed under this task. Charts and data graphics of pumping, piezometric levels, and aquifer system deformation will be updated every three months, which will improve the understanding of the hydrogeology in Northwest MZ-1, will be used to develop the Subsidence Management Plan for Northwest MZ-1, and in the future, will be used to adapt the Chino Basin Subsidence Management Plan, as appropriate.

<sup>18</sup> [CBWM. 2015. Workplan to Develop a Subsidence Management Plan for the Northwest MZ-1 Area.](#)



- **Refine and Evaluate Subsidence-Management Alternatives.** The 2025 Safe Yield Reevaluation (2025 SYR) involves the development and evaluation of multiple projection scenarios of future hydrology, pumping, managed recharge, and use of managed storage in the Chino Basin. These projection scenarios are being simulated with an updated Chino Valley Model (CVM). The CVM results are being used to determine a tentative Safe Yield, which will be evaluated for MPI and then used to evaluate the current Safe Yield of the Chino Basin. The CVM results for piezometric levels (by CVM layer) will be used as input data for the 1D Model at PX to predict the potential for future subsidence associated with operating at the Safe Yield.

The results of the 1D model predictions of future subsidence can be used to inform “guidance criteria” for the Subsidence Management Plan for Northwest MZ-1. If the potential future subsidence is deemed significant and undesirable, then the Watermaster Engineer may recommend that up to two (2) additional Subsidence-Management Alternatives (SMAs) be developed and evaluated with the CVM and 1D Model to test the effectiveness of the SMAs at abating future subsidence or minimizing it to tolerable levels. This work will be performed and completed in FY 2025/26.

In FY 2026/27, the Watermaster Engineer will run the CVM and PX 1D Model under the additional SMAs. The assumptions underlying the SMA(s), including groundwater production and replenishment/recharge plans of the Chino Basin parties, will be reviewed and discussed with the GLMC before any modeling is performed. Verbal and written feedback from the GLMC will be incorporated to finalize the SMA(s).

Then, the CVM and 1D Model will be used to evaluate the potential future subsidence in Northwest MZ-1 under the SMAs. Again, the objective of this task is to test the effectiveness of the SMAs at abating future subsidence or minimizing it to tolerable levels. The model results, interpretations, and recommendations will be documented in a draft TM and distributed to the GLMC. A GLMC meeting will be held to review the draft TM and receive GLMC feedback. The verbal and written feedback from the GLMC will be used to finalize the TM. The final TM could be used to finalize the Subsidence Management Plan for Northwest MZ-1, and will be shared with all Watermaster Parties through the monthly Pool, Advisory Committee, and Board meetings.

## **Deliverables**

West Yost shall deliver the following to Watermaster no later than the date or dates indicated:

- Draft and final technical memoranda on the CVM and 1D model results, interpretations, and recommendations under the SMAs.



## 7502 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT

### Engineering Services

	Cost Estimate <sup>19</sup>
Consultant Labor	\$280,622
Other Direct	
Costs	\$1,700
<b>Total</b>	<b>\$282,322</b>

### Rationale

In the Judgment, Watermaster is provided with discretionary powers to address water quality issues in the basin: “Watermaster, with the advice of the Advisory and Pool Committees, is granted discretionary powers in order to develop an optimum basin management program for Chino Basin, including both water quantity and quality considerations.” In the Implementation Plan of the Peace Agreement, Watermaster committed to certain responsibilities under Program Elements 6 and 7.

**Program Element 6 - Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management.** Pursuant to Program Element 6, Watermaster has committed resources to managing water quality contaminants as follows:

- Identify water-quality anomalies through monitoring and analysis.
- Assisting the Santa Ana Water Board in determining sources of the water quality anomalies.
- Establishing priorities for clean-up jointly with the Regional Board; and seeking funding from outside sources to accelerate detection and cleanup efforts.
- Identifying opportunities to remove organic contaminants through regional groundwater treatment projects in the southern half of the Basin; and collaborating with the Chino Desalter Authority to implement such solutions.
- Conducting investigations to assist the Santa Ana Water Board in accomplishing mutually beneficial objectives.

Much of the work listed above was started by the Chino Basin Water Quality Committee (WQC) from 2003 through 2010. Since 2010, Watermaster has supported ongoing monitoring and analysis to ensure the efforts to manage water quality contamination under Program Element 6 are achieving the intended outcomes and identify any outcomes that may be of concern. This primarily involves analyzing water quality data to assess the movement of identified plumes in the Basin, but also includes as-needed work to support the Santa Ana Water Board or others in assessing groundwater quality conditions in and around the plumes.

**Program Element 7 – Salt Management Program.** Pursuant to Program Element 7, the Watermaster and IEUA have been implementing the Chino Basin maximum-benefit salt and nutrient management plan (Maximum Benefit SNMP) since 2004. Implementation of the Maximum Benefit SNMP is a regulatory requirement defined in the Santa Ana River Basin<sup>20</sup> (Basin Plan). The Maximum Benefit SNMP and the

<sup>19</sup> This project includes a cost shared effort with IEUA. The shared cost of this total by IEUA is \$75,130.

<sup>20</sup>[http://www.swrcb.ca.gov/santaana/water\\_issues/programs/basin\\_plan/docs/chapter5.pdf](http://www.swrcb.ca.gov/santaana/water_issues/programs/basin_plan/docs/chapter5.pdf)



associated management commitments (Maximum Benefit Commitments) were developed to enable maximum beneficial use of recycled water in the Chino Basin. Watermaster and IEUA are required to implement the Maximum Benefit Commitments in accordance with the scheduled defined in Table 5-8a of the Basin Plan. If the Regional Board determines that Watermaster and IEUA are not being implementing the Maximum Benefit Commitments in accordance with Table 5-8a, then maximum benefit is not demonstrated, the Regional Board has the discretion to (1) impose the more stringent antidegradation objectives for Chino-1, Chino-2, and Chino-3 GMZs and (2) require Watermaster and IEUA to retroactively mitigate the use of recycled and imported waters with TDS concentrations that exceeded the antidegradation objectives for the GMZs since the adoption of the maximum benefit SNMP in 2004.

The Maximum Benefit Commitments include:

1. The implementation of a surface-water monitoring program.
2. The implementation of a groundwater monitoring program.
3. The expansion of the Chino-I Desalter to a capacity of 10 million gallons per day (mgd) and the construction of the Chino-II Desalter with a design capacity of 10 mgd.
4. The additional expansion of desalter capacity (to 40 mgd) pursuant to the OBMP and the Peace Agreement, the timing for which is tied to the IEUA's agency-wide effluent concentration)<sup>21</sup>
5. The completion of the groundwater recharge facilities included in the 2001 Watermaster Recharge Master Plan.
6. The management of recycled water quality to ensure that the IEUA agency-wide, 12-month volume-weighted running average effluent TDS concentration does not equal or exceed 550 mg/l and the TIN concentration does not equal or exceed 8 mg/l.
7. The management of basin-wide, volume-weighted TDS and nitrate concentrations in artificial recharge to less than or equal to the maximum-benefit objectives on a five-year volume-weighted basis.
8. The achievement and maintenance of the "hydraulic control" of groundwater outflow from the Chino Basin, specifically from the Chino-North GMZ, in order to protect Santa Ana River water quality and downstream beneficial uses.
9. The determination of ambient TDS and nitrate concentrations of Chino and Cucamonga GMZs every five years.

The majority of the ongoing work to comply with the Maximum Benefit Commitments is performed under other program elements, by IEUA, or CDA.

To demonstrate compliance, Watermaster prepares the Maximum Benefit Annual Report. The report describes the status of compliance with each of the Maximum Benefit Commitments defined in the Basin Plan. The annual report is due to the Regional Board by April 15<sup>th</sup> of each year.

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<sup>21</sup> The expansion to provide an additional 20 mgd of desalter pumping capacity was initially required to occur when the 12-month running average for the IEUA agency-wide effluent TDS concentration exceeded 545 mg/l for three consecutive months. The expansion has occurred even though this water quality condition has never been triggered and has instead been driven by the implementation of the Peace II Agreement and achieving hydraulic control.



As part of the Basin Plan amendment (see Task 7510 description below), Watermaster is required to: (1) update the monitoring work plan for the Maximum Benefit SNMP, (2) prepare a work plan to improve the Chino Basin Groundwater Quality Model, and (3) project basin-wide TDS and nitrate concentrations every five years. These requirements were identified during the technical work conducted in support of the Basin Plan amendment and are also mandated by the State Water Resources Control Board's 2019 Recycled Water Policy.

Watermaster has initiated efforts to develop the 2025 Maximum Benefit Monitoring Program Work Plan and the Chino Basin Water Quality Model Improvement Work Plan. Both work plans are scheduled to be drafted by June 30, 2025. The next projection of basin-wide TDS and nitrate concentrations for the Chino Basin is due to the Regional Board by December 2028.

During the FY 2026/27 period, Watermaster plans to finalize the 2025 Maximum Benefit Monitoring Program Work Plan and Chino Basin Water Quality Model Improvement Work Plan, continue to coordinate with the Regional Water and other agencies with the management of basin groundwater quality, prepare the Maximum Benefit Annual Report, continue to update the monitoring work plan, and provide other as-needed support on Maximum Benefit SNMP implementation or compliance. Additionally, to support the projection of basin-wide TDS and nitrate projection, Watermaster will also initiate the effort to update the groundwater quality model and collect data as recommended in the Chino Basin Water Quality Model Improvement Work Plan.

## Scope of Work

For FY 2026/27, West Yost shall perform the following tasks:

- Consulting for Program Element 6 to continue efforts to track identified contaminant plumes in the Chino Basin.
  - South Archibald Plume and Chino Airport Plume. Subtasks include:
    - Prepare semi-annual plume status reports for the Watermaster Pools, Advisory Committee, and Board meetings.
    - Assist Watermaster with coordination and negotiation with the plume responsible parties and Santa Ana Water Board.
    - Provide technical oversight and review of plume investigation and remediation reports.
    - Prepare as-requested technical analyses, such as analyze groundwater-elevation and quality data, develop revised VOC plume maps, and/or perform groundwater model runs to demonstrate the capture of the plume by the desalter well fields.
  - Other point sources of concern. Other point sources of concern include but are not limited to, the General Electric Flatiron Facility, General Electric Test Cell Facility, Rialto-Colton perchlorate plume, the Alumax Recycling Facility, Kaiser Steel Mill, Milliken Landfill, and the Stringfellow site. Subtasks could include:
    - Provide technical oversight and review of investigations and remediation reports.
    - Prepare annual plume status report for the Watermaster Pools, Advisory Committee, and Board meetings.
    - Prepare as-requested technical analyses, such as analyze groundwater-elevation and quality data, review potential impacts to Chino Basin water quality, and/or develop revised plume delineations.



- Support for implementation of Program Element 7
  - Prepare the 2026 Maximum Benefit Annual Report. This includes:
    - Analyze and interpret the data and compare with metrics. All data required for reporting in the 2026 Maximum Benefit Annual Report shall be analyzed by West Yost and used to support the demonstration of compliance with the Maximum Benefit Commitments.
    - Reporting. West Yost shall prepare a draft 2026 Maximum Benefit Annual Report. This report will be submitted to Watermaster and the IEUA for review. Comments will be incorporated, and West Yost shall prepare the final 2026 Maximum Benefit Annual Report for submittal to the Santa Ana Water Board. West Yost will respond to comments from the Santa Ana Water Board and other stakeholders, as necessary.
    - Ad-hoc meetings. Prepare for and attend meetings with Watermaster, IEUA, and/or Santa Ana Water Board staff, as requested, to present the draft and final 2026 Maximum Benefit Annual Reports.
  - Finalize the 2025 Maximum Benefit Monitoring Program Work Plan, which includes:
    - Update the draft work plan based on comments by Watermaster and IEUA and submit the updated work plan to the Santa Ana Water Board.
    - Coordinate and address comments by the Santa Ana Water Board, if any.
  - Finalize the Chino Basin Groundwater Quality Model Improvement Work Plan and initiate efforts to support the basin-wide TDS and nitrate projection<sup>22</sup>, which includes:
    - Update the draft work plan based on comments by Watermaster and IEUA and submit the updated work plan to the Santa Ana Water Board
    - Coordinate and address comments by the Santa Ana Water Board, if any.
    - Perform model updates, collect planning data, and implement other efforts to support the basin-wide projection.
  - As-needed support for implementation of PE-6 and PE-7:
    - Prepare as-requested technical analyses
    - Prepare for and attend as-requested meetings with the Santa Ana Water Board and others

## **Deliverables**

West Yost will deliver the following to Watermaster:

- Semi-annual status reports for the Archibald and Chino Airport plumes in October 2026 and April 2027.
- Annual status reports for the remaining identified plumes in October 2026.
- Draft and final 2026 Maximum Benefit Annual Report by April 2026.
- Updated 2025 Maximum Benefit Monitoring Program Work by August 2026.
- Updated Chino Basin Groundwater Quality Model Improvement Work Plan by December 2026.
- Other as-needed deliverables.

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<sup>22</sup> This effort is cost shared with IEUA. The cost of IEUA share for this effort is \$75,130.



**7510 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT**

**Update IEUA’s Recycled Water Permits/Maximum Benefit Salinity Management Plan – IEUA Cost Share**

	Cost Estimate <sup>23</sup>
Consultant Labor	\$15,525
Other Direct Costs	<u>\$3,600</u>
<b>Total</b>	<b>\$19,125</b>

**Rationale**

In 2004, the Santa Ana Water Board amended the Basin Plan to incorporate the Maximum Benefit SNMP for the Chino Basin to incorporate numerically higher, maximum-benefit-based TDS and nitrate objectives for the Chino-North groundwater management zone. The maximum benefit objectives created assimilative capacity and enables the cost-efficient, maximum reuse of recycled water for irrigation and recharge. The SNMP includes nine Maximum Benefit Commitments that Watermaster and IEUA must implement to obtain continued access to assimilative capacity.

The Chino Basin Maximum Benefit SNMP and related permits establish TDS and total inorganic nitrogen (TIN) limits for discharge and reuse of IEUA’s recycled water within the Chino Basin. The respective limits for TDS and TIN are 550 mg/l and 8 mg/l. Compliance is measured as the 12-month, flow-weighted running average concentration of the IEUA agency-wide effluent. Pursuant to Maximum Benefit Commitment No. 6, Watermaster and IEUA are required to prepare and implement a plan and schedule to improve effluent water quality and achieve compliance with the effluent compliance metrics when the 12-month flow-weighted running average TDS or TIN equals or exceeds the action limits of 545 mg/l TDS for three consecutive months or 8 mg/l TIN for any one month.

In 2015, the 12-month running average TDS concentration of the IEUA recycled water reached a historical high of 534 mg/l, which was only 11 mg/l below the action limit, for three consecutive months. Although the TDS concentration declined before exceeding the action limit, it was an important indicator that the TDS concentration of recycled water is likely to approach or exceed the limit and trigger the planning for recycled water quality improvements during the next prolonged dry period. Given the potential cost of implementing recycled water quality improvements for what might only be short-term exceedances of the action limit based on the 12-month flow-weighted running average, the IEUA and Watermaster petitioned the Santa Ana Water Board to modify the recycled water permits and the Basin Plan to allow for a longer-term averaging period for determining compliance with the TDS limit.

To obtain approval from the Santa Ana Water Board for the Basin Plan modifications, and any associated permit modifications, the IEUA and Watermaster began a detailed evaluation of the TDS and nitrate concentration impacts to Chino Basin by developing the 2020 Chino Basin Water Quality Model. The technical work was completed in December 2021, and the results were used to develop a proposed regulatory compliance plan. The Regulatory Compliance Proposal was submitted to the Santa Ana Water Board in March 2022. The Santa Ana Water Board approved the Regulatory Compliance Proposal in July 2022 and requested that Watermaster and IEUA coordinate with Jurupa Community Services District (JCSD), which had also completed a regulatory compliance proposal in 2022 that would require amendments to the Chino Basin Maximum Benefit SNMP in the Basin Plan. The extra costs to combine the Basin Plan efforts into one amendment are being covered directly by the JCSD.

<sup>23</sup> This project includes 50% cost shared with IEUA.



Since approval of the Regulatory Compliance Proposal in 2022, Watermaster and IEUA have worked with Santa Ana Water Board staff to prepare documents supporting the Basin Plan amendment. Watermaster and IEUA have developed the required amendment materials, including the Staff Report, Substitute Environmental Document (SED), Economic Analysis, Resolution, peer view package and responses to peer review comments. These draft documents are currently pending review by the Santa Ana Water Board staff. Due to evolving Basin Plan amendment requirements and limited staff availability, the Santa Ana Water Board's review period is ongoing and has been extended, resulting in corresponding delays to the overall Basin Plan amendment schedule.

Following completion of the Santa Ana Water Board's review, the remaining tasks will include finalizing the amendment documents, ensuring compliance with Americans with Disabilities Act (ADA), and providing as-needed support to the Santa Ana Water Board staff to advance the amendment through the adoption process.

Regional Board adoption of the Basin Plan amendment is anticipated in June 2026. After Santa Ana Water Board adoption, additional support will be required to assist with State Water Resources Control Board adoption and Office of Administrative Law (OAL) approval, which are anticipated by January 2027.

## **Scope of Work**

West Yost shall perform the following tasks in FY 2026/27. While some of these efforts may be completed in the current fiscal year, the tasks listed below represent the full scope of work required if the Regional Board adoption schedule is delayed to after June 2026:

- Finalize Staff Report, SED, Economic Analysis, Resolution, and responses to peer review comments based on input from the Santa Ana Water Board staff.
- Ensure that all Basin Plan amendment documents comply with the ADA, including selecting and coordinating with an ADA subconsultant.
- Prepare draft PowerPoint presentation for Santa Ana Water Board staff to present the Basin Plan amendment for Santa Ana Water Board adoption.
- Support development of the Administrative Record.
- Regular coordination with Santa Ana Water Board staff to keep the process moving forward.
- Perform monthly project management activities, including participating in progress status calls with Watermaster and IEUA staff.

## **Deliverables**

The FY 2026/27 deliverables for this work include:

- Final Basin Plan amendment support documents, including the SED, Staff Report, Economic Analysis, and other supporting documentation. Including, ADA compliant Basin Plan amendment documents.
- PowerPoint presentations and handout materials for any project team, Santa Ana Water Board, and stakeholder meetings.



**7511 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT**

**As-needed services to support Watermaster in its participation in Santa Ana Watershed Project Authority Task Force**

	Cost Estimate
Consultant Labor	\$33,010
Other Direct Costs	<u>\$580</u>
<b>Total</b>	<b><u>\$33,590</u></b>

**Rationale**

The Santa Ana Watershed Project Authority (SAWPA) administers various multi-stakeholder efforts to monitor and analyze water quality in the Santa Ana River Watershed in collaboration with Regional Board. Two of the task forces that generate information relevant to Chino Basin OBMP efforts under Program Element 6 and Program Element 7 are the Basin Monitoring Program Task Force (BMPTF) and the Emerging Constituents Task Force (ECTF). The BMPTF is focused on compliance with watershed-wide the salt and nutrient plan defined in the Basin Plan, such as computing ambient water quality and performing the Wasteload Allocation analysis. These activities have the potential to impact recycled water use permitting. The ECTF focuses on the investigation of emerging constituents, tracking regulations, and implementing collaborative approaches to compliance and water quality protection. IEUA and Watermaster are members of these Task Forces.

Some of the key activities performed by the Task Forces include:

- Collection and compilation of data used to support the management of water quality in the Santa Ana River Watershed.
- Preparation of the Annual Report of Santa Ana River water quality.
- Preparation of the Annual EC Sampling Report.
- Periodic recomputation of ambient water quality for the Santa Ana River Watershed groundwater management zones (GMZs).
- Periodic review and evaluation of the wasteload allocation for recycled water discharges to the Santa Ana River and its tributaries.
- Periodic assessment of monitoring gaps in the Watershed.
- Periodic assessment and/or review of proposed changes to the Basin Plan SNMP.
- Monthly Task Force meetings.

SAWPA contracts with technical and policy consultants to support the BMPTF and ECTF to implement various studies and activities. The technical and policy work is reviewed at monthly Task Force meetings. The outcomes of the work performed by the Task Forces have direct implications for the planning activities of the Watermaster and IEUA parties.



During FY 2026/27, the BMPTF will be performing the following activities:

- Periodic (monthly to quarterly) meetings to review and discuss current and future Basin Plan SNMP implementation activities.
- Implement groundwater and surface water monitoring plans.
- Develop tools in support of performing annual data collection.
- Collect and review 2022 through 2026 groundwater data.
- Update storage models for selected groundwater management zones.
- Other as-needed work to support the Task Force’s mission and objectives.

During FY 2026/27, the ECTF will be performing the following activities:

- Quarterly meetings to review and discuss current and future Basin Plan SNMP implementation activities.
- Implementation of EC monitoring program.
- Advancing discussions on PFAS regulations, and other emerging contaminant regulations.

## Scope of Work

West Yost will perform as-requested services to support the Watermaster and IEUA’s participation in the Task Force activities. The budget anticipates the following as-requested services for FY 2026/27:

- Attendance at up to 12 monthly Task Force meetings.
- Preparation of Task Force meeting summaries for information relevant to Watermaster.
- Review and comment on interim and final project deliverables prepared by the Task Forces or its consultants.
- Attendance at as-needed meetings with Watermaster and IEUA staff to discuss Task Force draft project deliverables.
- As-needed coordination with Watermaster and IEUA staff on Task Force activities that arise during the year.

## Deliverables

The FY 2026/27 deliverables for this work could include:

- Task Force meeting summaries.
- Draft and final review comments on interim and final deliverables prepared by the Task Force or its consultants.
- Other as-requested deliverables defined by Watermaster.



**7517 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT**

**Implement Chino Creek Monitoring Program – IEUA Cost Share**

	Cost Estimate <sup>24</sup>
Consultant Labor	\$64,423
Other Direct Costs	<u>\$3,540</u>
<b>Total</b>	<b><u>\$67,963</u></b>

**Rationale**

Pursuant to the Federal Clean Water Act (CWA) Section 303(d) and 305(b), the Regional Board is required to periodically assess the water quality of the surface water bodies in the Santa Ana Watershed and publish a list of surface waters that do not meet the water quality standards for beneficial uses and objectives defined in the Basin Plan. The current assessment and listing determinations for the Santa Ana Watershed are included in the 2024 California Integrated Report (2024 Integrated Report).

The Final 2024 Integrated Report concluded that there is insufficient data to determine water quality conditions within reach 1B of Chino Creek (Chino Creek 1B). Specifically, there is insufficient data to determine if water quality is consistent with Basin Plan objectives, which was established to support beneficial uses, but the limited data indicates that beneficial uses may be potentially threatened (305[b] Category 3). Without more data, Chino Creek 1B could be listed as impaired in future Integrated Reports, which will require an extensive, multi-stakeholder effort to develop and implement a Total Maximum Daily Loads (TMDL) program and could impact recycled water permits and uses in the Chino Basin. The Regional Board expressed that more data is needed to assess water quality conditions compared to objectives in future Integrated Reports. Recognizing the TMDL impact on IEUA and Watermaster’s recycled water activities, the Regional Board requested Watermaster and IEUA to develop a surface water monitoring program to characterize conditions along Chino Creek (Chino Creek Monitoring Program).

During FY 2022/23, Watermaster and IEUA collaborated with Regional Board staff to develop the Chino Creek Monitoring Program Work Plan and the Quality Assurance Project Plan (QAPP) that will satisfy the requirements of the California Clean Water Act Section 303 (d) List (Listing Policy) for Chino Creek. The QAPP and the work plan were submitted to the Regional Board in July 2024. The Chino Creek Monitoring Program includes: monthly surface water quality monitoring, annual data review and upload to California Environmental Data Exchange Network (CEDEN), and in-depth assessment of monitoring data and evaluation if ongoing monitoring is needed following the completion of 3-year monitoring period. Watermaster and IEUA have been implementing the work plan since August 2024. Watermaster and IEUA will continue to implement the work plan in FY 2026/27 to complete the 3-year of monitoring period. In-depth data analysis will be performed in FY 2027/28.

**Scope of Work**

In FY 2026/27, West Yost will perform the following tasks in accordance with the Chino Creek Monitoring Program Workplan:

- Perform 12 monthly surface water sampling events at the recommended surface water sites.
- Coordinate with the IEUA operation and laboratory teams on sampling.

<sup>24</sup> This project includes 50% cost shared with IEUA.



- Perform quality assurance/quality control (QA/QC) check, compile, and process laboratory results into centralized project database.
- Review data and prepare figures to characterize surface water conditions.
- Upload surface water quality data to CEDEN annually.
- Conduct as-needed meetings with Watermaster, IEUA, Basin Monitoring Program Task Force, and the Regional Board on project status and sampling results.

### **Deliverables**

- Figures and text characterizing surface water quality conditions.

### **Cost Estimate for FY 2027/28**

- The Class 3 cost estimate<sup>25</sup> to continue this work over FY 2027/28 is about \$60,000.

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<sup>25</sup> Class 3 cost estimates have an expected accuracy of between -20% and +30% of the actual costs.



**7520 – PE6/7: COOPERATIVE EFFORTS/SALT MANAGEMENT**

**Water Quality Management Program**

	Cost Estimate <sup>26</sup>
Consultant Labor	\$39,000
Other Direct Costs	\$250
<b>Total</b>	<b>\$39,250</b>

**Rationale**

As part of the 2020 OBMPU, the stakeholders identified several management activities necessary to achieve the goals of the 2020 OBMPU. Two of the 2020 OBMPU activities address groundwater quality:

- Develop and implement a water-quality management plan to address current and future water quality issues and protect beneficial uses.”
- Develop strategic regulatory-compliance solutions that achieve multiple benefits in managing water quality.

The specific action defined to encapsulate these activities within the 2020 OBMPU was the development of a Water Quality Management Plan that addresses emerging contaminants to better prepare the parties for addressing compliance with new State and Federal drinking water regulations and provides for the long-term maximum beneficial use of the basin. It was identified that reconvening the Watermaster’s Water Quality Committee (WQC) would be the ideal approach to guide the development and implementation of such a management plan to guide the activities over the next several years.

In FY 2023/24 Watermaster reconvened the WQC and conducted three meetings. The first meeting was to educate participants on historical water quality activities performed by Watermaster pursuant to the 2000 OBMP, review the successes of the WQC’s past work, and obtain feedback from the stakeholders on the opportunity and proposed scope and objectives for developing a water quality management plan, including development of an Emerging Contaminants Monitoring Plan (ECMP). The other two WQC meetings were to develop the ECMP and obtain stakeholder feedback and review its methods.

Based on feedback received through the WQC, the concept of a water quality management plan was re-envisioned into a simpler, more adaptable Water Quality Management Program (WQMP) led by the WQC, following the approach used from 2003 to 2010 under Program Element 6 of the 2000 OBMP. As re-envisioned, the WQMP is an ongoing process where the focus of the work performed each year will be defined/refined based on stakeholder input received through the WQC. Under the WQMP, the WQC would meet up to address some or all the following objectives:

- Informing stakeholders on the available data and information on water quality in the Chino Basin
- Regularly educating and sharing information on potential future water quality regulations
- Implementing an ECMP to monitor and characterize contaminant occurrence in the Chino Basin where data is not available to assess potential impacts of regulations

<sup>26</sup> The \$39,250 will be funded entirely with carryover from FY 2025/26.



- Tracking available grant funding and loan opportunities to advance water quality programs and projects
- Identifying opportunities for multi-agency and/or multi-benefit projects
- Enhancing the ability to characterize potential impacts to the Chino Basin as a result of Parties' operational/management responses to water quality regulations (e.g., impacts to Safe Yield or recycled water recharge program)
- Conducting other activities of interest to the stakeholders to address water quality management or concerns.

In FY 2024/25, West Yost assisted Watermaster staff in coordinating and implementing the sampling for the ECMP. This involved Watermaster conducting sampling for a list of emerging contaminants during routine sampling at monitoring wells, and additional voluntary sampling by the Appropriators for some emerging contaminants. There were no WQC meetings in FY 2024/25 and FY 2025/26. The Watermaster may conduct two WQC meetings in FY 2026/27.

### **Scope of Work**

For FY 2026/27, West Yost will support Watermaster Staff in implementing the WQMP by supporting the WQC process. The work will include:

- Prepare for and conduct up to two meetings of the WQC, including preparing supporting materials, such as agendas, handouts, meeting summaries, etc. The specific meeting topics will be identified by the Watermaster according to the parties' needs.

### **Deliverables**

- Meeting agendas, handouts, presentations, and meeting summaries for the WQC meetings
- Maps characterizing the extent of emerging contaminants in the Basin



## 7614 – PE8/9: STORAGE MANAGEMENT/CONJUNCTIVE USE

### Support Implementation of the Safe Yield Court Order

	Task 1	Task 2	Total
Consultant Labor	\$118,679	\$102,548	\$221,227
Other Direct Costs	\$15,312	\$200	\$15,512
<b>Total</b>	<b>\$133,991</b>	<b>\$102,748</b>	<b>\$236,739</b>

### Rationale

The Safe Yield of the Chino Basin was recalculated in May 2020 pursuant to the methodology approved by the Court on April 28, 2017. The Court adopted a Safe Yield of 131,000 acre-feet per year for the period of fiscal year 2020/21 through 2029/30. The Court-approved methodology was outlined in a Court Order from April 28, 2017 (2017 Court Order). The Court Order also included requirements for (1) annual data collection and evaluation, (2) a reevaluation of the current Safe Yield by June 30, 2025 (the 2025 Safe Yield Reevaluation, or 2025 SYR), and (3) peer review to support these efforts.

West Yost began the work to implement the 2017 Court Order in fiscal year 2021/22.<sup>27</sup> This work included updating the Safe Yield Reset methodology, developing annual data collection and evaluation reports covering the periods through FY 2024/25, and completing the 2025 SYR.

### Scope of Work

The work required in FY 2025/26 will include the annual data collection and evaluation, supporting the implementation of the 2025 Safe Yield Reevaluation, and facilitating the associated peer review. This scope is broken down into the following tasks:

- **Task 1 – Annual data collection and evaluation.** Pursuant to pages 16 and 17 of the Court Order, Task 1 includes collecting data from the parties and other sources and analyzing the data in the context of West Yost’s groundwater modeling. Data collection will begin in July 2026 for fiscal year 2025/26. The scope of Task 1 assumes the following:
  - Existing data collection efforts (e.g., groundwater pumping measurements) will be collected via other Watermaster efforts and are not included in this scope.
  - Annual land use surveying will be completed by Land IQ, the subcontractor that has been preparing annual land use surveys in the Chino Basin for the past several years to support the annual data collection and agricultural production estimation.
  - West Yost will review the 2025 Urban Water Management Plans (UWMPs) for the major Appropriative Pool Parties and wholesale agencies and conduct outreach with these agencies to interpret projected water demands. This information will be used to develop revised projections of water use patterns for comparison with the 2025 SYR projection scenarios.
  - West Yost will develop exhibits to compare the collected data to previous historical and modeling data as necessary to document the data collection in an annual report and present the data to the peer review committee.

<sup>27</sup> All deliverables for the implementation of the 2017 Court Order can be found on Watermaster’s website here: [Chino Basin Watermaster - 2017 Safe Yield Court Order Implementation](#)



- West Yost will prepare a draft and final data collection report. The draft report will be reviewed with the Peer Review committee, comments will be incorporated, and the final report will be submitted to the Court no later than June 30, 2027.
- **Task 2 – Support Implementation of the 2025 Safe Yield Reevaluation.** Following the submittal of the 2025 SYR Report, Watermaster will require support to implement any of the findings of the 2025 SYR and respond to requests from the parties. The scope is anticipated to include:
  - Support for Court motions that may result from the 2025 SYR, including additional documentation (e.g., Court declarations) or Court appearances.
  - Additional simulations of the groundwater model or additional analysis of groundwater model results to respond to party or Watermaster staff requests.
  - Preparation of exhibits, presentation materials, and support to conduct workshops.

The specific scope of any support for implementation of the 2025 SYR will be defined and agreed upon with Watermaster staff prior to the execution of the scope.

## **Deliverables**

West Yost’s primary deliverables will be the following draft technical memoranda/reports:

- A draft and final report documenting the data collection process and the data collected through FY 2025/26.
- West Yost will prepare other deliverables as needed to support the technical workshops and meetings in Tasks 1 and 2.



## 7615 – PE8/9: STORAGE MANAGEMENT/CONJUNCTIVE USE

### Develop 2027 Storage Management Plan

	Cost Estimate
Consultant Labor	\$165,880
Other Direct Costs	\$200
<b>Total</b>	<b>\$166,080</b>

### Rationale

The 1978 Judgment established a Watermaster to administer the decree under the Court’s continuing jurisdiction and empowered it to manage and control the Basin’s available storage capacity and to enter into agreements for the storage of water. As a prerequisite to implementing the Optimum Basin Management Program (OBMP), the Parties executed the Peace Agreement, providing direction and guidance to Watermaster on how storage should be prioritized and managed. The OBMP addresses the management of groundwater pumping, recharge, storage and recovery, and the transfer of water.

The original OBMP included plans for storage management and conjunctive-use activities, including groundwater pumping, recharge, storage and recovery, and the transfer of water. As part of the 2020 OBMP Update (2020 OBMPU), Watermaster reviewed and refined the original storage management planning work and developed the 2020 Storage Management Plan (SMP). The 2020 SMP describes the existing and projected uses of storage by the Parties, agencies engaged in Storage and Recovery Programs, the need for recharge capacity to satisfy replenishment obligations, the Parties’ storage management activities, guidance for Storage and Recovery Programs, and the storage agreement application process.

The SMP is required to be reviewed and updated (1) at least every five years, (2) when the Safe Yield is recalculated, or (3) when Watermaster determines that a review is warranted based on new information or the needs of the Parties or the Basin. Because the 2020 SMP was completed in October 2020, it was originally scheduled for update in 2025. However, the delay in the Safe Yield Reevaluation, the results of which inform the SMP, has shifted the initiation of the SMP update to FY 2025/26, with completion anticipated in FY 2026/27.

In parallel with the SMP update, the 2020 OBMPU identified several management activities necessary to achieve the goals of the OBMPU. Activity B under Program Element 9 is to develop, implement, and optimize Storage and Recovery Programs to increase water supply reliability, protect or enhance Safe Yield, and improve water quality. Exhibit 7 of the 2020 OBMPU outlined a multi-year process for advancing this activity:

1. Convene the Storage and Recovery Program Committee (Committee), define objectives, and refine scope of work.
2. Develop conceptual alternatives for Storage and Recovery Programs at various scales.
3. Describe and evaluate reconnaissance-level facility plans and costs for Storage and Recovery Program alternatives.
4. Prepare a *Storage and Recovery Master Framework (SRMF)*.

Watermaster staff initiated Step 1 in FY 2023/24 by convening the Committee and conducting a kickoff meeting to discuss objectives and potential program concepts. This effort was paused in FY 2024/25 to allow the completion of the 2025 Safe Yield Reevaluation.



The SMP update provides an opportunity to reintegrate and advance the SRMF effort, ensuring that the updated storage management policies, projected storage demands, and future Storage and Recovery Programs are evaluated within a consistent planning framework.

## Scope of Work

The work in FY 2026/27 will continue development of the updated SMP using the latest planning information, technical understanding, and policy guidance regarding the use and management of storage in the Basin, including the results of the 2025 Safe Yield Reevaluation.

The SMP update will include stakeholder engagement and technical evaluation to assess current and projected storage use, recharge capacity needs, and storage management policies. This effort will include three workshops with the Parties to:

- Review the regulatory and technical requirements of the SMP update.
- Present and discuss updated storage projections and planning assumptions.
- Review the draft SMP and gather feedback from the Parties.

Consistent with the objectives of the 2020 OBMPU Activity B, the SMP update will also incorporate planning activities related to the development of the Storage and Recovery Master Framework (SRMF). The SRMF will provide a strategic planning framework for evaluating future Storage and Recovery Programs, including potential program concepts, infrastructure needs, operational considerations, and implementation pathways.

As part of this effort, West Yost will work with Watermaster staff and the Parties to define the next phase of work for the SRMF. This will include:

- Preparing and conducting one Storage and Recovery Program Committee meeting to review the outcomes and conclusions of the 2023 Committee kickoff meeting.
- Confirming objectives and priorities for advancing the SRMF.
- Developing a detailed scope of work and budget for Steps 2 through 4 of the SRMF process, including development of program alternatives, evaluation of reconnaissance-level facility concepts and costs, and preparation of the SRMF.

The resulting scope and budget for the SRMF will be presented through the Watermaster process for review and approval and will guide future work to support the implementation of Storage and Recovery Programs consistent with the updated SMP.

## Deliverables

West Yost's deliverables will include a draft and final version of the SMP, as well as presentation materials to support the workshops.

Table 1: Cost Estimates for Watermaster Engineering Services -- FY 2026/27

Watermaster		Notes	Task	Total Labor			Other Direct Costs			Expected Total Carryover from 2025/26	Total Engineering Cost Estimate 2026/27	IEUA Cost Share & IEUA Carryover from 2025/26	Watermaster Engineering Cost Estimate 2026/27	Expected Watermaster Carryover from 2025/26	Proposed Watermaster Budget for Engineering Services 2026/27			
Account	Group			Person Days	Cost			Task	Project						Account	Task	Project	Account
					Task	Project	Account											
<b>General Optimum Basin Management Program/Judgment Administration</b>																		
<b>General E 6906 OBMP Engineering</b>																		
8306, 8506, 8406, 6206, 6306	General	f	Pool, Advisory, Watermaster Meetings	44.0	\$114,448				\$2,387			\$116,835					\$116,835	
5901.8, 6901.8	General	f	Other General Meetings as Requested	30.0	\$78,416				\$1,909			\$80,325					\$80,325	
5935	General	abcC	Material Physical Injury Requests	16.0	\$36,096							\$36,096					\$36,096	
5906.71	General	f	Miscellaneous Data Requests - GM/Watermaster Staff	50.0	\$112,352				\$300			\$112,652					\$112,652	
5906.72	General	f	Miscellaneous Data Requests - Non CBWM Staff/RFI	25.3	\$58,316							\$58,316					\$58,316	
6901.95	General	e	SGMA Reporting Requirement for WC Section 10720.8 (f)	11.8	\$24,858							\$24,858					\$24,858	
6906	General	f	Project Management	29.3	\$67,966							\$67,966					\$67,966	
6906.1	General	bdC	Watermaster Model Application and Required Demonstrations	41.5	\$88,388							\$88,388					\$88,388	
5945	General	eJ	Assist Watermaster in Preparing the 49th Annual Report	8.0	\$18,334							\$18,334					\$18,334	
6906.21	General		2026 State of the Basin Report	84.3	\$169,740							\$169,740					\$169,740	
<b>Program Element 1: Comprehensive Monitoring Program</b>																		
<b>7502 and 7505 Groundwater and Surface Water Quality Monitoring</b>																		
7502	PE1/GWQMP	abcd	GWQMP: KEY	5.3	\$11,398							\$11,398					\$11,398	
7502	PE1/GWQMP	abcd	GWQMP: FIELD-as needed field support	14.5	\$22,230				\$2,580			\$24,810					\$24,810	
7505	PE1/GWQMP	abcd	GWQMP: LAB	0.0					\$21,400			\$21,400					\$21,400	
7502	PE1/GWQMP	abcd	GWQMP: DB-Field-Lab	7.0	\$12,528							\$12,528					\$12,528	
7502	PE1/GWQMP	abcd	GWQMP: DB-CBDC	67.0	\$119,848							\$119,848					\$119,848	
7502	PE1/HCMP	Ccd	HCMP: GWQ/SWQ - SARWC/NAWQA/SAR	17.5	\$27,752				\$3,440			\$31,192					\$31,192	
7505	PE1/HCMP	Ccd	HCMP: GWQ/SWQ - SARWC/NAWQA/SAR - LAB	0.0					\$8,200			\$8,200					\$8,200	
7502	PE1/HCMP	Ccd	HCMP: GWQ HCMP MWS	14.5	\$22,538				\$3,180			\$25,718					\$25,718	
7505	PE1/HCMP	Ccd	HCMP: GWQ HCMP MWS - LAB	0.0					\$12,500			\$12,500					\$12,500	
7502	PE1/RWGRP	ce	PBHSP: SWQMP	3.3	\$6,240				\$200			\$6,440					\$6,440	
<b>7104.3 Groundwater Level Monitoring Program</b>																		
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: SCHED	3.3	\$7,032							\$7,032					\$7,032	
7104.3	PE1/GWLMP	abcd	GWLMP: KEY	3.0	\$5,748							\$5,748					\$5,748	
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: FIELD	42.0	\$62,382				\$5,300			\$67,682					\$67,682	
7104.3	PE1/GWLMP	abcd	GWLMP: HCMP/GWR/MZ1/MZ3/MWL: DB-WL	40.5	\$70,356							\$70,356					\$70,356	
7104.3	PE1/GWLMP	abcd	GWLMP: DB-CBDC	42.5	\$73,564							\$73,564					\$73,564	
7104.3	PE1/GWLMP	e	CASGEM Reporting	5.1	\$8,736							\$8,736					\$8,736	
7104.8	PE1/GWLMP	abcd	GWLMP: Contract Services	5.5	\$9,168				\$32,000			\$41,168					\$41,168	
7104.9	PE1/GWLMP	abcd	GWLMP: Capital Equipment (Transducers)						\$19,000			\$19,000					\$19,000	
7104.3	PE4/MZ-1	abC	GWLMP: Northwest MZ-1 Area: GWLMP	16.0	\$26,560				\$2,685			\$29,245					\$29,245	
7104.3	PE1/RWGRP	ce	GWLMP: PBHSP	20.8	\$35,818				\$1,200			\$37,018					\$37,018	
<b>7402 MZ-1 Ground Level Monitoring Program</b>																		
<b>Subtask 1 - Setup and Maintenance of the Monitoring Network</b>																		
7402	PE1/GLMP	abC	MZ1-GLMP: Setup and Maintenance of Monitoring Network	21	\$32,010				\$2,890			\$34,900					\$34,900	
7408	PE1/GLMP	abC	MZ1-GLMP: Setup and Maintenance of Monitoring Network - Equipment	6.0	\$11,696				\$8,026			\$19,722					\$19,722	
<b>Subtask 2 - MZ-1: Aquifer-System Monitoring and Testing</b>																		
7402	PE1/GLMP	abC	MZ1-GLMP: Aquifer System Monitoring and Testing	22.0	\$35,556				\$1,740			\$37,296					\$37,296	
<b>Subtask 3 - Basin-Wide: InSAR</b>																		
7402	PE1/GLMP	abC	BW-GLMP: InSAR	30.0	\$73,304							\$73,304					\$73,304	
7403	PE1/GLMP	abC	BW-GLMP: InSAR - Outside Pro						\$17,600			\$17,600					\$17,600	
<b>Subtask 4 - Ground-Level Surveys</b>																		
7402	PE1/GLMP	abC	MZ1-GLMP: Ground Level Surveys	7.5	\$14,152							\$14,152					\$14,152	
7406	PE1/GLMP	abC	MZ1-GLMP: Ground Level Surveys - Outside Pro						\$31,140			\$31,140					\$31,140	
<b>7302 Prado Basin Habitat Monitoring, Data Analysis and Reporting - 50% IEUA Cost Share</b>																		
7302	PE1/RWGRP	ce	PBHSP - Vegetation Monitoring Program	13.3	\$28,042							\$28,042					\$28,042	
7306	PE1/RWGRP	ce	PBHSP - Vegetation Monitoring Program - Outside Pro						\$13,500			\$13,500					\$13,500	
7302	PE1/RWGRP	ce	PBHSP - Climate Monitoring Program	1.6	\$3,999							\$3,999					\$3,999	
7302	PE1/RWGRP	ce	PBHSP - Prepare Annual Report	46.3	\$95,706				\$120			\$95,826					\$95,826	
7302	PE1/RWGRP	ce	PBHSP - Meetings and Project Administration	10.5	\$25,114				\$120			\$25,234					\$25,234	
<b>7202 Recharge and Well Monitoring Program: Pursuant to the Groundwater Recharge Permit and Maximum Benefit</b>																		
7202	PE1/RWGRP	e	RWGRP: Review Documents for Chino Basin Recycled Water GW Recharge Program	10.3	\$24,090							\$24,090					\$24,090	

Table 1: Cost Estimates for Watermaster Engineering Services -- FY 2026/27

Watermaster		Notes	Task	Total Labor			Other Direct Costs			Expected Total Carryover from 2025/26	Total Engineering Cost Estimate 2026/27	IEUA Cost Share & IEUA Carryover from 2025/26	Watermaster Engineering Cost Estimate 2026/27	Expected Watermaster Carryover from 2025/26	Proposed Watermaster Budget for Engineering Services 2026/27			
Account	Group			Person Days	Cost			Task	Project						Account	Task	Project	Account
					Task	Project	Account											
<b>5965 Support for Implementation of Improved Data Collection and Management Process</b>					\$27,626				\$0	\$0	\$27,626	\$0	\$27,626	\$0		\$27,626		
5965	General	f	Support for Improved Data Collection and Visualization Tools	14.5	\$27,626						\$27,626	\$0	\$27,626	\$0		\$27,626		
<b>7200 Program Element 2: Comprehensive Recharge Program</b>					\$557,888				\$1,114	\$0	\$559,002	\$0	\$559,002	\$0		\$559,002		
<b>7202 Engineering Services</b>					\$557,888				\$1,114	\$0	\$559,002	\$0	\$559,002	\$0		\$559,002		
6901.95	PE2		SWRCB and CDFW Water Rights Reporting	19.5	\$42,452						\$42,452	\$0	\$42,452	\$0		\$42,452		
7202.2	PE2	abcdC	RIPComm & GRCC Meetings & As-Requested Analyses	32.5	\$73,528		\$636				\$74,164	\$0	\$74,164	\$0		\$74,164		
7202.2	PE2	abcdC	2013 & 2023 RMPU Implementation	44.5	\$103,076						\$103,076	\$0	\$103,076	\$0		\$103,076		
7202.2	PE2	abcdC	2028 Recharge Master Plan Update	153.0	\$338,832		\$477				\$339,309	\$0	\$339,309	\$0		\$339,309		
<b>7300 Program Elements 3 &amp; 5: Water Supply Plan - Desalters</b>					\$21,760				\$0	\$0	\$21,760	\$0	\$21,760	\$0		\$21,760		
<b>7303 Engineering Services</b>					\$21,760				\$0	\$0	\$21,760	\$0	\$21,760	\$0		\$21,760		
7303	PE3-5	f	PE3-5: Engineering Support for Desalters	9.0	\$21,760						\$21,760	\$0	\$21,760	\$0		\$21,760		
<b>7400 Program Element 4: Mgmt Zone Strategies</b>					\$233,554				\$364	\$0	\$233,918	\$0	\$233,918	\$0		\$233,918		
<b>7402 Engineering Services</b>					\$233,554				\$364	\$0	\$233,918	\$0	\$233,918	\$0		\$233,918		
<b>Subtask 5 - Data Analyses and Reports</b>											\$72,012	\$0	\$72,012	\$0		\$72,012		
7402	PE4/MZ-1	abC	PE4/MZ-1: Data Analyses and Reports	36.5	\$72,012						\$72,012	\$0	\$72,012	\$0		\$72,012		
<b>Subtask 6 - Develop a Subsidence Management Plan for Northwest MZ-1</b>											\$107,696	\$0	\$107,696	\$0		\$107,696		
7402.1	PE4/MZ-1	abC	Aquifer-System Monitoring	4.0	\$7,104						\$7,104	\$0	\$7,104	\$0		\$7,104		
7402.1	PE4/MZ-1	abC	Refine and Evaluate Subsidence-Management Alternatives	45.0	\$100,592						\$100,592	\$0	\$100,592	\$0		\$100,592		
<b>Subtask 7 - Meetings and Administration</b>											\$54,210	\$0	\$54,210	\$0		\$54,210		
7402	PE4/MZ-1	abC	PE4/MZ-1: Meetings and Administration	24.3	\$53,846		\$364				\$54,210	\$0	\$54,210	\$0		\$54,210		
<b>7500 Program Elements 6 &amp; 7: Coop Efforts/Salt Mgmt</b>					\$393,580				\$9,421	\$39,250	\$442,251	\$118,674	\$284,326	\$39,250		\$284,326		
<b>7502 Engineering Services</b>					\$280,622				\$1,700	\$0	\$282,322	\$75,130	\$207,192	\$0		\$207,192		
7502	PE6-7	abC	PE6: Analysis of Chino Basin Contaminant Plumes	29.5	\$54,168		\$200				\$54,368	\$0	\$54,368	\$0		\$54,368		
7502	PE6-7	Ccd	PE7: Maximum Benefit Annual Report	23.5	\$44,896						\$44,896	\$0	\$44,896	\$0		\$44,896		
7502	PE6-7	de	PE7: Finalize the Updated Chino Basin Maximum Benefit Monitoring Work Plan	7.0	\$15,216						\$15,216	\$0	\$15,216	\$0		\$15,216		
7502.2	PE6-7	de	PE7: Finalize Water Quality Improvements Work Plan and Implement Efforts to Project Basin-Wide TDS and Nitrate - 50% IEUA Cost Share	63.0	\$150,260						\$150,260	\$75,130	\$75,130	\$0		\$75,130		
7502	PE6-7	abC	As needed support for implementation of PE 6/7	7.0	\$16,082		\$1,500				\$17,582	\$0	\$17,582	\$0		\$17,582		
<b>7510 Update IEUA's Recycled Water Permit/Maximum Benefit Salinity Management Plan</b>					\$15,525				\$3,600	\$0	\$19,125	\$9,562	\$9,562	\$0		\$9,562		
7510	PE6-7	df	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - 50% IEUA Cost Share	7.1	\$15,525		\$3,600				\$19,125	\$9,562	\$9,562	\$0		\$9,562		
<b>7511 Support Watermaster in Participation and Review of Santa Ana Watershed Basin Monitoring Program Task Force</b>					\$33,010				\$581	\$0	\$33,590	\$0	\$33,590	\$0		\$33,590		
7511	PE6-7	df	As requested services to support Watermaster in its participation in and review of work performed by the Santa Ana Watershed Basin Monitoring Program Task Force	13.8	\$33,010		\$581				\$33,590	\$0	\$33,590	\$0		\$33,590		
<b>7517 Prepare Monitoring Work Plan for Chino Creek</b>					\$64,423				\$3,540	\$0	\$67,963	\$33,982	\$33,982	\$0		\$33,982		
7517	PE6-7	de	Implementation of Chino Creek Monitoring Program - 50% IEUA Cost Share	37.9	\$64,423		\$3,540				\$67,963	\$33,982	\$33,982	\$0		\$33,982		
<b>7520 Preparation of Water Quality Management Plan</b>					\$0				\$0	\$39,250	\$39,250	\$0	\$0	\$39,250		\$0		
7520	PE6-7	a	Water Quality Management Program							\$39,250	\$39,250	\$0	\$0	\$39,250		\$0		
<b>7600 Program Elements 8 &amp; 9: Storage Mgmt/Conj Use</b>					\$387,107				\$15,712	\$0	\$402,819	\$0	\$402,819	\$0		\$402,819		
<b>7602 Engineering Services</b>					\$387,107				\$15,712	\$0	\$402,819	\$0	\$402,819	\$0		\$402,819		
7614	PE8-9	beC	Support Implementation of the Safe Yield Court Order	100.9	\$221,227		\$15,512				\$236,739	\$0	\$236,739	\$0		\$236,739		
7615	PE8-9	abJ	Develop 2027 Storage Management Plan	72.0	\$165,880		\$200				\$166,080	\$0	\$166,080	\$0		\$166,080		
<b>Totals</b>				<b>1,560</b>	<b>\$3,255,995</b>	<b>\$3,255,995</b>	<b>\$3,255,995</b>	<b>\$218,027</b>	<b>\$218,027</b>	<b>\$218,027</b>	<b>\$39,250</b>	<b>\$3,513,272</b>	<b>\$201,975</b>	<b>\$3,272,047</b>	<b>\$39,250</b>	<b>\$3,272,047</b>	<b>\$3,272,047</b>	<b>\$3,272,047</b>

- Notes:**  
 Work mandated by:  
 a OBMP & Peace Agreement  
 b OBMP Implementation Plan  
 c Peace II  
 d Water Quality Control Plan for the Santa Ana River Basin (Basin Plan)  
 e Other Regulatory Compliance  
 f Watermaster staff request  
 g New scope item related to Watermaster Process and Testimony at Court if required  
 C Court Order  
 J Judgment



**Table 2: Comparison of Watermaster Engineering Costs  
FY 2026/27 versus FY 2025/26**

FY 2026/27 Account No(s).	Task	Watermaster Engineering Cost Estimate FY 26/27 <sup>1</sup>	Watermaster Engineering Cost Estimate FY 25/26 <sup>2</sup>	Net Change
<b>General Optimum Basin Management Program/Judgment Administration</b>		<b>\$773,510</b>	<b>\$573,474</b>	<b>\$200,036</b>
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	\$116,835	\$113,121	\$3,713
6901.8, 5901.8	Other General Meetings as Requested	\$80,325	\$77,818	\$2,507
5935	Material Physical Injury Requests	\$36,096	\$41,668	(\$5,572)
5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	\$112,652	\$109,124	\$3,528
5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$58,316	\$56,483	\$1,833
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	\$24,858	\$24,068	\$790
6906	Project Management	\$67,966	\$65,810	\$2,156
6906.1	Watermaster Model Application and Required Demonstrations	\$88,388	\$67,619	\$20,769
5945	Assist Watermaster in Preparing the 49th Annual Report	\$18,334	\$17,762	\$572
6906.21	2026 State of the Basin Report	\$169,740	\$0	\$169,740
<b>7100 Program Element 1: Comprehensive Monitoring Program</b>		<b>\$996,713</b>	<b>\$1,099,729</b>	<b>(\$103,017)</b>
7502, 7505	Groundwater Quality Monitoring Program	\$274,034	\$276,552	(\$2,518)
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	\$359,549	\$338,722	\$20,827
7402, 7403, 7406, 7408	Ground Level Monitoring Program	\$228,114	\$261,834	(\$33,721)
7302, 7306	PBHSP - Monitoring Program- IEUA Cost Share	\$83,301	\$135,633	(\$52,333)
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	\$24,090	\$23,350	\$740
5925	Agricultural Production Estimation	\$0	\$36,336	(\$36,336)
5965	Support for Improved Data Collection and Visualization Tools	\$27,626	\$27,302	\$324
<b>7200 Program Element 2: Comprehensive Recharge Program</b>		<b>\$559,002</b>	<b>\$279,260</b>	<b>\$279,742</b>
6901.95	SWRCB and CDFW Water Rights Reporting	\$42,452	\$42,764	(\$312)
7202.2	PE2: Comprehensive Recharge Program	\$177,240	\$236,496	(\$59,256)
7202.2	2028 Recharge Master Plan Update	\$339,309	\$0	\$339,309
<b>7300 Program Elements 3 &amp; 5: Water Supply Plan - Desalter</b>		<b>\$21,760</b>	<b>\$21,080</b>	<b>\$680</b>
7303	PE3-5: Engineering Support for Desalters	\$21,760	\$21,080	\$680
<b>7400 Program Element 4: Management Zone Strategies</b>		<b>\$233,918</b>	<b>\$436,725</b>	<b>(\$202,807)</b>
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	\$126,222	\$142,559	(\$16,337)
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	\$107,696	\$294,166	(\$186,470)
<b>7500 Program Elements 6 &amp; 7: Cooperative Efforts/Salt Management</b>		<b>\$284,326</b>	<b>\$322,048</b>	<b>(\$37,722)</b>
7502, 7502.2	PE6-7: Consulting Services for Water Quality under PE 6/7	\$207,192	\$206,820	\$372
7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - 50% IEUA Cost Share	\$9,562	\$9,522	\$40
7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	\$33,590	\$28,022	\$5,568
7517	Implementation of Chino Creek Monitoring Program - 50% IEUA Cost Share	\$33,982	\$38,434	(\$4,452)
7520	Water Quality Management Program	\$0	\$39,250	(\$39,250)
<b>7600 Program Elements 8 &amp; 9: Storage Management/Conjunctive Use</b>		<b>\$402,819</b>	<b>\$711,089</b>	<b>(\$308,270)</b>
7610	Develop Storage and Recovery Master Framework	\$0	\$21,720	(\$21,720)
7614	Support Implementation of the Safe Yield Court Order	\$236,739	\$551,553	(\$314,814)
7615	Develop 2027 Storage Management Plan	\$166,080	\$137,816	\$28,264
<b>Totals</b>		<b>\$3,272,047</b>	<b>\$3,443,405</b>	<b>(\$171,357)</b>

**Notes:**

<sup>1</sup> Total engineering cost estimate (\$3,513,272) minus estimated IEUA cost-share contribution (\$201,975) from Table 1

<sup>2</sup> Total engineering cost estimate (\$3,618,518.50) minus estimated IEUA cost-share contribution (\$175,114)

**Table 3: Variance Explanations for Engineering Costs**  
**FY 2026/27 versus FY 2025/26**

FY 2026/27 Account No(s).	Task	Change from FY 25/26	Variance Explanation
<b>General Optimum Basin Management Program/Judgment Administration</b>		<b>\$200,036</b>	
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	\$3,713	
6901.8, 5901.8	Other General Meetings as Requested	\$2,507	
5935	Material Physical Injury Requests	(\$5,572)	
5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	\$3,528	
5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$1,833	
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	\$790	
6906	Project Management	\$2,156	
6906.1	Watermaster Model Application and Required Demonstrations	\$20,769	The increase in cost compared to FY 2025/26 is due to the addition of the study for supplemental water recharge in MZ-1 (Peace II Agreement Section 8.4[e]) and the addition of FY 2025/26 to the historical period being modeled.
5945	Assist Watermaster in Preparing the 49th Annual Report	\$572	
6906.21	2026 State of the Basin Report	\$169,740	This is a biennial task that is to be completed in FY 2026/27.
<b>7100 Program Element 1: Comprehensive Monitoring Program</b>		<b>(\$103,017)</b>	
7502, 7505	Groundwater Quality Monitoring Program	(\$2,518)	
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	\$20,827	Increased cost due to budget added to hire outside contractors to perform rehab of an old well to convert it for monitoring water quality and water levels to fill a data gap required by the Regional Board.
7402, 7403, 7406, 7408	Ground Level Monitoring Program	(\$33,721)	Cost decrease compared to FY 2025/26 is primarily due to recommending GPS surveys instead of traditional benchmark leveling surveys. Additional savings result from final payoff for the GAMMA software to process InSAR data.
7302, 7306	PBHSP - Monitoring Program- IEUA Cost Share	(\$52,333)	The decrease in cost in FY 2026/27 is due to the triennial field vegetation surveys not being performed this year.
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	\$740	
5925	Agricultural Production Estimation	(\$36,336)	This task was completed in FY 2025/26.
5965	Support for Improved Data Collection and Visualization Tools	\$324	
<b>7200 Program Element 2: Comprehensive Recharge Program</b>		<b>\$279,742</b>	
6901.95	SWRCB and CDFW Water Rights Reporting	(\$312)	
7202.2	PE2: Comprehensive Recharge Program	(\$59,256)	The scope of work excludes the one-time Turner Basin analysis completed in FY2025/26 and the collection of MS4 data.
7202.2	2028 Recharge Master Plan Update	\$339,309	The Recharge Master Plan Update (RMPU) is due to the Court every five years. This budget assumes that the 2028 RMPU will evaluate new recharge projects
<b>7300 Program Elements 3 &amp; 5: Water Supply Plan - Desalter</b>		<b>\$680</b>	
7303	PE3-5: Engineering Support for Desalters	\$680	
<b>7400 Program Element 4: Mgmt Zone Strategies</b>		<b>(\$202,807)</b>	
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	(\$16,337)	The cost decrease compared to FY 2025/26 is primarily due to the completion of the Whispering Lakes Subsidence Study.
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	(\$186,470)	The cost decrease compared to FY 2025/26 is primarily due to completion of the PX refurbishment and the construction and calibration of the additional 1D compaction models.
<b>7500 Program Elements 6 &amp; 7: Coop Efforts/Salt Mgmt</b>		<b>(\$37,722)</b>	
7502	PE6-7: Consulting Services for Water Quality under PE 6/7	\$372	

**Table 3: Variance Explanations for Engineering Costs**  
**FY 2026/27 versus FY 2025/26**

FY 2026/27 Account No(s).	Task	Change from FY 25/26	Variance Explanation
7510	Update IEUA's Recycled Water Permits/Maximum Benefit Salinity Management Plan for the Chino Basin - 50% IEUA Cost Share	\$40	
7511	As Requested Services to Review of Work Performed by Santa Ana Watershed BMPTF	\$5,568	
7517	Implementation of Chino Creek Monitoring Program - 50% IEUA Cost Share	(\$4,452)	
7520	Water Quality Management Program	(\$39,250)	No work was initiated in FY 2025/26, and the remaining budget will carry over to FY 2026/27. The timing of WQC meetings and WQMP scope will be determined by Watermaster as-needed.
<b>7600 Program Elements 8 &amp; 9: Storage Mgmt/Conj Use</b>		<b>(\$308,270)</b>	
7610	Develop Storage and Recovery Master Framework	(\$21,720)	The scope in FY 2026/27 has been combined with Task 7615.
7614	Support Implementation of the Safe Yield Court Order	(\$314,814)	The 2025 Safe Yield Reevaluation was completed in FY 2025/26.
7615	Develop 2027 Storage Management Plan	\$28,264	The scope in FY 2026/27 is greater than the prior year because the majority of the work to complete the 2027 Storage Management Plan will take place in FY 2026/27 and will include initiating the Storage and Recovery Master Framework.
<b>Total</b>		<b>(\$171,357)</b>	

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**Table 4: Engineering Cost Estimates by Expense Category\***  
**FY 2026/27 Account No(s).**

FY 2026/27 Account No(s).	Task	Total Engineering Cost Estimates	Expense Category						
			WY Labor Expense	WY Travel Expense	Equipment Rental	Repro Expense	Equipment Purchases	Lab Expense	Outside Pros
<b>General Optimum Basin Management Program/Judgment Administration</b>		<b>\$ 773,510</b>	<b>\$ 768,914</b>	<b>\$ 4,596</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
8306, 8506, 8406, 6206, 6306	Pool, Advisory, Watermaster Meetings	\$ 116,835	114,448	2,387	-	-	-	-	-
6901.8, 5901.8	Other General Meetings as Requested	\$ 80,325	78,416	1,909	-	-	-	-	-
5935	Material Physical Injury Requests, Other	\$ 36,096	36,096	-	-	-	-	-	-
6906.71, 5906.71	Miscellaneous Data Requests - GM/Watermaster Staff	\$ 112,652	112,352	300	-	-	-	-	-
6906.72, 5906.72	Miscellaneous Data Requests - Non CBWM Staff/RFI	\$ 58,316	58,316	-	-	-	-	-	-
6901.95	SGMA Reporting Requirement for WC Section 10720.8 (f)	\$ 24,858	24,858	-	-	-	-	-	-
6906	Project Management	\$ 67,966	67,966	-	-	-	-	-	-
6906.1	Watermaster Model Application and Required Demonstrations	\$ 88,388	88,388	-	-	-	-	-	-
5945	Assist Watermaster in Preparing the 49th Annual Report	\$ 18,334	18,334	-	-	-	-	-	-
6906.21	2026 State of the Basin Report	\$ 169,740	169,740	-	-	-	-	-	-
<b>7100 Program Element 1: Comprehensive Monitoring Program</b>		<b>\$ 1,080,013</b>	<b>\$ 893,192</b>	<b>\$ 14,155</b>	<b>\$ 9,480</b>	<b>\$ 1,596</b>	<b>\$ 25,250</b>	<b>\$ 42,100</b>	<b>\$ 94,240</b>
7502, 7505	Groundwater Quality Monitoring Program	\$ 274,034	222,534	3,240	6,160	-	-	42,100	-
7104.3, 7104.8, 7104.9	Groundwater Level Monitoring Program	\$ 359,549	299,364	7,235	1,950	-	19,000	-	32,000
7402, 7403, 7406, 7408	Ground Level Monitoring Program	\$ 228,114	166,718	3,440	1,370	1,596	6,250	-	48,740
7302, 7306	PBHSP - Monitoring Program- IEUA Cost Share	\$ 166,601	152,861	240	-	-	-	-	13,500
7202	Review Documents for Chino Basin Recycled Water GW Recharge Program	\$ 24,090	24,090	-	-	-	-	-	-
5965	Support for Improved Data Collection and Visualization Tools	\$ 27,626	27,626	-	-	-	-	-	-
<b>7200 Program Element 2: Comprehensive Recharge Program</b>		<b>\$ 559,002</b>	<b>\$ 557,888</b>	<b>\$ 1,114</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
6901.95	SWRCB and CDFW Water Rights Reporting	\$ 42,452	42,452	-	-	-	-	-	-
7202.2	PE2: Comprehensive Recharge Program	\$ 177,240	176,604	636	-	-	-	-	-
7202.2	2028 Recharge Master Plan Update	\$ 339,309	338,832	477	-	-	-	-	-
<b>7300 Program Elements 3 &amp; 5: Water Supply Plan - Desalter</b>		<b>\$ 21,760</b>	<b>\$ 21,760</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
7303	PE3-5: Engineering Support for Desalters	\$ 21,760	21,760	-	-	-	-	-	-
<b>7400 Program Element 4: Mgmt Zone Strategies</b>		<b>\$ 233,918</b>	<b>\$ 233,554</b>	<b>\$ 364</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
7402	PE4/MZ-1: Data Analyses, Reports, Meetings, and Administration	\$ 126,222	125,858	364	-	-	-	-	-
7402.1	PE4: Subsidence Management Plan for Northwest MZ-1	\$ 107,696	107,696	-	-	-	-	-	-
<b>7500 Program Elements 6 &amp; 7: Coop Efforts/Salt Mgmt</b>		<b>\$ 442,251</b>	<b>\$ 432,830</b>	<b>\$ 4,781</b>	<b>\$ 1,140</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,500</b>
7502	PE6-7: As-needed consulting for Plumes and Maximum Benefit Annual Reporting	\$ 282,322	280,622	1,700	-	-	-	-	-
7510	Update IEUA's Recycled Water Permit and Water Salinity MP - IEUA Cost Share	\$ 19,125	15,525	100	-	-	-	-	3,500
7511	As requested services to support Watermaster in its participation in and review of work performed by the Santa Ana Watershed Basin Monitoring Program Task Force	\$ 33,590	33,010	581	-	-	-	-	-
7517	Implementation of Chino Creek Monitoring Program - 50% IEUA Cost Share	\$ 67,963	64,423	2,400	1,140	-	-	-	-
7520	Water Quality Management Program	\$ 39,250	39,250	-	-	-	-	-	-
<b>7600 Program Elements 8 &amp; 9: Storage Mgmt/Conj Use</b>		<b>\$ 402,819</b>	<b>\$ 387,107</b>	<b>\$ 400</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,312</b>
7614	Support Implementation of the Safe Yield Court Order	\$ 236,739	221,227	200	-	-	-	-	15,312
7615	Develop 2027 Storage Management Plan	\$ 166,080	165,880	200	-	-	-	-	-
<b>Totals</b>		<b>\$ 3,513,272</b>	<b>\$ 3,295,245</b>	<b>\$ 25,409</b>	<b>\$ 10,620</b>	<b>\$ 1,596</b>	<b>\$ 25,250</b>	<b>\$ 42,100</b>	<b>\$ 113,052</b>

**Notes:**

\* Total engineering cost estimates include IEUA cost sharing contributions and Carryover