

FOX CANYON GROUNDWATER MANAGEMENT AGENCY

A STATE OF CALIFORNIA WATER AGENCY



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INTERIM EXECUTIVE OFFICER

Arne Anselm

October 23, 2024

Board of Directors
Fox Canyon Groundwater Management Agency
800 South Victoria Avenue
Ventura, CA 93009-1600

SUBJECT: Approve and Authorize the Interim Executive Officer to Execute a Professional Services Contract with Dudek to Prepare the Las Posas Valley Basin 2025 Optimization Yield Study – (New Item)

RECOMMENDATIONS: (1) Receive a presentation from Agency Staff; and (2) Approve and authorize the Interim Executive Officer to execute a professional services contract with Dudek for the development of the 2025 Basin Optimization Yield (BOY) Study for the Las Posas Valley Basin (LPVB).

BACKGROUND:

The Las Posas Adjudication Judgment (Judgment) requires that Watermaster shall, with Committee Consultation, prepare a Basin Optimization Yield Study which determines the Operating Yield for the Las Posas Valley Basin. This will be established for each Water Year for the period Water Year 2025 through Water Year 2029 (Judgment § 4.10). The 2025 Basin Optimization Yield will establish the Rampdown Rate for the period from Water Year 2025 through Water Year 2039, subject to modification as a result of the subsequent Basin Optimization Yield Study to be performed in 2030 and again in 2035 (Judgment § 4.10.1.4).

INTRODUCTION:

Watermaster referred a draft scope of work to prepare the Las Posas Valley Basin 2025 Basin Optimization Yield Study for Committee Consultation to the Las Posas Valley Technical Advisory Committee (TAC) as required by the Judgment. The TAC discussed the draft scope of work at their regularly scheduled meeting on August 27th of 2024. Watermaster Staff subsequently received a recommendation report from TAC noting several clarifications and recommendations for model scenario development in the draft scope of work.

DISCUSSION:

Watermaster Staff and Dudek have included all clarifications and recommendations from TAC in an updated scope of work (see attached Exhibit 24A).

The Dudek scope of work includes 7 tasks for calculating the BOY and Rampdown Rate using numeric groundwater flow models.

The tasks are as follows:

- 1.) Model Scenario Development
- 2.) East Las Posas Management Area (ELPMA) Numerical Modeling
- 3.) West Las Posas Management Area (WLPMA) Modeling Coordination
- 4.) Draft and Final Basin Optimization Yield Study Report
- 5.) Watermaster Response Reports
- 6.) Committee Meetings
- 7.) Project Management and Coordination

In total, the Dudek scope of work would cost a total of \$212,500.00.
Details of each task are outlined below:

Task 1 – Model Scenario Development

Dudek will use the project feasibility and implementation timelines in the draft Basin Optimization Plan to prepare a proposed suite of projects for inclusion in the BOY Study. As needed and appropriate, Dudek will coordinate with FCGMA and individual project proponents to define the project implementation details required for modeling, such as proposed in lieu and recycled water delivery recipients, conditions amenable to stormwater diversion along the Arroyo Las Posas, and timelines/conditions favorable for using Calleguas facilities for LPVB replenishment.

Task 1 Cost: \$7,555.00

Task 2 – ELPMA Numerical Modeling

2.1) Baseline Scenario:

Dudek will develop a baseline scenario that simulates groundwater conditions in the ELPMA through water year 2069.

2.2) Projects Scenario:

Dudek will develop a Projects scenario that integrates Basin Optimization Projects that are “practical, reasonable, and cost-effective to implement prior to 2040” and identified in the draft Basin Optimization Plan.

2.3) Alternative Pumping Scenarios and Rampdown Rate:

Dudek will perform up to three (3) additional scenarios to define a groundwater production rate that avoids undesirable results. For these scenarios, Dudek will uniformly reduce groundwater extractions across the ELPMA until undesirable results are avoided. These model runs will incorporate the same Basin Optimization Projects as the Projects scenario.

Task 2 Cost: \$55,010.00

Task 3 – WLPMA Modeling Coordination

Dudek has included scope and budget to attend up to five (5) coordination calls, develop up to five (5) pumping scenarios, and analyze up to five (5) sets of numerical model outputs provided by United Water Conservation District (UWCD) for incorporation into the BOY Study.

Task 3 Cost: \$14,420.00

Task 4 – Draft and Final Basin Optimization Yield Study

Dudek will prepare one (1) draft BOY Study and, pursuant to the Judgement, provide the draft to the PAC and TAC for review and comment. Dudek will, as appropriate and in consultation with

FCGMA, revise the draft BOY Study based on feedback from the PAC and TAC. The revised BOY Study will then be provided to Watermaster Board for review and discussion. Based on this feedback, a final BOY Study will be submitted to the Watermaster Board for approval.

Task 4 Cost: 43,320.00

Task 5 – Watermaster Recommendation Response Reports

Dudek has included time and budget to support the Watermaster Staff in the development of response reports for both the draft scope of work and BOY Study.

Task 5 Cost: \$34,950.00

Task 6 – Committee Meetings

Dudek has included time to prepare for and attend both in-person and virtual meetings to discuss the development of the BOY Study with the TAC and Watermaster Board. Under this task Dudek will prepare for and attend up to six (6) meetings.

Task 6 Cost: 33,715.00

Task 7 – Project Management

Dudek has included scope and budget for biweekly (every other week) coordination calls with FCGMA staff, and general project management activities.

Task 7 Cost: \$23,530.00

Total Contract Cost: \$212,500.00

ANTICIPATED SCHEDULE:

Task	Schedule
Task 1 Model Scenario Development	1/6/2025
Task 2 – ELPMA Modeling	-
Task 2.1 – Baseline Scenario	2/28/2025
Task 2.2 – Projects Scenario	2/28/2025
Task 2.3 – Alternative Pumping Scenarios and Ramp Down Rate	5/10/2025
Task 3 – WLPMA Model Coordination	5/10/2025
Task 4 – Draft and Final Basin Optimization Yield Study	6/2/2025 (Draft) 9/3/2025 (Final)
Task 5 – Watermaster Recommendation Reports	10/23/2024 to 8/27/2025
Task 6 – Committee Meetings	10/23/2024 to 9/24/2025
Task 7 – Project Management	10/23/2024 to 9/24/2025

CONCLUSION:

Staff recommends the Board approve and authorize the Interim Executive Officer to execute a Professional Services Contract with Dudek (attached as Exhibit 24B) to Prepare the Las Posas Valley Basin 2025 Basin Optimization Yield Study, for a total cost not-to-exceed \$212,500.00.

This letter has been reviewed by Agency Counsel. If you have any questions, please call me at (805) 654-3952.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Hampson', written in a cursive style.

Robert Hampson
Hydrologist

Attachments:

- Exhibit 24A - Dudek Scope of Work for the Basin Optimization Yield Study
- Exhibit 24B – Dudek Professional Services Contract and Exhibits A, B, and C