

AGENDA
WATER ISSUES COMMITTEE MEETING
WITH BOARD OF DIRECTORS *
ORANGE COUNTY WATER DISTRICT
18700 Ward Street, Fountain Valley, CA 92708
Wednesday, December 13, 2023 12:00 p.m., Boardroom

*The OCWD Water Issues Committee meeting is noticed as a joint meeting with the Board of Directors for the purpose of strict compliance with the Brown Act and it provides an opportunity for all Directors to hear presentations and participate in discussions. Directors receive no additional compensation or stipend as a result of simultaneously convening this meeting. Items recommended for approval at this meeting will be placed on the **December 20** Board meeting Agenda for approval.

This meeting will be held in person. As a convenience for the public, the meeting may also be accessed by Zoom Webinar and will be available by either computer or telephone audio as indicated below. Because this is an in-person meeting and the Zoom component is not required, but rather is being offered as a convenience, if there are any technical issues during the meeting, this meeting will continue and will not be suspended.

Computer Audio: Join the Zoom Webinar by clicking on the following link:
<https://ocwd.zoom.us/j/98592928069>

Webinar ID: 985 9292 8069

Telephone Audio: (213) 338 8477

Teleconference Sites:
10382 Bonnie Drive, Garden Grove
20 Civic Center Plaza, Room 813, Santa Ana
19 Cannery, Buena Park

* Members of the public may attend and participate at all locations.

PLEDGE OF ALLEGIANCE

ROLL CALL

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

RECOMMENDATION: Adopt resolution determining need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda (requires two-thirds vote of the Board members present, or, if less than two-thirds of the members are present, a unanimous vote of those members present.)

VISITOR PARTICIPATION

Time has been reserved at this point in the agenda for persons wishing to comment for up to three minutes to the Board of Directors on any item that is not listed on the agenda, but within the subject matter jurisdiction of the District. By law, the Board of Directors is prohibited from taking action on such public comments. As appropriate, matters raised in these public comments will be referred to District staff or placed on the agenda of an upcoming Board meeting.

At this time, members of the public may also offer public comment for up to three minutes on any item on the Consent Calendar. While members of the public may not remove an item from the Consent Calendar for separate discussion, a Director may do so at the request of a member of the public.

CONSENT CALENDAR (ITEMS NO. 1 – 6)

All matters on the Consent Calendar are to be approved by one motion, without separate discussion on these items, unless a Board member or District staff request that specific items be removed from the Consent Calendar for separate consideration.

1. MINUTES OF WATER ISSUES COMMITTEE MEETING HELD NOVEMBER 8, 2023

RECOMMENDATION: Approve minutes as presented

2. AMENDMENT NO. 3 TO AGREEMENT WITH ENGINEERING ANALYTICS, INC. FOR CONSULTING SERVICES FOR THE SOUTH BASIN REMEDIAL INVESTIGATION / FEASIBILITY STUDY (RI/FS)

RECOMMENDATION: Agendize for December 20 Board Meeting: Authorize issuance of Amendment No. 3 to Agreement No. 1428 with EA for an amount not to exceed \$50,000 to provide technical support for the South Basin CEQA evaluation

3. AMENDMENT NO. SIX TO AGREEMENT WITH JAMES PIKE FOR PRADO VIREO MONITORING

RECOMMENDATION: Agendize for December 20 Board meeting: Approve Amendment No. Six to Agreement No. 0637 with James Pike to extend the termination date to December 31, 2025, and increase the not-to-exceed reimbursement amount by \$142,000 over a two-year period

4. GWRS PIPELINE REPAIR WORK

RECOMMENDATION: Agendize for December 20 Board meeting: Authorize Amendment No. 2 to FD Thomas, Inc. contract in the amount of \$10,117 for additional repair work to the GWRS pipeline

5. AMENDMENT NO. 6 TO AGREEMENT NO. 1175 WITH INTERA, INC. FOR ADDITIONAL GROUNDWATER MODELING SERVICES REGARDING SUNSET GAP SEAWATER INTRUSION

RECOMMENDATION: Agendize for December 20 Board meeting: Authorize issuance of Amendment No. 6 to Agreement No. 1175 with Intera, Inc., in the amount of \$162,920 for additional groundwater modeling of the Sunset Gap area

6. APPOINTMENT OF JOHN KENNEDY TO SAWPA PROJECT COMMITTEE'S 22 AND 23

RECOMMENDATION: Agendize for December 20 Board meeting: Adopt resolution to appoint John Kennedy to Santa Ana Watershed Project Authority's Project Committees 22 and 23, effective January 27, 2024.

END OF CONSENT CALENDAR

INFORMATIONAL ITEM

7. UPDATE ON FIELD HEADQUARTERS ACTIVITIES IN PREPARATION FOR THE WINTER SEASON

**CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR
CONSIDERATION AT THE DECEMBER 20 BOARD MEETING**

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGER'S ANNOUNCEMENTS/REPORTS

ADJOURNMENT

WATER ISSUES COMMITTEE MEMBERS

Committee Members

Bruce Whitaker - Chair
Dina Nguyen - Vice Chair
Roger Yoh
Van Tran
Vacant

Alternates

Denis Bilodeau
Steve Sheldon
Natalie Meeks
Valerie Amezcua
Cathy Green

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted at the guard shack entrance and in the main lobby of the Orange County Water District, 18700 Ward Street, Fountain Valley, CA and on the OCWD website not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the District Secretary. Backup material for the Agenda is available at the District offices for public review and can be viewed online at the District's website: www.ocwd.com

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from the District Secretary at (714) 378-3234, by email at cfuller@ocwd.com by fax at (714) 378-3373. Notification 24 hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda, and can be reviewed at www.ocwd.com. Copies of these materials and other disclosable public records distributed to all or a majority of the members of the Board of Directors in connection with an open session agenda item are also on file with and available for inspection at the Office of the District Secretary, 18700 Ward Street, Fountain Valley, California, during regular business hours, 8:00 am to 5:00 pm, Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Orange County Water District office.

MINUTES OF BOARD OF DIRECTORS MEETING
WATER ISSUES COMMITTEE
ORANGE COUNTY WATER DISTRICT
November 8, 2023, @ 12:00 p.m.

Director Whitaker called the Water Issues Committee meeting to order at 12:00 p.m. in the District Boardroom. Public access was also provided via Zoom webinar. The Secretary called the roll and reported a quorum as follows:

Committee Members

Bruce Whitaker
Dina Nguyen (absent)
Roger Yoh
Van Tran
Kelly Rowe

OCWD

Mike Markus – General Manager
John Kennedy – Executive Director
Leticia Villarreal – Assistant District Secretary
Jeremy Jungreis – General Counsel

Alternates

Denis Bilodeau (arrived at 12:12 p.m.)
Steve Sheldon (absent)
Valeria Amezcua
Natalie Meeks
Cathy Green

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Rowe, seconded by Director Whitaker and carried [5-0], as follows:

Ayes: *Whitaker, Yoh, Tran, Rowe, Amezcua*

1. Minutes of Water Issues Committee Meeting

The Minutes of the Water Issues Committee meeting held October 11, 2023, were approved as presented.

2. Purchase Order to KDC Systems for Replacement of Phoenix Subnet Controllers with Delta V Charms for the GWRS Pipeline

Recommended for approval at November 15 Board meeting: Authorize issuance of Purchase Order to KDC Systems in the amount of \$152,070 for services and hardware to replace existing Phoenix subnet controllers at five locations along the GWRS pipeline with native Delta V Charms controllers.

3. Cost Share with City of Tustin for Well Pumps Removal to Accommodate PFAS Sampling

Recommended for approval at November 15 Board meeting: Upon receipt of an invoice from the city of Tustin, authorize payment to the city of Tustin in an amount not to exceed \$40,000 for 50% of the costs to video and remove the pumps from 17th Street Well #1, 17th Street Well #2, and Yorba Well.

4. Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Extraordinary Supply Agreement

This item was removed from the Consent Calendar and considered separately.

MATTERS FOR CONSIDERATION

4. Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Extraordinary Supply Agreement

Director Rowe pulled the item to question if this will be the final contract for the SARCCUP agreement. General Manager Mike Markus confirmed that this agreement is the final contract, which will make sure that the 3 cities are able to participate to the extent they would receive and carry the benefit of the extraordinary supply. Mr. Markus confirmed part of the grant also included new production wells.

Upon motion by Director Rowe, seconded by Director Amezcua and carried [5-0], the Committee Recommended for approval at the November 15 Board meeting: Authorize the General Manager to execute an agreement with the Metropolitan Water District of Southern California, Municipal Water District of Orange County, Orange County Water District, city of Anaheim, city of Fullerton, and the city of Santa Ana regarding the assignment of extraordinary supply credit from the Santa Ana River Conservation and Conjunctive Use Program.

Ayes: Whitaker, Yoh, Tran, Rowe, Amezcua

5. Contract No. GG_2020-1: Authorize Notice of Completion, Ratify and Approve Change Orders, and Increase Budget

Principal Engineer Ryan Bouley informed the committee that construction at the city of Garden Grove Wells 21, 23, 28, 29, and 30 PFAS Treatment systems was completed in October 2023. He recalled the contract was awarded in February 2021 with an original project duration of 12 months. He advised that the project encountered substantial delays due to pandemic material shortages, and utility service delays. He noted that Change Orders Nos. 1-15 were executed under the General Manager's signing authority.

Upon motion by Director Rowe, seconded by Director Yoh and carried [5-0], the Committee recommended for approval at November 15 Board meeting:

- 1) Ratify issuance of Change Order Nos. 1 – 15 to Pacific Hydrotech for a total amount of \$642,200; and;**
- 2) Authorize Change Order No 16 to Pacific Hydrotech for a total amount of \$141,600; and**
- 3) Increase project budget by \$1,163,042 for a total project budget of \$23,843,700; and**
- 4) Accept completion of work and authorize filing a Notice of Completion for Contract No. GG-2020-1: city of Garden Grove Wells 21, 23, 28, 29, and 30 PFAS Water Treatment Plants; and**
- 5) Authorize the General Manager to transfer the city of Garden Grove Wells 21, 23, 28, 29, and 30 PFAS Water Treatment Plants to the city of Garden Grove effective the date of filing the Notice of Completion and quitclaim any property rights obtained for the project**

Ayes: Whitaker, Yoh, Tran, Rowe, Bilodeau

CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT THE NOVEMBER 15 BOARD MEETING

It was agreed to place all items on the Consent Calendar at the November 15 Board meeting.

ADJOURNMENT

There being no further business, the meeting was adjourned at 12:18 p.m.

Bruce Whitaker, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: December 13, 2023

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: R. Herndon, B. Leever

Budgeted: Yes

Budgeted Amount: \$53,000

Cost Estimate: \$50,000

Funding Source: General Fund

Program/Line No.: 1075.53010.9986

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: AMENDMENT NO. 3 TO AGREEMENT WITH ENGINEERING ANALYTICS, INC. FOR CONSULTING SERVICES FOR THE SOUTH BASIN REMEDIAL INVESTIGATION / FEASIBILITY STUDY (RI/FS)

SUMMARY

Engineering Analytics, Inc. (EA) is OCWD's consultant that prepared the South Basin RI/FS reports and is preparing the Interim Remedial Action Plan (IRAP). The District is now conducting a CEQA evaluation of the remedy concurrent with the IRAP and requires EA's assistance in addressing public comments on the CEQA evaluation. As such, authorization of Amendment No. 3 to EA's agreement in the amount of \$50,000 for the additional work is requested.

Attachment:

EA's November 2, 2023 proposal for technical support during preparation of a draft Environmental Impact Report for the South Basin Groundwater Protection Project (SBGPP).

RECOMMENDATION

Agendize for December 20 Board meeting: Authorize issuance of Amendment No. 3 to Agreement No. 1428 with EA for an amount not to exceed \$50,000 to provide technical support for the South Basin CEQA evaluation.

BACKGROUND/ANALYSIS

EA has been the primary consultant to the District for the South Basin RI/FS and IRAP preparation. Their technical support is needed to respond to comments from the public, responsible parties, and regulatory agencies on the Notice of Preparation of a draft Environment Impact Report for the South Basin Groundwater Protection Project (SBGPP).

In response to a request from District staff, EA submitted the attached letter dated November 2, 2023, for its estimated costs to provide technical support for the CEQA evaluation. This support may include additional groundwater modeling and other tasks as needed. Staff recommends Board approval to issue Amendment No. 3 to Agreement

No. 1428 with EA in an amount not to exceed \$50,000, which would bring the total approved agreement amount to \$769,132.

PRIOR RELEVANT BOARD ACTIONS

3/15/23 R 23-3-35 Authorize issuance of Amendment No. 2 to Agreement No. 1428 to Engineering Analytics, Inc., increasing the contract amount by \$70,481 for South Basin RI/FS consulting services.

3/17/21 R21-3-48 Authorize issuance of Amendment No. 1 to Agreement No. 1428 to Engineering Analytics, Inc., increasing the contract amount by \$140,682 for South Basin RI/FS consulting services.

6/17/20 R20-6-76 Authorize issuance of Professional Services Agreement to Engineering Analytics for an amount not to exceed \$507,969 to provide NCP consulting services for the South Basin project.

4/15/20 M20-39 Authorize issuance of an RFP to provide National Contingency Plan consulting services to address groundwater contamination in the South Basin area.

5/22/19 R19-5-69 Authorize issuance of Amendment No. 4 to Agreement No. 1051 to Hargis, increasing the contract amount by \$194,816 and extending the termination date to September 30, 2020, for South Basin RI/FS consulting services.

10/18/17 R17-10-132 Authorize Amendment No. 3 to Agreement No. 1051 to Hargis in the amount of \$89,000 to develop a groundwater flow model as part of the South Basin RI/FS.

10/21/15 R15-10-149 Authorize Amendment No. 1 to Agreement No. 1051 with Hargis + Associates in the amount of \$41,048 to prepare a pilot study work plan for the South Basin Groundwater Protection Project.

1/21/15 R15-1-10 Authorize issuance of a Professional Services Agreement to Hargis + Associates for an amount not to exceed \$657,852 to provide NCP consulting services in the South Basin area.

1/21/15 R15-1-10 Authorize Amendment No. 1 of Professional Services Agreement No. 0827 with Aquilogic, Inc. in the amount of \$78,375 for services to update and maintain the database, provide access to the database and records to Hargis + Associates, and coordinate with Hargis + Associates through April 2016.

8/6/14 R14-8-109 Approve developing remedial strategies for the South Basin groundwater contamination in a manner that is consistent with the NCP; and authorize issuance of RFP to retain NCP consulting services to assist staff in completing the remedial investigation and conducting an evaluation of remedial alternatives in the South Basin area consistent with NCP protocol.

8/6/14 R14-8-108 Adopt the updated Groundwater Quality Protection Policy, which supersedes the following prior District policies: Policies regarding Pre-Litigation Mediation Procedure and Segregation and Use of Groundwater Contamination Litigation Proceeds for Future Cleanup Projects, adopted May 22, 2013 (Resolution No. 13-5-58); Groundwater Quality Protection Policy, adopted May 6, 1987 (Resolution No.

87-5-59); and Sanitary Landfill Management, adopted June 20, 1984 (Resolution No. 84-6-57).



November 2, 2023

Project No. 151099

Mr. Bill Leever
Principal Hydrogeologist
Orange County Water District
18700 Ward Street
Fountain Valley, CA 92708

RE: Change Order Request: Engineering Analytics, Inc., Change Order #03 to Agreement 1428, South Basin Remedial Investigation and Feasibility Study, National Contingency Plan Consulting Services

Dear Mr. Leever,

As requested, Engineering Analytics, Inc., (EA) is submitting this change order to cover additional scope items associated with the above referenced services. EA is providing Consulting Services for Orange County Water District's (the District) South Basin Groundwater Protection Project (SBGPP) in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under Agreement 1428. This change order provides a brief summary of a new task associated with providing as requested technical support in preparing responses to the Notice of Preparation of a Draft Environmental Impact Report (EIR) for the SBGPP.

Task 4.6 Assist District in During Public Notice of Draft EIR Preparation (New Task 460)

EA shall assist the District in preparing responses to the Notice of Preparation of Draft EIR that are related to the proposed Project (Alternative 3 from the SBGPP Feasibility Study). It is anticipated that EA would provide technical assistance on an as requested basis from the District. The technical assistance is anticipated to require senior and mid-level EA staff in meetings, document review, potential modeling activities, preparation of written responses, review of presentation materials and/or participating in public meetings. For the purposes of this proposal, EA has assumed that up to approximately 160 hours of senior level professional time and up to approximately 80 hours of mid-level professional time may be required for this task at an estimated cost of approximately \$50,000.

Summary

As described above, EA is prepared to support the District on an as requested basis. EA and the District would discuss scope, schedule and anticipated cost prior to initiating the requested work. EA is requesting the District to approve the Change Order for new task 460 in the amount of

\$50,000, which will be billed on a time and materials basis and would not exceed this amount without approval from the District.

If you have any questions or require additional information, please contact me at (858) 883-3710.

Respectfully Submitted,
Engineering Analytics, Inc.



Chris Ross, P.G., C.H.G.
Project Manager

Cc: Mr. Roy Herndon (the District)

AGENDA ITEM SUBMITTAL

Meeting Date: December 13, 2023

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: L. Haney/D. McMichael

Budgeted: Yes

Budgeted Amount: \$71,000 (FY23-24)

Cost Estimate: \$142,000 (FY23-24, FY24-25)

Funding Source: General Fund

Program/Line Item No. 1080.53001.8010

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

Subject: AMENDMENT NO. SIX TO AGREEMENT WITH JAMES PIKE FOR PRADO VIREO MONITORING

SUMMARY

The District's activities in the Prado Basin, including water conservation and wetlands operations, resulted in agreements and permits committing the District to annually monitor endangered Least Bell's Vireos throughout the Prado Basin. Mr. James Pike has performed vireo monitoring and other related duties for the past several years and staff would like to extend this agreement for another two years. Mr. Pike has performed these duties very well for more than 30 years and is the recognized authority on Prado bird life.

RECOMMENDATION

Agendize for December 20 Board meeting: Approve Amendment No. Six to Agreement No. 0637 with James Pike to extend the termination date to December 31, 2025, and increase the not-to-exceed reimbursement amount by \$142,000 over a two-year period.

DISCUSSION/ANALYSIS

The Orange County Water District has conducted monitoring and management of the endangered Least Bell's Vireo (*Vireo*) and other rare birds in the Prado Basin since the early 1980s. The District's commitment to Vireo management came about as an offsetting measure for potential impacts to the Vireo resulting from Prado water conservation and wetlands operations, maintenance, and re-construction. The requirements have been detailed in agreements among the District, US Army Corps of Engineers, and US Fish and Wildlife Service, and as mitigation in Corps' permits and US Fish and Wildlife Service Biological Opinions (BO).

As it pertains to the Vireo, OCWD is to provide four knowledgeable, biological monitors annually and furnish them with a 4-wheel drive vehicle during the spring and summer nesting season. Mr. Pike has held one of these positions since the first BO was published in 1993 but has been monitoring vireo in Prado Basin since the 1989 letter agreement with California State University, Long Beach Foundation. Another of these positions is split between two biologists who are halftime OCWD, halftime Santa Ana

Watershed Association (SAWA) employees. Two more monitors are full-time OCWD employees. The monitoring work focuses upon documenting the location and number of Vireos, Southwestern Willow Flycatchers, and other rare birds nesting in the Prado Basin as well as reproductive and ecological data.

The board previously approved an agreement with Mr. Pike in February 2010 to reimburse Mr. Pike for \$55,000 per year. Starting in 2013, Mr. Pike's reimbursement was \$60,000 per year through 2015; \$63,000 per year through 2017; \$65,000 per year through 2019; \$67,000 per year through 2021; and \$69,000 per year through 2023. Staff believes an increase of \$2,000 per year to \$71,000 per year is justified since Mr. Pike has been reimbursed at a constant rate for the past two years. The annual rate of \$71,000 would be established for a 2-year period in the proposed amendment to the existing agreement allowing Pike to retire after the 2025 season, in which case bids would be sought for a replacement contractor, or the district could decide to fill compliance obligations with existing OCWD staff.

Mr. Pike is widely recognized for his expertise in bird identification and ecology and his specific knowledge of the terrain and birds of the Prado Basin. Because of his extensive experience in the Prado Basin and the efficiency of his work, it is recommended that the existing agreement with Mr. Pike be extended for an additional 1-year period with the possibility to extend another year if conditions warrant after the first year. While performing his primary monitoring duties he also continues to document bird species that are new to the Prado Basin, maintaining a regional bird list for the District. Mr. Pike also helps and is available for advice and consultation on District projects and operations.

PRIOR RELEVANT BOARD ACTION(S):

02/17/2010, R10-2-33: Board approval of Professional Services Agreement with Mr. James Pike for vireo and wildlife monitoring and services in the Prado Basin at \$55,000/yr for three years, 2010 – 2012.

12/19/2012, R12-12-146: Board approval of Amendment Number one of Professional Services Agreement with Mr. James Pike for vireo and wildlife monitoring and services in the Prado Basin at \$60,000/yr for three years, 2013 – 2015.

12/16/2015, R15-12-174: Board approval of Amendment Number two of Professional Services Agreement with Mr. James Pike for vireo and wildlife monitoring and services in the Prado Basin at \$63,000/yr for two years, 2016 – 2017.

02/21/2018, R18-02-11: Board approval of Amendment Number three of Professional Services Agreement with Mr. James Pike for vireo and wildlife monitoring and services in the Prado Basin at \$65,000/yr for two years, 2018 – 2019.

1/22/20, R20-1-4: Approve Amendment No. 4 to Agreement No. 0637 to extend the agreement for two years through December 31, 2021 and increase the not-to-exceed reimbursement to \$134,000 over the two-year period.

1/19/2022, R22-1-6: Approve Amendment No. 5 to Agreement with James Pike for Prado Vireo Monitoring.

AGENDA ITEM SUBMITTAL

Meeting Date: December 13, 2023

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: C. Olsen

Budgeted: No

Budgeted Amount: \$899,500

Final Cost: \$909,617

Funding Source: R&R

Program/Line Item No.: R21001

General Counsel Approval: NA

Engineers/Feasibility Report: NA

CEQA Compliance: NA

Subject: GWRS PIPELINE REPAIR WORK

SUMMARY

Staff coordinated inspection and repair work on the GWRS pipeline during a 14-day GWRS outage in 2021 for work associated with the GWRS Final Expansion Project. During this outage, staff inspected the GWRS pipeline Unit I epoxy coating and also inspected the condition of the cement mortar lining (CML) of Unit II and Unit III of the GWRS pipeline. An additional 1,000-linear feet of the Unit II GWRS pipeline lining was also epoxy coated during this outage.

RECOMMENDATION

Agendize for December 20 Board meeting: Authorize Amendment No. 2 to FD Thomas, Inc. contract in the amount of \$10,117 for additional repair work to the GWRS pipeline.

DISCUSSION

As part of the GWRS Final Expansion Project, there was a planned 10-day outage to complete work within the Advanced Water Treatment Facility (AWTF). This 10-day outage occurred in 2021. Staff used this outage as an opportunity to enter within GWRS pipeline for inspection and to complete some repairs to the lining in Unit II. Staff and the Board authorized FD Thomas, Inc. to complete this work.

FD Thomas, Inc. completed all the required work to the satisfaction of staff and within the time frame of the outage. The initial Agreement was for \$874,500 and there was Amendment No. 1 for \$25,000 which was expected to cover the costs for extra work completed above the original contract scope. The extra work, which in total was \$69,684, included rental of a desilting tank to dispose of water drained from the pipeline appropriately, one extra day of two 12-hour shifts of work completed to finalize the repair work in Unit II and additional rental of sound barriers for work that was completed near homeowners.

The Agreement and Amendment No. 1 totaled \$899,500 and OCWD was notified by FD Thomas that the cost for the extra work was \$10,117 more than anticipated and budgeted. Staff agreed that these costs were extra work.

PRIOR RELEVANT BOARD ACTIONS:

6/20/2018, R18-6-69: Authorize filing of Categorical Exemption with Orange County Recorder's Office; and Accept bid, waive inconsequential bid informalities, and award Contract GWRS-2018-1, Groundwater Replenishment System Unit I Pipeline Rehabilitation Project: Alternative A (30 days) to the lowest responsive bidder F.D. Thomas, Inc. in the amount of \$4,833,540; and Authorize issuance of Agreement to CSI Services, Inc. for Inspection and Testing Services for an amount not to exceed \$72,252; and Authorize issuance of Agreement to Jamison Engineering Contractors, Inc for Construction Support Services for an amount not to exceed \$159,400; and Reduce project budget by \$1.9 million, for a total project budget of \$6,100,000.

3/3/2021, R-21-3-34: Authorize issuance of an Agreement to Jamison Engineering Contractors, Inc to support the GWRS Pipeline 2021 Inspection Work for an amount not to exceed \$175,000; Authorize issuance of an Agreement to CSI Services, Inc. for inspection services of the existing GWRS pipeline and epoxy coating of Unit II for an amount not to exceed \$40,000; Authorize issuance of an Agreement to FD Thomas, Inc. for epoxy coating of portions of the Unit II GWRS Pipeline for an amount not to exceed \$875,000.

AGENDA ITEM SUBMITTAL

Meeting Date: December 13, 2023

To: Water Issues Committee/
Board of Directors

From: Mike Markus

Staff Contact: R. Herndon, B. Leever

Budgeted: Partial

Budgeted Amount: \$120,000

Cost Estimate: \$162,920

Funding Source: General Fund

Program/Line-Item No.: 1075.53010.9900

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: AMENDMENT NO. 6 TO AGREEMENT NO. 1175 WITH INTERA, INC. FOR
ADDITIONAL GROUNDWATER MODELING SERVICES REGARDING SUNSET
GAP SEAWATER INTRUSION**

SUMMARY

Intera, Inc. recently updated the Alamitos-Sunset Gap groundwater model through June 2020, refined the model calibration with current data, and conducted predictive simulations to analyze “no-barrier” alternatives. Based on the results of this modeling work, staff has requested additional model simulations in support of the barrier feasibility study and to evaluate extraction-only barrier scenarios. Staff recommends issuance of Amendment No. 6 to the agreement with Intera in an amount not to exceed \$162,920.

Attachment: Letter cost proposal for additional modeling work from Intera, Inc.

RECOMMENDATION

Agendize for December 20 Board meeting: Authorize issuance of Amendment No. 6 to Agreement No. 1175 with Intera, Inc., in the amount of \$162,920 for additional groundwater modeling of the Sunset Gap area.

BACKGROUND/ANALYSIS

Based on the District’s investigations confirming seawater intrusion in the Sunset Gap beneath the Naval Weapons Station Seal Beach (NWSSB), OCWD retained Intera, Inc. to expand the original Alamitos groundwater model to cover areas of concern in the Sunset Gap (Figure 1). Intera constructed the Alamitos model in 2009-10 and was selected to perform the model expansion based on their prior knowledge and success. Additional modeling activities subsequently performed by Intera were requested by staff and approved under Amendments 1-5.

Model simulations have been used to evaluate a conceptual barrier configuration comprising injection and extraction wells. The model results for this predictive barrier scenario showed seawater intrusion being controlled. In June 2023 the Board authorized issuance of Amendment 5 to Intera’s agreement to expand the model calibration through June 2020 (making it more current) and to simulate several “no barrier” scenarios to evaluate future seawater intrusion in the absence of a barrier. The results of this work showed that continued inland migration of seawater would occur in the absence of a barrier, including impacting an

increasing number of production wells over time.

In September 2023, the District initiated a feasibility study to evaluate the preliminary injection and extraction well barrier, including injection source water supplies, extraction well siting and brackish water disposal or reuse, and injection well siting. The feasibility study analysis requires additional modeling to simulate seasonal variations in water levels to more accurately estimate maximum injection and extraction flows to maintain the barrier effectiveness. To conduct the above activities, the District requested a proposal from Intera (attached). The proposed scope of work for Intera includes:

- Evaluation and optimization of the Injection-Extraction barrier using the updated Alamitos Sunset model to support the Feasibility Study injection water supply analysis
- Evaluation of a Deep Aquifer injection water supply
- Evaluation of a barrier using only extraction wells
- Predictive uncertainty analysis to increase reliability of the modeled barrier
-

Based on Intera's cost proposal, staff requests authorization to issue Amendment No. 6 in the amount of \$162,920 to Intera's services agreement, bringing the total amount authorized to \$573,502.

PRIOR RELEVANT BOARD ACTIONS

9/20/23, R23-8-110– Authorize issuance of an Agreement to Hazen for an amount not to exceed \$412,457 for a Sunset Gap Seawater Intrusion Barrier Feasibility Study.

6/21/23, R23-6-80– Authorize issuance of Amendment No. 5 to Agreement No. 1175 with Intera, Inc., in the amount of \$38,600 for staff-requested additional scope of work on the Alamitos-Sunset Gap model “no barrier” scenarios.

6/15/22, R22-6-76– Authorize issuance of Amendment No. 4 to Agreement No. 1175 with Intera, Inc., in the amount of \$35,420 to incorporate additional data into the Alamitos-Sunset Gap model “no barrier” scenarios.

6/18/21, R20-6-95 – Authorize issuance of Amendment No. 3 to Agreement No. 1175 with Intera, Inc., in the amount of \$124,500 to extend the Alamitos-Sunset Gap model and run “no barrier” scenarios.

3/18/20, R20-3-29 – Authorize issuance of Amendment No. 2 to Agreement No. 1175 with Intera, Inc., in the amount of \$48,320 for additional work on the Alamitos-Sunset Gap model, including additional calibration and predictive simulations.

5/23/18, R18-5-53 – Authorize issuance of Amendment No. 1 to Agreement No. 1175 with Intera, Inc., in the amount of \$28,710 for additional work necessary to expand the Alamitos Gap groundwater model into the Sunset Gap area.

7/20/16, R16-7-102 – Authorize issuance of Professional Services Agreement to Intera, Inc. for an amount not to exceed \$135,032 for expanding the Alamitos Gap groundwater model into the Sunset Gap area.

9/16/09, R09-9-147 - Authorize issuance of Professional Services Agreement to Intera, Inc. for an amount not to exceed \$269,804 for the development of a groundwater computer model of the Alamitos Barrier.

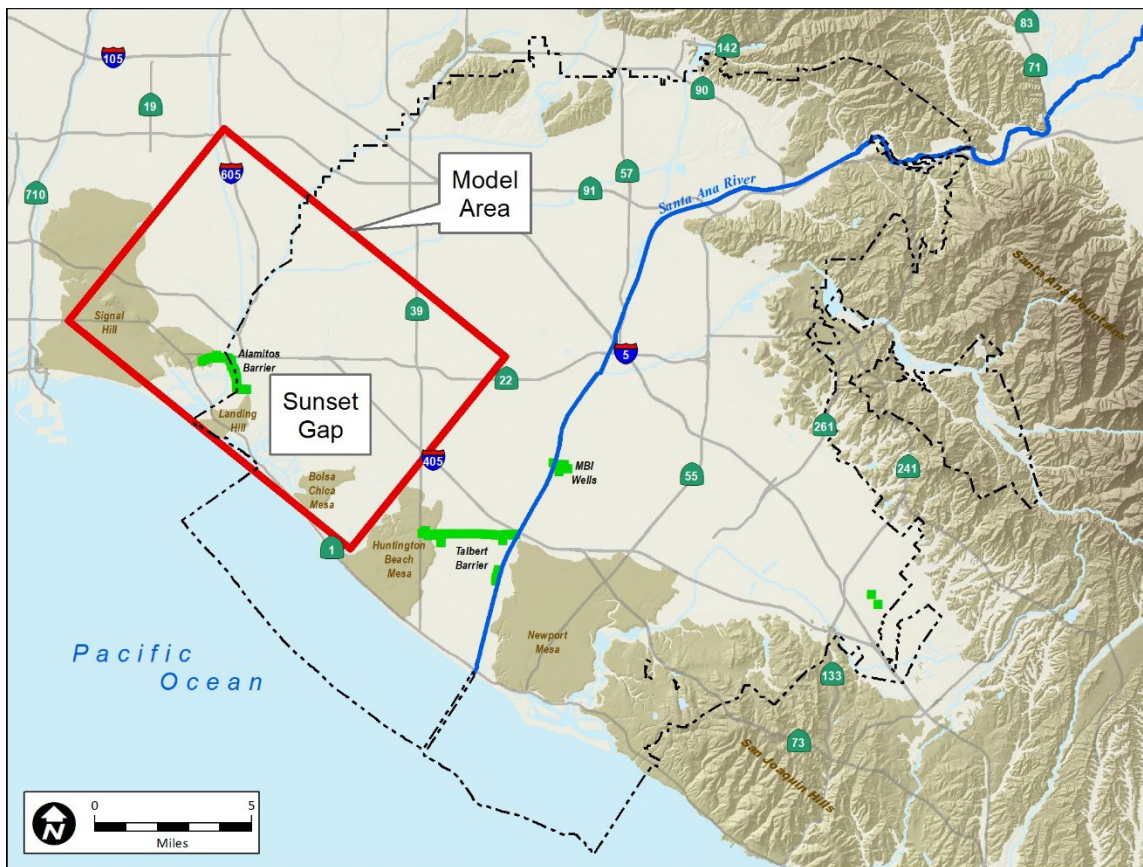


Figure 1 shows the location of the Alamitos-Sunset Gap Model area outlined in red along with the existing seawater intrusion barriers in Orange County.

December 8, 2023

Mr. William Leever, CHG, Principal Hydrogeologist
Orange County Water District
18700 Ward Street, Fountain Valley, CA 92708

cc: Mr. Roy Herndon, CHG, Chief Hydrogeologist, OCWD
Mr. Tim Sovich, PE, Principal Engineer, OCWD

RE: Scope of Work for the Sunset Gap Seawater Intrusion Barrier Feasibility Study Modeling

Dear Mr. Leever,

INTERA is pleased to present this proposal for modeling support on the Sunset Gap Seawater Intrusion Barrier Feasibility Study (FS). The Alamitos-Sunset Model (ASM) has been recently updated to represent conditions up through June 2020 and incorporate the most current understanding of seawater intrusion in the Sunset Gap. The ASM is a MODFLOW-MT3D uniform density flow and chloride transport model and simulates the period July 2006 through June 2020 for flow, and July 2012 through June 2020 for transport. During the most recent model update, projected future baseline conditions for 60 years were developed and used to assess potential future seawater intrusion impacts in Sunset Gap to OCWD groundwater supplies under no-barrier conditions.

The ASM is an effective tool for evaluating potential future conditions based on projects or management actions.

Scope of Work

The proposed scope of work, described herein, outlines how the model can be used for potential project assessment to minimize seawater intrusion and associated impacts in the Sunset Gap area. The project alternatives will be developed in coordination with OCWD and the District's FS consultant. Unless otherwise stated, all project alternative scenarios will be evaluated for the hydrogeologic feasibility, impact, and benefits of the proposed injection/extraction wells in relation to the future baseline (without any ASM projects to prevent seawater intrusion). This will entail assessing the project for the following:

- 1) Ability of the injection/extraction barrier to limit inland seawater migration and protect production wells from brackish water intrusion.
- 2) Capture of the brackish water plume.
- 3) Potential for excessive mounding or surface flooding from injection wells.
- 4) Potential for excessive drawdown or desaturation of aquifers from extraction wells.
- 5) Potential for inelastic subsidence due to water levels going below historical lows.
- 6) Impact on water levels along the Alamitos and Talbert Barriers. Any future ASM projects will need to ensure water levels along the Alamitos and Talbert Gaps remain protective of seawater intrusion in those areas.
- 7) Influence on migration of existing groundwater contaminant plumes and clean-up projects.

- 8) Regional benefits to Orange County Groundwater Basin groundwater flows and water levels.

Task 1: Evaluate Injection-Extraction Barrier

Prior modeling by INTERA tested a project alternative consisting of a combined injection/extraction barrier to protect against seawater intrusion in Sunset Gap (previously entitled, "Scenario 3"). The ASM has since been updated through June 2020 and undergone a calibration refinement using new well data. Since the FS is evaluating Scenario 3, it is necessary to test its effectiveness using the updated ASM. As such, Scenario 3 will be simulated using the updated ASM and evaluated based on how well it protects OCWD groundwater supplies. The scenario will be refined for optimal risk mitigation through the following sub-tasks.

1.1 Simulate and Evaluate Injection-Extraction Barrier from Previous Modeling

Scenario 3 will be simulated for 60-years "as-is," e.g., using the same injection/extraction rates and well locations, using the updated ASM and a full evaluation will be performed to assess whether the updated ASM shows significant differences in the barrier's ability to control seawater intrusion as compared with the prior version of the ASM.

- a. One simulation is included in this sub-task.
- b. The following graphs and maps will be compared with historical and future 60-year simulated baseline conditions to assess the feasibility, impacts, and benefits of the proposed project alternative.
 - Maps of simulated head difference
 - Comparison using maps of simulated chloride
 - Simulated chemographs at monitoring wells and selected internodal barrier grid cells
 - Simulated blended chemographs at production wells
 - Simulated hydrographs at monitoring wells and comparison with historical trends
 - Simulated hydrographs at selected internodal injection and extraction barrier grid cells
 - Simulated depth to water maps
 - Particle tracking using MODPATH (Version 7)
 - Zone Budget
- c. This sub-task is budgeted to include one group meeting between OCWD and INTERA.

1.2 Refine Locations and Annual Rates of Injection and Extraction

The locations and annual rates of injection and extraction will be refined with close coordination with OCWD.

- a. Injection and extraction well locations and depths of screened intervals will be (manually) reconfigured to effectively protect against seawater intrusion using reasonably achievable injection and extraction rates.
- b. Injection and extraction will be simulated as constant to determine approximate annual rates of injection and extraction needed.

- c. Four iterations (simulations and subsequent post-processing) to determine well locations are included in this sub-task. Each iteration will be evaluated using an abbreviated postprocessing schedule.
- d. Annual pumping rates will be optimized using PEST++. Optimization run times are anticipated to take approximately two to four days.
- e. The budget includes coordination time with OCWD staff to define the optimization routine objectives and constraints.
- f. This sub-task is budgeted to include two working sessions with OCWD staff.

1.3 Optimize Monthly Rates of Injection and Extraction.

Monthly rates of injection and extraction will be optimized using PEST++ (using the same setup from Task 1.2) to a) mitigate seawater intrusion, and b) minimize total volume needed for the ASM injection and extraction barrier - while accounting for basin water level variability. Optimization run times are anticipated to take approximately two to four days.

- a. A full evaluation of the final optimized combined barrier system will be performed using the full postprocessing schedule as described in Sub-task 1.1
- b. One group meeting is budgeted for this sub-task.

Outcomes

The outcomes of Task 1 are:

- Refined locations and depths of screened intervals of injection and extraction wells
- Optimized monthly (seasonal) rates of injection and extraction at each well

Deliverables

Products of the post-processing routine are to be delivered to OCWD in the interim. Products may include Microsoft PowerPoints, Word documents, images, PDFs, etc. Summary findings will be documented in the technical memorandum of Task 5.

Schedule and Budget

Task 1 is estimated to require five simulations and one optimization set-up over approximately 10 weeks to complete. The first of two group meetings will take place after the completion of Sub-task 1.1; the second of the group meetings should occur at the conclusion of Sub-task 1.3, which marks the conclusion of Task 1. The estimated cost of Task 1 as presented is \$45,240.

Task 2: Evaluate Deep Aquifer Water Source

Once Task 1 is complete and water demands for the injection component of the barrier system are known, Task 2 will commence to refine the number and location of wells originally modeled by OCWD with the Basin Model for the Deep aquifer (Lower Main aquifer) water source using the ASM. These Deep aquifer extraction wells will be added to the refined and optimized Scenario 3 from Task 1 using total monthly extraction rates equal to the refined Scenario 3 monthly injection requirements. Task 2 also includes the evaluation of impacts to the aquifers from the extraction wells; namely, assessing drawdown caused by the additional extraction. Details of Task 2 are described below.

The locations and rates of extraction wells in the deeper aquifers (ASM model layer 15) will be configured in close coordination with OCWD staff. The feasibility, impacts, and benefits of the proposed Deep aquifer water source project alternative will be evaluated by comparing the results with Scenario 3 without deep aquifer pumping using the updated ASM as well as historical and future conditions. It is assumed that 100% of the injection demands will be met by the Deep aquifer source wells. Three iterations (simulations and subsequent post-processing) and one group meeting with OCWD are included in this task.

Outcomes

The outcomes of Task 2 are:

- Refined locations of Deep aquifer extraction wells
- Identification of impacts of Deep aquifer pumping on the effectiveness of the proposed seawater barrier
- Identification of impacts of Deep aquifer pumping on water levels at drinking water wells
- Assessment of the Deep aquifer pumping impact on regional flows through the use of Zone Budget
- Assessment of the Deep aquifer's capacity, e.g., simulated regional drawdown surrounding the proposed well field, to accommodate the required barrier supply pumping

Deliverables

Products of the post-processing routine are to be delivered to OCWD in the interim. Products may include Microsoft PowerPoints, Word documents, images, PDFs, etc. Summary findings will be documented in the technical memorandum of Task 5.

Schedule and Budget

Task 2 is estimated to require three model simulations over two weeks to complete. The group meeting with OCWD will occur at the conclusion of Task 2. The proposed cost of Task 2 is \$8,700.

Task 3: Evaluate Extraction-Only Barrier Alternatives

Extraction-only configurations of a potential seawater intrusion barrier will be explored as an alternative to an injection-extraction combination. Potential configurations may include new extraction wells and/or existing municipal production wells as part of the extraction system. Details following OCWD's provisions regarding potential extraction-only barrier configurations are included in the sub-task descriptions below.

3.1 Simulate and Evaluate Locations and Rates of New Extraction-Only Barrier Alignments

This sub-task includes simulating a range of extraction-only barrier alternatives comprised exclusively of new extraction wells and will assess the feasibility, impacts, and benefits of each alternative.

- a. Sub-task 3.1 may include six iterations (simulations and post-processing) broken down into potential themes:
 - Most-seaward alignment across SBNWS (similar to Scenario 3 extraction well alignment): four iterations total with two iterations for this alignment to refine the locations and

rates of the new wells and two iterations to sleeve off existing municipal production wells in intruded aquifers and thereby reduce the amount of extraction required from the new extraction barrier wells.

- Mid-alignment along Westminster Avenue and Bolsa Chica Road: two iterations proposed, one without and one with sleeving off existing municipal production wells to reduce extraction requirements
- b. The post-processing performed for each iteration will include:
 - Comparison of maps of simulated chloride
 - Simulated head maps for lowest head summer month
 - Comparison of maps of simulated head difference
 - Simulated chemographs at monitoring wells
 - Simulated blended chemographs at production wells
 - Simulated depth to water maps

3.2 Simulate and Evaluate Locations and Rates of Combined New Extraction with Existing Municipal Production Wells

Sub-task 3.2 mirrors sub-task 3.1 with the consideration of using existing municipal production wells as part of a potential extraction-only barrier.

- a. Sub-task 3.2 may include four iterations broken down into the following themes:
 - Mid-alignment along Westminster Avenue and Bolsa Chica Road: two iterations using existing and/or new wells near existing HB-13 location and/or sleeving off nearby production wells from intruded Beta, Lambda, and Omicron-Upper Rho aquifers
 - Inland-most alignment: two iterations pairing existing production wells with two new extraction wells to protect against seawater intrusion
- b. The post-processing performed for each iteration will include:
 - Comparison of maps of simulated chloride
 - Simulated head maps for lowest head summer month
 - Comparison of maps of simulated head difference
 - Simulated chemographs at monitoring wells
 - Simulated blended chemographs at production wells
 - Simulated depth to water maps

Outcomes

The outcomes of Task 3 are:

- A comparison of the different potential extraction-only configurations,
- A comparison of the best extraction-only configurations to the combined injection-extraction barrier alternative, and

- An analysis of potential undesirable effects, e.g., drawdown at nearby municipal wells, impacts to wetlands, and land subsidence potential caused by increased extraction to protect against seawater intrusion.

Deliverables

Products of the post-processing routine will be delivered and presented to OCWD primarily in the interim. Summary findings will be documented in the technical memorandum of Task 5.

Schedule and Budget

Sub-tasks 3.1 and 3.2 do not need to be executed sequentially and may require modification or additional iterations based on the interim findings of the overall predictive modeling work. Overall, Task 3 is estimated to contain 10 model simulations and three group meetings over eight weeks. The proposed cost of Task 3 is \$37,780.

Task 4: Predictive Uncertainty Analysis

Task 4 includes a calibration-constrained uncertainty analysis of the ASM. The uncertainty analysis will provide insight on model-based uncertainty that can affect the efficacy of any project alternatives.

4.1 Calibration-constrained Uncertainty Analysis for Historical Model

Sub-task 4.1 will include a calibration-constrained uncertainty analysis using PEST++. INTERA will develop an ensemble of possible model realizations satisfying model performance standards. This sub-task will use the existing calibrated model as a starting point for the uncertainty analysis to perturb key parameters (seen to be sensitive from the previous phase of modeling) while maintaining a given level of calibration (for example, within 10% of the calibrated RMSE). Based on the model calibration phase, vertical conductivities in and around merge zones, horizontal flow barriers (HFBs), and general head boundaries (GHBs) are expected to be key parameters for the predictive uncertainty analysis. This sub-task includes two working sessions with OCWD technical staff to define key metrics and parameter perturbations allowed in the uncertainty analysis.

4.2 Predictive Uncertainty Analysis

Sub-task 4.2 will use the ensemble of potential model realizations developed in sub-task 4.1 to evaluate the predictive uncertainty in key performance indicators for the baseline predictive simulation and a chosen barrier alternative (for a total of two scenarios). Key performance indicators are expected to include chemographs at inland monitoring and production wells, extent of the seawater plume, and mass flux of chloride across basin boundaries. The results from sub-task 4.2 will demonstrate a range of possible seawater intrusion pathways accounting for the underlying model uncertainty. This can be critical in evaluating the reliability (with respect to the underlying model uncertainty) of the chosen barrier alternative.

Outcomes

The outcomes for Task 4 are:

- A range of possible calibration-constrained seawater intrusion outcomes,
- An evaluation of the reliability of select model scenarios under model uncertainty, and

- Identification of the key parameter uncertainties with respect to seawater intrusion.

Deliverables

Results of Task 4 will be delivered primarily through presentations and accompanying materials in the interim, and as summary findings documented in the Technical Memorandum (Task 5).

Schedule and Budget

This task includes one group meeting to present and discuss the results from the predictive uncertainty analysis. Sub-tasks 4.1 and 4.2 are estimated to cost \$25,520 and \$14,440, respectively, for a total of \$39,960 and are estimated to require approximately 8 weeks to complete.

Task 5: Technical Memorandum

A technical memorandum will be prepared to document Tasks 1 through 4 performed to support the FS. This technical memorandum will describe the process and results from the scenarios evaluated. The technical memorandum will be sent in draft form to OCWD for their review. One round of revisions is included in the estimated cost of \$31,240. The technical memorandum is expected to take approximately four weeks to prepare the first draft.

Summary


The total proposed scope of work is estimated to be \$162,920, lasting over 33 weeks. The budget and schedule are laid out by task and sub-task in the following table.

Task	Duration	Principal	Hydrogeologist II	Hydrogeologist IV	Cost
		\$295	\$165	\$140	
1. Evaluate Injection-Extraction Barrier	11 weeks	12	212	48	\$45,240
2. Evaluate Deep Aquifer Water Source	2 weeks	4	32	16	\$8,700
3. Evaluate Extraction-Only Barrier Alternatives	8 weeks	12	160	56	\$37,780
4. Predictive Uncertainty Analysis	10 weeks	12	180	48	\$39,960
5. Technical Memorandum	4 weeks	12	100	80	\$31,240
	33 weeks				
Total (with Optional Uncertainty Analysis)	(7-8 months)	52	684	248	\$162,920

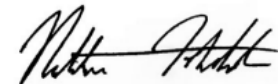
If additional scenarios are required throughout the modeling process, based on interim results, the attached provides guidelines for the estimated impacts to cost and schedule.

INTERA appreciates the opportunity to support OCWD’s efforts to continue to protect their freshwater resources against seawater intrusion using the ASM, which is a robust tool for evaluating potential management alternatives well-suited for the FS. Please do not hesitate to contact us if you have any questions or comments about the proposed scope of work.

Sincerely,



Abhishek Singh
 President – Water Supply & Water Resources LOB
 INTERA Incorporated



Nathan Hatch
 Hydrologist

Enclosure: Detailed Budget



Task	Subtask	Duration	Principal	Hydrogeologist II	Hydrogeologist IV	Cost
			\$295	\$165	\$140	
1. Evaluate Injection-Extraction Barrier		11 weeks	12	212	48	\$45,240
	1.1 Simulate and Evaluate Injection-Extraction Barrier from Previous Modeling (1 Model Simulation 1 Group Meeting)	2 weeks	2	32	8	\$6,990
	1.2 Refine Locations and Annual Rates of Injection and Extraction (4 Model Simulations 2 Working Sessions)	6 weeks	6	100	24	\$21,630
	1.3 Optimize Monthly Rates of Injection and Extraction (1 Group Meeting)	3 weeks	4	80	16	\$16,620
2. Evaluate Deep Aquifer Water Source		2 weeks	4	32	16	\$8,700
	2.1 Configure and Evaluate the Locations and Rates of Deep Aquifer Source Wells for Injection (3 Model Simulations 1 Group Meeting)	2 weeks	4	32	16	\$8,700
3. Evaluate Extraction-Only Barrier Alternatives		8 weeks	12	160	56	\$37,780
	3.1 Simulate and Evaluate Locations and Rates of Extraction-Only Barrier Alternatives (6 Model Simulations 2 Group Meetings)	5 weeks	4	80	32	\$18,860
	3.2 Simulate and Evaluate Locations and Rates of Combined New Extraction with Existing Municipal Extraction Wells (4 Model Simulations 1 Group Meeting)	3 weeks	8	80	24	\$18,920
4. Predictive Uncertainty Analysis		8 weeks	12	180	48	\$39,960
	4.1 Calibration-constrained Uncertainty Analysis for Historical Model	6 weeks	8	120	24	\$25,520
	4.2 Predictive Uncertainty Analysis	2 weeks	4	60	24	\$14,440
5. Technical Memorandum		4 weeks	12	100	80	\$31,240
	5.1 Technical Memorandum (One round of revisions)	4 weeks	12	100	80	\$31,240
Total		33 weeks (7-8 months)	52	684	248	\$162,920

AGENDA ITEM SUBMITTAL

Meeting Date: December 13, 2023

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: John Kennedy

Budgeted: N/A

Funding Source: N/A

Cost Estimate: N/A

Program/Line Item No: N/A

Cost Estimate: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report

CEQA Compliance: N/A

**Subject: APPOINTMENT OF JOHN KENNEDY TO SAWPA PROJECT
COMMITTEE'S 22 AND 23**

SUMMARY

The Orange County Water District is participating in Santa Ana Watershed Project Authority's (SAWPA) Project Committee's 22 and 23. Staff recommends adoption of a resolution to appoint John Kennedy to both committees.

Attachment:

Resolution appointing John Kennedy to replace Mike Markus on SAWPA's Project Committee's 22 and 23

RECOMMENDATION

Agendize for December 20 Board: Adopt resolution to appoint John Kennedy to Santa Ana Watershed Project Authority's Project Committees 22 and 23, effective January 27, 2024.

BACKGROUND

The Orange County Water District (OCWD) entered into an agreement with the Santa Ana Watershed Project Authority (SAWPA) and other SAWPA member agencies in the watershed on October 7, 2014 to form Project Committee 22. Project Committee 22 was established for the purpose of developing and implementing demand reduction and water use efficiency measures in the Santa Ana River watershed. Funding for this effort was provided by a grant received from the California Department of Water Resources under Proposition 84, Integrated Water Resources Management (IRWM) program.

Mike Markus has served as a Project Committee 22 member since it was formed. With his impending retirement, it is recommended that John Kennedy be appointed to the committee effective January 27, 2024.

On June 23, 2016, OCWD entered into an agreement with SAWPA and other SAWPA member agencies in the watershed to form Project Committee 23. Project Committee 23 was established for the purpose of overseeing the implementation of the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP). SARCCUP was

awarded a \$55 million grant from the California Department of Water Resources under Proposition 84, Integrated Water Resources Management (IRWM) program. SARCCUP has three components: 1) Arundo removal and habitat restoration; 2) Conjunctive Use Water Bank; and 3) Water Use Efficiency (WUE). The WUE task is overseen by Project Committee 22. The remaining tasks are overseen by Project Committee 23.

Mike Markus has served as a Project Committee 23 member since it was formed. With his impending retirement, it is recommended that John Kennedy be appointed to the committee effective January 27, 2024.

PRIOR RELEVANT BOARD ACTION(S) N/A

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE ORANGE COUNTY WATER DISTRICT
APPOINTING JOHN KENNEDY TO SUCCEED
MIKE MARKUS AS A MEMBER OF THE SANTA ANA
WATERSHED PROJECT AUTHORITY'S PROJECT
COMMITTEE 22 AND PROJECT COMMITTEE 23

RESOLVED, that John Kennedy is hereby appointed to serve on Santa Ana Watershed Project Authority's Project Committee 22 and Project Committee 23 effective January 27, 2024.