

STAFF REPORT

To: Coastside County Water District Board of Directors

From: Mary Rogren, General Manager

Agenda: September 8, 2026

Date: September 4, 2026

Agenda Title: Approval of Professional Services Agreement with EKI Environment and Water, Inc. for Engineering Design and Bid Support Services for the Half Moon Bay Tank #2 Project

Recommendation/Motion:

Authorize the General Manager to enter into a professional service agreement with EKI Environment and Water, Inc. for engineering design and bid support services for the Half Moon Bay Tank #2 Project for \$636,800.

Background:

In June, 2026, the District completed the construction of a 2.1 million gallon prestressed concrete tank (HMB Tank #1) at the Carter Hill site near the Nunes Water Treatment Plant. EKI Environment and Water, Inc. (EKI) recently completed the District's Potable Water Storage Master Plan and determined that the existing 1.5 million gallon steel tank, constructed in 1963 at the Carter Hill site, should be prioritized for replacement. EKI also confirmed the feasibility of constructing a new 3.0 million gallon prestressed concrete tank (HMB Tank #2) to replace the existing steel tank.

With the successful completion of HMB Tank #1, Staff recommends proceeding with the engineering design and bid support services for HMB Tank #2.

EKI has submitted the attached proposal for engineering design and bid support services for HMB Tank #2, with the goal of positioning the District to enter into a construction contract as early as Fiscal Year 2028/2029. EKI's proposed scope of services includes:

- Project management and coordination
- Geotechnical investigation (Subconsultant: Cleary Consultant, Inc.)
- Site investigation, topographic surveys, and base map development

(Subconsultant: Underwood and Rosenblum, Inc.)

- Civil engineering design
- Structural design (Subconsultant: Peterson Structural Engineers)
- Instrumentation, controls and electrical design (Subconsultant: TJC and Associates)
- Environmental and permitting (Subconsultant: Environmental Science Associates)
- Bid support services

With the exception of Peterson Structural Engineers, the District has worked with all of EKI's proposed subconsultants on previous projects, and they are familiar with the District's standards and specifications.

EKI's proposal (Exhibit A) takes a different approach from the design process used for Half Moon Bay Tank #1. The proposal assumes that the District will utilize DN LLC. (DN Tanks) to construct an AWWA D110 Type I prestressed concrete tank. However, rather than relying on DN Tanks to provide structural engineering for the tank after the construction contract is awarded, EKI proposes to utilize Peterson Structural Engineers (PSE) for the structural engineering services upfront during the design phase.

For HMB Tank #1, the District's design engineer did not provide the structural engineering of the prestressed concrete tank. Instead, the design engineer developed the tank siting, performance specifications and seismic design requirements necessary for DN Tanks to perform the structural engineering. DN Tanks subsequently completed the structural engineering after the construction contract was awarded.

EKI and District staff believe there are significant advantages to having PSE perform the structural engineering during the design phase for HMB Tank #2. This approach will allow the District's preferences and requirements to be incorporated into the tank design upfront and to be clearly reflected in the bid documents. This approach will provide the District with greater control over the final design and reduce the need for potential change orders during construction. In addition, PSE can engineer design features that are not typically included in DN Tanks' standard scope of services. For example, staff recommends incorporating a structural "bridge" between the roofs of the two tanks, a design feature that would not ordinarily be included within DN Tanks' scope.

PSE has designed multiple DN AWWA D110 Type I prestressed concrete tanks throughout the western United States and is well-respected by DN Tanks for its structural engineering expertise. Resumes for PSE's project team are included as Exhibit B.

Staff also sees significant benefits to utilizing EKI to oversee the engineering design for HMB Tank #2. EKI is very familiar with the District's standards, specifications, facilities and previous tank projects. Staff is confident in EKI's ability to provide a high level of service and effectively coordinate the various engineering disciplines and subconsultants required for the project.

Staff has reviewed EKI's proposal and pricing and compared them with the design proposal for HMB Tank #1, which was prepared in 2020. Based on this review, Staff finds EKI's proposed scope of services and pricing to be competitive and recommends moving forward with EKI's agreement for engineering design and bid support services for HMB Tank #2.

Fiscal Impact: \$636,800

(\$692,000 is included in the District's approved Capital Improvement Program for FY2026/2027.)

Attachments:

Exhibit A - EKI Environment and Water, Inc. Proposal

Exhibit B - Peterson Structural Engin

24 August 2026

Ms. Mary Rogren
General Manager
Coastside County Water District
766 Main Street
Half Moon Bay, California 94019

Subject: Proposal for Engineering Services for the Half Moon Bay Tank 2 Project
Coastside County Water District, Half Moon Bay, California
(EKI B80108.59)

Dear Ms. Rogren:

EKI Environment & Water, Inc. (EKI) is pleased to provide this proposal to Coastside County Water District (District) for design and bid support for the Half Moon Bay Tank 2 Project (Project). For this Project, EKI has selected several key partners; EKI will team with Cleary Consultants, Inc. (Cleary) for geotechnical engineering support, Underwood and Rosenblum, Inc. (U&R) for topographic surveying, Peterson Structural Engineers (PSE) for structural engineering support, TJC and Associates (TJCAA) to provide instrumentation, controls, and electrical (ICE) support, and Environmental Science Associates (ESA) for environmental permitting support. This proposal has been prepared in response to the District's request.

PROJECT UNDERSTANDING

The District recently completed construction of a new 2.1 million gallon (MG) prestressed concrete tank, Half Moon Bay (HMB) Tank 1, which replaced two smaller steel tanks. The HMB Tank 1 project included site improvements to facilitate design and construction of a second, larger prestressed concrete tank at the HMB site to replace the existing 1.5 MG steel HMB Tank 3 as part of a second phase. Having finished Phase 1, the District is interested in initiating Phase 2.

This existing 1.5 MG steel tank, built in 1963, is the oldest in the District. The 2019 Condition Assessment Report (TJCAA, 2019) concluded that the HMB Tank 3 has reached its serviceable life and would require major retrofits and rehabilitation to meet current seismic standards. The District investigated the option of retrofitting and rehabilitating the existing steel tank and compared the costs to constructing a new prestressed concrete tank. In the recently prepared Potable Water Storage Master Plan, EKI confirmed the feasibility and benefits of constructing a new 3.0 MG prestressed concrete tank (HMB Tank 2) to replace the existing steel tank, increasing storage at the HMB site to 5.1 MG (EKI, 2026). The site is located near the District's supply source and can supply water to nearly all of the District's service area by gravity.

PROPOSED SCOPE OF WORK

EKI proposes the following tasks as part of this scope of work.

Task 1: Project Management and Coordination

EKI will provide project management, general coordination, quality control reviews of all Project submittals, and as-needed meetings to support permitting. EKl will provide frequent and clear communication with the District throughout the Project to ensure that deadlines and budgets are met. EKl will perform general project management tasks including as-needed communications and general consulting services, budget tracking, invoicing, and schedule updates. Each monthly invoice will include a progress summary report describing the work performed during that month and the next steps for the Project. EKl will set up and maintain a file sharing site for use by the District and the EKl Team. EKl will follow its standard quality control and quality assurance (QA/QC) procedures for each deliverable. For budgeting purposes, QA/QC tasks are included in Tasks 2 through 6.

EKI will coordinate and attend the following meetings:

- The Project Kickoff Meeting;
- Up to two two-hour meetings to present findings and recommendations to the District's Facility Committee and/or Board of Directors; and
- One-hour Bi-weekly progress meetings during the design phase of the Project.

At the kickoff meeting, EKl will provide a preliminary Project schedule, which will be updated and shared during the bi-weekly project meetings throughout the design phase of the Project.

Deliverables:

- Monthly progress summary reports, provided with invoices.
- Agenda and meeting minutes for each meeting, with a list of attendees.
- Project schedule for the design phase of the Project, provided at the kick-off meeting and updated monthly.

EKI Assumptions:

- The BODR Review Meeting and the District Facility Committee/Board of Directors Meetings will be held in person, all other meetings will be held virtually.

Task 2: Geotechnical Investigation

Under this Task, EKl's subconsultant, Cleary, will update their 2019 and 2022 Geotechnical Report to meet current design standards and perform additional geotechnical investigations to determine subsurface

conditions on the northwest portion of the Project site. Specifically, the geotechnical investigation will include the following:

- Review of pertinent geological information for the area;
- Conduct a site visit to perform a geophysical site evaluation using a seismograph/geophones for subsurface seismic imaging. Data will be collected to a depth of at least 100 feet (or to competent material as site conditions permit) with a total survey length of 230 feet;
- Process the seismic data to determine shear-wave velocity profiles and site classification per CBC/ASCE 7;
- Perform a subsurface exploration by means of one exploratory boring on the northwest side of the Project site to a depth of 15-20 feet, or practice drilling refusal;
- Perform laboratory testing on the boring sample to evaluate pertinent engineering properties. The laboratory testing program will include the following tests: moisture content, dry density, plasticity index, gradation and shear strength determinations. The actual number and type of laboratory tests will depend on the type and condition of the sample collected; and
- Perform engineering analysis on the collected data and prepare a supplemental geotechnical investigation report which will include findings and provide discussion of seismic design parameters relevant to the Project. Geohazards will be evaluated and updated and foundation recommendations for support of the new tank will be provided.

The geotechnical report will aid in determining the overall design and structural requirements for the new concrete tank. The budget includes limited coordination during the design phase.

Deliverables:

- PDF file of the Draft and Final Geotechnical Report.

Assumptions:

- The District will review and provide comments on the Draft Geotechnical Report.

Task 3: Document Review, Site Investigation and Topographic Survey, and Base Map Development

Under this task, the EKI team will review the available as-built records and other documentation for the Project site and create a project library.

EKI's subconsultant U&R will perform topographic surveying and mapping to accurately locate existing elevations, improvements, structures, and utilities within the Project extent. EKI will request that the District mark its water mains and call in an Underground Service Alert (USA) to mark the high-power electrical line within the survey limits. EKI understands that the District will pothole the existing PG&E electrical line that runs along the west side of the site prior to field surveying. The surveyor will locate and measure visible surface utility features (water valves, fire hydrants, utility boxes, power poles and boxes, manholes, and invert depths, and underground utility markings).

Once the field investigation and as-built drawing research is complete, EKI will map the Project site in AutoCAD and add the San Mateo County parcels map, utility data from as-built records, and aerial images to the base map.

EKI will visit the site with the District to confirm the base map and key site features.

EKI Assumptions:

- The District will mark their water line, call in the USA ticket, and pothole the high-power electrical lines in the Project extent prior to the field survey visit.
- No boundary survey or the placing of monuments will be completed as part of this scope of work.
- The District will provide CAD and PDF as-built record drawings from the HMB Tank 1 project.

Task 4: Detailed Design

EKI will provide four design submittals corresponding to BODR/30%, 60%, 90%, and Final design.

The BODR/30% Design Submittal will include 30% plans of the Civil, Structural, and ICE drawings and an opinion of probable construction cost (OPC). The BODR will provide details to communicate to the District the Project design so that meaningful discussions can take place and the core Project decisions can be made. The BODR will document the Project surface and subsurface conditions, scope of the proposed Project, key design criteria, constructability and sequencing, evaluation of regulatory requirements for the tank design and construction, demolition requirements, tank piping, appurtenances, ICE requirements, 30% design drawings, and an Association for the Advancement of Cost Engineering (AACE) Class 3 level OPC.

The 60% Submittal will include Civil, Structural, and ICE drawings and details, technical specifications, and an opinion of probable construction cost (OPC). The 90% Design Submittal will include a complete set of Contract Documents including plan sheets, specifications, and an updated OPC. The 90% Design Submittal will also include structural design calculations. The Final Design Submittal will be signed and stamped contract documents suitable for public bidding. The 60% and Final Design Submittals will be submitted to Division of Drinking Water (DDW) for review.

Design review meetings will be held after the District has had time to review the BODR/30%, 60%, and 90% Design Submittals with comments documented and tracked to confirm incorporation into the subsequent Design Submittal.

The anticipated list of contract drawings for the Project is presented in Table 1 below.

Table 1. Anticipated List of Contract Drawings

Sheet No.	Description	Sheet No.	Description
General		Structural	
G-1	Title Sheet, Project Location, and Vicinity Map	S-1	Structural General Notes - 1
G-2	General Notes	S-2	Structural General Notes - 2
G-3	Legend, Abbreviations, and Symbols – 1	S-3	Quality Assurance Plan and Notes - 1
G-4	Legend, Abbreviations, and Symbols – 2	S-4	Quality Assurance Plan and Notes - 2
G-5	Process Flow Diagram	S-5	Tank Foundation Plan
G-6	New Hydraulic Profile	S-6	Tank Roof Plan
G-7	Construction Access Plan	S-7	Tank Section Details
G-8	Survey Points	S-8	Roof Slab Details
G-9	Construction Best Practices	S-9	Reinforcing and Joint Details
Civil		S-10	Prestressed Wall Sections and Details
U-1	Existing Site Plan	S-11	Prestressed Wall Elevation and Details
D-2	Demolition Plan	S-12	Tank Miscellaneous Details and Prestressing Notes
C-1	Temporary Excavation and Staging Plan	S-13	Site Hatch and Overflow Wall Penetration Details
C-2	Final Site Plan	S-14	Foundation and Pipe Block Details
C-3	Final Site Sections	S-15	Interior Ladder and Roof Hatch Details
C-4	Yard Piping Plan	S-16	Reservoir Exterior Staircase Details
C-5	Civil Details - 1	S-17	Tank Bridge Details
C-6	Civil Details - 2		
Mechanical		Instrumentation, Controls, and Electrical	
M-1	Plans	GE-1	Electrical – Legend and Abbreviations
M-2	Sections	GE-2	Electrical Installation Details
M-3	Sections, Elevation, and Details	E-1	Electrical – Single Line Diagram
M-4	Mechanical Details-1	E-2	Electrical – Overall Electrical Site Plan
M-5	Mechanical Details-2	E-3	Electrical – Tank Electrical Plan
		E-4	Electrical – Conduit Schedule and Photos
		GI-1	Instrumentation – Legend and Abbreviations
		GI-2	Instrumentation – Installation Details
		I-1	Instrumentation – Process Piping and Instrumentation Diagram

Deliverables:

- 30% Design Submittal/Basis of Design Report:
 - PDF file of the Basis of Design Report.
- 60% Design Submittal:
 - PDF file of the Final Basis of Design Report;
 - PDF file of the 60% plans;
 - PDF file of the 60% technical specifications;
 - PDF file of the 60% structural design calculations; and
 - PDF file of the 60% OPC.
- 90% Design Submittal:
 - PDF file of the 90% plans;
 - PDF file of the 90% front end and technical specifications;
 - PDF file of the 90% structural design calculations; and
 - PDF file of the 90% OPC.
- Final Design Submittal:
 - PDF file and five (5) 22" x 34" hard copies of the signed and stamped final plans;
 - PDF file and five (5) hard copies of the signed and stamped final specifications;
 - PDF file of the signed and stamped structural design calculation package; and
 - An editable Word file of the Notice to Bidders.
- 30%, 60%, and 90% Design Review Workshop agendas and meeting minutes.

EKI Assumptions:

- The BODR will be finalized as part of the 60% Design Submittal.
- EKI will submit the 60% and Final Design Submittals to DDW. We are assuming minimal comments because the design will be prepared in accordance with published requirements.
- The Final Design documents will be suitable for public bidding.
- The bid documents will incorporate the tank structural design instead of including the structural design as a deferred submittal.
- HMB Tank 2 will match the floor elevation, overflow height, and roof height of HMB Tank 1.
- Design documents will be based on the District standard front end, technical specifications, and details, with EKI preparing additional technical specifications, as necessary.
- The existing electrical service is adequate to handle loads of new equipment.
- The new tank will include an exterior staircase and bridge for access between tanks at the roof.

- The existing programmable logic controller (PLC) has spare capacity for HMB Tank 2 instrumentation.
- Full-sized plan sheets will be 22" x 34".
- The District will review and provide comments at the BODR/30%, 60%, and 90% level of design.

Task 5: Environmental Permitting Support

For the HMB Tank 1 Project, the District issued a California Environmental Quality Act (CEQA) Notice of Exemption (State Clearinghouse No. 2024030143), and the City of Half Moon Bay (City) issued a Coastal Development Permit (CDP) exemption (Project No. PDP-23-89). Additionally, as part of the CEQA and CDP process, the District prepared a biological resources technical memorandum (SWCA, March 2023) and a cultural resources inventory report (SWCA, September 2023).

ESA assumes that the Project qualifies for the same CEQA and CDP exemptions as the previous phase and that the information contained in the existing studies is generally adequate to cover the Project, with only minimal updates for currentness and to specifically address the Project's disturbance area.

ESA will prepare brief Biological Resources and Cultural Resources Assessment Memoranda to support CEQA and CDP exemption applications.

The Biological Resources Assessment will characterize the biological resources in the Project site. ESA will review and incorporate relevant information from the March 2023 biological resources technical memorandum (TM) and conduct an updated search of State and Federal special-status species databases, review available potential wetlands and water features datasets, and review sensitive natural communities lists maintained by the California Department of Fish and Wildlife (CDFW). A qualified biologist will conduct a site survey to determine whether the March 2023 TM remains accurate. Our team will summarize all work in a brief memorandum.

The Cultural Resources Assessment will characterize the cultural resources of the Project site. ESA will review and incorporate relevant information from the September 2023 cultural resources inventory report and conduct an updated search of the California Historical Resources Information System at the Northwest Information Center. A qualified archeologist will conduct a site survey to determine whether the September 2023 report remains accurate. Our team will also document and evaluate the eligibility of the existing Tank 3 for listing on the National Register of Historic Places and California Register of Historic Resources. Our team will summarize all work in a brief memorandum.

The EKI team will prepare a draft and final Class 2 Categorical Exemption for CEQA, which will summarize the memorandums developed as described above, along with relevant best management practices (BMPs) developed for the Phase 1 project.

The EKI team will prepare a draft and final CDP Exemption Application Package that will contain a completed Planning Permit Application Form, a brief Project description and explanation of the Project needs, a photo log of existing conditions, and justification for the CDP exemption based upon current

Local Coastal Program policies, the CEQA exemption and memoranda, and property ownership, site plans, and elevation drawings.

The EKI team will attend as-needed coordination meetings with District Staff throughout the permitting process.

Deliverables:

- PDF draft and final Biological Resources Assessment Memorandum.
- PDF draft and final Cultural Resources Assessment Memorandum.
- PDF draft and final CEQA Exemption Memorandum.
- PDF draft and final Notice of Exemption Form uploaded to the State Clearinghouse (SCH) via CEQA Submit.
- PDF draft and final CDP Exemption Application.

EKI Assumptions:

- The 60% Design Submittal will be sufficient for the permitting application.
- Native American outreach is not required.
- No archaeological resources will be identified.
- The only cultural resource that will need to be documented and evaluated is the existing HMB Tank 3. HMB Tank 3 is not eligible for the National Register or California Register.
- The EKI team will attend up to 6 environmental permitting coordination meetings that are assumed to be virtual.
- The District will file the final Notice of Exemption with the County of San Mateo.
- The District will pay permitting fees.
- The District will review and provide comments on the memoranda and forms.
- The District will approve the EKI Team to submit documents to SCH.
- A site visit will not be required for the CDP application.

Task 6: Bid Support Services

During the bidding period, EKI will participate in a pre-bid meeting, provide responses to questions from prospective bidders, prepare up to three addenda, and provide a review of bids to determine if bids are responsive and responsible.

Deliverables:

- Responses to bidders' questions.
- Pre-bid meeting agenda and meeting minutes.
- Up to three bid addenda.

- Bid tabulation and review email.

EKI Assumptions:

- EKI will coordinate with Barker Blue to host the Bid Documents. The District will pay any fees directly to Barker Blue.
- Pre-bid meeting will be held in-person.
- Responses to bidder's questions will be transmitted electronically.
- No more than three bid addenda will be required.

PROJECT SCHEDULE

We are prepared to begin work immediately on this Project upon receipt of authorization to proceed. EKI will provide its services throughout the duration of design and bidding. EKI assumes the following Project schedule:

- The Geotechnical Investigation, Site Investigation, and Preliminary Design will begin and be completed in 2026;
- The 60%, 90%, and Final Design will be completed in 2027; and
- Bidding support will be completed in 2028.

COMPENSATION FOR CONSULTING SERVICES

We propose that compensation for consulting services by EKI be on a time and expense reimbursement basis in accordance with our attached current Schedules of Charges, dated 1 January 2026. EKI agrees to continue to use the 1 January 2026 Schedules of Charges through December 2028. Based on the proposed Scope of Work described above, we propose a budget of \$636,800 for the completion of Tasks 1 through 6 as shown by task in Table 2 below and detailed in Table 3, attached. The total budget will not be exceeded without additional authorization.

Table 2. Proposed Cost by Tasks

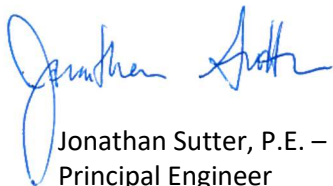
Task	Description	Task Total
1	Project Management and Coordination	\$ 62,100
2	Geotechnical Investigation	\$ 19,400
3	Document Review, Site Investigation and Topographic Survey, and Base Map Development	\$ 27,200
4	Design Services	\$ 441,500
5	Environmental Permitting Support	\$ 57,300
6	Bid Support Services	\$ 29,300
Total Estimated Budget		\$ 636,800

TERMS AND CONDITIONS

Other than the scope of work, budget, and schedule herein, the work will be performed in accordance with our current Agreement. Thank you for the opportunity to work with the District on this project. Please contact Jonathan Sutter at 650-292-9100 with any questions.

Very truly yours,

EKI ENVIRONMENT & WATER, INC.



Jonathan Sutter, P.E. – C 81606
Principal Engineer



Andree Lee
Executive Vice President

Attachments

Table 3 – Proposed Budget

EKI Schedule of Charges, dated 1 January 2026

Table 3. Estimated Fee - Half Moon Bay 2 Tank Project

Coastside County Water District, Half Moon Bay, California
(EKI B80108.59)

TASKS					LABOR COST (\$)	SUBS					OTHER DIRECT COSTS					TOTAL DIRECT COSTS	TOTAL	
	G5 Engineer	Jordan Gans, P.E.	Tim Beaman, P.E.	Jonathan Sutter, P.E.		Cleary Consultants, Inc.	Underwood and Rosenblum, Inc.	Peterson Structural Engineers	TJC and Associates ICE	Environmental Science Associates	UNIT	QUANTITY	UNIT COST	TOTAL COST	MARKUP ON DIRECT COSTS		TASK BUDGET TOTALS (\$)	ROUNDED BUDGET TOTALS (\$)
Task 1 - Project Management and Coordination																		
General Project Management		52	52	26	\$39,546												\$39,546	
Project Meetings																		
Kick Off Meeting	4	3	2	2	\$2,815												\$2,815	
Facilities/BOD Meetings	8	6	2	6	\$5,650						LS	1	\$200	\$200	\$20	\$220	\$5,870	
Bi-Weekly Progress Meetings During Design		16	16	6	\$11,462												\$11,462	
Communications Fee (EKI Labor Only)												4%	\$59,473			\$2,379	\$2,379	
Task 1 Subtotal	12	77	72	40	\$59,473										\$20	\$2,599	\$62,072	\$62,100
Task 2 - Geotechnical Investigation																		
Geotechnical Investigation	2	4	4	1	\$3,039	\$14,800									\$1,480	\$16,280	\$19,319	
Communications Fee (EKI Labor Only)												4%	\$2,571			\$103	\$103	
Task 2 Subtotal	2	4	4	1	\$3,039	\$14,800									\$1,480	\$16,383	\$19,422	\$19,400
Task 3 - Document Review, Site Investigation and Topographic Survey, and Basemap Development																		
Document Request and Review	6	2	2	1	\$2,571												\$2,571	
Site Investigation and Topographic Survey	4	4	2	1	\$2,703		\$10,000								\$1,000	\$11,000	\$13,703	
Basemap Development	32	8	5	3	\$10,302												\$10,302	
Communications Fee (EKI Labor Only)												4%	\$15,576		\$1,558	\$623	\$623	
Task 3 Subtotal	42	14	9	5	\$15,576		\$10,000								\$2,558	\$11,623	\$27,199	\$27,200
Task 4 - Detailed Design																		
Develop BODR	40	18	12	8	\$18,278			\$3,647	\$3,528						\$718	\$7,893	\$26,171	
Develop 30% Plans	40	18	12	8	\$18,278			\$5,730	\$5,545						\$1,128	\$12,403	\$30,681	
Develop 30% Opinion of Probable Construction Cost	12	8	6	4	\$7,498			\$1,042	\$1,008						\$205	\$2,255	\$9,753	
QA/QC BODR/30% Design Submittal				6	\$2,118												\$2,118	
Prepare, Conduct, and Document BODR/30% Design Review	6	6	4	4	\$5,280												\$5,280	
Develop 60% Plans	120	80	40	20	\$61,060			\$14,599	\$12,887						\$2,749	\$30,234	\$91,294	
Develop 60% Specifications	60	40	20	8	\$29,824			\$9,290	\$8,201						\$1,749	\$19,240	\$49,064	
Develop 60% Opinion of Probable Construction Cost	32	16	8	4	\$13,612			\$2,654	\$2,343						\$500	\$5,497	\$19,109	
Finalize BODR	8	6	2	2	\$4,238												\$4,238	
QA/QC 60% Design Submittal				12	\$4,236												\$4,236	
Prepare, Conduct, and Document 60% Design Review	4	4	2	2	\$3,056												\$3,056	
Develop 90% Plans	90	50	32	16	\$44,424			\$15,387	\$5,369						\$2,076	\$22,832	\$67,256	
Develop 90% Specifications	40	24	10	8	\$19,038			\$9,792	\$3,417						\$1,321	\$14,530	\$33,568	
Develop 90% Opinion of Probable Construction Cost	12	8	6	4	\$7,498			\$2,798	\$976						\$377	\$4,151	\$11,649	
QA/QC 90% Design Submittal				8	\$2,824												\$2,824	
Prepare, Conduct, and Document 90% Design Review	4	4	2	2	\$3,056												\$3,056	
Develop Final Plans	36	20	15	10	\$19,795			\$7,884	\$3,222						\$1,111	\$12,216	\$32,011	
Develop Final Specifications	36	20	10	6	\$16,668			\$5,017	\$2,050						\$707	\$7,774	\$24,442	
Develop Final Opinion of Probable Construction Cost	10	6	4	2	\$5,274			\$1,434	\$586						\$202	\$2,221	\$7,495	
QA/QC Final Design Submittal				6	\$2,118						LS	1	\$500	\$500	\$50	\$550	\$2,668	
Communications Fee (EKI Labor Only)												4%	\$288,173			\$11,527	\$11,527	
Task 4 Subtotal	550	328	185	140	\$288,173			\$79,274	\$49,131						\$12,890	\$153,322	\$441,495	\$441,500
Task 5 - Environmental Permitting Services																		
Biological Resources Assessment Memorandum		1	1	2	\$1,290					\$9,265					\$927	\$10,192	\$11,482	
Cultural Resources Assessment Memorandum		1	1	2	\$1,290					\$12,846					\$1,285	\$14,131	\$15,421	
CEQA Development Permitting Exemption Application		1	1	2	\$1,290					\$9,882					\$988	\$10,870	\$12,160	
CDP Exemption Application		1	1	2	\$1,290					\$8,549					\$855	\$9,404	\$10,694	
Permitting Support Meetings										\$6,703					\$670	\$7,373	\$7,373	
Communications Fee (EKI Labor Only)												4%	\$5,160			\$206	\$206	
Task 5 Subtotal		4	4	8	\$5,160					\$47,245					\$4,724	\$52,175	\$57,335	\$57,300
Task 6 - Bid Support Services																		
Pre-Bid Meeting	8	6	4	4	\$5,630						LS	1	\$250	\$250	\$25	\$275	\$5,905	
Provide Bid Support (respond to questions and issue addenda)	32	8	6	4	\$10,998			\$4,640	\$2,897						\$754	\$8,291	\$19,289	
Bid Open (Attend and Provide Bid Review)	8	2	2	2	\$3,274												\$3,274	
Communications Fee (EKI Labor Only)												4%	\$19,902			\$796	\$796	
Task 6 Subtotal	48	16	12	10	\$19,902			\$4,640	\$2,897						\$779	\$9,362	\$29,264	\$29,300
TOTALS:	654	443	286	204	\$391,323	\$14,800	\$10,000	\$83,914	\$52,028	\$47,245				\$950	\$22,451	\$245,464	\$636,787	\$636,800

Client/Address: Coastside County Water District
766 Main Street, Half Moon Bay, CA 94019



Proposal/Agreement Date: 08/24/2026

EKI Proposal/Project # B80108.59

SCHEDULE OF CHARGES FOR EKI ENVIRONMENT & WATER, INC.

1 January 2026

<u>Personnel Classification</u>	<u>Hourly Rate</u>
Officer and Chief Engineer-Scientist	366
Principal Engineer-Scientist	353
Supervising I, Engineer-Scientist	343
Supervising II, Engineer-Scientist	329
Senior I, Engineer-Scientist	315
Senior II, Engineer-Scientist	304
Associate I, Engineer-Scientist	291
Associate II, Engineer-Scientist	275
Engineer-Scientist, Grade 1	255
Engineer-Scientist, Grade 2	241
Engineer-Scientist, Grade 3	221
Engineer-Scientist, Grade 4	199
Engineer-Scientist, Grade 5	175
Engineer-Scientist, Grade 6	152
Project Assistant	143
Technician	137
Senior GIS / Database Analyst	180
CADD Operator / GIS Analyst	157
Senior Administrative Assistant	172
Administrative Assistant	136
Secretary	114

Direct Expenses

Reimbursement for direct expenses, as listed below, incurred in connection with the work will be at cost plus ten percent (10%) for items such as:

- a. Maps, photographs, reproductions, printing, equipment rental, and special supplies related to the work.
- b. Consultants, soils engineers, surveyors, drillers, laboratories, and contractors.
- c. Rented vehicles, local public transportation and taxis, travel, and subsistence.
- d. Special fees, insurance, permits, and licenses applicable to the work.
- e. Outside computer processing, computation, and proprietary programs purchased for the work.

A Communication charge for e-mail access, web conferencing, cellphone calls, messaging and data access, file sharing, local and long distance telephone calls and conferences, facsimile transmittals, standard delivery U.S. postage, and incidental in-house copying will be charged at a rate of 4% of labor charges. Large volume copying of project documents, e.g., bound reports for distribution or project-specific reference files, will be charged as a project expense as described above.

Reimbursement for company-owned automobiles, except trucks and four-wheel drive vehicles, used in connection with the work will be at the rate of sixty cents (\$0.60) per mile. The rate for company-owned trucks and four-wheel drive vehicles will be seventy-five cents (\$0.75) per mile. There will be an additional charge of thirty dollars (\$30.00) per day for vehicles used for field work. Reimbursement for use of personal vehicles will be at the federally allowed rate plus ten percent (10%).

CADD and other specialized software computer time will be charged at twenty dollars (\$20.00) per hour. In-house material and equipment charges will be in accordance with the current rate schedule or special quotation. Excise taxes, if any, will be added as a direct expense.

Rate for professional staff for legal proceedings or as expert witnesses will be at a rate of one and one-half times the Hourly Rates specified above.

The foregoing Schedule of Charges is incorporated into the Agreement for the Services of EKI Environment & Water, Inc. and may be updated annually.

RACHEL HANKE, PE

Structural Project Manager

Rachel is a licensed Professional Engineer with 11 years of structural engineering experience. Her experience includes a variety of project types, including water- and wastewater-related projects, industrial process equipment, and work for various municipalities. Rachel has served as Project Manager for more than 30 reservoir design, evaluation and improvements projects and has overseen those projects successfully through design and completion of construction. Her fastidious attention to detail, clear communications, and project management acumen ensure that the projects that she has worked on have been efficiently designed, on-time and on-budget.

Relevant Experience

King County Water District No. 49, Burien (3.7 MG) Reservoir, Burien, WA

PSE provided structural design for the construction of this new 3.7 MG Type 1 prestressed concrete water reservoir for King County Water District No. 49. This partially buried tank, located just off the Puget Sound, was limited by jurisdictional height restrictions and included the design of roof to wall seismic cables to resolve the forces imparted on the roof by the slosh wave. Also included in this contract was the design of an 18-ft tall CMU pump station (including a 3,000 lb capacity bridge crane), and backup generator power unit foundation with a cantilevered CMU screen wall. PSE also performed structural services during construction including submittal and RFI review, along with performance of structural observations.

San Jose Water, Miguelito Station (two 0.8 MG) Tanks, San Jose, CA

PSE was contracted to perform the structural design for two new 0.8 MG circular, prestressed concrete potable water storage tanks as part of the Miguelito Station Improvement Project for San Jose Water Company. The two new reservoirs will replace two existing earth embankment reservoirs, whose construction dates back to 1927 and 1962. PSE's design of the new reservoirs included conformance with AWWA D110, ACI 350, the 2025 California Building Code, and owner-specific requirements. PSE's scope also included the design of an interior wall-mounted staircase to facilitate future maintenance access.

North Coast County Water District, Fassler Tank (1.2 MG) Replacement, Pacifica, CA

PSE provided structural design of a new 1.2 MG prestressed concrete tank to replace an existing welded steel tank. During pre-design, PSE worked with the design team to review site constraints and constructibility concerns. The design has advanced to the 90% level and permitting is ongoing.

City of Everett, Reservoir No. 2 Replacement (two 2.5 MG), Everett, WA

PSE provided structural design of two new 2.5 MG AWWA D110 Type 1 tanks to replace Reservoir 2, an aging 10 MG open reservoir on the same project site. Scope also included support for improvements to Reservoir 4, which catches both the overflow and the drain lines from Reservoir 2, as well as a new CMU storage building with a bridge crane. The Reservoir 4 improvements included modifications to the drain line, design for a new soldier pile wall, and trench excavation adjacent to Reservoir 4. PSE also provided support through construction.

Tualatin Valley WD, Taylors Ferry (two 1.75 MG) Reservoir Replacement, Portland, OR

PSE provided structural design for two new 1.75 MG Type 1 prestressed concrete reservoirs and associated auxiliary structures for the Tualatin Valley Water District. The structural scope of this project included the design of the two reservoirs, a new CMU pump station, a new CMU operations building, and an access bridge to span between the reservoirs. All structures in this project were designed to the more stringent requirements of the Willamette Water Supply Program which requires higher than code required seismic loading as well as additional detailing requirements.



EDUCATION

BS, Civil Engineering,
Oregon State University

YEARS EXPERIENCE

11

REGISTRATIONS

Professional Engineer: CA, OR, AL

MEMBERSHIPS

Structural Engineers
Association of Oregon (SEAO)

American Society of Civil
Engineers (ASCE)

City of Redmond, Pressure Zone 1A (4.0 MG) Reservoir, *Redmond, OR*

PSE provided structural engineering design and construction services for a new 4.0 MG prestressed concrete AWWA D110 Type 1 reservoir and CMU pump station. Reservoir design incorporated seismic detailing at the wall base and top, unique to the circular prestressed concrete tank design. Design included a specially reinforced concrete wall and a monoslope roof framed with parallel chord trusses. Design coordination elements included excavation and backfilling to provide a buried structure which best utilized the selected site, seismic design to meet the site-specific design earthquake criteria, as well as specifications to ensure appropriate contractor experience in liquid-tight prestressed concrete tank construction.

City of Daly City, Reservoir 6B (1.5 MG) Seismic Evaluation, *Daly City, CA*

PSE provided the seismic analysis of a 1.5 MG circular, prestressed concrete tank to identify structural deficiencies and associated recommendations for improvements. As part of the project, PSE evaluated the feasibility of options for replacing the existing damaged wood roof. Replacement roof options included a clear-span concrete dome, column supported flat slab roof, or an aluminum geodesic dome or column supported roof.

EWEB, College Hill (two 7.5 MG) Prestressed Reservoirs, *Eugene, OR*

PSE provided structural consulting services for the design of two new 7.5 MG prestressed concrete water storage tanks. The new water tanks were designed to the AWWA D110 standard for wire or strand wound, prestressed concrete tanks and current International Building Code requirements, as amended by the state of Oregon. Project specific design considerations included the anticipated future green roof loading conditions, minor differential backfill across the site, and intentional conservatism beyond current code requirements to accommodate anticipated updates in the next cycle. To address the Owner's maintenance access preference, a stair tower design was included for each reservoir. PSE has also performed construction services through the substantial completion of the tank construction phase, including submittal review, RFI review, and performance of code required structural observations.

City of Petaluma, La Cresta Welded Steel Tank Replacement, *Petaluma, CA*

PSE is providing structural engineering for the design of a 1 MG welded steel tank which will replace two aging tanks on the same project site. PSE's scope consists of the full design of the steel tank, including construction bid drawings and specifications, in conformance with AWWA D100-21 Standard: "Welded Carbon Steel Tanks for Water Storage." In addition, PSE will design a related CMU building with an approximate footprint of 625 SF to be located near the new 1 MG tank. PSE will also provide support through construction, including submittal and RFI review, and performance of structural observations.

City of Beaverton, Cooper Mountain (5.5 MG) Reservoir No. 2 and Pump Station, *Beaverton, OR*

PSE provided structural design for the construction of a new 5.5 MG AWWA D110 Type 1 prestressed concrete reservoir and associated CMU pump station for the City of Beaverton. For this project PSE worked with our civil prime to determine the appropriate dimensions, location on site, and design for the prestressed reservoir and pump stations. The reservoir was designed to client specific design standards and required seismic cables from the top of the wall to the roof in order to contain high slosh pressures. PSE also provided design of both a booster pump station and an aquifer storage recovery building. Both CMU buildings involved piping coordination and complex trench foundation design. In addition, the design called for the construction of special reinforced CMU wall, a BPS and ASR building, and manufactured wood truss roofs. PSE coordinated the roof framing design to accommodate hatches in the roof to be used for future pump installation and maintenance. PSE performed construction services through the completion of the project, including value engineering while coordinating with the contractor.

City of Everett, Reservoir 3 (8.0 MG) Replacement, *Everett, WA*

PSE provided structural design and construction support services for the replacement of the City's 100-year-old, 20 MG concrete reservoir. The existing reservoir is a critical distribution hub for the City and the larger Snohomish County water supply system and was in urgent need of replacement. The first phase included the design and construction of a 218-foot diameter, 8 MG circular prestressed concrete reservoir adjacent to the existing reservoir. The completion of Phase 1 will allow for the decommission and demolition of the existing reservoir to prepare for construction of Phase 2 in its footprint. The Phase 2 prestressed reservoir is estimated to be 15 MG and 294 feet in diameter for a combined capacity of 23 MG.

Clackamas River Water, 152nd Avenue (6.0 MG) Concrete Reservoir, *Clackamas, OR*

PSE provided structural design of a new 6.0 MG base isolated prestressed concrete water reservoir. The new reservoir was designed as an AWWA D110 prestressed concrete reservoir and has a 169' inside diameter with a wall height of 39'. The reservoir is partially buried and required close coordination between PSE and the civil and geotechnical engineers. Challenging geotechnical conditions required design of a mat slab foundation and 3-D finite element modeling of the slab and roof/wall and column interactions. In addition, a new flow control vault structure was designed that is to be cast in place concrete, approximately 500 SF and over 30' in depth. The top of the flow control vault is a concrete slab designed to resist vehicular loads and also supports a CMU control building

TRAVIS MCFERON, PE, SE

Structural Principal-in-Charge

Travis is President and CEO at PSE and has 25 years of experience, much of which is centered on PSE's reservoir and pump station work throughout the West Coast. He has worked on a variety of large-scale projects including essential facilities such as municipal treatment plants, water storage reservoirs, and other essential structures. Travis' tank design experience is extensive, his experience includes over 200 reservoir projects, ranging from new designs to existing tank rehabilitations of various tank types including prestressed concrete, reinforced concrete, welded and bolted steel.

Relevant Experience

Town of Hillsborough, Darrell (2.0 MG) Prestressed Concrete Tank, Hillsborough, CA

PSE was contracted for the design of a new 2 MG prestressed concrete tank to replace two existing, aging 0.5 MG welded steel tanks for the Town of Hillsborough. The new tank is an at-grade prestressed concrete structure (AWWA D110, Type I) located adjacent to the San Andreas Fault. The large seismic accelerations expected at the site resulted in a calculated slosh wave height of 9 feet and required the tank design to incorporate a deep keyway to address global sliding stability. The design required a finite element analysis of the floor slab using SAFE. The new tank is in a residential neighborhood, which limited the overall height of the tank to 24 feet to minimize visibility, requiring tie-down cables between the wall top and roof to address uplift pressure from the slosh wave. The project scope includes work from predesign through construction services.

City of Lynwood, Ham Park (3.0 MG) Reservoir No. 2, Lynwood, CA

PSE provided structural design of the Ham Park Reservoir No. 2 and booster pump station in the City of Lynwood. The reservoir design is a performance specification for a 3 MG fully buried prestressed concrete reservoir in conformance with AWWA D110 Type I. The reservoir design includes details for a rooftop sport court with chain link fencing and perimeter guardrail. The booster pump station is a CMU building with pre-manufactured roof trusses. It features three skylight openings in the roof and contains reinforced concrete foundations for three vertical turbine pumps. PSE has completed design and will provide structural support throughout bidding and construction of the project.

City of Fresno, Southwest Recycled WS Storage (3.0 MG) Tank, Fresno, CA

PSE is providing structural engineering services for the design of a circular, prestressed concrete tank, buried concrete vaults, and pre-engineered metal electrical building for the Southwest Recycled Water System in Fresno, California. The project is part of the City's 2010 Recycled Water Master Plan and interest in expanding the availability of recycled water to their customers for use in open spaces, parks, street medians, and golf courses. PSE generated the preliminary foundation design for the building and prepared the structural design criteria and performance specifications. PSE will review the final design by the building manufacturer for compliance with the structural design criteria and finalize the foundation design. PSE also designed two buried concrete vault structures to support the inlet and outlet valves for the tank. The vaults are designed to support H-20 truck loading.

San Jose Water, Cambrian (two 8.0 MG) Reservoir Replacement, San Jose, CA

PSE provided the structural design for two new water storage tanks for the San Jose Water Company to replace an existing in-ground embankment style reservoir built in 1916. The two new 8 MG tanks are circular, prestressed concrete potable water tanks that meet or exceed the requirements found in American Water Works Association Standard (AWWA) D110, ASCE 7 and ACI 350. The site-specific seismic design parameters are based on ASCE 7, Chapter 21. PSE was responsible for the design of the complete tank structures, including the specialty prestressing operations (circumferential and vertical) specified for the tank. The design also required a finite element model of the floor slab for the total and differential settlements at the site.



EDUCATION

MS, Civil Engineering,
Portland State University

BS, Civil Engineering,
Portland State University

OFFICE LOCATION

Portland Office
9400 SW Barnes Road #100
Portland, OR 97225

YEARS EXPERIENCE

25

REGISTRATIONS

Professional Engineer: CA, OR,
WA, CO, GA, MA, MI, MN, NC, SC,
TX, VA

Structural Engineer: CA, OR, WA,
HI, UT

MEMBERSHIPS

Structural Engineers Association
of Oregon

American Council of Engineering
Companies

American Society of Civil
Engineers

American Water Works
Association

American Institute of Steel
Construction

NCEES Structural Committee

City of Poway, Clearwell Replacement (two 4.0 MG) Concrete Tanks, Poway, CA

PSE was contracted for the design of two 4 MG prestressed concrete tanks to replace an existing 10 MG concrete basin with a floating cover. The new tanks will be at-grade prestressed concrete structures (AWWA D110, Type I) located adjacent to the City's Berglund Water Treatment Plant. The tank dimensions are approximately 210 ft dia and 19 ft wall height. PSE's scope includes preliminary design related to geotechnical investigation field work, construction estimates, technical specifications, and complete structural design details for the new tanks. PSE is also responsible for the structural design of a cast-in-place concrete drain and outlet vault. When completed, the two tanks will provide Poway's water system with redundancy and operational flexibility, allowing one tank to be taken offline for maintenance and repairs without interrupting service.

San Jose Water, Miguelito Station (two 0.8 MG) Tanks, San Jose, CA

PSE was contracted to perform the structural design for two new 0.8 MG circular, prestressed concrete potable water storage tanks as part of the Miguelito Station Improvement Project for San Jose Water Company. The two new reservoirs will replace two existing earth embankment reservoirs, whose construction dates back to 1927 and 1962. PSE's design of the new reservoirs included conformance with AWWA D110, ACI 350, the 2025 California Building Code, and owner-specific requirements. PSE's scope also included the design of an interior wall-mounted staircase to facilitate future maintenance access.

City of Tualatin, SW 108th Avenue Reservoir (2.5 MG) Reservoir & Pump Station, Tualatin, OR

PSE provided structural design for a 2.5 MG prestressed concrete reservoir and a CMU pump station building. Due to hydraulic requirements, the overflow depth was 59'-4", leading to unusually tall walls. PSE utilized a concrete dome roof on the reservoir to avoid oversized tall columns. PSE's expertise in D110 reservoirs and prior experience designing tall tanks contributed to the success and efficiency of this project. PSE is currently providing construction support services, including RFI review, submittal review, and structural observations.

City of Wilsonville, West Side Level B (3.0 MG) Reservoir, Wilsonville, OR

PSE is providing structural engineering services for the design and construction of the City's West Side Level B Reservoir. Currently in construction, the new reservoir will be a 3 MG AWWA D110 circular prestressed concrete tank. PSE's scope includes full structural tank design as well as bidding, permitting, and construction support services throughout the completion of the project. When completed, the reservoir will provide the City with increased capacity for its growing community, as well as increased emergency water supply.

City of Redmond, Pressure Zone 1A (4.0 MG) Reservoir, Redmond, OR

PSE provided structural engineering design and construction services for a new 4.0 MG prestressed concrete AWWA D110 Type 1 reservoir and CMU pump station. Reservoir design incorporated seismic detailing at the wall base and top, unique to the circular prestressed concrete tank design. Design included a specially reinforced concrete wall and a monoslope roof framed with parallel chord trusses. Design coordination elements included excavation and backfilling to provide a buried structure which best utilized the selected site, seismic design to meet the site-specific design earthquake criteria, as well as specifications to ensure appropriate contractor experience in liquid-tight prestressed concrete tank construction.

Clackamas River Water, 152nd Avenue (6.0 MG) Concrete Reservoir, Clackamas, OR

PSE provided structural design of a new 6.0 MG base isolated prestressed concrete water reservoir. The new reservoir was designed as an AWWA D110 prestressed concrete reservoir and has a 169' inside diameter with a wall height of 39'. The reservoir is partially buried and required close coordination between PSE and the civil and geotechnical engineers. Challenging geotechnical conditions required design of a mat slab foundation and 3-D finite element modeling of the slab and roof/wall and column interactions. In addition, a new flow control vault structure was designed that is to be cast in place concrete, approximately 500 SF and over 30' in depth. The top of the flow control vault is a concrete slab designed to resist vehicular loads and also supports a CMU control building.

City of Redmond, Redmond (3.5 MG) Reservoir No. 6, Redmond, OR

PSE provided structural engineering design and construction services for a new 3.5 MG prestressed, concrete reservoir. The reservoir was above grade and included a steel stair tower and a manway hatch in the wall for roof access. The project required close coordination with the geotechnical engineer to resolve help resolve issues related to soft fill on the site.

City of Tigard, Reservoir 18 (4.5 MG) & Pump Station, Tigard, OR

As part of the progressive design-build team, PSE provided structural engineering for the City of Tigard's Reservoir 18. Located in Sunrise Park, the new tank is a 4.5 MG fully buried, prestressed concrete AWWA D110 Type 1 reservoir. PSE provided full structural tank design and standard appurtenance detailing, including roof hatch, roof vent, interior piping supports, pipe blocks, roof guard rail, interior and exterior ladders. PSE also provided construction services including structural observation, submittal review, and RFI review. When completed, Reservoir 18 will support the City's future population growth and better meet peak demand periods. As an added benefit, the fully buried design will leave the space that can be utilized for potential future park use. (NOTE: This was confirmed as PDB, not CMGC)