



FALLBROOK PUBLIC UTILITY DISTRICT
MEETING OF THE ENGINEERING & OPERATIONS COMMITTEE

AGENDA

THURSDAY, JANUARY 16, 2025
9:00 A.M.

FALLBROOK PUBLIC UTILITY DISTRICT
990 E. MISSION RD., FALLBROOK, CA 92028
PHONE: (760) 728-1125

THIS MEETING WILL BE HELD AT THE ABOVE DATE, TIME, AND LOCATION AND MEMBERS OF THE PUBLIC MAY ATTEND IN PERSON AT THE DISTRICT OFFICE LOCATED AT 990 E. MISSION RD., FALLBROOK, CA 92028. FOR THE CONVENIENCE OF MEMBERS OF THE PUBLIC WHO DO NOT WISH TO ATTEND IN PERSON, FALLBROOK PUBLIC UTILITY DISTRICT PROVIDES A MEANS TO OBSERVE AND PROVIDE PUBLIC COMMENTS AT THE MEETING VIA WEB CONFERENCE USING THE BELOW CALL-IN AND WEBLINK INFORMATION. PLEASE NOTE THAT IN THE EVENT OF TECHNICAL ISSUES THAT DISRUPT THE ABILITY OF MEMBERS OF THE PUBLIC TO VIEW THE MEETING OR PROVIDE PUBLIC COMMENTS THROUGH THE WEB CONFERENCE OPTION, THE MEETING WILL CONTINUE.

Join Zoom Meeting

<https://us06web.zoom.us/j/86594937365?pwd=kqRY0xatQHgUyNBypFMEOUtzaxXfa.1>

**MEETING ID: 865 9493 7365
AUDIO PASSCODE: 544644**

Dial by your location

+1 346 248 7799 US (Houston); +1 720 707 2699 US (Denver); +1 253 215 8782 US (Tacoma);
+1 312 626 6799 US (Chicago); +1 646 558 8656 US (New York); +1 301 715 8592 US (Washington DC)

Find your local number: <https://us06web.zoom.us/j/kvRWv7LrC>

PUBLIC COMMENTS: Members of the public may submit public comments and comments on agenda items in one of the following ways:

SUBMIT COMMENTS BEFORE THE MEETING:

- By emailing to our Board Secretary at leckert@fpud.com
- By mailing to the District Offices at 990 E. Mission Rd., Fallbrook, CA 92028
- By depositing them in the District's Payment Drop Box located at 990 E. Mission Rd., Fallbrook, CA 92028

All comments submitted before the meeting by whatever means must be received at least 1 hour in advance of the meeting. All comments will be read to the Committee during the appropriate portion of the meeting. Please keep any written comments to 3 minutes.

REMOTELY MAKE COMMENTS DURING THE MEETING: The Committee Chair will inquire prior to Committee discussion if there are any comments from the public on each item.

- Via Zoom Webinar go to the "Participants List," hover over your name and click on "raise hand." This will notify the moderator that you wish to speak during oral communication or during a specific item on the agenda.
- Via phone, you can raise your hand by pressing *9 to notify the moderator that you wish to speak during the current item.

MAKE IN-PERSON COMMENTS DURING THE MEETING: The Committee Chair will inquire prior to Committee discussion if there are any comments from the public on each item, at which time members of the public attending in person may make comments.

THESE PUBLIC COMMENT PROCEDURES SUPERSEDE THE DISTRICT'S STANDARD PUBLIC COMMENT POLICIES AND PROCEDURES TO THE CONTRARY.

If you have a disability and need an accommodation to participate in the meeting, please call the Board Secretary at (760) 999-2704 for assistance.

I. PRELIMINARY FUNCTIONS

CALL TO ORDER / ROLL CALL

PUBLIC COMMENT

II. ACTION / DISCUSSION -----(ITEMS A-G)

- A. PROCUREMENT OF REPLACEMENT PUMPS FOR OVERLAND TRAIL LIFT STATION
- B. PROCUREMENT OF REPLACEMENT UPS FOR THE UV TREATMENT PLANT
- C. PROCUREMENT OF CHLORAMINE BOOSTING SYSTEM FOR THE 8MG RESERVOIR
- D. EASEMENT QUITCLAIM AT BEAVERCREEK LANE
- E. EASEMENT QUITCLAIM AT LANGE RESERVOIR SITE
- F. MOU FOR DEVELOPMENT OF AN OPERATIONS CONTRACT FOR THE NORTHERN AND SOUTHERN TERTIARY TREATMENT PLANTS
- G. AWARD OF CONSTRUCTION MANAGEMENT & INSPECTION PROFESSIONAL SERVICES AGREEMENT

III. ADJOURNMENT OF MEETING

* * * * *

DECLARATION OF POSTING

I, Lauren Eckert, Executive Assistant/Board Secretary of the Fallbrook Public Utility District, do hereby declare that I posted a copy of the foregoing agenda in the glass case at the entrance of the District Office located at 990 East Mission Road, Fallbrook, California, at least 72 hours prior to the meeting in accordance with Government Code § 54954.2.

I, Lauren Eckert, further declare under penalty of perjury and under the laws of the State of California that the foregoing is true and correct.

January 13, 2025
Dated / Fallbrook, CA

/s/ Lauren Eckert
Executive Assistant/Board Secretary

MEMO

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Procurement of Replacement Pumps for Overland Trail Lift Station

Description

Purchase of replacement pumps for the Overland Trail Lift Station (OTLS).

Purpose

The Overland Trail Lift Station is a critical component of the District’s wastewater collections system. Close to half of the District’s wastewater service area drains to the lift station, which then pumps the sewer flows approximately three miles to the water reclamation plant. As part of the capital improvement program, OTLS was recently refurbished, with a construction contract awarded in 2019 and construction scheduled to be completed in 2020. However, the new pumps supplied by that project experienced repeated failures, delaying project implementation, and leaving the lift station dependent on temporary bypass pumps for an extended period of time. Ultimately some modifications to the rebuilt pumps enabled them to function, additional spare pumps were provided, and a settlement agreement with the contractor was finalized in May of 2023. Since that time the lift station has been functional, but with more frequent pump failures than is acceptable. Each time one of the pumps fails, the collections staff have to operate the lift station on a single train, remove the failed pump, install one of the spare pumps, and send out the failed pump to be rebuilt by an outside vendor, which costs \$25,000 to \$35,000 each time. This has occurred about once every 6 months over the past year and a half.

To remedy the issue, staff have worked with multiple pump suppliers to identify a better long term solution. Ultimately, a different style pump was identified that meets the site condition requirements and can be rebuilt with non-proprietary components by District staff on site when necessary. Staff issued an RFP for five interchangeable pumps (two for each pump train and one spare) and received the following two proposals:

COMPANY	AMOUNT
Sloan Electromechanical	\$437,353.60
Muniquip, LLC	\$551,814.69

When the pumps are delivered, District staff will install the pumps at the lift station.

Budgetary Impact

The cost of the pump procurement will be within the Board authorized total capital budget.

Recommended Action

That the Committee recommend to the Board authorization to procure the replacement pumps from the lowest responsible bidder, Sloan Electromechanical, for \$437,353.60.

M E M O

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Procurement of Replacement UPS for the UV Treatment Plant

Description

Purchase of replacement UPS for the UV Treatment Plant.

Purpose

The UV Treatment Plant provides disinfection treatment for the water coming out of the Red Mountain Reservoir. The disinfection process is based on exposure to UV lamps, which are dependent on a constant power source. During normal operation, the power source is the utility electric grid, but as a condition in the DDW operating permit, the plant is required to utilize an uninterruptible power supply (UPS) for emergency situations when the grid power fails. The UPS is essentially an electrical energy storage device with a battery bank and an automatic switch that immediately feeds power to the equipment upon loss of external power. It functions during the time required for the diesel powered backup generator to start, warm up, and begin producing power for the plant. The UPS at the UV Plant has exceeded its useful lifespan and experienced an unrepairable failure in September. It must be replaced to resume normal operation of the UV Plant.

Staff developed a design package and issued an RFP to ten suppliers for the replacement UPS. Only one proposal was received from Sloan Electromechanical for \$167,724.

When the UPS is delivered, District staff will install and integrate the equipment at the UV Plant.

Budgetary Impact

The cost of the UPS replacement will be within the Board authorized total capital budget.

Recommended Action

That the Committee recommend to the Board authorization to procure the replacement UPS from the lowest responsible bidder, Sloan Electromechanical, for \$167,724.

M E M O

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Procurement of Chloramine Boosting System for the 8MG Reservoir

Description

Purchase of a comprehensive chloramine boosting system to be installed at the 8MG Reservoir in De Luz.

Purpose

System demands have dropped dramatically over the past two decades, particularly in the De Luz area, due to reduced agricultural activity and irrigation demands. As a result, the water in the system is not cycled as quickly. As water spends time in the storage tanks and distribution system, the chlorine residual drops, nitrification increases and Disinfection Byproducts (DBPs) are formed. A minimum level of chlorine residual is critical to maintaining a disinfected system. To maintain the appropriate levels, operations staff monitor the water quality and dose additional chlorine into the storage tanks as needed. Due to the reduced demands, staff have had to spend more time manually dosing the De Luz area tanks.

In the fall of 2023, staff piloted a comprehensive chloramine boosting system manufactured by Big Wave Water at the 8MG Reservoir. The pilot period showed the system could successfully maintain adequate chloramine residuals throughout the De Luz area, reducing the need to manually dose the tanks. Staff also toured a site at Valley Center Municipal Water District where they have implemented the same system for the same reasons.

The Big Wave Water Technologies chloramine boosting system is an automated disinfectant system that gives operators the capability to set and control chlorine residual levels in potable water storage tanks using water quality instruments, active mixing, and an automated chemical feed system, to set and maintain chlorine residual levels. It also includes 24/7 monitoring and control logic for autonomous operation. The location at the 8MG Reservoir is ideal because, from the tank, boosted water can be sent to all other parts of the De Luz service area.

The proprietary Big Wave Water Technologies system is the only chlorine booster system package that provides both local service and contains all the components needed, including mixers, analyzers, control panel, chemical feed pump skids, and chemical storage tanks. D&H Water Systems is the sole authorized supplier in the region. The purchase price for the system is \$149,000. When delivered, District staff will install the system at the 8MG Reservoir site.

Budgetary Impact

The cost of the system is within the Board authorized total capital budget.

Recommended Action

That the Committee recommend to the Board authorization to procure the Big Wave Water Technologies Chloramine Boosting System from D&H Water Systems for \$149,000.

M E M O

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Easement Quitclaim at Beaver Creek Lane

Description

Release of existing FPUD easements at Beaver Creek Lane.

Purpose

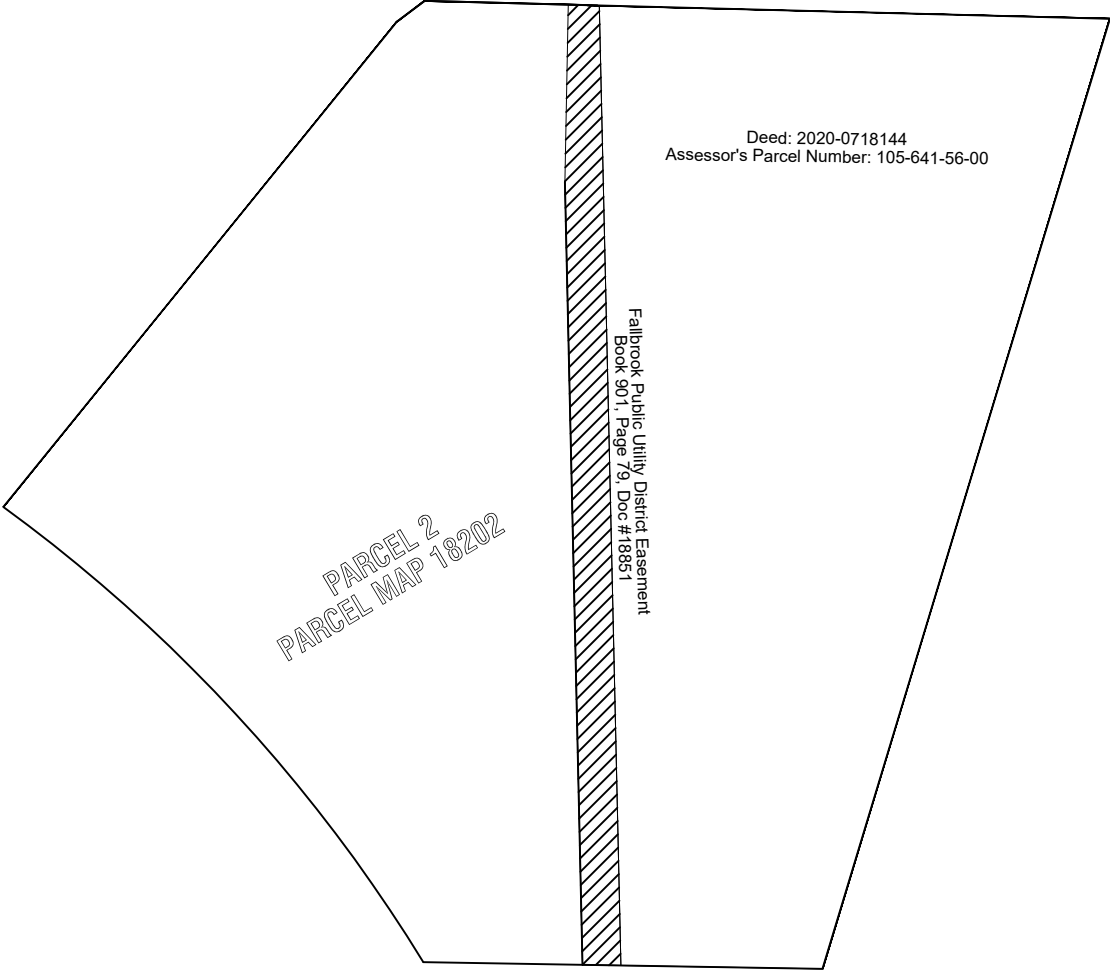
Approximately 600 linear feet of the existing pipeline between Beaver Creek Lane and Fallbrook Street was replaced in November and December as part of an emergency replacement effort. As part of that effort, the pipeline alignment was re-routed slightly, requiring a new easement. Now that the old pipe has been abandoned, the old easements are no longer needed. The easements to be quitclaimed are attached, documents 2012-0747144 and a portion of 1979-0018851.

Budgetary Impact

No Budgetary Impact.

Recommended Action

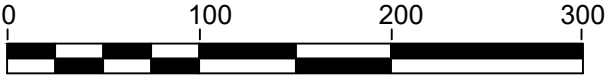
That the Committee recommend to the Board approval of the quitclaim for the existing described easements between Beaver Creek Lane and Fallbrook Street.



Deed: 2020-0718144
Assessor's Parcel Number: 105-641-56-00

PARCEL 2
PARCEL MAP 18202

Fallbrook Public Utility District Easement
Book 901, Page 79, Doc #13851



SCALE: 1" = 100'



PORTION OF
EASEMENT TO
BE QUITCLAIMED



105-641-56-00
QUITCLAIM

EXHIBIT “A”

ALL PORTION OF A 20.00 FOOT EASEMENT GRANTED TO FALLBROOK PUBLIC UTILITY DISTRICT RECORDED APRIL 29TH, 1939, BOOK 901, PAGE 79, DOCUMENT NUMBER 18851 IN THE COUNTY OF SAN DIEGO, LYING WITHIN LAND DEEDED TO ANTHONY CHARLES FIERI AND KAREN LYNN FIERI ON THE DEED RECORDED ON NOVEMBER 16TH 2020 IN THE COUNTY OF SAN DIEGO, UNDER DOCUMENT NUMBER 2020-0718144.

EASEMENT CONTAINS +/- 9824.89 SQ. FEET OR +/-0.22 ACRES

M E M O

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Easement Quitclaim at Lange Reservoir Site

Description

Release of existing FPUD easement at the Lange Reservoir site.

Purpose

The Lange Reservoir on Dickey Street has been out of service for several years and was removed in 2023. The site consists of three one acre parcels, which the District declared surplus land and is now in escrow to sell the properties. As a condition of sale, the buyer requested that an old unneeded FPUD easement be removed by quitclaim. The area to be quitclaimed is a portion of the easement in document 897-359-21295, attached.

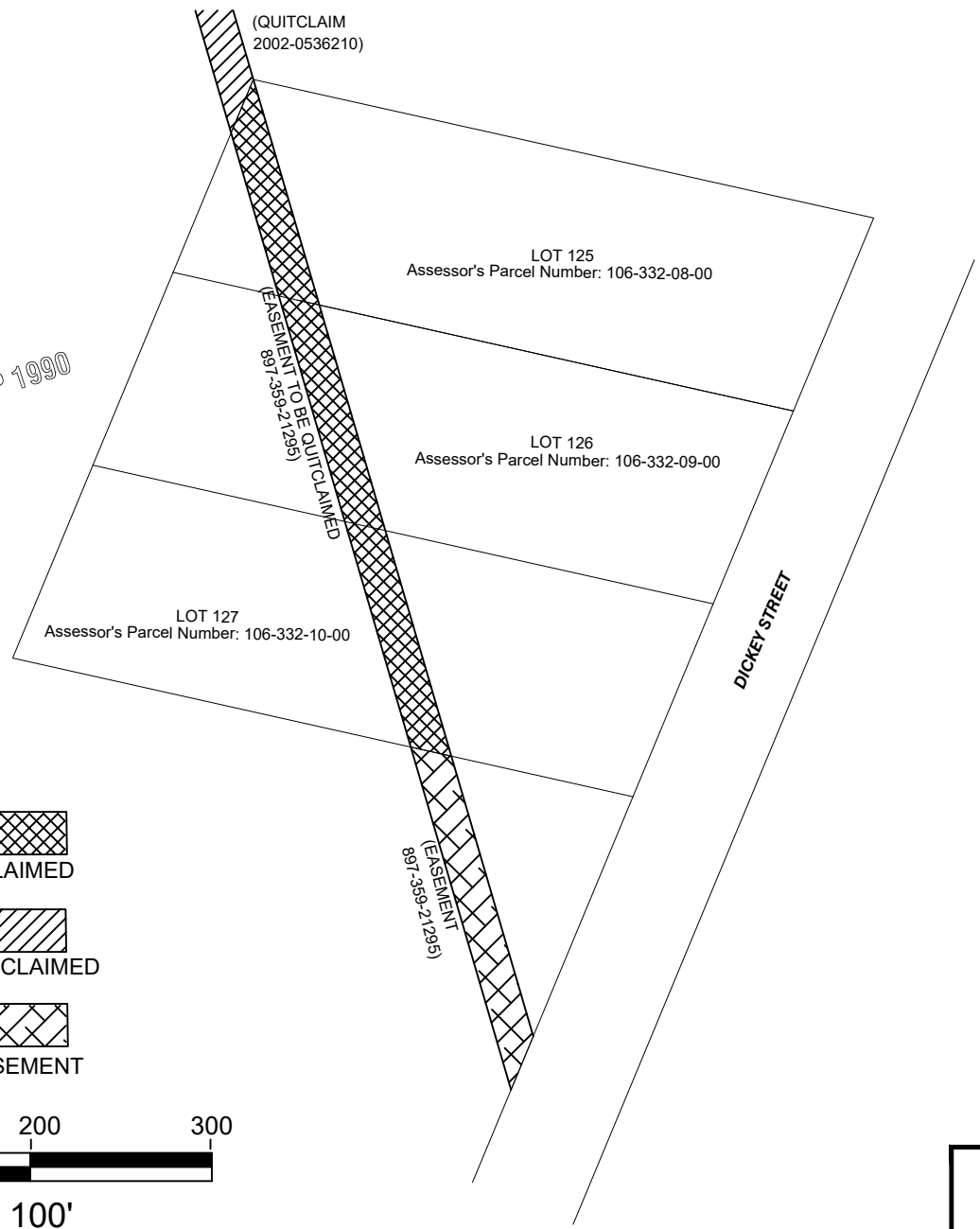
Budgetary Impact



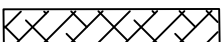
There are no costs associated.

Recommended Action

That the Committee recommend to the Board authorization to quitclaim the existing described easement at the Lange Reservoir site.

SUB DIVISION MAP 1990



-  TO BE QUITCLAIMED
-  ALREADY QUITCLAIMED
-  EXISTING EASEMENT



SCALE: 1" = 100'



106-332-08-00
106-332-09-00
106-332-10-00
QUITCLAIM

EXHIBIT “A”

ALL PORTIONS OF AN EASEMENT GRANTED TO THE FALLBROOK PUBLIC UTILITY DISTRICT IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, RECORDED MAY 12, 1939 IN BOOK 897 AT PAGE 359 AS DOCUMENT NO.21295 LYING WITHIN LOTS 125, 126, & 127 OF MAP NO. 1990 FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY ON JANUARY 20, 1927 AS FILE NO.4288.

EASEMENT CONTAINS +/- 7403.88 SQ. FEET OR +/-0.17 ACRES

M E M O

TO: Engineering & Operations Committee
FROM: Jack Bebee, General Manager
DATE: January 16, 2025
SUBJECT: Memorandum of Understanding for Development of an Operations Contract for the Northern and Southern Tertiary Treatment Plants

Purpose

To obtain approval for the execution of a Memorandum Understanding (MOU) for Development of an Operations Contract for the District to Operate the Northern and Southern Tertiary Treatment Plants on Camp Pendleton.

Summary

The final settlement of the Santa Margarita Water rights dispute and the development of the Santa Margarita Conjunctive Use Project has facilitated a mutually beneficial cooperative relationship between the District and Camp Pendleton. The District has been able to help support the water and wastewater operational needs under the structure of the Santa Margarita settlement agreement. The parties have worked together to identify other potential opportunities to help leverage the water and wastewater operational expertise of the District to both help support the base and provide some economies of scale to help reduce operational costs for the District.

One opportunity that the parties are currently evaluating in detail is the opportunity for the District to operate the two tertiary treatment plants on the base under a Intergovernmental Services Agreement (IGSA). The structure of this agreement would ensure that the District's costs are covered by the federal government for the operational costs and it would also provide some overall savings to the District's wastewater enterprise and customers through some economies of scale and allocation of existing resources to help support operation.

The parties developed a draft MOU attached to outline the responsibilities in developing the framework for the agreement. If an agreement is developed it would be brought back to the Board for consideration.

Budgetary Impact

There is no budgetary impact for the MOU development. If an agreement is reached it would help reduce some of the District's wastewater operational costs.

Recommended Action

That the Committee recommend the Board approve the Memorandum Understanding (MOU) for Development of an Operations Contract for the District to Operate the Northern and Southern Tertiary Treatment Plants on Camp Pendleton.

**Memorandum of Understanding
among
The United States Marine Corps Base Camp Pendleton
and
Fallbrook Public Utility District
for the
Development of Operation Contract for the Northern and Southern Regional
Tertiary Treatment Plants**

1. This Memorandum of Understanding (MOU) for the Development of an Intergovernmental Support Agreement (IGSA) for operation of the Camp Pendleton Northern and Southern Regional Tertiary Treatment Plants is made and entered into this 17th day of December, 2024 by United States Marine Corps Base Camp Pendleton (Camp Pendleton) and Fallbrook Public Utility District (Fallbrook) hereinafter referred to as “the Parties”

2. **PURPOSE**

2.1 The Parties desire to work collaboratively to develop a sustainable, cost effective approach to operate the Northern Regional Tertiary Treatment Plant (NRTTP) and Southern Regional Tertiary Treatment Plant (SRTTP) owned by Camp Pendleton by leveraging the wastewater operational capabilities of the Fallbrook Public Utility District (FPUD).

2.2 Camp Pendleton has the ability to execute operations of the NRTTP and SRTTP through an Intergovernmental Services Agreement (IGSA).

2.3 FPUD has the ability to enter into an IGSA with Camp Pendleton.

2.4 Fallbrook currently operates a similar facility, the Fallbrook Water Reclamation Plant (FWRP) and there are economies of scale that would benefit FPUD and its ratepayers by expanding operations to include the SRTTP and NRTTP.

3. **BACKGROUND**

3.1 Camp Pendleton owns the SRTTP and NRTTP and contracts operation from a private contractor.

3.2 FPUD owns the FWRP and staffs the facility for operations and maintenance with FPUD staff.

3.3 The age and condition of the SRTTP and NRTTP require increasingly intensive operational and maintenance support.

3.4 The SRTTP and FWRP produce and utilize recycled water and discharge unused water to the ocean through to the Oceanside outfall. The outfall discharges are subject to the same discharge permit used by Camp Pendleton, issued by the San Diego Regional Water Quality Control Board. The NRTTP produces and utilizes recycled water with unused water discharged to the San Mateo and San Onofre percolation ponds. All three facilities have similar treatment and discharge requirements.

3.5 Camp Pendleton has been contracting services with private entities for operations for over a decade which has created some challenges with oversight and transparency.

3.6 FPUD is a Special District in the state of California formed under the Public Utility District Act and is thus able to provide more transparency and long-term stability.

4. RESPONSIBILITIES

4.1 The parties shall cooperate and share technical expertise to develop an IGSA for potential execution. Participation in this MOU does not imply any obligation for execution of the IGSA contract.

4.2 Camp Pendleton will take the lead in development of the IGSA with support from FPUD for necessary technical information.

4.3 The development of the IGSA will include the development of a subsequent MOU with more detail on each of the parties' responsibilities. Both parties will work cooperatively on the development of the detailed operating terms.

4.4 FPUD will take the lead on developing the operational budget including equipment maintenance and replacement needs with support from Camp Pendleton.

4.5 Camp Pendleton will be the lead agency on any environmental compliance requirements.

4.6 Each party will bear its own costs in the development of the IGSA contract.

5. TERMS OF AGREEMENT

5.1 This MOU shall remain in full force and effect for a period commencing upon the date of the last signature of the party hereto and extending to, but not exceeding December 31, 2025. This date may be extended by written mutual consent of the parties.

5.1 Any party may request re-negotiation of modification of this MOU at any time. Signatories will consider the proposed changes, and upon mutual consent, adopt the proposed changes. The party that proposed the change shall provide copies of the adopted, revised MOU to the other signatories.

5.3 Any party may withdraw from this MOU, 60 days after written notification by the party. In the event of withdrawal, the parties agree to share any and all information developed under this MOU.

6. IT IS MUTUALLY AGREED AND UNDERSTOOD BY AND BETWEEN THE PARTIES THAT:

6.1 Nothing in this MOU shall obligate the parties or the United States to any current or future expenditure of resources in the absence or in advance of the availability of appropriations from Congress.

6.2 Nothing in this MOU will be construed as affecting the authority of any signatory beyond those agreements contained within this MOU. This MOU in no way restricts the parties from participating in similar activities or arrangements with other public or private agencies, organizations, or individuals.

6.3 This agreement is not intended to, nor does it create, any right, benefit, or privilege, substantive or procedural, enforceable at law or equity by any signatory or other individual or entity, their officers, or any other person.

7. SIGNATURES

Signatures of authorized representatives

Fallbrook Public Utility District:

Authorized Representative: _____

Title: _____

Signature: _____

Date: _____

The United States Marine Corps Base, Camp Pendleton:

Authorized Representative: Robert Stephen Ramsey, by direction of CG MCB CPEN

Title: Public Works Officer, MCB Camp Pendleton

Signature:

Date: 17 Dec 2024

M E M O

TO: Engineering & Operations Committee
FROM: Aaron Cook, Engineering Manager
DATE: January 16, 2025
SUBJECT: Award of Construction Management & Inspection Professional Services Agreement

Description

Request for approval of a professional services agreement for construction management and inspection services.

Purpose

Typically contractor performed CIP projects are managed and inspected by District engineering staff. The current CIP budget is larger than in past years with several contractor jobs in progress. At the same time, one of the experienced engineering technicians retired in January. In order to maintain adequate construction management and field inspection capacity, staff issued an RFP for outside professional services to provide assistance with these efforts. Four proposals were received from MKN CPM, LLC, Hoch Consulting, Dudek, and KCM Group. Of the four, MKN was selected based on experience and staff availability. Part time services are expected to be needed for at least six months and up to a year.

Budgetary Impact

The services will be paid for from the Board authorized total capital budget. All tasks performed will be for various contractor performed CIP projects. Costs associated with the services will be expensed to the corresponding capital project account.

Recommended Action

That the Committee recommend to the Board award a professional services agreement with MKN for an amount not to exceed \$120,000.