



San Miguelito Mutual Water Company

1561 Sparrow Street, San Luis Obispo, CA 93405
(805) 595-2348

July 15th, 2024

SUBJECT: REQUEST FOR PROPOSALS – Avila Valley Region Wastewater Alternatives Analysis

Introduction

San Miguelito Mutual Water Company (SMMWC) is requesting proposals from qualified firms, consultants, or individuals (Consultant) to perform an alternatives analysis and develop recommendations for the best long-term solution for treating current and future wastewater flows in the Avila Valley region and assist the SMMWC in complying with the requirements associated with enrollment in the Central Coast Regional Water Quality Control Board's (Central Coast Water Board) Order No. R3-2020-0020 (General Permit). The alternatives analysis and recommendations will be documented in a draft and final Wastewater Treatment Alternatives Analysis Technical Memorandum that the SMMWC will utilize to inform the development of a Time Schedule Compliance Plan to meet the requirements of the General Permit.

Background

SMMWC owns and operates a wastewater collection, treatment, and disposal system (Wild Cherry Canyon Wastewater Treatment Plant) that includes 649 wastewater connections and services a residential population of approximately 1,400 people near Avila Beach.

The Wild Cherry Canyon Wastewater Treatment Plant has a permitted design flow of 150,000 gallons per day (gpd) and an average annual flow of 75,000 gpd. The current treatment system includes a 6mm hydro-dune screen, primary treatment via an aerated pond system and secondary treatment via solids settling and stabilization/polishing ponds. Wastewater is disposed of at percolation ponds and biosolids are dredged every 10 years and transported offsite for disposal.

On April 18th, 2024, SMMWC received notification from the Central Coast Water Board that the Wild Cherry Canyon Wastewater Treatment Plant was being enrolled in the General Waste Discharge Requirements Order No. R3-2020-0020 for Dischargers from Domestic Wastewater Systems with Flows Greater than 100,000 Gallons per Day (General Permit). Based on evaluation of historical effluent and groundwater quality data, discharges from the Wild Cherry Canyon Wastewater Treatment Plant may exceed the applicable effluent water quality objectives for total nitrogen, total dissolved solids, chloride, sulfate, and boron in the General Permit.

Therefore, SMMWC must prepare and submit a Time Schedule Compliance Plan to the Central Coast Water Board by April 18th, 2025 or within 12 months of the General Permit enrollment notice that provides the following elements to demonstrate how SMMWC will comply with the new water quality objectives:

1. Comparison of the current effluent quality to the effluent and groundwater limitations in General Permit Tables 3-6. A detailed description and chronology of efforts, since issuance of the notice of applicability, to reduce wastes.
2. Justification of the need for additional time to achieve the effluent limitations in General Permit Tables 3-6.
3. A detailed time schedule of specific actions SMMWC will take to achieve the effluent limitations.
4. A demonstration that the time schedule requested is as short as possible, considering the technological, operation, and economic factors that affect the design, development, and implementation of the measures that are necessary to comply with the effluent limitation(s).
5. If the requested time schedule exceeds one year, the proposed schedule shall include interim requirements and the date(s) for their achievement. The interim requirements shall include both of the following:
 - a. Effluent limitation(s) for the pollutant(s) of concern.
 - b. Actions, measurable milestones, and tangible products leading to compliance with the effluent limitation(s).

To assist in determining what is the best long-term solution for meeting its current and future wastewater treatment and disposal needs, SMMWC is interested in evaluating potential regional wastewater treatment and disposal alternatives with the following agencies/entities:

Avila Beach Community Services District - Avila Beach Community Services District owns and operates a 0.2 MGD wastewater treatment plant that treats wastewater from its service area and Port of San Luis Harbor. Treated effluent is discharged to the Pacific Ocean via an ocean outfall.

Avila Valley Private Property Owners – There are private property owners in the Avila Valley region that utilize decentralized wastewater treatment systems (e.g. septic systems) and leach fields for wastewater disposal that could potentially benefit from connection to a regional wastewater collection, treatment, and disposal system.

City of Pismo Beach – The City of Pismo Beach owns and operates a 1.9 MGD wastewater treatment plant that treats wastewater from its service area. Treated effluent is discharged to the Pacific Ocean via an ocean outfall, that is shared with the South San Luis Obispo County Sanitation District.

City of San Luis Obispo - The City of San Luis Obispo owns and operates a 4.5 MGD wastewater treatment plant that treats wastewater from its service area and discharges treated effluent to San Luis Creek upstream of SMMWC's service area.

Additional information on SMMWC's and the regional wastewater systems can be found in the following reference documents:

- [2015 Water Resource Analysis](#)
- 2018 Avila Regional Recycled Water Study (please email Michelle Koon medson@smmwc.com for a copy)
- [2019 Avila by the Sea Preliminary Water and Wastewater System Capacity Evaluation](#)
- [2020 Water Resource Analysis Update](#)
- [2022 Pumping Testing Wells 4A, 5A, 6A Technical Memorandum](#)
- Additional resources are available on the SMMWC website: <http://www.smmwc.com/>

To assist in evaluating the different alternatives for addressing its current and future wastewater treatment and disposal needs, SMMWC is seeking to perform an alternatives analysis and develop recommendations for the best long-term solution for its customers and the Avila Valley region.

Proposed Scope of Work

The following is a template scope of work for the wastewater treatment alternatives analysis. The Consultant must provide a specific, well-developed scope of work for all tasks and are expected to incorporate their own expertise into the scope and propose modifications they deem necessary or advisable.

Task 1. Project Management

- 1.1 **Project Coordination** - Coordinate activities of the internal project team members, including managing communications, providing work direction, monitoring subconsultant activities and progress, and preparing requested materials and deliverables.
- 1.2 **Meetings** - Prepare for and participate in meetings with SMMWC, subconsultants, contractors, vendors, stakeholders, and other third parties.

Task 2. Data Collection and Review

- 2.1 **Data Request** - Prepare and manage data request for information related to the project to be provided by SMMWC and regional stakeholders such as utility information, technical reports effecting the project, as-built drawings of road and utilities in the area of the project, and other relevant work. Conduct site visits to obtain photographs and measurements, as necessary.
- 2.2 **Data Review** - Review applicable plans, reports, code requirements, industry standards and records necessary to complete the engineering services for the project.

Task 3. Avila Valley Region Wastewater Treatment Plant Alternatives Analysis

The five different wastewater treatment and disposal alternatives that SMMWC is initially interested in evaluating are outline below:

- **Alternative 1** - Evaluate the feasibility and cost to send wastewater to the City of San Luis Obispo's existing wastewater treatment plant (Water Resource Recovery Facility). This alternative would include construction of a pump station and pipeline to send untreated wastewater from San Miguelito to the Water Resource Recovery Facility and discharge of the treated effluent to San Luis Creek.
- **Alternative 2** - Evaluate the feasibility and cost to send wastewater to the City of Pismo Beach's (Pismo Beach) existing wastewater collection system, where the wastewater would then be conveyed to and treated at the Pismo Beach Wastewater Treatment Plant (WWTP). This alternative would include construction of a pump station and pipeline to send untreated wastewater from San Miguelito the Pismo Beach wastewater collection system for treatment and disposal.
- **Alternative 3** - Evaluate the feasibility and cost to initially send wastewater to Pismo Beach for treatment and disposal and then as a second phase extend the pipeline to send wastewater to San Luis Obispo. This alternative would include constructing a pump station and pipeline to send untreated wastewater from San Miguelito the Pismo Beach (Phase 1) and later extending the pipeline to send wastewater to the San Luis Obispo WRRF for treatment and disposal (Phase 2).
- **Alternative 4** - Evaluate the feasibility and cost of consolidating SMMWC, private property owners in Avila Valley, and Avila Beach Community Services District (Avila Beach CSD) wastewater collection, treatment, and disposal systems. This alternative would include construction of pump stations and pipelines to convey SMMWC and private property owner wastewater to the Avila Beach CSD wastewater treatment plant. The Avila Beach CSD's wastewater treatment plant would need to be upgraded to accommodate the increased flows. This alternative could also include a treatment upgrade to produce tertiary treated or advanced purified recycled water for use at the nearby golf course and/or for groundwater recharge.
- **Alternative 5** - This alternative includes all the same components of Alternative 4, but the private property owner wastewater flow would be sent to the Pismo Beach collection system for treatment and disposal. This alternative would include construction of pump stations and pipelines to convey private property owner wastewater to the Pismo Beach WWTP.

For each alternative develop a schematic plan and perform a preliminary evaluation of cost (including contingency), hydraulic (such as system design flows, peaking factors, dry weather versus wet weather, cleaning velocities, hydraulic profile, maximizing capacity versus

minimizing depth, etc.), technological, engineering (such as connections/transition between existing and new pipe segments, alignment, pipe materials, trenchless versus traditional construction, etc.), design criteria, layout, operations and maintenance (O&M), constructability, environmental and permitting, geotechnical, Right-of-Way, easement, and encroachment, stakeholder, and scheduling considerations.

Develop a scoring and ranking matrix to allow each of the alternatives to be evaluated relative to the other alternatives. Utilize the results of the scoring and ranking matrix to identify a recommended alternative for SMMWC and regional stakeholder consideration. Identify any additional work that would be required to move forward with the recommended alternative.

Task 4. Wastewater Alternatives Analysis Technical Memorandum (TM)

4.1 **Draft TM** - Prepare a draft TM that summarizes the analysis of the five different wastewater treatment and disposal alternatives and the recommended alternative and submit to SMMWC and regional stakeholders for review.

4.2 **Final TM** - Prepare a final TM for the alternatives analysis, based on comments submitted on the Draft TM and submit to SMMWC for review. The Final TM should include a recommended alternative.

Proposal Submittal and Award Process and Schedule

Key Milestone	Schedule
Request for Proposals Issued	July 15 th , 2024
Submit Questions By	July 26 th , 2024 at 5:00 PM
Responses to Questions Posted By	August 2 nd , 2024
Submit Proposals By	August 9 th , 2024 at 4:00 PM
Notice of Award	August 30 th , 2024
Initial Draft Study Complete	February 6 th , 2025
Final Draft Study Complete	April 4 th , 2025
Submittal of Final Draft Study to RWQCB	April 11 th , 2025

In addition to the scope of work described in this RFP, SMMWC may choose to award future phases of work related to the project to the selected consultant. These future phases of work could potentially include support for the following tasks:

- Preliminary Design
- Permitting and Environmental
- Right-of-Way/Easement/Property Acquisition
- Final Design

- Engineering Services During Construction

Proposal Requirements

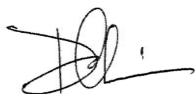
The proposal should include:

- Cover Letter
- Organizational chart
- Qualifications of key personnel and their roles within this project
- Description of relevant experience
- Three (3) references for similar projects
- Expected scope of work to complete the alternatives analysis
- Proposed schedule
- Fee proposal (including time, materials, and Not-To-Exceed) to complete the alternatives analysis

There is no page minimum or limit for the proposals. Proposals may be submitted as a PDF via email to Michelle Koon (medson@smmwc.com) or by mail/hand delivered via three (3) printed hard copies and a USB flash drive with the electronic file. Proposals are to be submitted by email or to 1561 Sparrow Street PO box 2120, San Luis Obispo, CA 93405 by no later than August 9th, 2024 at 4:00 PM.

Please contact Dwayne Chisam at Dchisam@smmwc.com with any questions or comments. Responses to all questions will be posted publicly on the San Miguelito's website on August 2nd, 2024.

Sincerely,



Dywane Chisam

General Manager of San Miguelito Mutual Water Company