

1. AGENDA - OCTOBER 3, 2022

Documents:

[OCTOBER 3, 2022 MEETING AGENDA.PDF](#)

2. TOUR OF TREATMENT PLANT OPERATIONS

3. PARKSON DYNASAND FILTER SYSTEM

4. ANNUAL STORMWATER REPORT

Documents:

[ANNUAL STORMWATER REPORT DOCUMENT.PDF](#)

5. UPDATE ON WATER AND WASTEWATER PLANS

Documents:

[UPDATE ON WATER AND WASTEWATER PLANS DOCUMENT.PDF](#)

6. DOCUMENT(S) DISTRIBUTED AFTER POSTING OF AGENDA

Any documents distributed after posting of the Agenda will be uploaded here.

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TEMPLETON COMMUNITY SERVICES DISTRICT

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**FACILITIES COMMITTEE MEETING
Monday, October 3, 2022 at 2:00 p.m.**

The District Facilities Committee will meet at the District's Meadowbrook Wastewater Treatment Plant located at 1394 Shane Lane, Templeton, CA on Monday, October 3, 2022, at 2:00 p.m.

Please drive slowly on private road leading to Wastewater Treatment Plant.

AGENDA:

- 1) Tour of Treatment Plant Operations: The Committee will be given a tour of the various operational functions at the Wastewater Treatment Plant.
- 2) Parkson DynaSand Filter System: A pilot study is underway at the Wastewater Treatment Plan utilizing a Parkson DynaSand Filter System. The Committee will be given the opportunity to view the filter system and receive an update on the reduction of TSS during the study.
- 3) Annual Stormwater Report: The Committee will review and take public comment on the 2021-2022 Annual Stormwater Report.
- 4) Update on Water and Wastewater Plans: Staff will provide the Committee status and time frames for completion of the following items:
 - Water System Atlas Update
 - Wastewater System Atlas Update
 - Water System Modeling
 - Urban Water Management Plan
 - Wastewater System Modeling
 - Water and Wastewater Master Plan Update

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The public is invited to attend this meeting in-person and will be afforded time to discuss any item on the agenda.

The public may also provide comment via e-mail or letters that will be read into the public record. E-mails may be sent to the Board Secretary at boardclerk@templetoncsd.org. Letters may be mailed to the District Office at P.O. Box 780, Templeton, CA 93465. Letters may also be dropped-off at the District's Drop-Box located outside the District Office at 420 Crocker Street, Templeton. People may also call the District Office at (805) 434-4900 to leave a message concerning items on the agenda. Public input must be received by Monday, October 3, 2022 by 10:00 a.m.

Agenda Item

DATE: September 23, 2022
TO: Facilities Committee Members
FROM: Bettina Mayer, PE District Engineer
SUBJECT: MS4 Stormwater Management Plan (SWMP) Annual Report

RECOMMENDED ACTION:

That the Committee provide opportunity for public comment on the Storm Water Management Plan and direct staff to file the Annual report.

FISCAL IMPACT:

None.

DISCUSSION:

In 2013, the State Water Resources Control Board (SWRCB) issued a new National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements (WDRs) for storm water discharges from small Municipal Separate Storm Sewer Systems (MS4s), Order 2013-0001-DWQ which replaces the general permit under which the Stormwater Management Plan (SWMP) was developed in 2009. One of the primary purposes of this new order is to ensure statewide consistency for regulated MS4s and to streamline the requirements and implementation of storm water programs. Under the Order, each small MS4 is required to prepare a storm water management document, referred to as the Guidance document, which provides an outline of how requirements of the Order will be met. In accordance with section F.3. Maximize Efficiency, non-traditional small MS4s may use existing programs to meet required storm water provisions in order to leverage existing staff and resources. Since the District's 2009 Stormwater Management Program (SWMP) already meets many of the requirements of General Permit, the District will continue use programs and BMPs developed in the SWMP. The new Guidance document submitted to the SWRCB in February 2014, and approved July 8, 2015, references and updates existing SWMP elements to meet many of the requirements of the new General Permit. The annual report for the SWMP 2020-2021 year is attached for review and comment.

The District has consistently been proactive in promoting information and practices that benefit the community and environment overall. The SWMP provides a framework to track and report on

the effectiveness of the storm water pollution prevention activities. On an annual basis, the District is required to document and evaluate each element of the SWMP program. The purpose of this annual report is to evaluate the effectiveness of the SWMP.

The Public Education and Outreach, and Public Involvement and Participation elements of the program are, for the most part, BMP's that are part of a countywide effort to prevent storm water pollution. In past years the District participated regularly with the County and other local agencies through the *Central Coast Partners for Water Quality* (Partners). Due to Covid as well as staffing levels, the District's participation over the last couple of years has been minimum. The Community wide Garage Sale, a Templeton only event, was held in spring 2022. The District provided information and mobilized volunteers, collecting trash and promoting reusing and recycling at this event. In lieu of the annual Creek to Coast Clean Up, hosted by ECOSLO, Templeton also held its own Community Clean-Up in the Fall 2021, successfully mobilizing clean-up teams throughout the community.

The District continues to comply with the required Trash Implementation Plan. The objective of the Plan is for the District to demonstrate the ability to achieve Full Capture System Equivalency within 10 years of the Phase II MS4 permit reissuance through biannual On-Land Visual Trash Assessment Protocol C – Area based surveys and following the Trash Assessment Minimum Level of Effort (TAMLE) recommended by the State Water Resources Control Board. Essentially this requires photographing specific District facilities year after year and measuring the amount of trash found there. Baseline trash generation levels were low to begin with and progress surveys conducted annually have shown very minimal to zero trash in survey areas.

As with many areas of local and State government, the most challenging issue with respect to implementation of the SWMP will continue to be the budget, with its related issue regarding staffing, inventory, and available resources. State and County mandated COVID-19 restrictions create additional challenges especially in regards to essential work, reduced staffing, public events, and outreach. In the 2021-2022 reporting year, the District will continue to provide the most cost effective public education and outreach programs. Ongoing efforts include the posting of articles originally prepared for Templeton Magazine, which has been discontinued, on the website and in the District office lobby.

The Stormwater Management Plan 2021-2022 Annual Report may be found on the District's website at: <https://www.templetoncsd.org/DocumentCenter/View/1420/Draft-2021-22-Stormwater-Annual-Report?bidId=> .

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MEMO

DATE: September 27, 2022

TO: **Facilities Committee**

FROM: **Tina Mayer, Templeton CSD**

SUBJECT: Water System Modeling, Urban Water Management Plan, and Water and Wastewater Master Plan Updates

DISCUSSION:

The District currently provides water service to approximately 2990 municipal and residential/commercial connections. The District also maintains a wastewater treatment plant serving approximately 2270 connections.

The District anticipates reaching 3,000 water service connections by the end of 2022 and will be required by the California Urban Water Management Planning Act (Act) to develop and adopt an Urban Water Management Plan within one year. The UWMP is intended to provide the District and the public, information on District water supplies, water use, water conservation programs, water shortage contingency planning, and water supply reliability under different planning scenarios.

In preparation for the UWMP and the extensive and detailed reporting that will be required, the District will update its hydraulic water model to include all changes that have occurred within the District since the model was updated in 2013. The water model update will include: all new waterline distribution infrastructure completed by commercial and residential developments since 2013; water model calibration of the water model through in-system pressure logging; and development of baseline water demand within the District based on existing demand conditions. The existing demand conditions will be based on actual water consumption data referenced to each parcel receiving water service.

When the base water modeling is complete, the District will issue a request for proposals (RFP) for the preparation of the District's first Urban Water Management Plan (UWMP). It is anticipated that the RFP will be issued toward the end of 2022 and that the first iteration of the reports will be based on updated population projections.

Once the UWMP is underway, the District will turn its attention to the Water and Wastewater Master Plan which was last updated in 2103. The 2013 Update provided a detailed evaluation of the District's water and wastewater system infrastructure with respect to existing and future needs with a 20 year horizon.

However, a number of significant improvements and changes to both the Water and Wastewater systems have been made since then and many recommendations may be outdated. Most notably, the construction of the East Side Force Main Project (ESFM), and the original allotment of 250 acre-feet of Nacimiento Water Project (Naci) water, followed by the purchase of additional 156 acre-feet of Naci water have greatly increased the wastewater treatment demand and increased the potential water supply in the future.

A new Water and Wastewater Master Plan Update is needed to provide a comprehensive evaluation of both the water and wastewater systems. The report should include discussion on existing and future population, growth patterns, water demand, water supply, water storage, water distribution, wastewater flows, wastewater collection, wastewater treatment and disposal, and recommended capital improvements.

Overall, the anticipated work plan is as follows:

Water System Modeling

1. Redline the draft water and sewer atlas plans to correct any errors or omissions.
2. Consultant to convert atlas into GIS and update water hydraulics model based on water GIS.
3. Consultant to develop baseline water demand based on existing demand conditions to update model and make it available for use.
4. Water Model Calibration using pressure loggers placed in various locations in the system.

UWMP (Near the end of 2022)

1. Issue UWMP RFP. By mid-January, the full calendar year water production and consumption will be available and can be used for the UWMP water demand data. Reporting will be set up on a calendar year basis to coincide with the water supply and buffer model update.
 - a. 2023 UWMP demand modeling will be based on population estimates.
 - b. In 2025, an UWMP Update will be required. The demand modeling for the update will be based on the Water Master Plan, which will include future demands based on actual projects and development.

Water and Wastewater Master Plan Update

Issue Water and Wastewater Master Plan Update RFP. The Master Plan will have at least three sections:

GENERAL PLANNING INFORMATION

The 2013 Master Plan updates included Land Use, Population and growth rate projections from which water demand and wastewater flows were determined. For the purpose of this study, the 2013 general planning assumptions should be reviewed and updated. This section should include the following:

- District Facilities History and Overview
- Inventory of Existing Facilities
- Inventory proposed development projects in process
- Summary of applicable statutes, ordinances, policies and regulations.
- Planning Approach and Assumptions
- Study Area Characteristics
- Land Use
- Population
- Growth Rate Analysis
- Consideration of impact of Accessory Dwelling Units (ADUs).

WATER SYSTEM UPDATE

This section will focus on the water system and should include:

- Use hydraulic model of the water distribution system to evaluate existing system for current and future needs.
- Inventory proposed development projects in process and include proposed infrastructure in modeling future demands.
- Review adequacy of existing water supply sources for current demand and identify available capacity.
- Identify existing and future system deficiencies and develop capital improvement projects to address the deficiencies.
- Review adequacy of existing and future water supply storage requirements
- Summarize pertinent current and anticipated statutes and regulations.
- Review the Urban Water Management Plan and include demand management and conservation requirements in the Water Master Plan.
- Provide a prioritized 20 year capital improvement program in five-year increments along with budget cost estimates for each of the proposed capital improvement projects.

WASTEWATER SYSTEM UPDATE

This section will focus on the wastewater system and, using one or more consultants, should include:

- Update existing wastewater system distribution map.
- Develop and evaluate dynamic model of the wastewater distribution system.
- Inventory proposed development projects in process and include proposed infrastructure in modeling future demands.
- Identify existing and future system deficiencies and develop capital improvement projects to address the deficiencies.
- Analyze potential future treatment and discharge requirements; summarize pertinent current and anticipated statutes and regulations.
- Identify and evaluate opportunities for wastewater re-use.
- Identify potential funding sources.
- Provide a prioritized 20 year capital improvement program in five-year increments along with budget cost estimates for each of the proposed capital improvement projects.
- Provide a Wastewater Treatment Plant study to evaluate the treatment and disposal processes and develop recommendations for improvements to meet anticipated future Waste Discharge Requirements (WDRs). Study should include both short and long term improvements for both treatment and disposal.