



OLYMPIC VALLEY PUBLIC SERVICE DISTRICT BOARD REPORT



SUBJECT: T-TSA Clean Water Revitalization Project

EXHIBIT: F-1, 4 Pages

AUTHOR: Charley Miller, General Manager

MEETING DATE: July 28, 2026

RECOMMENDED ACTION: This report is informational only; no action is requested from the Board.

DISCUSSION: The Tahoe-Truckee Sanitation Agency (T-TSA) provides regional wastewater treatment for its member agencies in the North Tahoe/Truckee area. T-TSA was formed in 1972 following approval by its five founding member agencies. The Squaw Valley County Water District, predecessor to the Olympic Valley Public Service District (OVPSD), was one of the founding member agencies. In addition to OVPSD, member agencies include North Tahoe Public Utility District, Tahoe City Public Utility District, Alpine Springs County Water District, and Truckee Sanitary District. Each member agency appoints one representative to the T-TSA Board of Directors. Dale Cox has represented Olympic Valley on the T-TSA Board since 1999.

T-TSA treats wastewater collected within the OVPSD service area, and District customers pay rates and fees directly to T-TSA for treatment services. Representatives from T-TSA will attend the District's Board meeting to provide an overview of T-TSA's Clean Water Revitalization Project. This multi-year, large-scale capital improvement program is intended to enhance the safety and reliability of the regional wastewater treatment plant, protect water quality, and ensure the long-term environmental health of the Truckee River. Given the project's cost and its direct impact on OVPSD customers and ratepayers, T-TSA will provide an overview of the project's purpose, scope, benefits, schedule, and status. Additional information is available at <https://cleanwater.ttsa.ca.gov/>

FISCAL/RESOURCE IMPACTS: There are no direct fiscal impacts to the District; however, the project will impact ratepayers within the District's service area.

STRATEGIC PLAN ALIGNMENT:

Focus Area: Stewardship | **Goal:** Advocate for Community Needs

ATTACHMENTS: Clean Water Revitalization Project Presentation

DATE PREPARED: July 21, 2026



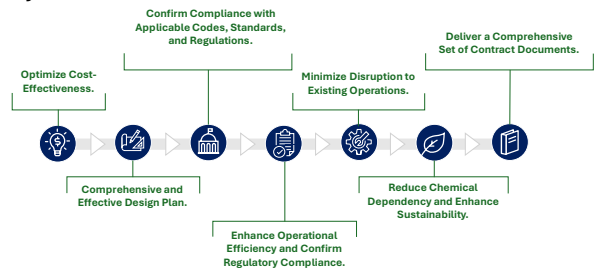
Clean Water Revitalization Project

A generational investment in the future of our region
Jason Hays

Tahoe-Truckee Sanitation Agency

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Project Goals



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Design Information Memoranda

Meeting

DIM-01 – Bioreactors, Membrane Facility, and Fine Screening

DIM-02 – Ultraviolet Disinfection

DIM-03 – Phosphorus Sequestration and Solids Handling

DIM-04 – Building Mechanical and Odor Control Facilities

DIM-05 – Electrical/MEC Facilities

DIM-06 – Site and Support Facilities and Demolition Plan

DIM-07 – Architecture, Buildings, Laboratory, and Landscaping

DIM-08 – Project Implementation Plan – Constructability, constraints, sequencing, and schedule

CAROLLO / 3

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Fine Screen Technology

Inclined Drum



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Bioreactor Basins

Key Design Elements

- 4-stage Activated Sludge Process
- 6 Un-aerated Zones per Bioreactor
- 2 Swing Zones per Bioreactor

Path to 30% Discussion

- Bioreactor Orientation
- Mixer type – Vertical shaft, hyperboloid, submersible, large bubble
- IMLR Pump type – Submersible, propeller, deck mounted motors, vertical turbine
- Diffusers – manufacturer preferences
- Covers



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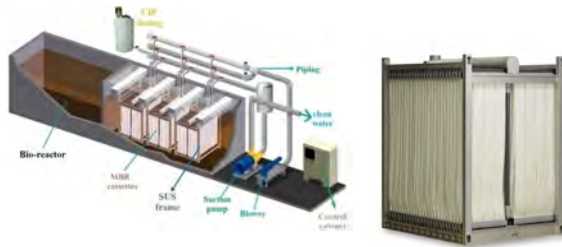
Bioreactor Design Criteria

- 2045 Conditions:
 - 4 Basins
 - 3 Duty/1 Standby to meet M7DWF of 7.6 mgd
 - All 4 needed to meet ADMM of 10 mgd
- Buildout Conditions
 - 5 Basins
 - 4 Duty/1 Standby needed to meet M7DWF of 9.6 mgd
 - All 5 basins needed to meet ADMM of 12.5 mgd
- Space for 6 basins total



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Membrane Bioreactor (MBR)

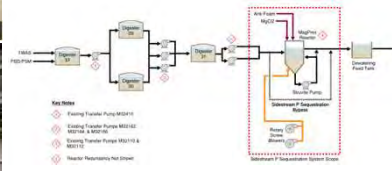


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MagPrex™ Design Criteria

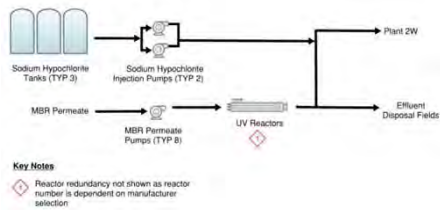


Manufacturer	Centrisys CNP
Technology Type	Air fluidized reactor w/ $MgCl_2$ Addition
Treatment Stream	Digestate
pH Adjustment	CO_2 Stripping via aeration



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UV Disinfection Schematic



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TROJAN^{UV}



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Standby Power – Generators

Operability during power outages

- Guaranteed switch over

Discussion of fuel source

- Diesel fuel – temporary independence
- Natural Gas – Cleaner burning, more affordable

Discussion of facility

- Building – more expensive, but easier to maintain and longer life
- Enclosure – Much more affordable



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Fuel Storage

Option 1:

- Two-Week Runtime (Ramped Load)

Option 2:

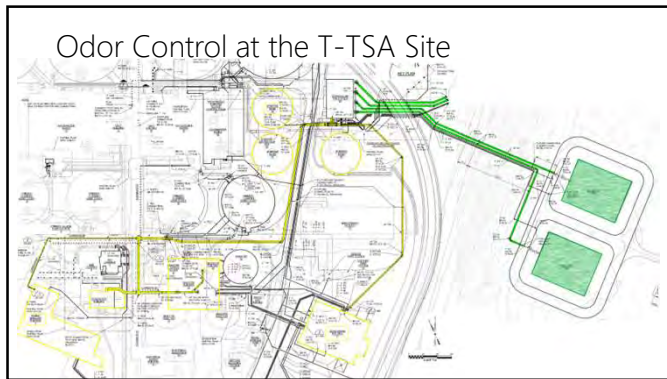
- Two-Week Runtime (Full Load)

Option 3:

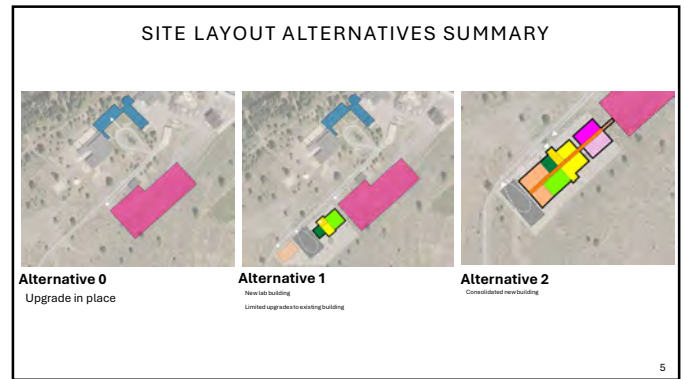
- Maximum Recommended Tank Size



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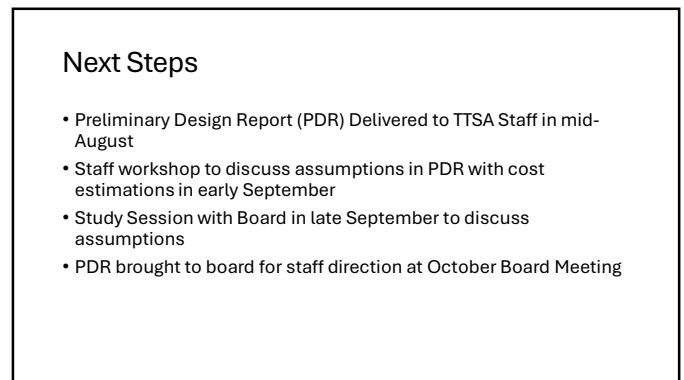
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