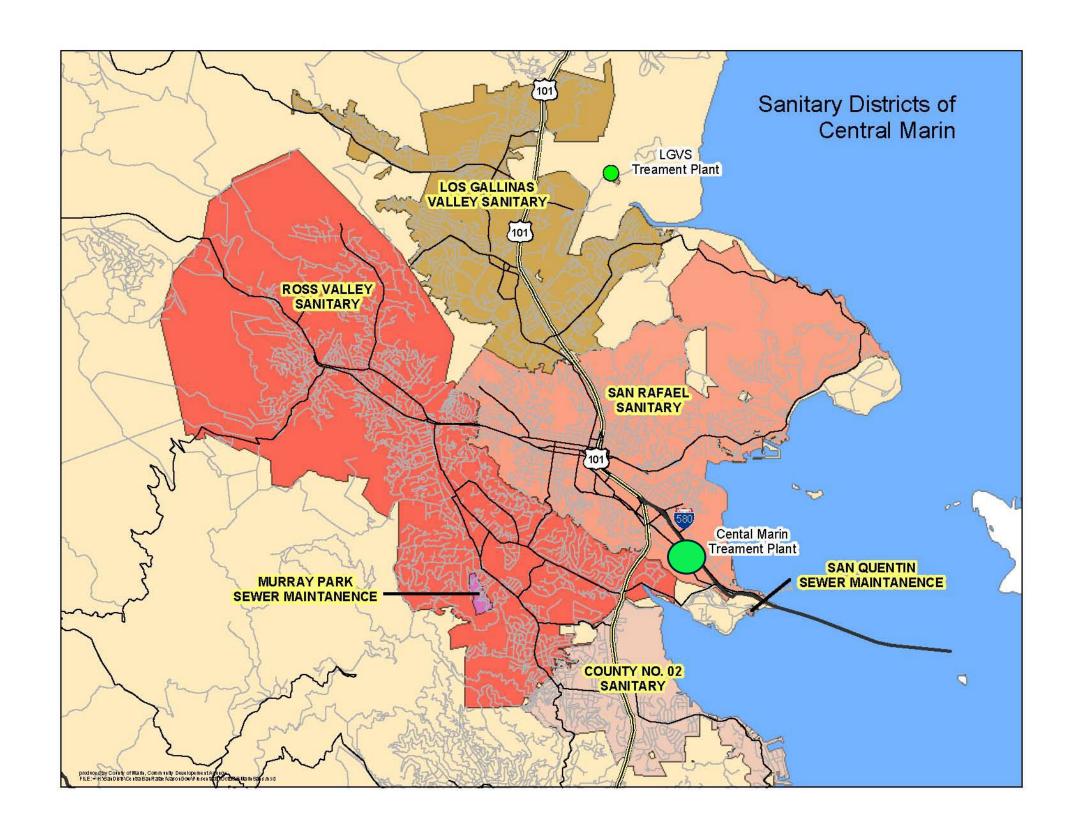


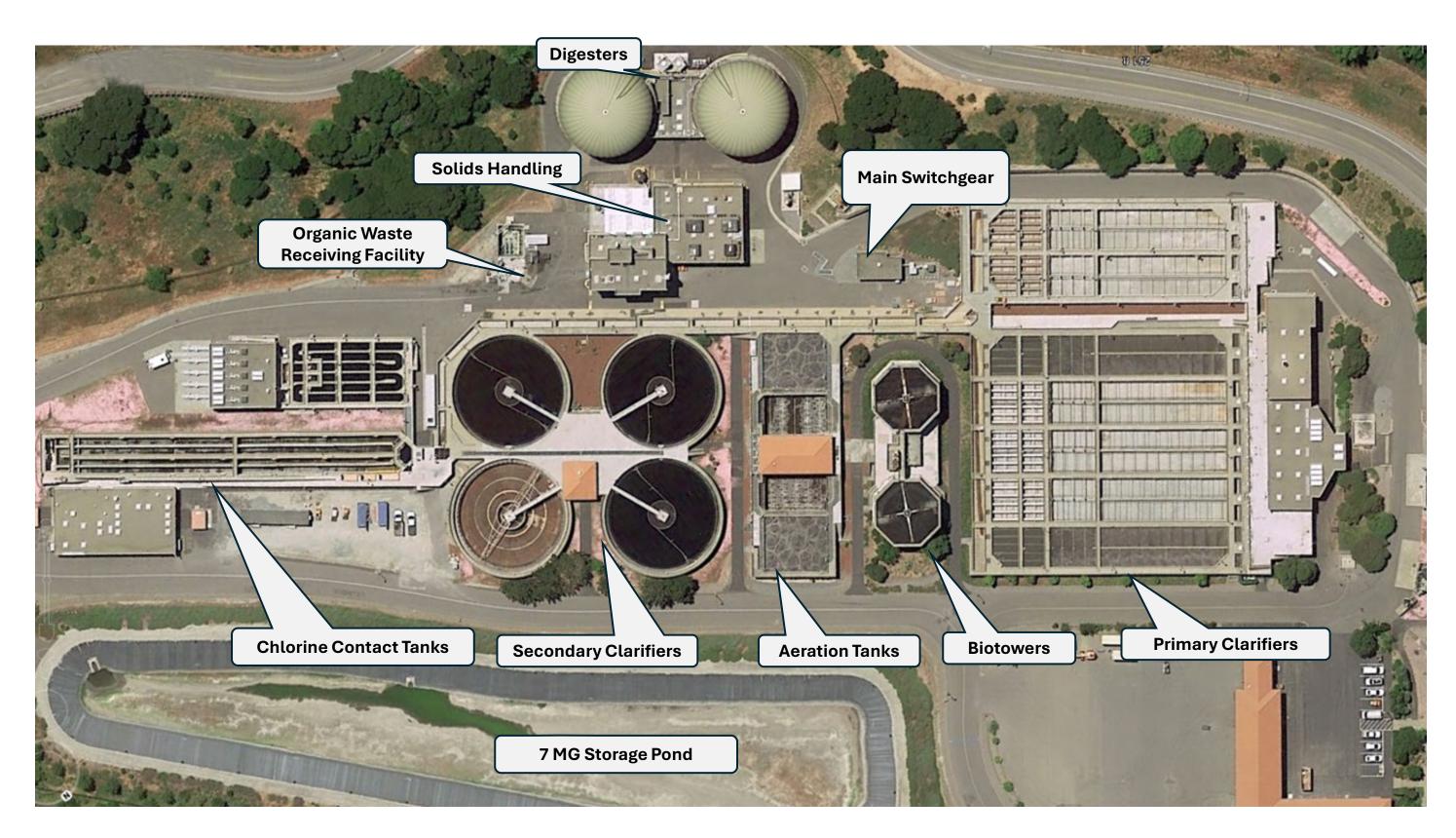


- Regional Wastewater Agency
- Serves 105,000
 people and San
 Quentin State Prison
- Influent flow range:7 MGD-129 MGD



Existing Treatment Plant







Nitrogen Removal Planning Targets

Parameter	Units	Interim Limit (2025)	Final Limit (2054)
Influent Flow (Nutrient Permitting Season)	mgd	6.6	7.3
TIN Limit	kg/d	1,300	480
Equivalent TIN Concentration	mg/L	52	17

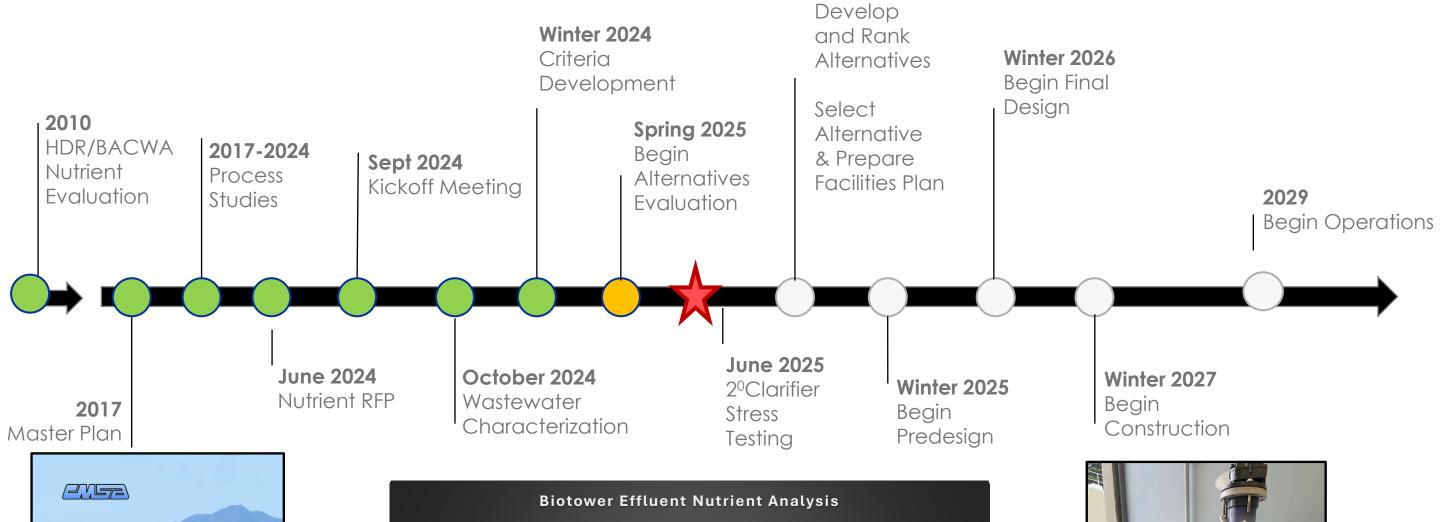
2024 dry season effluent TIN Load for CMSA = 1,118 kg/d

Percent reduction from interim limit = 63%

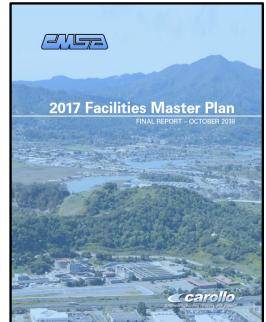
Percent reduction from 2024 TIN Load = 57%

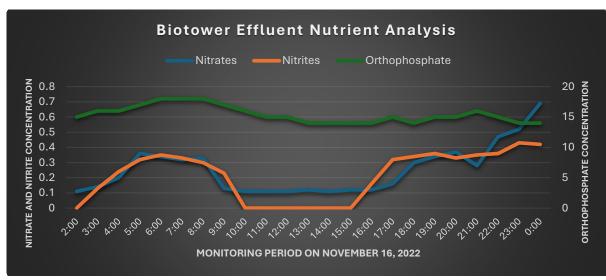
Timeline of Nutrient Removal Planning



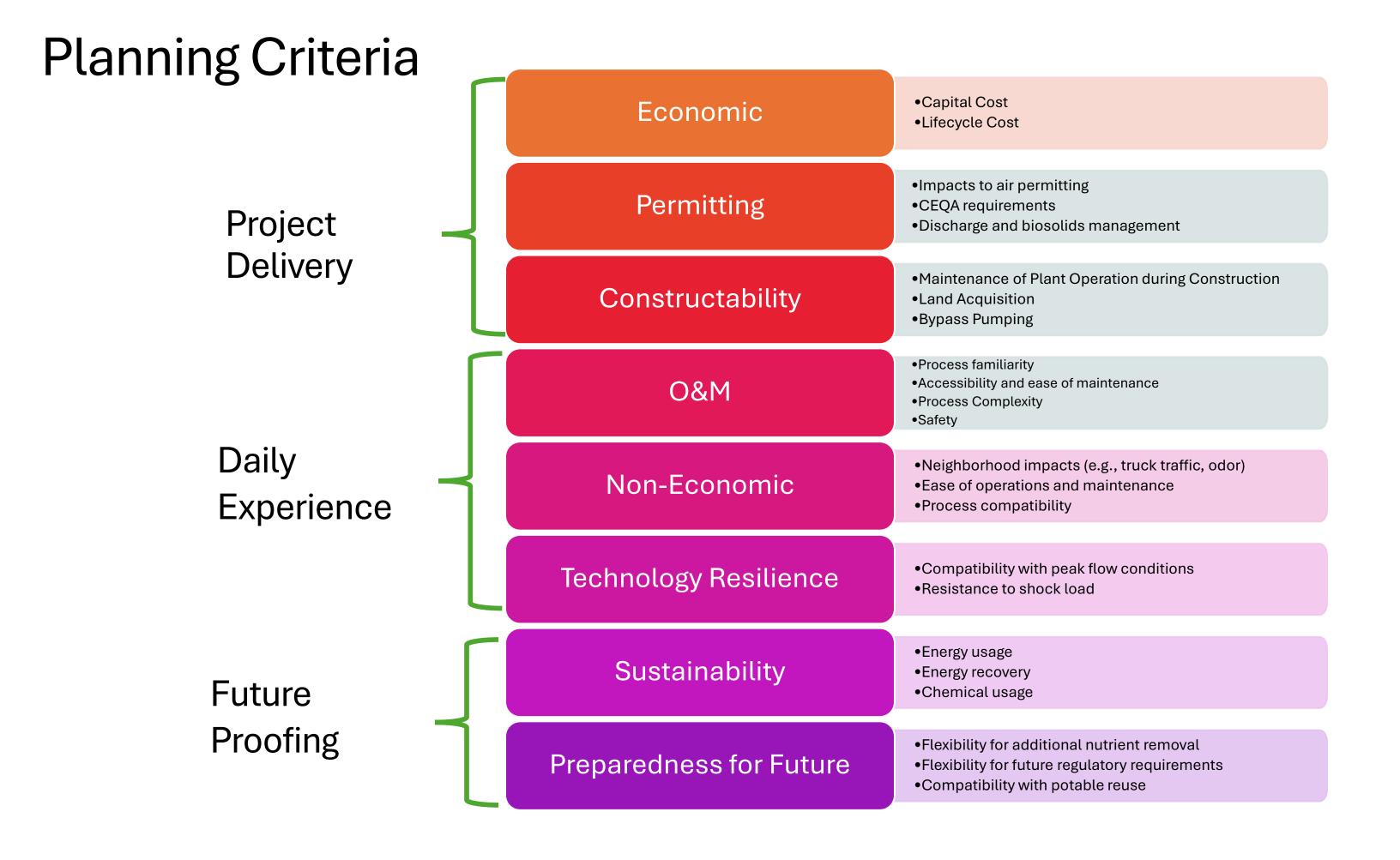


Fall 2025











Preliminary Criteria Ranking

High Priority Medium Priority Low Priority

Cost

Air Permitting
Constructability

O&M
(Process Familiarity, Process
Complexity, Ease of Maintenance)

Non-Economic
(Neighborhood impacts,
Compatibility with Existing Plant)

Preparedness for Future

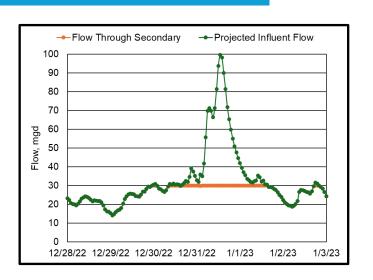
Technology
Resilience

Additional CMSA Drivers:

Wet weather flow management Organic waste

Keep existing assets? (Biotowers/Electrical)

Limited space







Completed In Progress Planned

Next Steps

