



Walnut Creek Wastewater Treatment Plant Community Meeting

The meeting will start momentarily.

June 29, 2021



Spanish Interpretation Available

- **Interpretación en español esta disponible**
Para interpretación en español, haga clic en el y seleccione español.



- **Spanish Interpretation Available**

For Spanish interpretation, please click the and select Spanish.



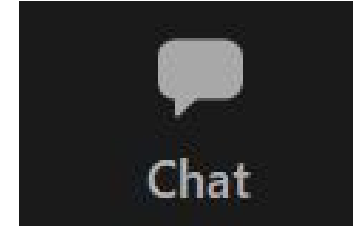
Agenda

- Meeting Logistics
- Project Updates
- Questions and Answers

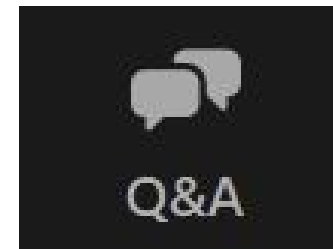


Meeting Logistics

- Ask for technical assistance from the meeting hosts in the Chat



- Submit questions or comments for the presenters in the Q&A





Updates and Next Steps

Kevin Koeller, Division Manager Collection Systems Engineering



Completed Items

- Cleaning and Televising (TV) of wastewater lines in neighborhood completed
- Annual Siphon Cleaning: completed Summer 2020 and scheduled for Fall 2021
- Smoke Testing and repairs completed by City crews in August 2020; Letter sent to property owners giving notice of defects found in private plumbing



Temporary Vapor Unit Pilot Project


- ♦ Temporary Odor Unit installed in December 2020
- ♦ Initial testing performed in Spring 2021
- ♦ Additional testing and evaluation in summer and fall 2021



Next Steps

- Continued monitoring of the neighborhood, collection system, and other odor sources
- Greater Walnut Wastewater Treatment Plant and Collection System Study





Greater Walnut Wastewater Treatment Plant and Collection System Study



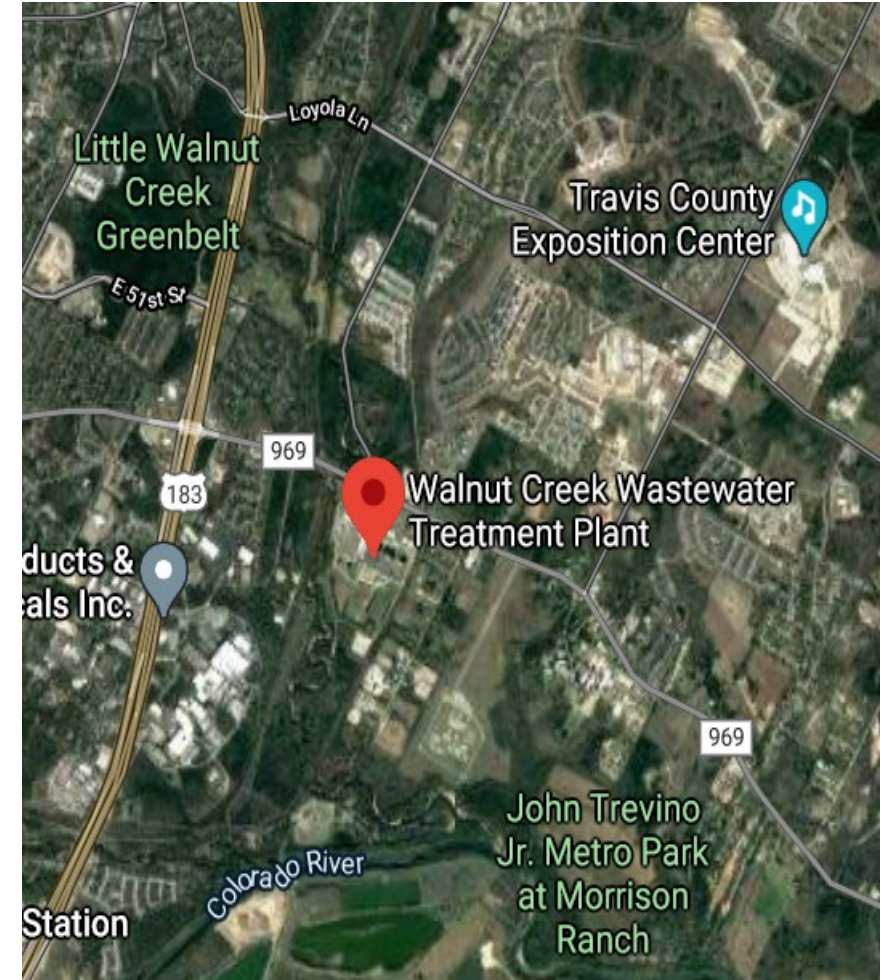
Greater Walnut Creek WWTP Odor Study

Rodrigo Gonzalez-Abraham, PhD
Jacobs Technologist

June 2021

What are the goals of the project?

- Measure odors from possible sources
 - At the Walnut Creek WWTP facility
 - Facilities surrounding the WWTP, including non-City facilities where possible
- Evaluate the impacts of odorous sources on the community, and possible solutions
- Communicate progress and results to stakeholders and the community



How are goals of the project accomplished?

Sampling

- Measure odors from possible sources in the facility



How are goals of the project accomplished?

Sampling

- Monitor odors throughout the community
 - Direct measurements with olfactometers
 - Air sample analysis for odor-causing compounds



Nasal Ranger

Source: [Kosmider \(Wikipedia\)](#)



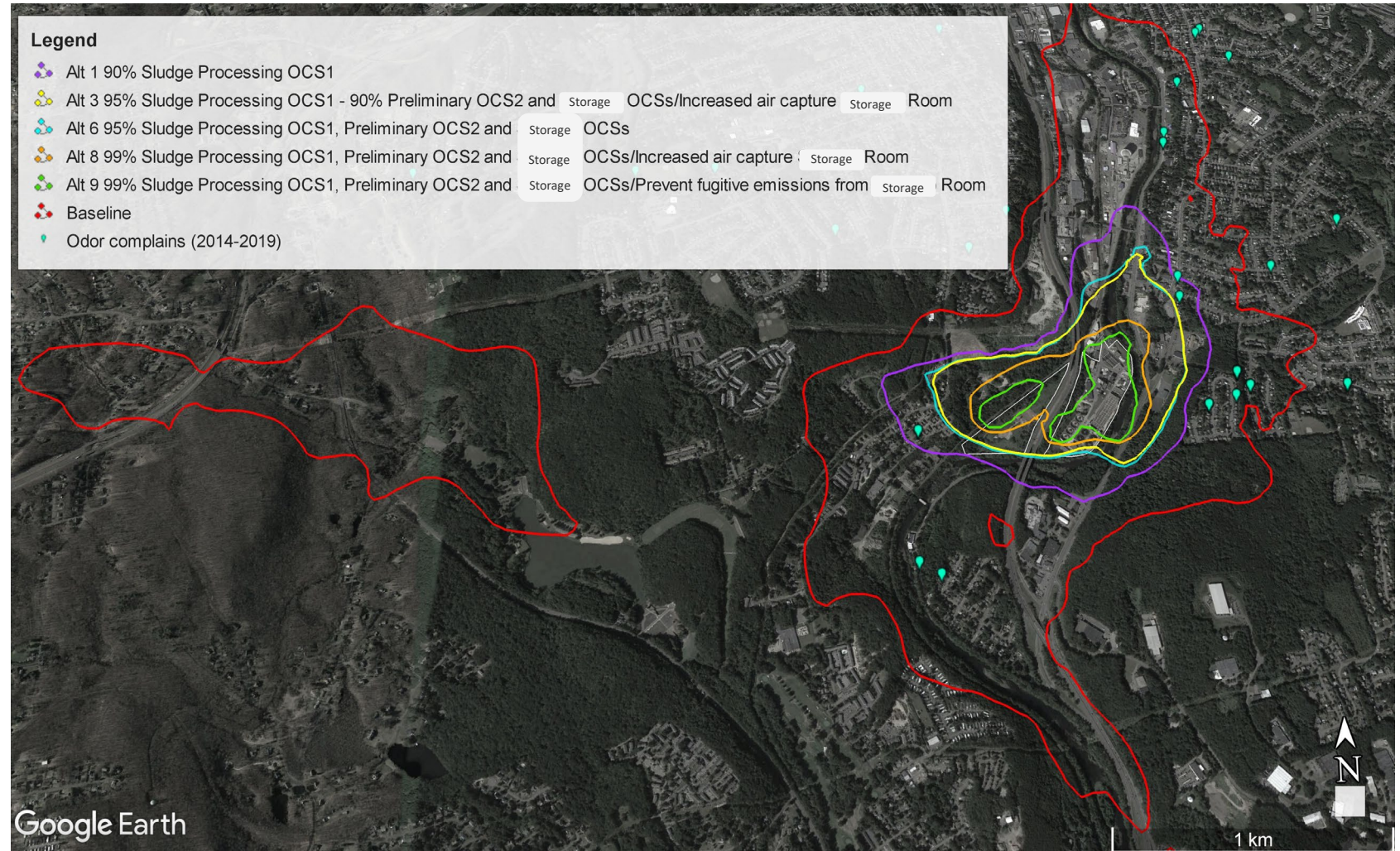
Scentroid

Source: Scentroid.com

How are goals of the project accomplished?

Modeling

- Model the dispersion of the odorous emissions, and evaluate where the impacts are happening
- Calibrated to align with real data and observations
- Model illustrates where odors are predicted to occur.



Previous project example: From another city

How are goals of the project accomplished?

Communications

- At least three public meetings throughout the project.
- Effective and frequent communication with the community and stakeholders to
 - Provide ways to receive comments, questions and suggestions.
 - Provide training material regarding odors, so the community can help us identify the type and origin of the odors.
 - Present Results
 - Co-develop practical solutions



Approximate Schedule

Public Meeting 1	• Early Fall 2021
Sampling and Initial Modeling	• Fall 2021
Public Meeting 2	• March 2022
Additional Sampling and Modeling	• Winter/Spring 2022
Public Meeting 3	• Summer 2022

Effective solutions and community expectations

- Beyond business as usual
- Sustainable solutions
- Effective communication with the community
- Community as partnering subject matter experts
- Design-out the risk rather than mitigating it
- Identification of "what is possible"
- Project is just starting; lots more to come!



Capital Improvement Projects

Charles Celauro, Division Manager, Engineering Services



Work to be Performed – CIP Projects

Crosstown Tunnel Centralized Odor Control Facility – 6943.027

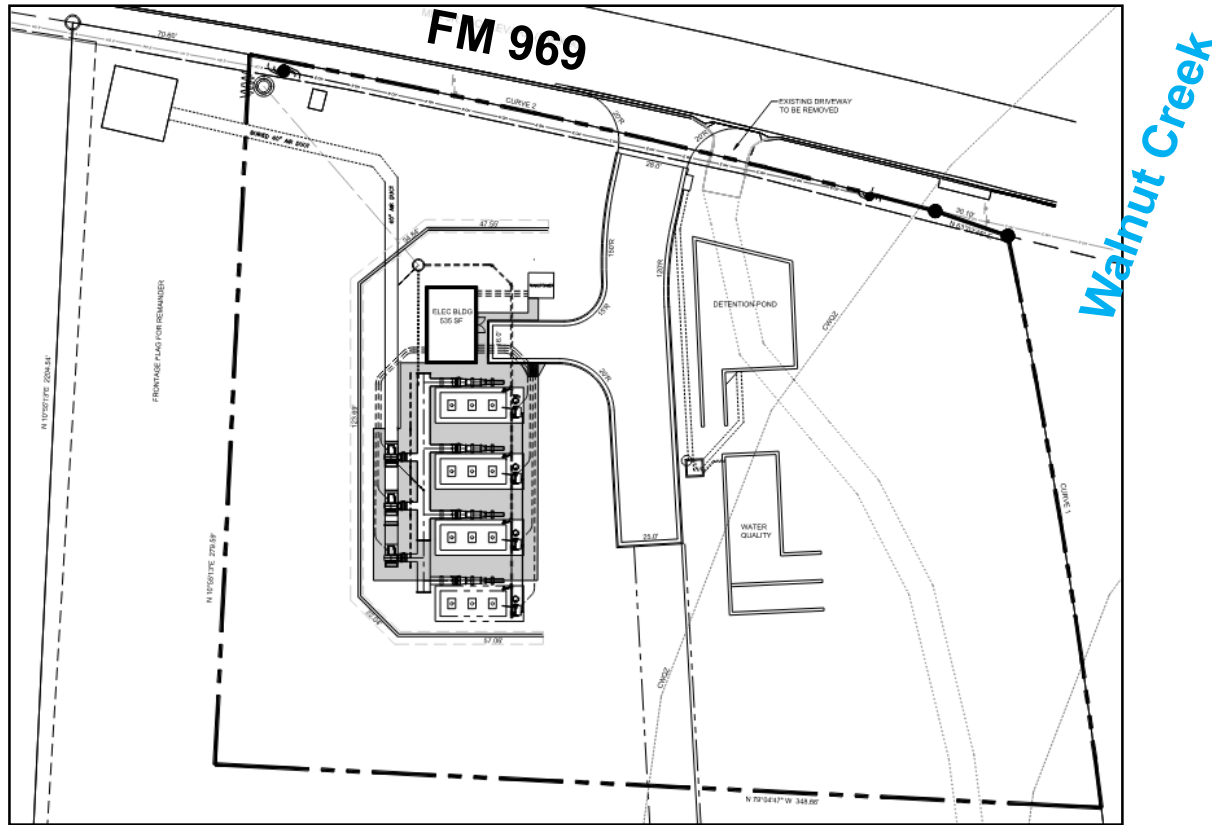
- Build a Centralized Odor Control Facility for the purpose of addressing odor and corrosion in the influence of Crosstown Tunnel
- Currently in property acquisition
- Fan Test Completed (February 17, 2021)
- Scheduled Construction in 2023
- Estimated Construction Cost \$6.3M





Work to be Performed – CIP Projects

Crosstown Tunnel Centralized Odor Control Facility



Conceptual Site Layout



Conceptual Architectural Rendering

Work to be Performed – CIP Projects

Greater Walnut Centralized Odor Control Project – 6943.051

- Build a Centralized Odor Control Facility to address odor and corrosion in the influence of Walnut and Little walnut interceptors
- Completing Preliminary Design Phase
- Fan Test Completed (February 2, 2021)
- Scheduled Construction in 2024 or 2025
- Estimated Construction Cost \$5.8M



Work in Progress – CIP Projects

Walnut Creek WWTP Secondary Improvements



Aeration Improvements



Clarifier Improvements



Pumping and Valve Improvements



Questions and Answers



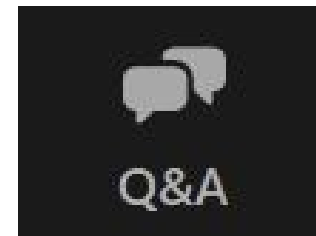
How to Submit Questions

By phone:

- 💧 Press *9 if you'd like to speak.
- 💧 Once you hear the prompt, press *6 to unmute and speak.

Online:

- 💧 Submit questions or comments in the Q&A.





AUSTIN WATER

IS WORKING TO ADDRESS SEWER ODOR
CONCERNS IN YOUR AREA

**PLEASE CALL 512-972-1000
TO REPORT SEWER ODORS**

A CREW WILL RESPOND WITHIN 1 HOUR

Thank you for attending.

- Sign up to receive updates by email. Find the link in the chat.
- Contact:
Emlea Chanslor
Community Outreach
512-972-0145
emlea.chanslor@austintexas.gov

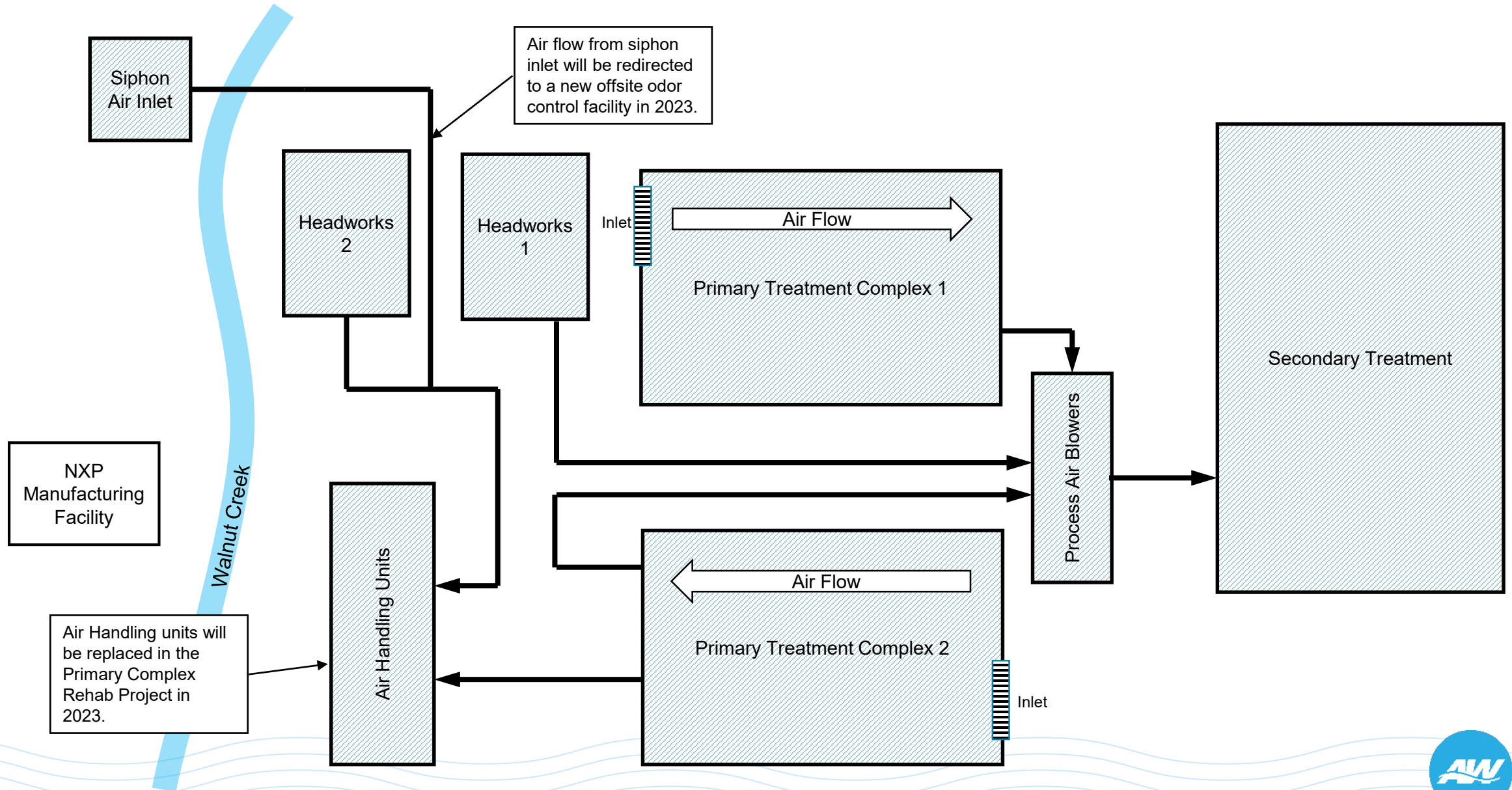




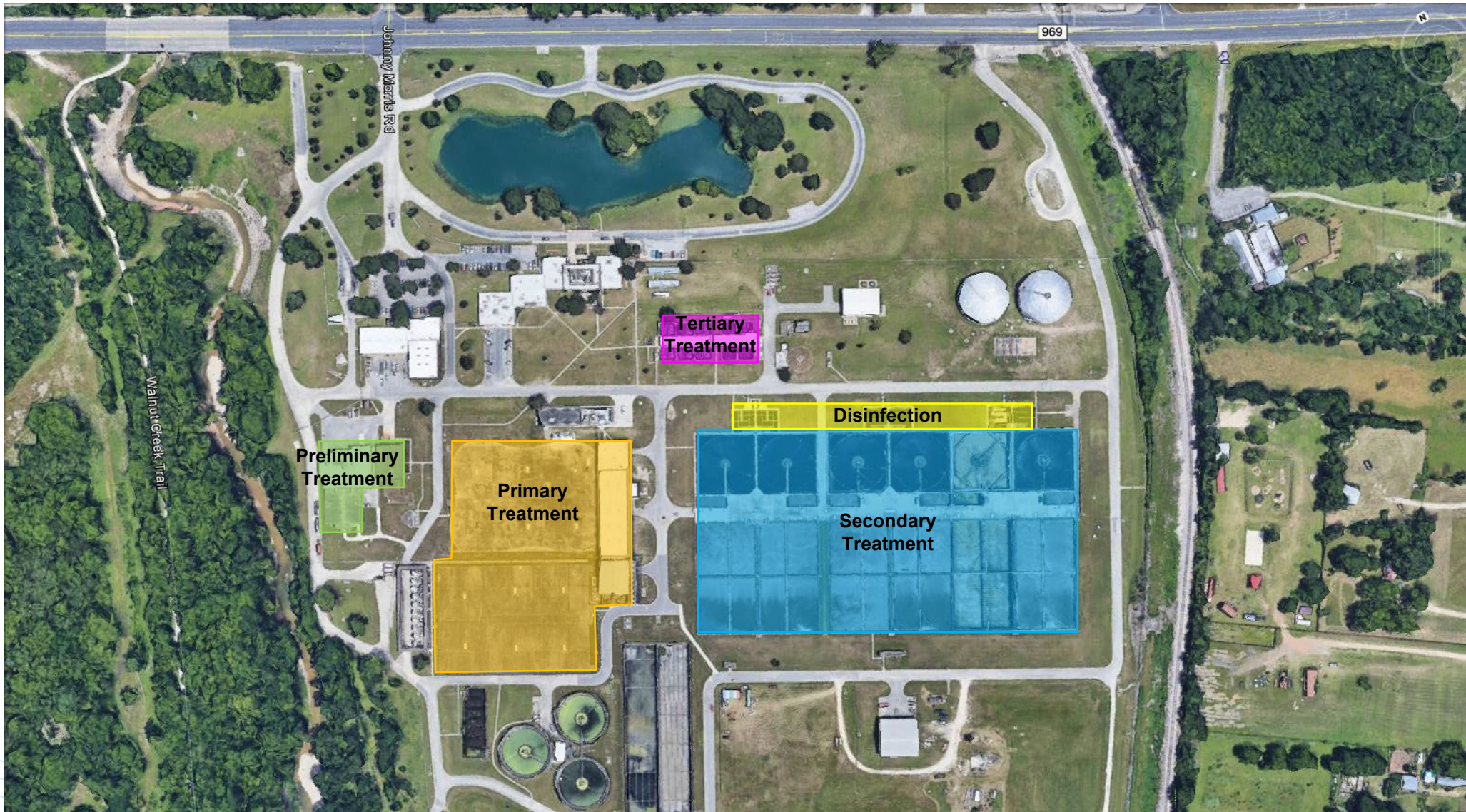
Parking Lot



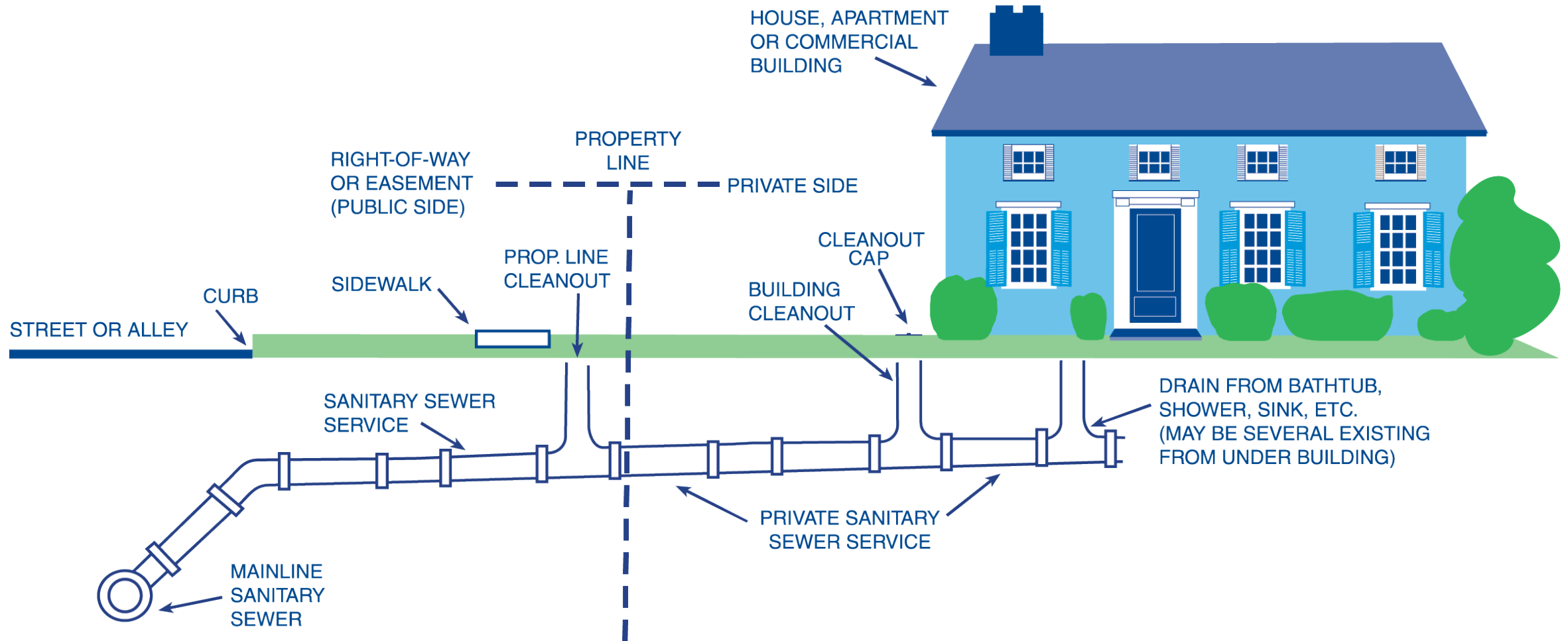
WALNUT CREEK WASTEWATER TREATMENT PLANT VENTILATION SCHEMATIC



Description of Wastewater Treatment Process



City and Private Property



Walnut Creek WWTP Odor Control Mitigation Capital Improvement Projects (CIP)

6943.027

**Crosstown Tunnel Centralized
Odor Control Facility**

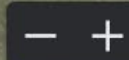
**3023.059
Influent Lift Station**

**3023.035
Sludge Thickener
Rehab**

**3023.019
Headworks
Improvements**

**3023.036
Primary Clarifier and
Flow Equalization
Basin Rehab**

**3023.046
Expansion to
100 Million
Gallons Per Day**



Odor Control Mitigation Capital Improvement Projects (CIP)

ID	Project	Improvements Related to Odor Control	Estimated Construction Cost	Timeline
3023.019	Walnut Creek Wastewater Treatment Plant Headworks Improvements	Replacement of existing Ventilation Units with Biotrickling Filters	\$25 million	Construction planned to start in 2023
3023.035	Walnut Creek Wastewater Treatment Plant Sludge Thickener Rehab	Addition of a dispersion fan for the thickener building and wet well	\$9.1 million	Currently in construction, estimated completion December 2021
3023.036	Primary Clarifier and Flow Equalization Basin Rehab	Replacement of existing Ventilation Units with Biotrickling Filters	\$25 million	Construction planned to start in 2023
6943.027	Crosstown Tunnel Centralized Odor Control Facility	Addition of a new Odor Control Facility on the Crosstown Tunnel	\$6.3 million	Construction planned to start in 2023
3023.046	Walnut Creek WWTP Expansion to 100 Million Gallons Per Day	Addition of new Odor Control units for the new treatment units	\$350 million	Construction planned to start in 2024

