



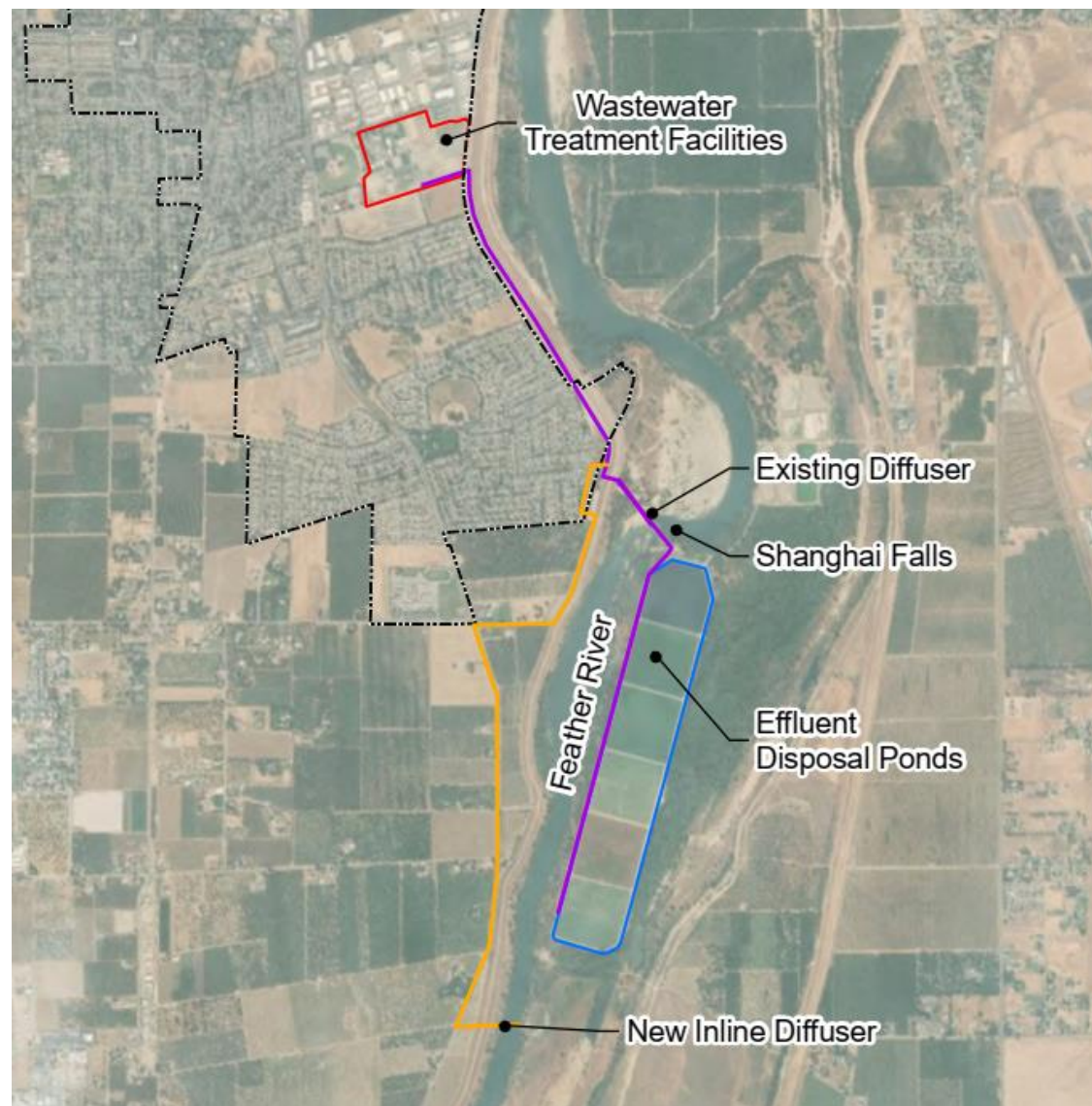
# **Wastewater Treatment Facility Outfall Diffuser – Final Design Amendment July 19, 2022**

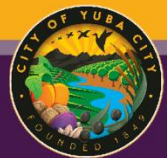


**Presentation By:  
Kevin Bradford, Deputy Public Works Director**



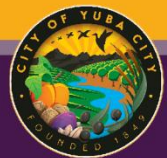
# WWTF Outfall Diffuser – Location Map





# WWTF Outfall Diffuser – Background

- Since 2011, City has been studying potential replacement options for the wastewater outfall diffuser pipe
- July 17, 2018 – Council awarded a contract to CH2M Hill Engineers (now Jacobs) for:
  - Predesign (complete)
  - Right-of-way acquisition (in progress)
  - Environmental permitting (in progress)
  - Final design (in progress – 90%)
  - Bidding services
  - Services during construction



# WWTF Outfall Diffuser – Background (cont.)

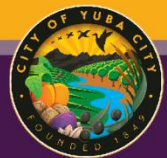
Original Contact:	\$2,783,430	July 2018
Amendment #1:	\$162,877	July 2019
Amendment #2:	\$0 (internal transfer)	July 2020
Amendment #3:	\$0 (internal transfer)	Dec 2020
Amendment #4:	\$901,857	May 2021
<u>Amendment #5:</u>	<u>\$832,843 (proposed)</u>	<u>July 2022</u>
<i>Revised Contract:</i>	<i>\$4,681,007</i>	



# WWTF Outfall Diffuser – Analysis

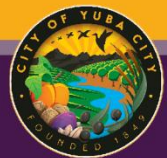
- City-requested design changes:
  - Surge tank relocation
  - Additional utility potholing
  - Bifurcation station modifications
  - Pipeline alignment changes
  - Pumping evaluation services
- Additional services identified:
  - State Revolving Fund loan application support
  - Pump Station physical modeling and modifications
  - Vacuum-Assisted Siphon design modifications
  - Bank stabilization modifications





# WWTF Outfall Diffuser – Analysis

- Estimated project schedule (funding/permitting dependent):
  - Complete final design – April 2023
  - Complete permitting – June 2023
  - Advertise for bids – July/August 2023
  - Award construction contract – September 2023
  - Construction period – October 2023/December 2024
  - Testing/startup – November 2024/December 2025
- Cost Estimate (June 2022):
  - Construction - \$25.4 million
  - Level of accuracy is -10%/+15% (\$22.8 million to \$29.2 million)
  - Soft costs - \$6.3 million
- SRF Grant Pre-Application submitted June 2022
- Final application due December 2022 for FY2023/24 cycle



# WWTF Outfall Diffuser – Fiscal Impact

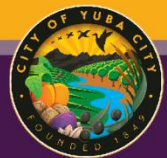
- Staff is requesting \$832,843 for Amendment #5 to complete the final design of new Outfall Diffuser
- There is approximately \$2.56 million available in Account No. 981156 at this time.



# WWTF Outfall Diffuser – Alternatives

- Postpone the final design of a new, relocated outfall despite the operational risks of using the effluent ponds





# WWTF Outfall Diffuser – Recommendation

- Adopt a Resolution to award Amendment No. 5 to the Professional Services Agreement with CH2M Hill Engineers, Inc. to complete Final Design activities for the Wastewater Treatment Facility Effluent Discharge Outfall Diffuser Project, including new scope of work tasks identified from the design, permitting, and easement acquisition activities, and authorize the City Manager to execute the amendment following approval as to form by the City Attorney, with the finding that it is in the best interest of the City.