



Project rendering

Top 50 Wastewater Projects – Northwest Langley WWTP Program

BUILDING RESILIENCE AND RELIABILITY

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CWWA National Water & Wastewater Conference, November 2 to 5, 2025
80170370

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TOGETHER
WE MAKE OUR REGION
STRONG

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23 Member
Jurisdictions

3 Million Residents

53% of BC population

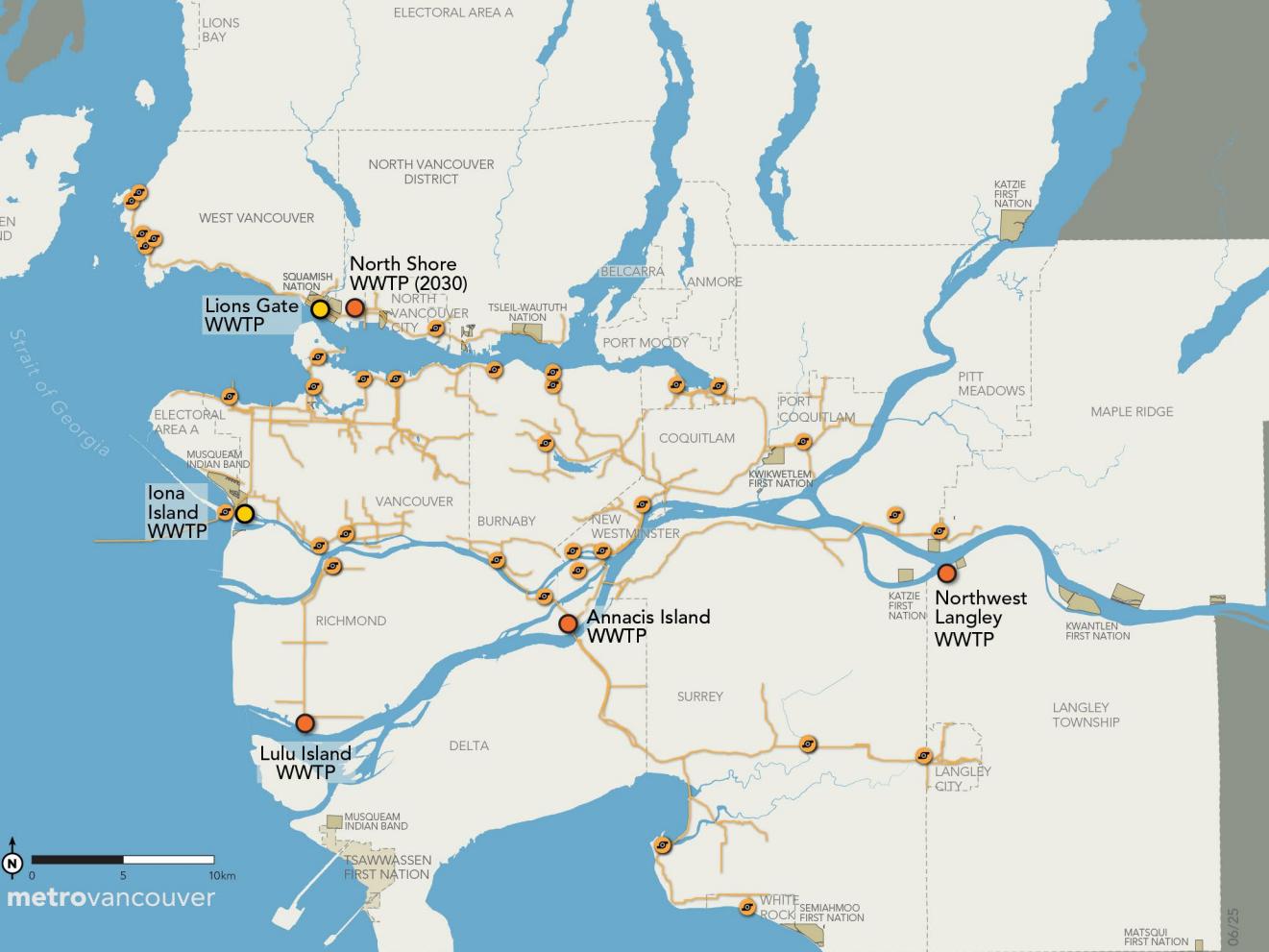


REGIONAL LIQUID WASTE SYSTEM

- Primary Treatment
- Secondary Treatment
- Sewer Pump Station
- Regional Sewer Mains

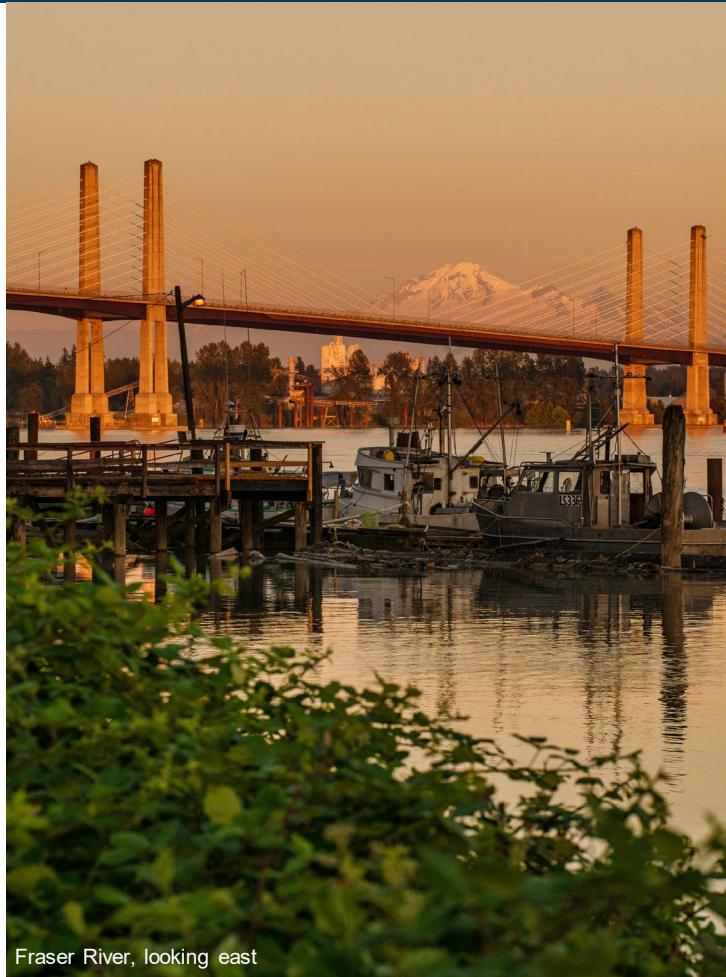
- Municipal Boundary
- Treaty Lands
- First Nation Reserves

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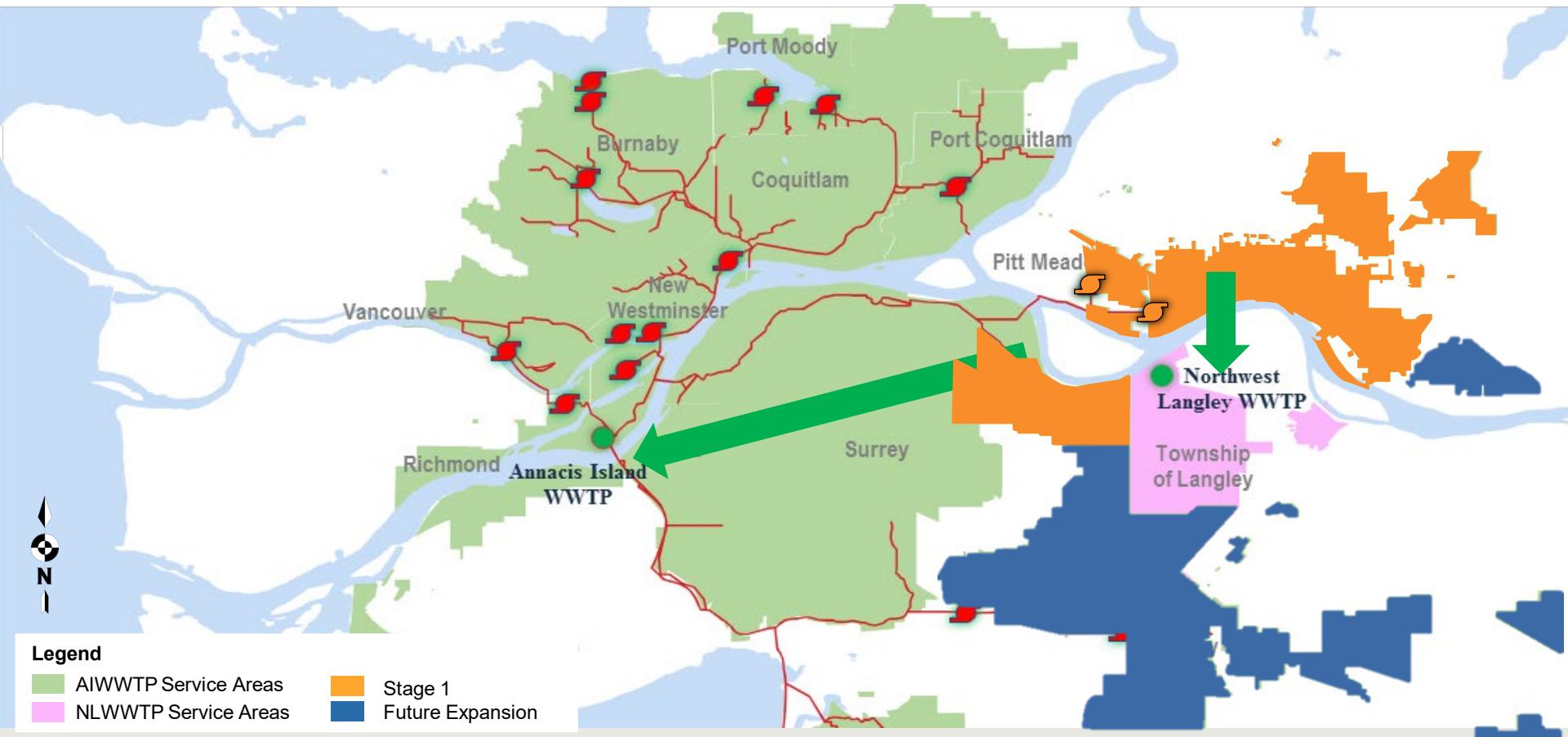
NORTHWEST LANGLEY WWTP PROGRAM NEED & BENEFITS

- Meet the urgent needs of population growth
- Provide tertiary filtration to protect the Fraser River and aquatic habitat
- Increase resiliency to earthquakes and sea-level rise
- Reduce release of untreated wastewater
- Provide robust odour control
- Develop integrated resource recovery opportunities

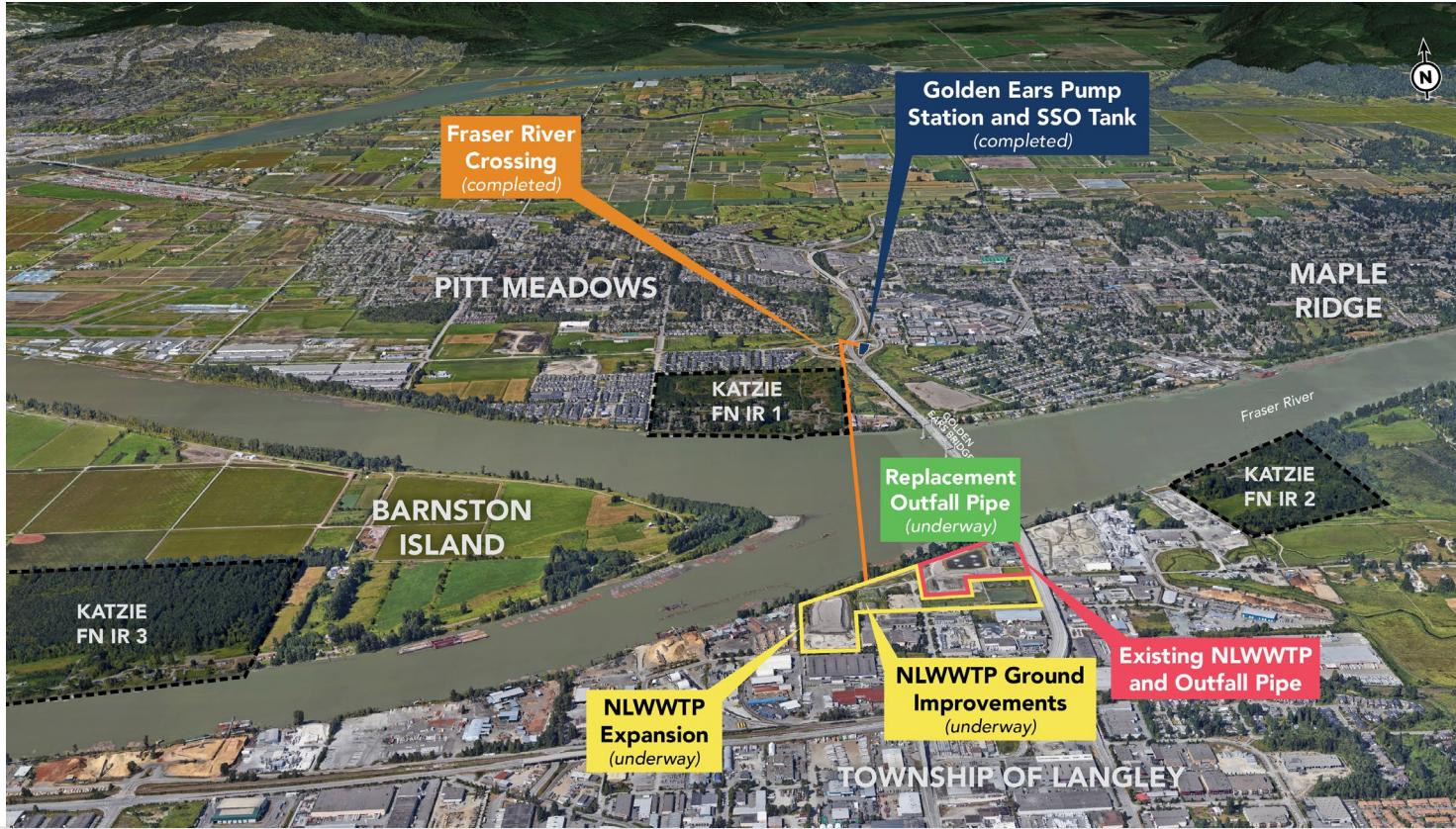


Fraser River, looking east

COMMUNITIES SERVED BY PLANT EXPANSION



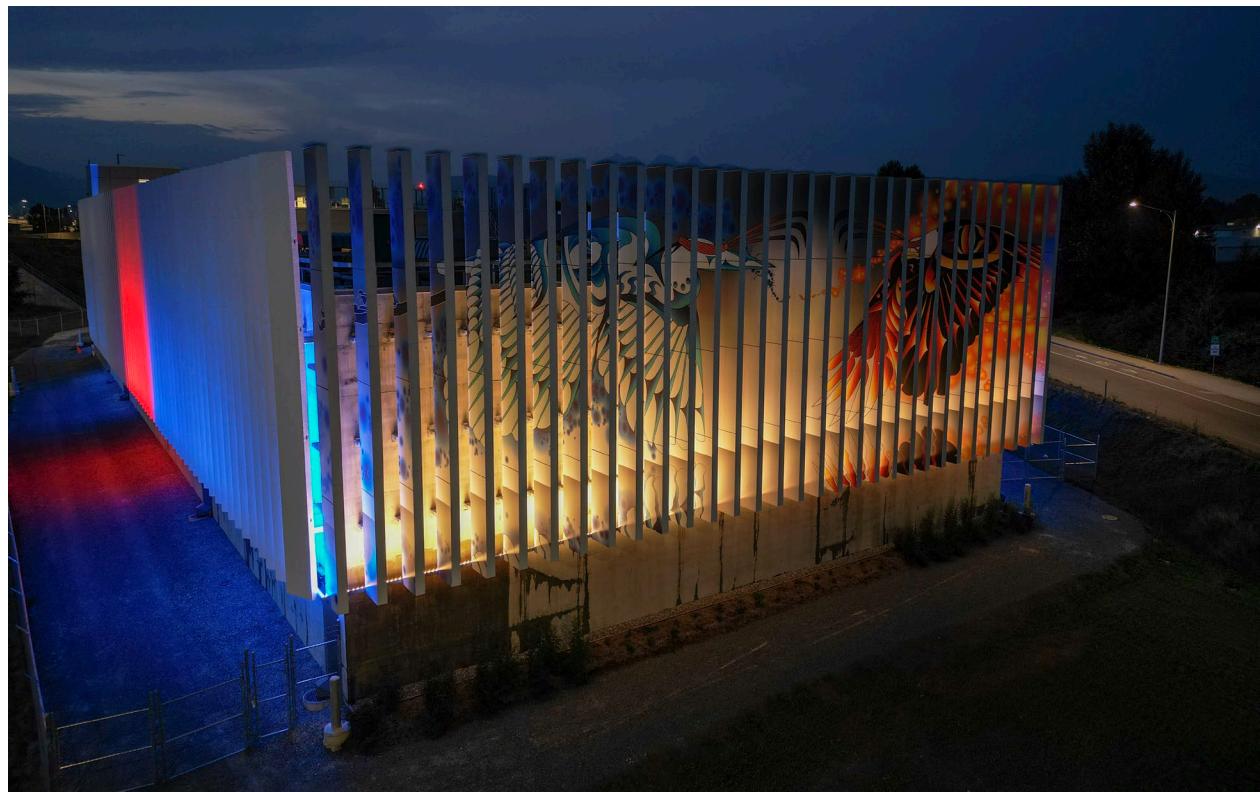
PROGRAM OVERVIEW



ENGAGEMENT & CULTURAL RECOGNITION



GOLDEN EARS PUMP STATION & OVERFLOW TANK



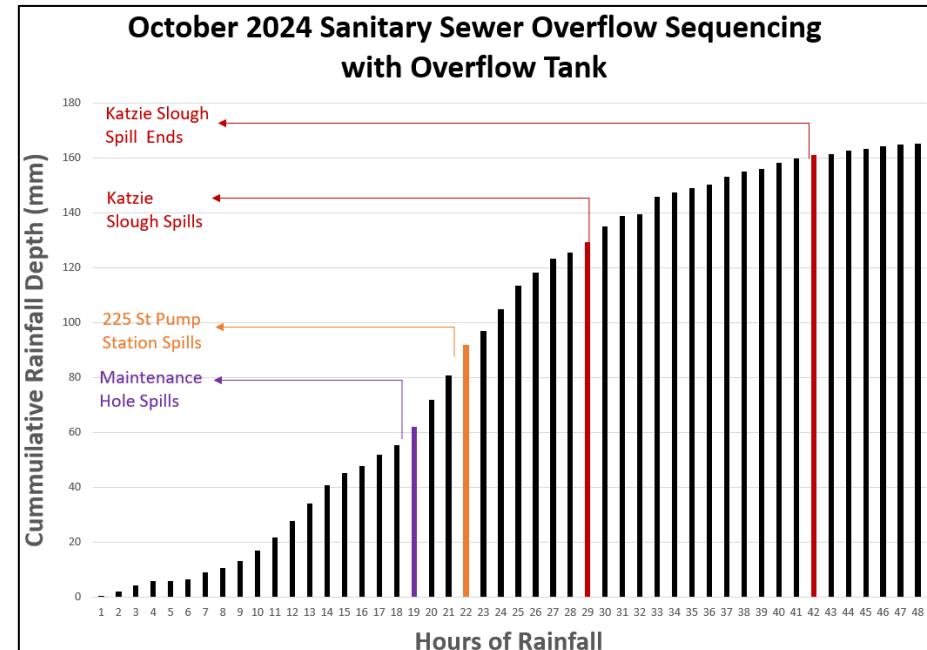
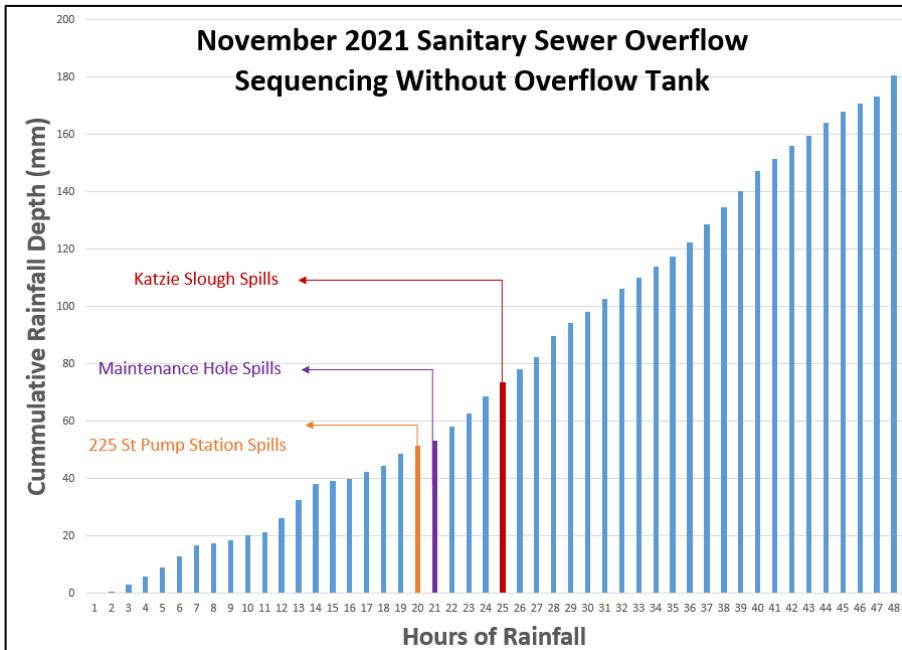
REDUCING OVERFLOWS DURING STORM EVENTS



Golden Ears Pump Station & Overflow Tank wastewater discharge sequence

REDUCING OVERFLOWS DURING STORM EVENTS

Impacts before and after overflow tank operational

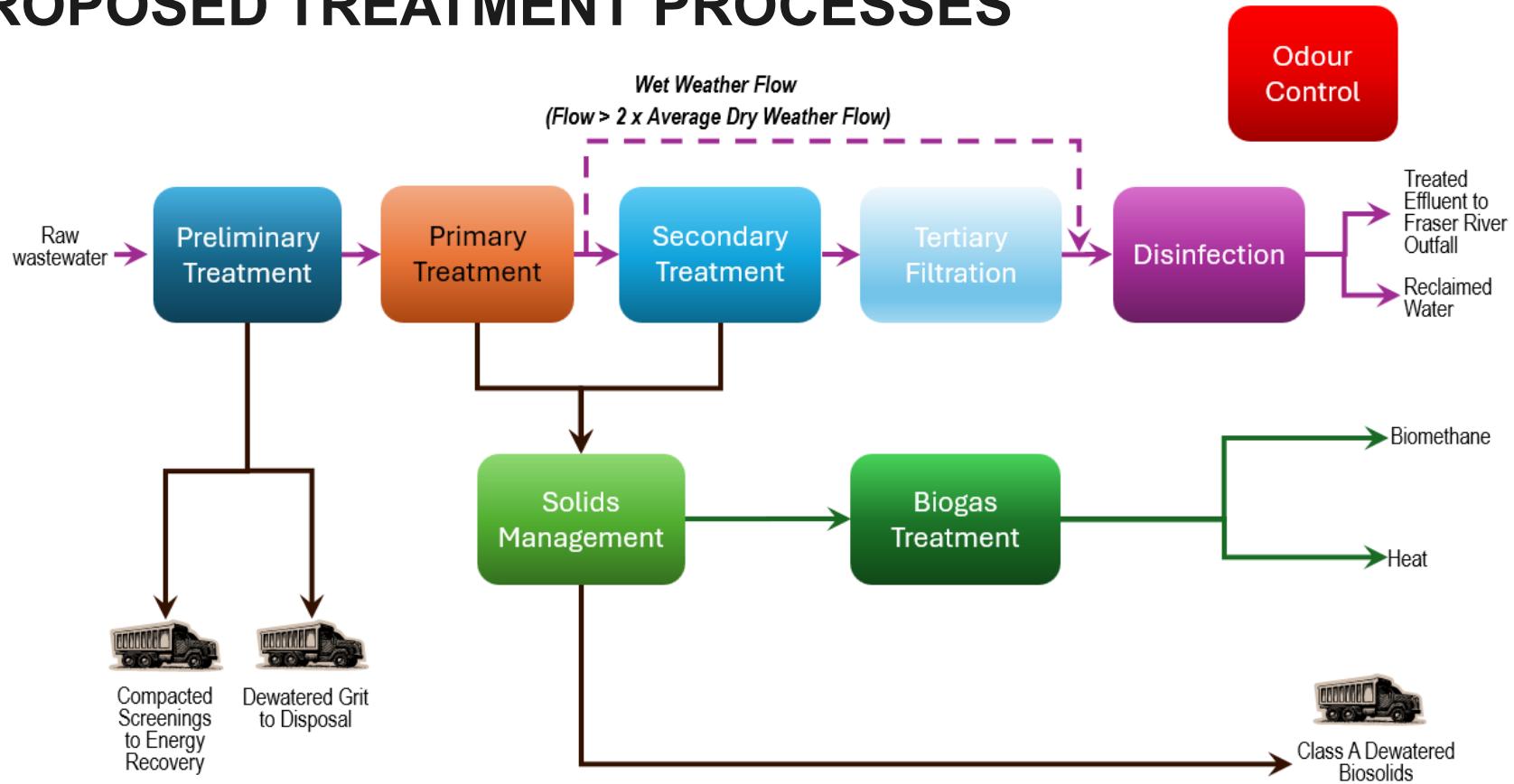


FRASER RIVER CROSSING FORCemain

Innovation to reduce impacts to the Fraser River



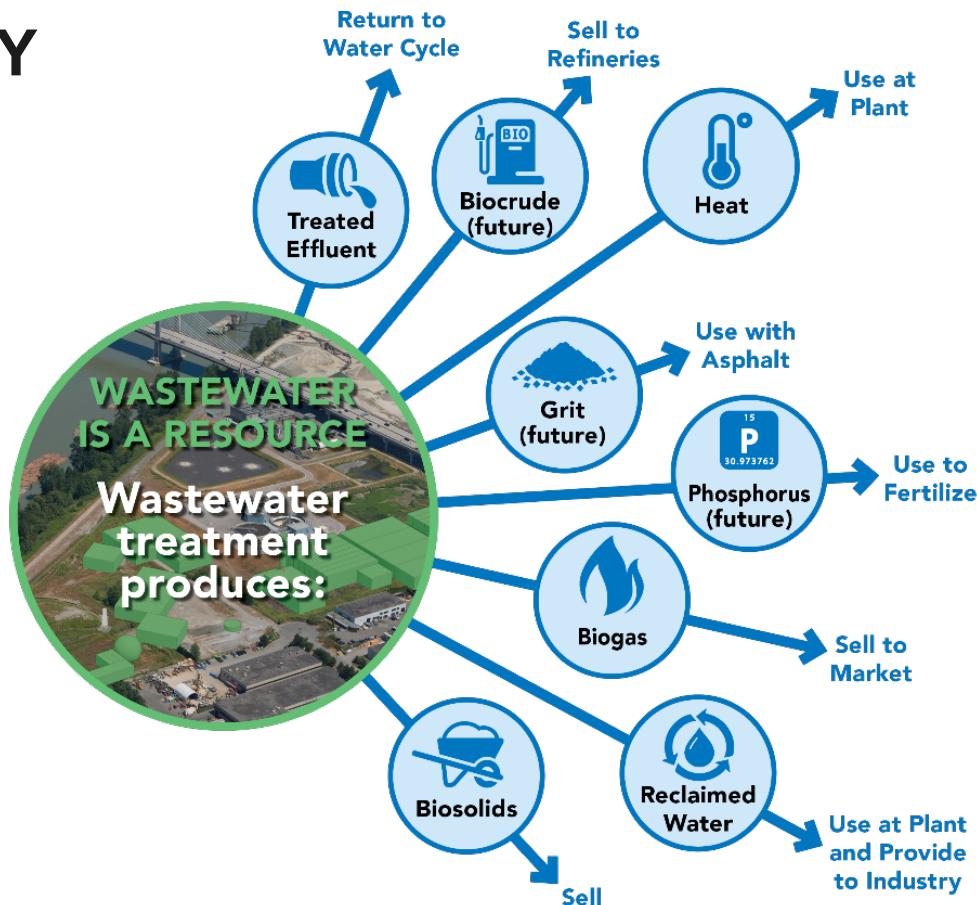
PROPOSED TREATMENT PROCESSES



EXPANDED TREATMENT PLANT

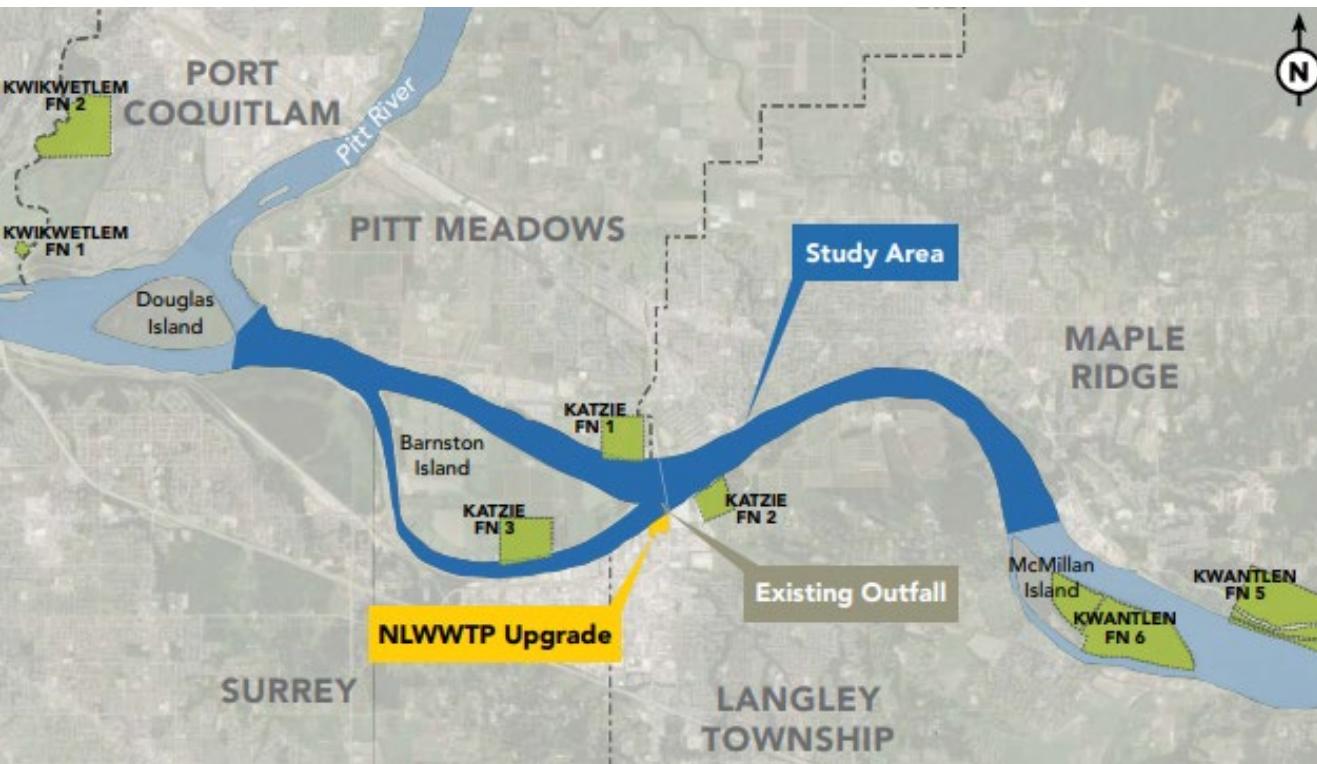


RESOURCE RECOVERY OPPORTUNITIES

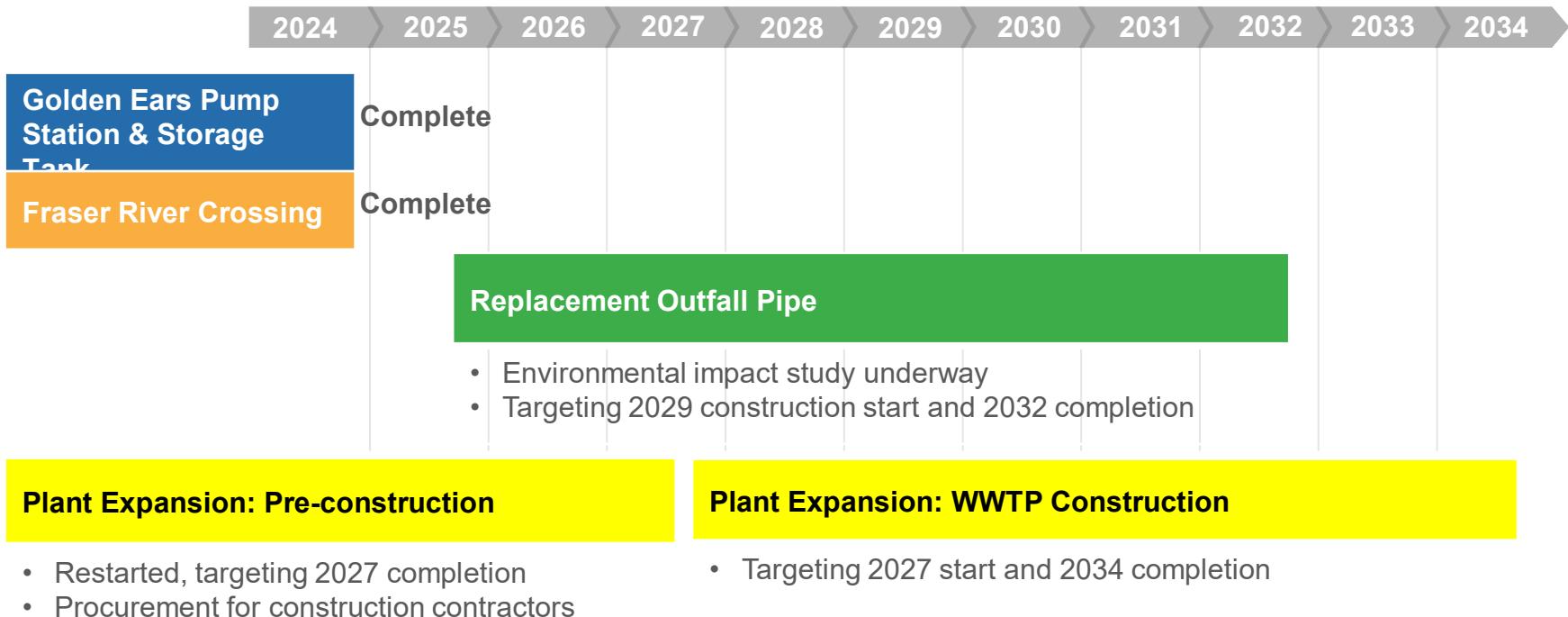


REPLACEMENT OUTFALL

Environmental impact study underway

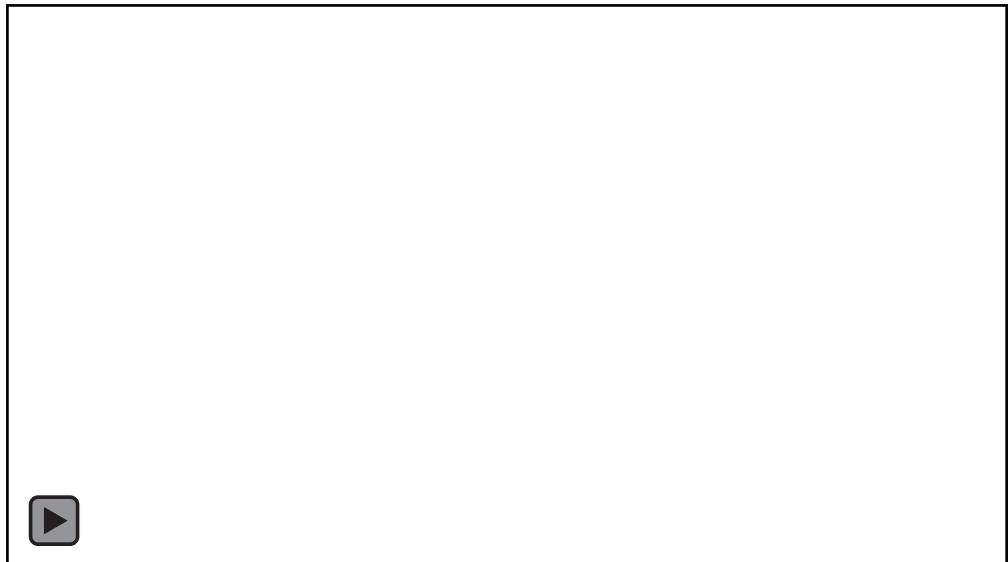


PROGRAM STATUS & SCHEDULE



LOOKING FORWARD

- Complete replacement outfall environmental impact study to confirm that we're meeting all regulatory requirements
- Finalize plant and outfall design
- Commence construction





Golden Ears Pump Station

Thank You

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Together we make our region strong