

working for clean rivers

Columbia Boulevard WTP Secondary Treatment Expansion Program
Design and Program Management Contracts
Tryon Creek WTP Improvements Program
Program Management Contract



Muriel Gueissaz-Teufel, P.E.
CBWTP Program Manager

Council Agenda Items
#718, 719

JUNE 27, 2018



ENVIRONMENTAL SERVICES
CITY OF PORTLAND

NICK FISH, COMMISSIONER
MICHAEL JORDAN, DIRECTOR



CBWTP : 1952

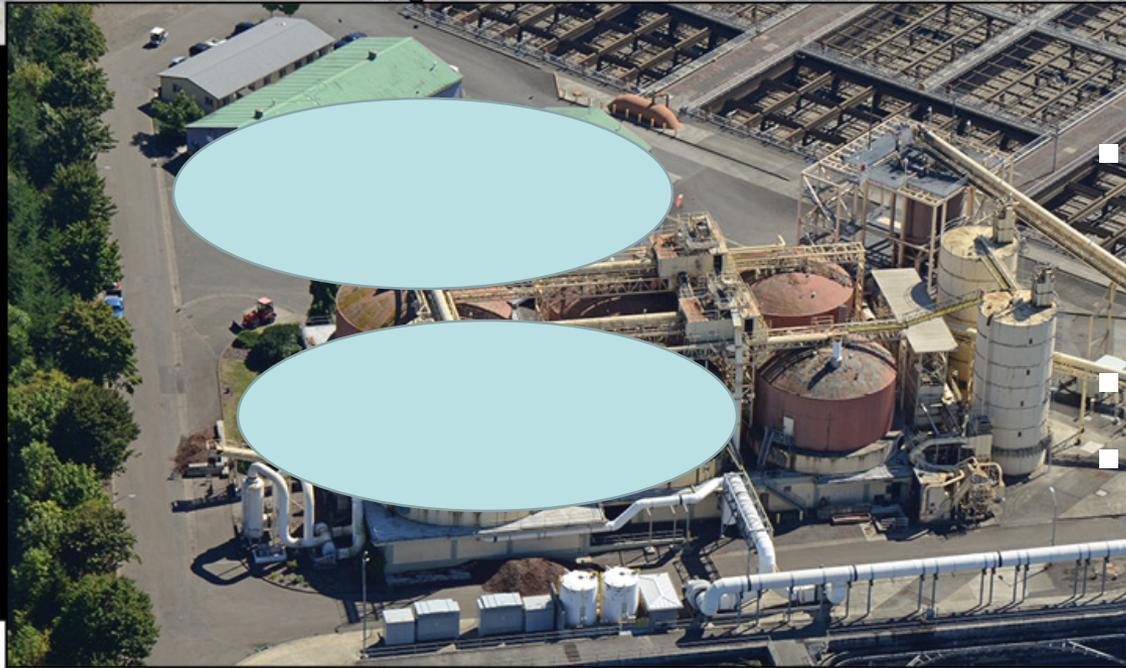
TCWTP : 1964

**32+ Billion Gallons
Treated in 2017**

CBWTP Program Objectives

- 2011 Mutual Agreement and Order with DEQ
- Addition of clarifiers required
- Mandated completion by December 31, 2024
- Increased biological treatment capacity during high rain events
- Added resiliency





New Clarifiers

- Demo and replacement of existing buildings, odor control
- Soil stabilization, excavation
- Tie-ins with existing process

**Columbia Boulevard
Wastewater Treatment
Plant Campus**



SMOUTH AVE

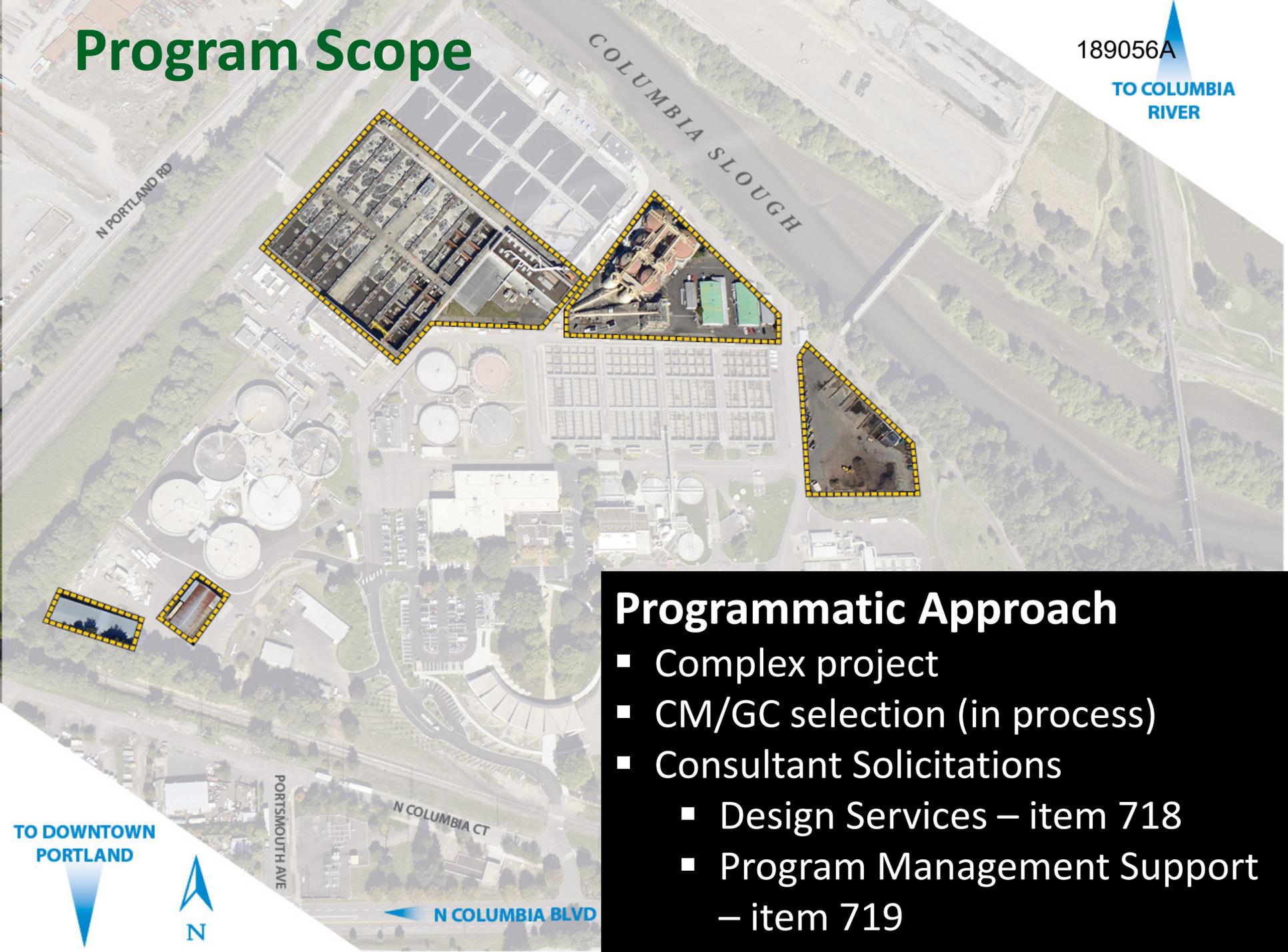
COLUMBIA CT

N COLUMBIA BLVD

Program Scope

189056A

TO COLUMBIA
RIVER



Programmatic Approach

- Complex project
- CM/GC selection (in process)
- Consultant Solicitations
 - Design Services – item 718
 - Program Management Support – item 719

TO DOWNTOWN
PORTLAND



N COLUMBIA BLVD

Design Services – Item 718



- Advertised September 2017
- Two proposals received
- CH2M Engineers selected
- Negotiated fee of \$28.3 million
 - Optimal Level of Confidence



Design Services – Item 718

- 25 percent to Certified Disadvantaged, Minority, Women-owned and Emerging Small Business (D/M/W/ESB):
 - Architectural design
 - Acoustical design
 - Electrical studies
 - Geotechnical investigations and design
- D/M/W/ESB Development Program



Program Budget – Item 718

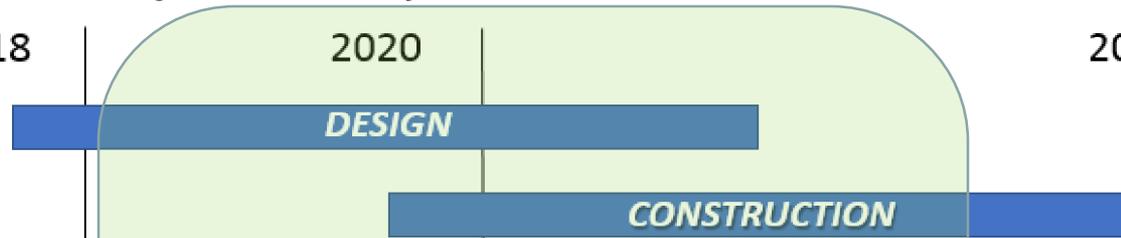
- Total Program Cost Estimate = \$146M
- Construction Cost Estimate = \$100M
- Low Level of Confidence
- 7 year project



Program Schedule – Item 718

E07947 - CBWTP Secondary Treatment Expansion

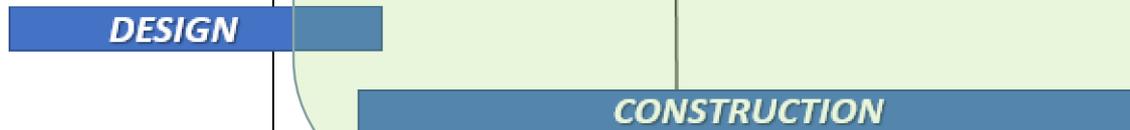
Jul 2017 2018 2020 2024



Program Support Needed

E10582 - TCWTP Headworks Improvement

Jul 2017 2018 2020 2024



Program Support Services – Item 719

- Approach successfully used on CSO program
- Support both CBWTP and TCWTP programs
 - Provides expertise in large program implementation, CM/GC delivery
 - Provides additional staff support to BES
- Advertised September 2017
- Stantec Consultants recommended for award



Program Support Services – Item 719

- Negotiated fee:
 - \$21.8 million, High Level of Confidence
 - D/M/W/ESB Participation at 25%
 - 25% WBE - Deputy Manager, Program controls, CM, Inspection support
 - CM/GC support for Community Benefits Agreement
 - QA/QC focus



Program Budget – Items 718 and 719

- Total Program Cost Estimates = \$261 M
- Construction Cost Estimates = \$169M
- Low Level of Confidence



Council Actions – CBWTP Program

- **Previous Actions:**

- **October 2015** - consultant contract authorization, planning
- **September 2017** - authorization of exemption to low-bid construction contract award in favor of competitive CM/GC exemption

- **Future:**

- **Future** – Report(s), CM/GC Guaranteed Maximum Price(s) and Community Benefits Agreement



Council Actions – TCWTP Program

- **Previous Actions:**

- **2012** - consultant contract authorization, planning
- **2016** - consultant contract authorization, plant improvements design
- **2016** - authorization of exemption to low-bid construction contract award in favor of competitive CM/GC selection

- **Future:**

- **Future** – consultant contract amendment authorization, collection system design
- **Future** – Report(s), CM/GC Guaranteed Maximum Price(s) and Community Benefits Agreement



Recommendation

- **Item 718:** Approval of a contract with CH2M Engineers for Predesign, Design, Construction Assistance related to the Secondary Treatment Expansion Program, in an amount not to exceed \$28,000,000
- **Item 719:** Approval of a contract with Stantec Consultants to provide support services in Program Management, Project Controls, and Construction Management related to both the Secondary Treatment Expansion Program and the Tryon Creek Improvements Program, in an amount not to exceed \$21,800,000



Questions?

Thank you

