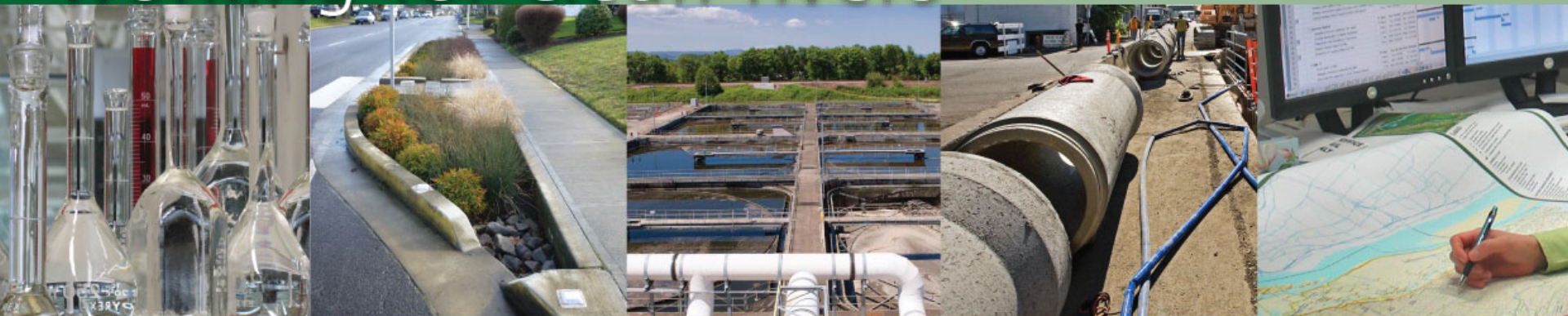


# working for clean rivers



## **CBWTP Facilities Plan Update**

### **Agenda item #1079**



**ENVIRONMENTAL SERVICES**  
**CITY OF PORTLAND**

NICK FISH, COMMISSIONER  
MICHAEL JORDAN, DIRECTOR

**Scott T. Gibson, P.E.**  
**Muriel Gueissaz-Teufel, P.E.**  
Bureau of Environmental Services

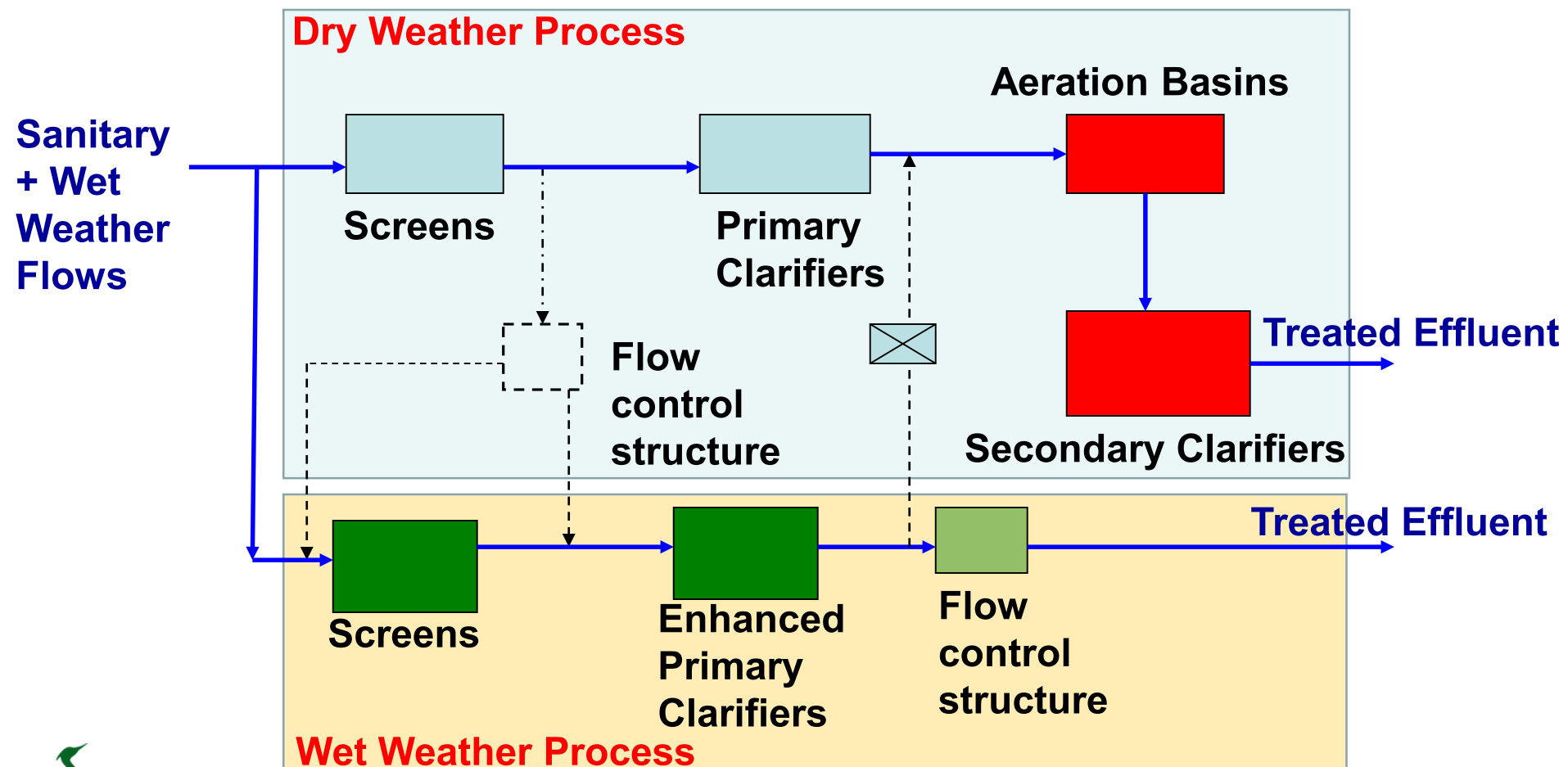
October 21, 2015

# Project Requirements

- The CBWTP typically treats 60 to 80 million gallons per day (mgd)
- During storms, flows conveyed to the plant can reach 450 mgd
- Unique dry weather/wet weather flow conditions
  - Primary treatment
  - Secondary treatment



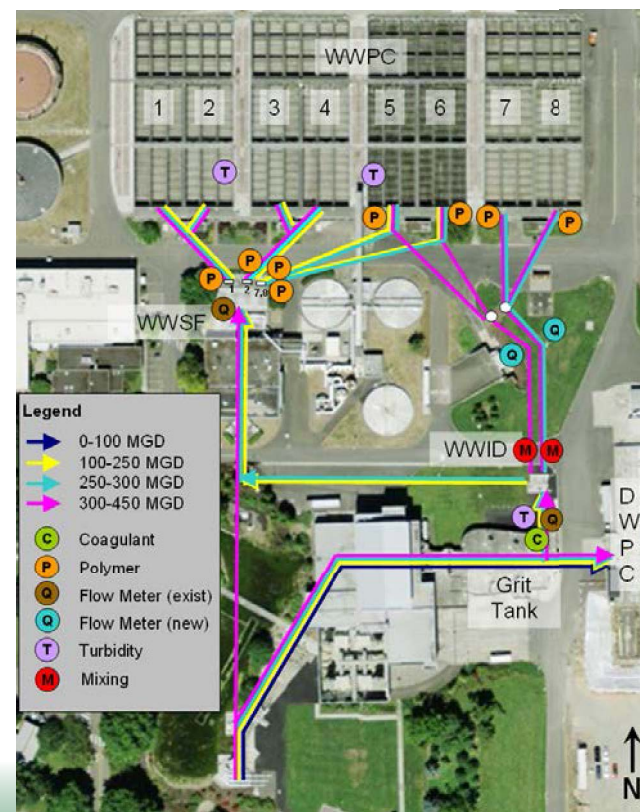
# CBWTP Flow Schematic





# Project Requirements

- Facilities plans are done on a 10 year cycle - 2010 last one
- In 2011, the City entered into a Mutual Agreement and Order (MAO) with DEQ.
- The order stipulated conditions along with a compliance schedule.
- Large investments were made by the City.
- DEQ requires an updated Facilities Plan by December 30, 2016.







# Project Objectives

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- Develop alternatives
- Updated Facilities Plan
- Recommendations for long term Capital Investments
- HDR was selected through a competitive process where the City received four proposals and interviewed 3 teams





# Project Overview (Tasks)

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- Regulatory review and analysis, and NFAA preparation
- Existing facilities performance evaluation
- Basis of planning update
- Biological treatment expansion alternatives evaluation



# Project Overview (Tasks)

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- Master plan update
- Public involvement
- Facilities Plan Update and NFAA submittal
- \*Sustainable return on investment evaluation
- \*Effluent hydraulics
- \*Traffic Analysis (master plan)





# Project Budget and Schedule

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- The base contract is \$499,624
- Optional tasks add \$76,576
- The total contract is \$576,200
- The total budget for the effort is estimated at \$731,000
- Submittal of the Facilities Plan Update and NFAA are required to DEQ by December 30, 2016.
- Delays in authorization of the agreement will adversely affect compliance with the MAO and could result in fines or other sanctions.



# After the Facilities Plan Update

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- DEQ will provide a response by March 31, 2017
- Critical path schedule for implementation due by June 30, 2017
- Startup of the expanded facilities by December 31, 2021.



# Recommendation

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- Authorize a contract with HDR Engineering Inc. to provide planning services for the Columbia Boulevard Wastewater Treatment Plant Facilities Plan Update, not to exceed \$576,200.
- Delay in authorization will adversely affect regulatory compliance and could result in fines or other sanctions.





# Questions

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Thank you

