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ABTP Disinfection

Progress Presentation No. 1

MTORONTO

Presentation Outline

- Overview of Proposed Disinfection Systems
- Project Progress
- Work Plan Next 3 Months
- Project Schedule





Overview of Proposed Disinfection Systems

1.11



Major Plant Flow Paths





Two Disinfection Locations

Primary Effluent Disinfection

Secondary Effluent Disinfection Facility





Primary Effluent Disinfection

Retrofit Primary Tanks 1 & 2 into Chlorine Contact Tanks





Average Flow Conditions







Secondary Bypass Flow Condition



UV System Site Plan









UV System Site Plan Proposed UV Building Layout





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New ABTP Disinfection Project Team





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Conceptual Design Review

Step 1 – Review Conceptual Design

- AECOM largest engineering consulting firm in North America
- Concept Design: Value Engineering Review
 - National and Regional Vice Presidents (5)

IORONTO

 Most senior engineers in areas of Disinfection, Process Design, Stormwater Management & Treatment, Electrical (10)



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General Plant Flow Paths 3,300 MLD



Flow & Water Level Monitoring Program







Work Plan for Next 3 Months

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Work Plan – Next 3 Months



Work Plan – Next 3 Months

Engineering Studies

- Evaluation of UV systems
- Secondary effluent disinfection system design basis
- Primary bypass effluent disinfection system design basis
- UV / Chemical storage facility layout
- Chemical delivery methods







Project Schedule



Project Schedule

Activity	Start Date	Completion Date
Engineering Study	October, 2013	March, 2014
Preliminary Design	April, 2014	November, 2014
Detailed Design	December, 2014	February, 2016
Approvals	November, 2015	March, 2016
Tender & Award	April, 2016	July, 2016
Construction	August, 2016	August, 2019

- 2.5 years until contract awarded to Contractor
- 3 years of construction
- System commissioned by August, 2019 ~5.5 years from now



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Questions?

