

# Clarington TS: Construction Water Handling Activities

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# My Role at Hydro One



- Environmental Assessments
- Permits & approvals
  - PTTW, SAR (Butternut), etc.
- Coordination of environmental consultants
- Planning of mitigation measures
  - Access restrictions, erosion/sediment controls, etc.
- Communication with construction crews
- Periodic monitoring at the site

# Agenda Topics

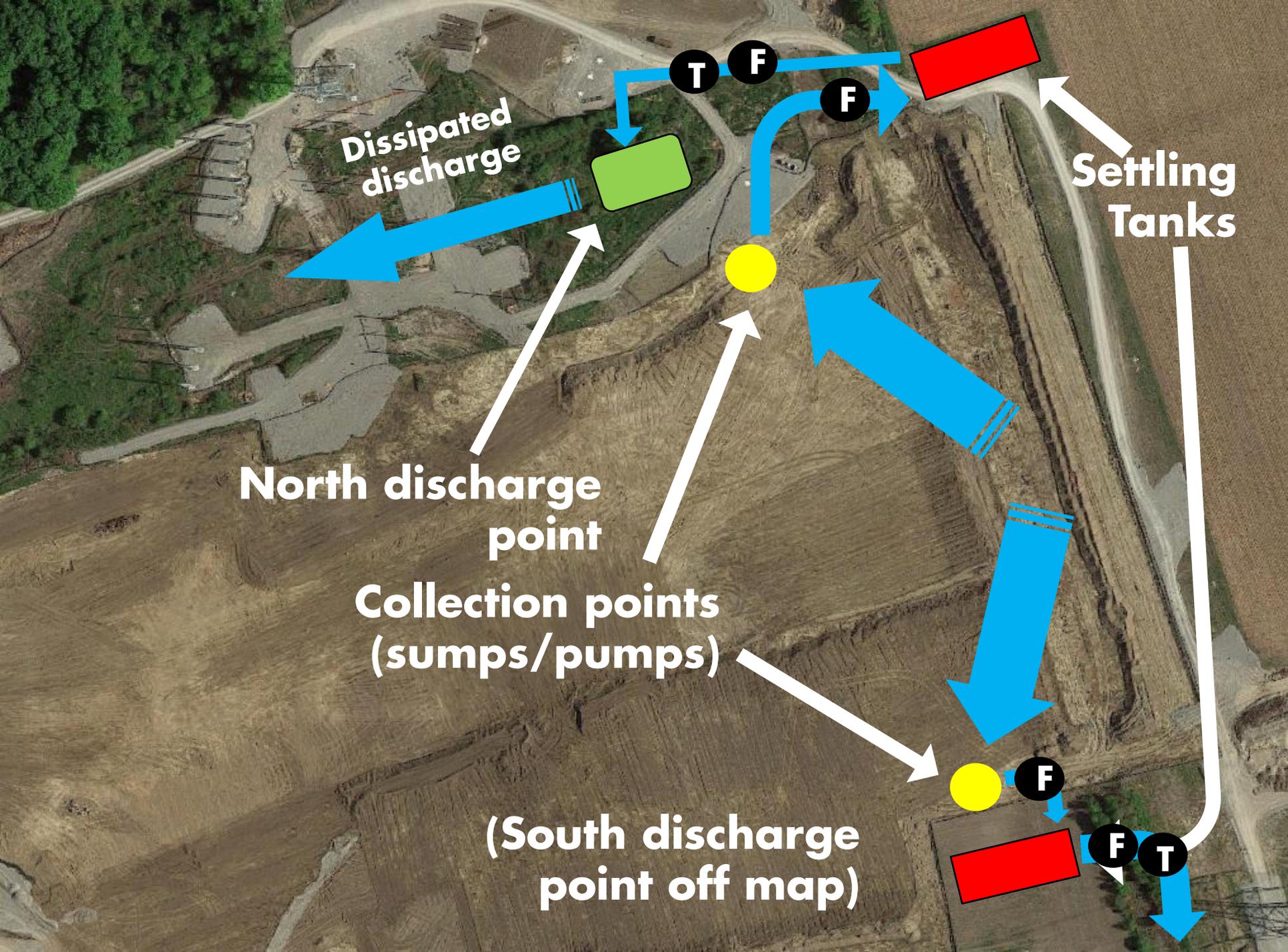
- Background
- PTTW requirements
- Water handling at the Clarington TS site
  - How is water collected?
  - How is it stored?
  - Where does it go?
- Next Steps

- During the Class EA, Hydro One committed to undertaking a groundwater monitoring program
  - Engaged Stantec, who proposed the Groundwater and Surface Water Monitoring Program (“the Monitoring Program”)
- Using data collected from the first year of monitoring, initial calculations showed that construction dewatering could meet 50,000 L/day
- PTTW application submitted in November 2014, and the permit was received on May 26, 2015

- Max. water taking: 800,000 L/day (1,400 L/min)
  - To date, max. of ~102,000 L/day; average of ~4,800 L/day
- Must record daily volumes and submit annual report
- Ensure that discharge meets turbidity requirements
- Continue to implement the Monitoring Program
- Agreement with MOECC Central Region to monitor drawdown at on-site wells adjacent to cut slope
  - Compare observed drawdown to predicted

An aerial photograph of a construction site. A large, irregularly shaped area in the center-right is highlighted with a solid blue fill and a dashed white border. This area is labeled "Excavation ('Cut') Area". The surrounding terrain is a mix of brown earth, green vegetation, and some structures. A road or path runs along the top and right edges of the site.

Excavation  
("Cut") Area



Dissipated discharge

Settling Tanks

North discharge point

Collection points (sumps/pumps)

(South discharge point off map)

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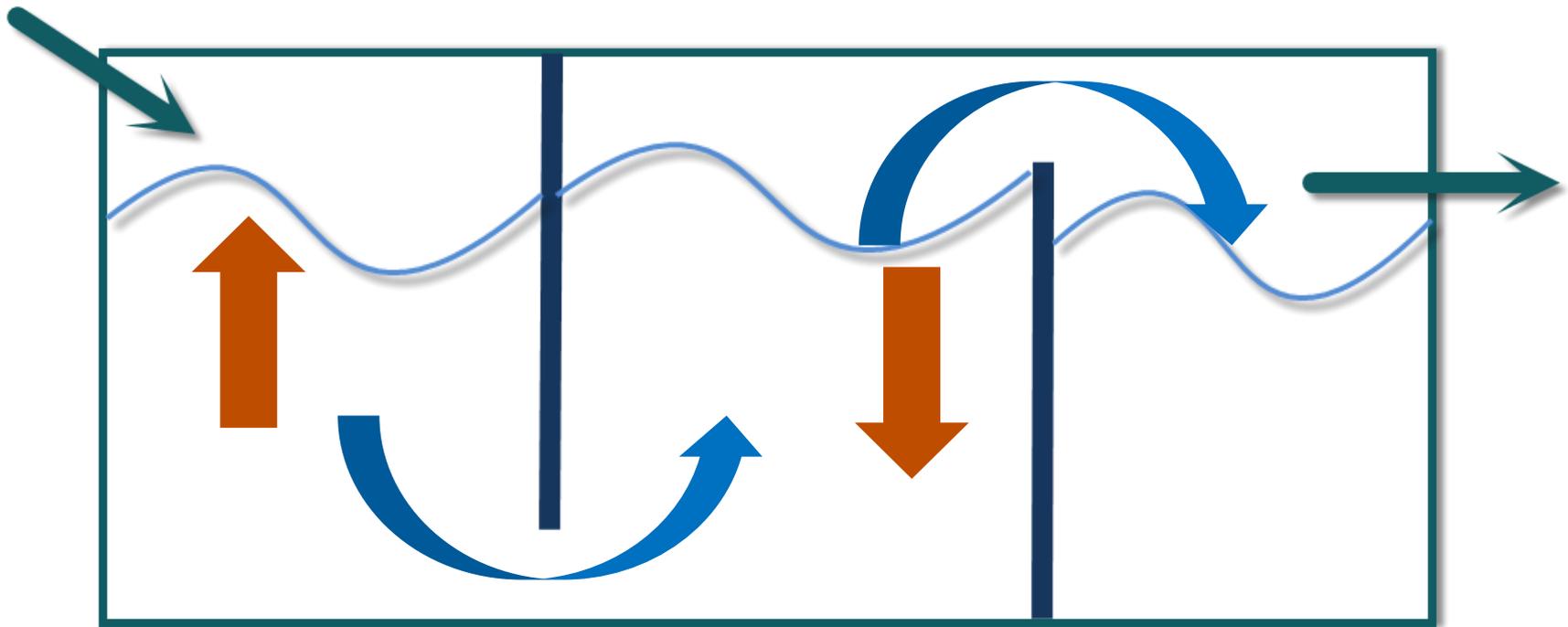
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Environmental Solutions

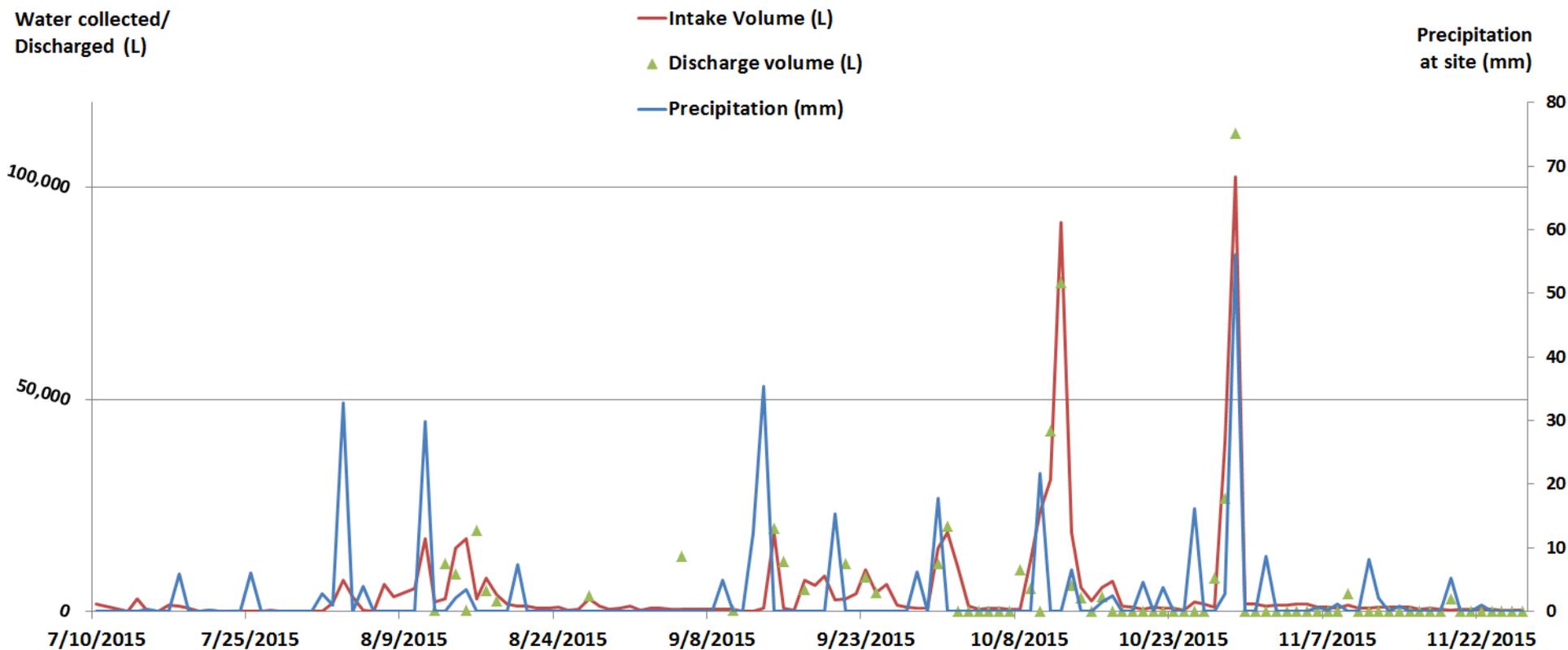
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# Settling Tank Diagram





# Water Collected and Precipitation Observed at the Clarington TS site



# Next Steps

- Decommission the system for winter (next 1-2 weeks)
  - Will be ready to re-mobilize in spring, if required
- Submit 2015 daily data to MOECC Water Taking Reporting System (by March 31<sup>st</sup>, 2016)
- Submit Annual Report on water taking activities to MOECC (by March 31<sup>st</sup>, 2016)
- Permit officially expires April 30, 2016

Questions?