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# Scotts Mills Dam at Lock 19 Replacement City of Peterborough

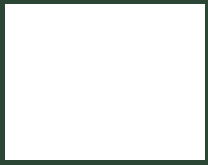
April 8, 2019



# Infrastructure Investment

- A total of \$615M of infrastructure investment funding has been announced for the Trent-Severn Waterway to date. \$125 million is being spent within the City of Peterborough.
- Funds are allocated to projects with deferred work, as identified by engineering inspections and various reviews.
- Investments into the infrastructure along the TSW will:
  - enhance our ability to mitigate flood risks
  - protect our heritage
  - strengthen the appeal of the Waterway as a destination for visitors and tourists





# Scotts Mills Dam at Lock 19

## Replacement

### **Scope of Work**

- Replace current dam with a new dam having life expectancy of 80-100 years - including design and construction management services
- Respect current historic look – concrete construction, stoplog operation
- Increase hydraulic capacity – realignment of inefficient side sluices and removal of non-operable weir
- Improve access and efficiency for ongoing maintenance
- Restore public access – separate clear area from operating area



# Scotts Mills Dam at Lock 19

## Importance of asset replacement

- Integral to TSW system water management – one dam in a chain
- Local regulation of upstream and downstream water levels, including Little Lake
  - Impact on waterside economy and enjoyment by residents
  - Impact on the outflows of the storm sewer system and Jackson Creek
- Engineering inspections in recent years have identified declining condition, including scouring at the dam's base due to undertow effect, and deteriorating concrete strength.



# Project Challenges

- Space for construction – Parks Canada owns very little property at the site to accommodate a project of this magnitude.
- Environmental - spawning of sensitive Walleye downstream
- Urban community – significant reconstruction project within a residential community
- Necessity to pass river flows during construction, maximizing capacity during the spring melt



# Reducing Challenges & Impact

## Preparation and Scheduling

### **Space for construction**

- Four residential properties were purchased on River Road South.
- New properties to remain parkland with maintenance access in the short-term following construction. Proposal to add to City of Peterborough trail network, connecting north/south of Lansdowne, and east/west of canal.



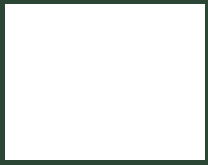


# Reducing Challenges & Impact

## Preparation and Scheduling

### **Environmental**

- Input on design of project will reduce but not eliminate impact on fish spawning habitat resulting from the construction activities at the Scotts Mills Dam, and at other Otonabee River dams. We've already taken action on:
  - Three years of assessments to understand and gather data on local spawning habitat and spawning activity, primarily for sensitive Walleye.
  - Implemented a construction project that enhanced and added spawning habitat locally.
  - In-water construction at Scotts Mills Dam to be halted during spawning periods
- Restoration and enhancement of spawning habitat within the project areas will follow construction; aim to leave in same condition or better.
- Several years of monitoring to ensure effectiveness.



# Reducing Challenges & Impact

## Preparation and Scheduling

### **Residential Impact**

- River Road South to remain open to traffic; occasional temporary requirement for one-lane closure.
- One-way construction route south on River Road South, allowing right-hand turns only into and out of construction site to reduce traffic bottlenecks.
- Sidewalks will remain and flag staff on hand to assist pedestrians.
- Hours of work will be long, but compress work into 2.5 years vs added multi-year construction.
- Potential for reduced work from March – end of June of each year.





# Reducing Challenges & Impact

## Preparation and Scheduling

### **Water Management**

- 24/7, 365 water management will be available throughout construction.
- Complex schedule and project design will maximize capacity during spring melt - phased so that cofferdam can move and newly constructed sluices are brought online for use during this time.
- Worksite designed in such a way that it can be flooded if absolutely necessary to pass extreme event flows.



**Looking for more information?**

[www.parkscanada.gc.ca/tswInfrastructure](http://www.parkscanada.gc.ca/tswInfrastructure)

To join a project mailing list or ask a question, reach  
out to:

[Ont.TrentSevern@pc.gc.ca](mailto:Ont.TrentSevern@pc.gc.ca)

# Infrastructure Investment

## City of Peterborough and area

- Sawyer Creek Dam at Lock 25 replacement – **beginning summer 2019**
- Douro Dam at Lock 24 replacement - **ongoing**
- Otonabee Dam at Lock 23 replacement - **ongoing**
- Nassau Guard Gate – **complete summer 2019**
- Earth Dams (Thompson's Bay, Hurdons, Curtis East, Curtis West) – **complete spring/summer 2019**
- Warsaw Road Swing Bridge replacement – fall 2019
- McFarlane Bridge repairs - complete
- Maria Street Swing Bridge rehabilitation - 2020
- Peterborough Lift Lock investigation - **ongoing**
- Scotts Mills Dam at Lock 19 replacement – **beginning summer 2019**

