

Remediation of Wetland Used by First Nation for Fishing and Plant Harvesting, Mohawks of the Bay of Quinte, Tyendinaga Mohawk Territory

Author:

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Track: Land Stewardship

# Tyendinaga Mohawk Territory





## **Project Background**



#### **Addition to Reserve Process**

• Environmental Studies over approx. 20 years.

#### **Four Contaminated Sites**

- A Former Gas Station
- An area with storage of refuse and debris
- Two areas formerly used for dumping and storage of debris





#### Dillon's Role on the Project

- Data Gaps Analysis
- Community Engagement
- Remedial Action Plan
- Remediation Design and Specifications
- Tendering
- Contract Administration
- Environmental Monitoring
- Site Closure Reporting





## Community Open House

#### **Community Engagement**

- Repurposing materials
- Fishing season
- Presence of medicinal plants
- Using local resources
- Training opportunities





#### Former Gas Station – Parcel 5

#### **Parcel 5 Soil Remediation**

- Dig and Dump
- Easy Access
- No GW impacts
- No dewatering issues





## Removal of the Source of Impacts – Parcel 1

#### **Parcel 1 Challenges**

- Heavily wooded area and wetland
- Steep embankment
- Removal by hand
- Two 8-yard bins full







## Salmon River Challenges – Parcel 12

#### Parcel 12 Challenges

- Flooding and ice
- High water levels
- Protecting the river
- Maintaining site access







## Wetland Area – Parcel 10

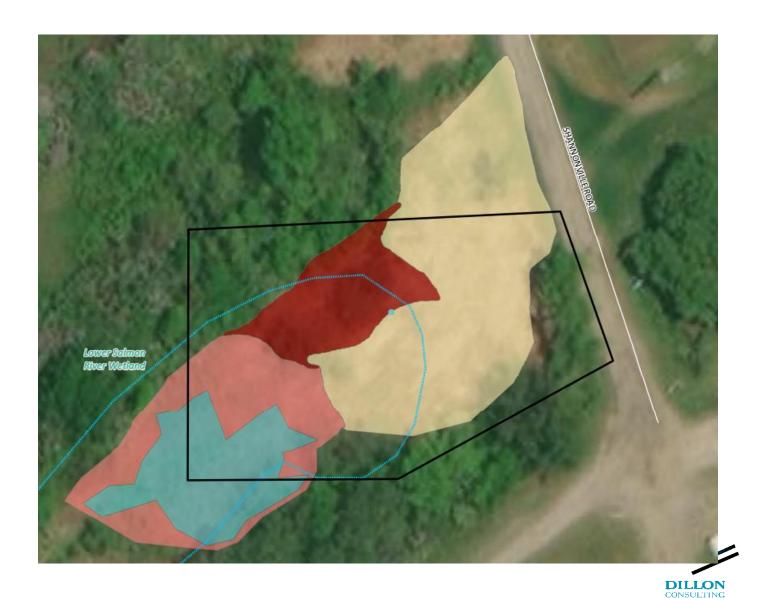




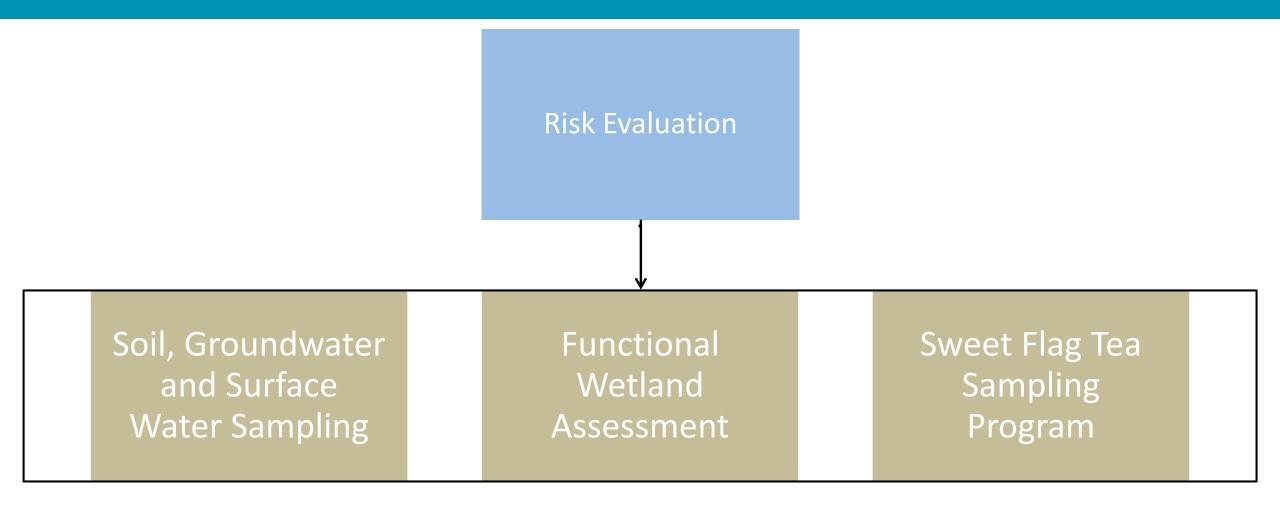
#### Functional Wetland Assessment – Parcel 10

#### Parcel 10 Challenges

- Several wetland units
- Larger area of impacts
- Potential for Species at Risk
- Presence of Medicinal Plants
- Standing water



#### Risk Evaluation – Parcel 10





## Functional Wetland Assessment – Parcel 10

#### **Major Findings**

- Several wildlife species
- Potential habitat for SAR
- Three wetland units
- Sweet Flag

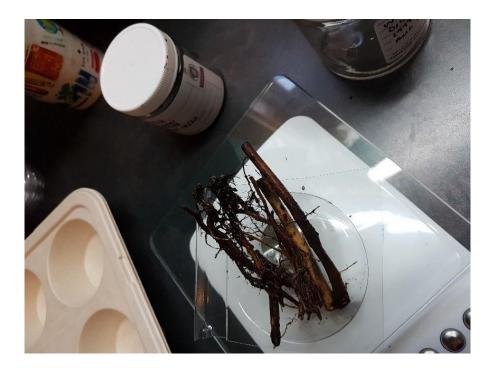






# Sweet Flag Tea Sampling – Parcel 10







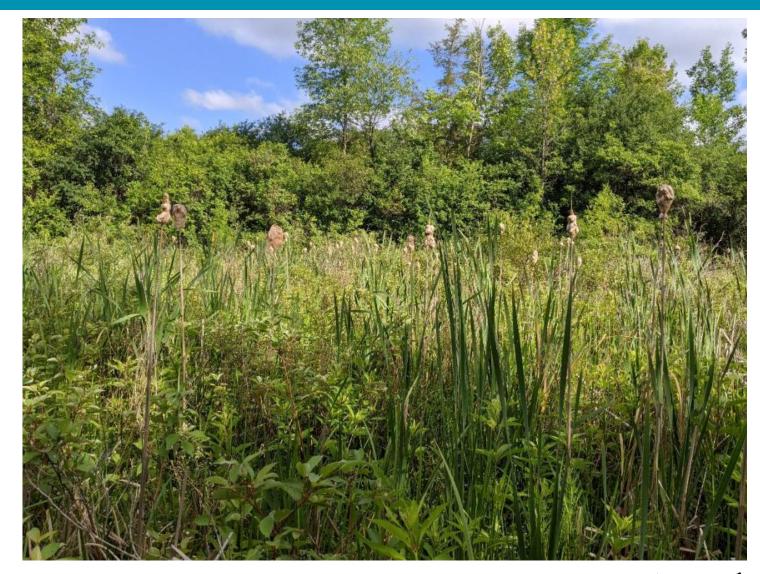




## Risk Evaluation Results – Parcel 10

## **Risk Evaluation Findings**

- No GW concerns
- Limited additional excavation required
- Wetland area to remain undisturbed





# Excavation and Dewatering – Parcel 10







#### Lessons Learned

Key Lessons Learned:

- Listen First
- Community Engagement
- Timely communication
- Understanding Traditional Land Uses
- Collaboration for innovative approaches
- Coordinate using local resources and staffing ahead of time





## **Questions?**

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