



Publics Services and  
Procurement Canada

# Timiskaming Dam-Bridge of Quebec Replacement Project (Quebec)

## Environmental Impact Statement PART A - Project Information Chapter 1 Proponent Chapter 2 Method of Implementation





# **PUBLIC SERVICES AND PROCUREMENT CANADA**

## Environmental Impact Statement Timiskaming Dam-Bridge of Quebec Replacement Project (Quebec)

Our Reference: 32760TT (60ET)

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## REVISIONS

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Revision n°	Description	Date	By
00	Preliminary Report - Version for comments	March 2022	JR
01	Final Draft – Version for comments	June 2022	JR
02	EIS – Version for the Impact Assessment Agency Review	September 2022	JR
03	EIS – Second Version for the Impact Assessment Agency Review	February 2023	JR

## PROJECT TEAM

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## GLOSSARY OF TECHNICAL TERMS

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Technical term	Definition
Cofferdam	A temporary enclosing dam built in the water and pumped dry to permit the construction. It can be made of steel sheet piling or riprap materials.
Stop logs	A log beam that fits into a groove or rack between walls or piers to control the flow of water through an opening in a dam.
Sluiceway	A sluiceway is traditionally a metal barrier sliding in grooves that are set in the sides of the waterway.
Upstream	In the direction in which a stream or river flows (above the dam).
Downstream	In the direction in which a stream or river flows (below the dam).
Right bank	The bank of a river, on the right as one faces downstream.
Left bank	The bank of a river, on the left as one faces downstream.
Riprap material	A layer of broken stone on the earth surface for protection against erosion by water; extensively used on irrigation channels and river improvement works.
Right of way	Legal right, established by grant from a landowner or long usage.
Spillway	A passage for surplus water from a dam.
Watershed	Land area that channels rainfall and snowmelt to creeks, streams, and rivers, and eventually to outflow points such as reservoirs, bays, and the ocean.

## ACRONYMS AND ABBREVIATIONS

Acronym/abbreviation	Complete term
AAC	AOPFN Advisory Committee
Agency (the)	Impact Assessment Agency of Canada
AIP	Agreement-in-Principle
AKLUS	Algonquin Knowledge and Land Use Study
AN	Antoine Nation
ANR	Algonquin Negotiation Representatives
ANSI	Areas of natural and scientific interest
AOO	Algonquins of Ontario
AOPFN	Algonquins of Pikwàkanagàn First Nation
AQI	Air quality index
ASA	Aquatic Study Area
AST	Aboveground Storage Tank
A-T	Abitibi-Témiscamingue
ATK	Algonquin Traditional Knowledge
ATKLUS	Algonquin Traditional Knowledge and Land Use Study
B.P.	Before present
BQMA	Banque de données sur la qualité du milieu aquatique (Databank on quality of the aquatic environment)
BTEX	Benzene, toluene, ethylbenzene, xylene
CARA	Community Aboriginal Recreation Activator
CCP	Comprehensive Community Plan
CDPNQ	Centre de données sur le patrimoine culturel du Québec
CEA	Cumulative Effects Assessment
CEAA 2012	Canadian Environmental Assessment Act, 2012
CEHQ	Centre d'Expertise Hydrique du Québec
CFB	Canadian Forces Base
CH <sub>4</sub>	Methan

Acronym/abbreviation	Complete term
CHR	Community Health Representative
CLO	Community Liaison Officer
cm	Centimeter
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
COPD	Chronic Obstructive Pulmonary Disease
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CPUE	Catch per unit effort index
CRD	Construction, renovation and demolition (waste)
CSSS	Centre de Santé et de Services Sociaux
CWB	Community Well-Being
CWI	Community Well-being Index
dB	Decibel
dBA	Decibel A
DFO	Department of Fisheries and Oceans Canada
DTM	Digital terrain model
EA	Environmental Assessment
ECCC	Environment and Climate Change Canada
EEE	Environmental Effects Evaluation
EIS	Environmental Impact Statement
EMO	Emergency Management Ontario
EOH	Eastern Ontario Health Unit
EPOQ	Study of Québec Bird Populations
ERP	Environmental Response Plan
ESA	Environmental site assessment
ESL	English as a second language
FA	Fisheries Act
FN	First Nation
FPIC	Free, prior, and informed consent

Acronym/abbreviation	Complete term
GHG	Greenhouse gas
ha	Hectare
%HA	Percent highly annoyed
HCCSS	Home and Community Care Support Services
HSSC	Health and Social Services Centre
IAA	Impact Assessment Act
IAAC	Impact Assessment Agency of Canada
IAS	Invasive alien species
IBA	Impact and Benefit Agreement
IPP	Indigenous Participation Plan
INAC	Indigenous and Northern Affairs Canada
ISC	Indigenous Services Canada
ILU	Indigenous Land Use
IMBA	Impact Management Benefit Agreement
IQBP6	Bacteriological and physicochemical water quality index based on six parameters
km	Kilometer
km <sup>2</sup>	Square kilometer
KFN	Kebaowek First Nation
LGL	Leeds, Grenville and Lanark District Health Unit
LHIN	Local Health Integration Network
LOI	Letter of Intent
LRdn	Day-night rating level
LrDN	Standardized daytime noise level
LSA	Local Study Area
LSB	Local Service Board
M	Million
m <sup>3</sup>	Cubic meter
mASL	Meter above sea level



Acronym/abbreviation	Complete term
MBCA	Migratory Birds Convention Act
MELCC	Ministère de l'Environnement et de la Lutte contre les changements climatiques
mm	millimeter
MMAH	Ministry of Municipal Affairs and Housing
MNO	Metis Nation of Ontario
MOU	Memorandum of Understanding
MPF	Maximum probable flood
MRNF	Ministère des ressources naturelles et de la Faune
MRC	Municipalité régionale de comté
MSP	Ministère de la Sécurité publique
MTQ	Ministère des Transports du Québec
MTO	Ministry of Transportation of Ontario
N	Negligible effect
N <sub>2</sub> O	Nitrogen dioxide
NADAP	Native Alcohol and Drug Addictions Program
NBMCA	North Bay Mattawa Conservation Authority
NBPSD	North Bay Perry Sound District
NEDB	National Earthquake Database
NFPA	National Fire Protection Association
NOS	National Occupancy Standard
NRC	National Research Council
NRCAN	Natural Resources Canada
NS	Non-significant effect
NTU	Nephelometric Turbidity Units
O <sub>3</sub>	Ozone
OCAP	Ownership, Control, Access and Possession
OMRNF	Ontario Ministry of Natural Resources and Forestry
ON	Ontario
OPG	Ontario Power Generation

Acronym/abbreviation	Complete term
OPP	Ontario Provincial Police
ORRPB	Ottawa River Regulation Planning Board
ORW	Ottawa River Watershed
OTT	Ottawa Public Health
PAH	Polycyclic aromatic hydrocarbons
PD	Professional Development
PERC	Provincial emergency response coordinator
PEWG	Planning and Environment Working Group
PM <sub>2.5</sub>	Particulate matter
PMP	Probable Maximum Precipitation
ppb	Part per billion
Project or TDBQRP or TDQP	Timiskaming Dam-Bridge of Quebec Replacement Project
PSC	Primary Study Communities
PSPC	Public Services and Procurement Canada
QC	Quebec
R5CC	Regional 5 Consultation Committee
RCM	Regional County Municipality
REN	Renfrew County and District Health Unit
RMRCECA	Regulation respecting mandatory reporting of certain emissions of contaminants into the atmosphere
RSA	Regional study area
SÉPAQ	Société des établissements de plein air du Québec
S	Significant effect
SAR	Statement of Asserted Rights
SARA	Species at Risk Act
SART	Statement of Asserted Rights and Title team
SEMP	Socio-Economic Management Plan
SO <sub>2</sub>	Sulfur dioxide
SOS-POP	Monitoring of at-risk birds

Acronym/abbreviation	Complete term
SQ	Sûreté du Québec
SS	Suspended solids
SSR	Sink or reservoir
SVS	Shared Value Solutions
t	Ton
t CO <sub>2</sub> eq	Ton of CO <sub>2</sub> equivalent
TFN	Timiskaming First Nation
TKLUS	Traditional Knowledge and Land Use Study
TOC	Total organic carbon
TQDP	Temiskaming Quebec Dam Project
TSA	Terrestrial Study Area
UNDRIP	United Nations Declaration on the Rights of Indigenous People
VC	Valued component
VOC	Volatil organic compound
WLFN	Wolf Lake First Nation
WTP	Water Treatment Plant

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## **PART A PROJECT INFORMATION**

### **1 PROPONENT**

The federal owner of the facilities of the Timiskaming Dam-Bridge of Quebec is Public Services and Procurement Canada (PSPC).

PSPC plays an important role in the daily operations of the Government of Canada as a key provider of services for federal departments and agencies. It supports them in the achievement of their mandated objectives as their central purchasing agent, linguistic authority, real property manager, treasurer, accountant, integrity adviser, and pay and pension administrator.

The department's vision is to excel in government operations, and the strategic outcome and mission is to deliver high-quality, central programs and services that ensure sound stewardship on behalf of Canadians and meet the program needs of federal institutions.

The department includes 15 branches that are responsible for providing and managing services to the Government of Canada, Canadians, and internally to the department.

PSPC is responsible for managing and maintaining 22 engineering assets located across Canada. These assets include key interprovincial bridges and dams, the Alaska Highway, and the Esquimalt Graving Dock, that serve hundreds of thousands of Canadians and support economic activity in their respective communities. They also include the National Capital Area district energy system, which will continue to be modernized as part of efforts to green government operations. Many of these assets are aging and are in need of repair or replacement to address health and safety risks. PSPC will refocus its efforts on the long-term stewardship of engineered assets in its portfolio. A long-term objective is to ensure that all engineered assets are maintained in fair to good condition to provide safe and continued use by Canadians and efficient operations.

Specifically, PSPC Real Property Services manages one of the largest and most diverse real estate portfolios in the country and plays a vital role in helping the Government of Canada achieve results for Canadians.

The Timiskaming Dam Complex is part of the Real Property Services portfolio and is managed and operated by the Infrastructure Asset Management branch. The Project Management Service Line assists the Infrastructure Asset Management branch with the delivery of projects from the initiation phase to the close-out phase. The Technical Services branch provides assistance with the environmental process.

PSPC carries out all projects in accordance with the PSPC Project Navigator. The Project Navigator is the PSPC's project management framework that includes a control plan with formalized approval requirements at each control point to ensure compliance with departmental policies and requirements. The control process represents decision points to continue or stop the project. The Project Navigator is aligned with the new Treasury Board of Canada Secretariat Directive on the Management of Projects and Programmes and industry-accepted best practices as curated by the Project Management Institute.

As PSPC is a federal government entity, it is subject to all federal policies with respect to sound management and environmental protection. As such, in keeping with the objectives of the *Federal Sustainable Development Act* to integrate environmental, social and economic considerations into decision-making, and to make such decisions more transparent and accountable to Parliament, PSPC supports reaching the goals laid out in the Federal Sustainable Development Strategy<sup>1</sup>. In response to this strategy,

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<sup>1</sup> [The Federal Sustainable Development Strategy \(fdds-sfdd.ca\)](https://www.sdds-sfdd.ca)

PSPC developed the Departmental Sustainable Development Strategy<sup>2</sup> which provides information on commitments and performance expectation. PSPC is accountable to implementing its departmental strategy and as such the departmental performance with respect to actions that contributed to achieving the Federal Sustainable Development Strategy goals is reported through the departmental results report every year.

Over the last few years, as part of transformation efforts, the department strived to identify opportunities to better deliver its work and initiated the delivery of foundational initiatives to support corporate priorities which included greening the way we work. PSPC is supporting the overall Government of Canada's greening efforts by embedding environmental considerations into its day-to-day operations, and given its vast operations, PSPC is positioned to support goals under the Federal Sustainable Development Strategy such as the Greening Government. Over the last decade, PSPC contributed to meeting targets under the Greening Government goal and supported the Government of Canada by implementing a wide range of measures to reduce energy consumption, improve energy efficiency and reduce greenhouse gas (GHG) emissions from assets and fleet. As the first department to complete a national plan to achieve a carbon neutral portfolio, PSPC is leading and creating a culture change in the real property community. PSPC is committed to the targets and contributing actions under the Greening Government goal as followed:

- Reduce greenhouse gas emissions from federal government facilities and fleets;
- Divert non-hazardous operational waste from landfills;
- Divert plastic waste from landfills;
- Divert construction and demolition waste from landfills;
- Carbon neutral domestic office lease transactions;
- Measures to reduce climate change risks to assets, services and operations;
- 100% clean electricity;
- Other contributing actions.

PSPC is dedicated to integrating sustainable development considerations into the decision-making, risk management, planning and delivery of its programs and initiatives. These considerations are being integrated through horizontality and collaboration underpinned by a central governance. Through a reinforced departmental planning and reporting process stemming from recent transformation efforts, PSPC's Departmental Sustainable Development Strategy sets the stage to fulfill the minister's mandate commitments and key initiatives in support of sustainable development with a focus on greening its operations.

In addition, to integrate sustainable development into its internal policy and operational processes, PSPC has published a revised version of its Directive on Strategic Environmental Assessment based on the Cabinet Directive on the Environmental Assessment of Policy, Plan and Program Proposals<sup>3</sup> and has reinforced its strategic environmental assessment process. PSPC must undertake strategic assessments of environmental impacts, including on relevant Federal Sustainable Development Strategy goals and targets, at the outset of the development of all policy, plan and program proposals being submitted to the minister or Cabinet for approval, or when circumstances warrant, to determine if important environmental effects, positive or negative, are likely to arise from their implementation. A preliminary scan must be completed first to determine environmental effects and if any are identified, a Strategic Environmental Assessment must be completed. This assessment must identify and recommend appropriate mitigation measures (for potential negative effects) and/or enhancement measures (for potential important positive effects), to respond to the environmental effects likely to result from the implementation of the policy, plan or program proposal.

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<sup>2</sup> [Departmental Sustainable Development Strategy: 2020 to 2023 – Publications and Reports – Public Services and Procurement Canada – Departments and agencies – Canada.ca \(tpsgc-pwgsc.gc.ca\)](#)

<sup>3</sup> [The Cabinet Directive on the Environmental Assessment of Policy, Plan and Program Proposals - Canada.ca](#)

Specifically, the Real Property Technical Services branch which provides assistance to the Project with the environmental process, also brings together all the operational delivery teams and experts who develop policies, ensure compliance, and provide functional direction and strategic advice on technical matters such as:

- Environment and custodial health and safety:
  - Environmental compliance related to the *Canadian Environmental Protection Act* and the *Impact Assessment Act*.
  - Custodial health and safety compliance related to the Canada Labour Code including asbestos, indoor environmental quality, Legionella, potable water, and radon
- Greening government:
  - Climate action, greenhouse gases and energy, sustainable development, and contaminated sites

Table 1.1 sets out contact information for the proponent, its project resources and the subcontractor involved in the environmental impact assessment.

**Table 1.1 Project Information**

Project title	Timiskaming Dam-Bridge of Quebec Replacement
<b>Project location</b>	<p>The Timiskaming Dam-Bridge of Quebec is located on the Ottawa River, between the Quebec shoreline and Long Sault Island. It is situated near the town of Témiscaming, in the Abitibi-Témiscamingue region of Quebec. The island is located entirely in the province of Ontario.</p> <p>The Timiskaming Dam-Bridge of Quebec is one of two separate structures that form the Timiskaming Dam Complex; the second structure is the Timiskaming Ontario Dam.</p>
<b>Proponent</b>	<b>Public Services and Procurement Canada (PSPC)</b>
<b>Proponent representative and contact information (PSPC)</b>	<p><b>Judith Brousseau</b>, Project Manager                      165 Hôtel-de-Ville Street                      Place du Portage, Phase II                      Gatineau, Quebec K1A 0S5                      Tel: 613-407-9183  <a href="mailto:judith.brousseau@tpsgc-pwgsc.gc.ca">judith.brousseau@tpsgc-pwgsc.gc.ca</a></p> <p><b>John Ikonomopoulos</b>, Project Leader                      11 Laurier Street                      Place du Portage, Phase III                      Gatineau, Quebec, K1A 0S5                      Tel: 613-762-1073  <a href="mailto:john.ikonomopoulos@tpsgc-pwgsc.gc.ca">john.ikonomopoulos@tpsgc-pwgsc.gc.ca</a></p>
<b>Environmental assessment officer for the proponent (PSPC)</b>	<p><b>Tina Hearty-Drummond</b>, Environmental Analyst                      140 O'Connor Street                      Building L'Esplanade Laurier, East Tower                      Ottawa, Ontario, K1A 0S5                      Tel: 613-736-3070  <a href="mailto:Tina.hearty-drummond@tpsgc-pwgsc.gc.ca">Tina.hearty-drummond@tpsgc-pwgsc.gc.ca</a></p>
<b>Environmental assessment lead (consultant for PSPC)</b>	<p><b>Tetra Tech QI inc.</b>  <b>Jacqueline Roy</b>, M.Sc., Biologist, PMP, Project Manager                      1377 Galilée Avenue, Quebec City, Quebec, G1P 4G4                      Tel: 418-425-2985  <a href="mailto:jacqueline.roy@tetrattech.com">jacqueline.roy@tetrattech.com</a></p> <p><u>Indigenous Community Component</u>  <b>Odonaterra Inc.</b>  <b>Caroline M. Coburn</b>, MA, RPP, MCIP                      686 McIntyre Street West                      North Bay, Ontario, P1B 2Z7                      Tel.: 613-894-5296  <a href="mailto:caroline@odonaterra.com">caroline@odonaterra.com</a></p>
<b>PSPC project number</b>	R.073116



## 2 METHOD OF IMPLEMENTATION

As the project proponent, PSPC has chosen to carry out the Timiskaming Dam-Bridge of Quebec replacement project conventionally, by calling upon an engineering firm to assist with the preliminary assessments, project development and monitoring. A contractor will then be selected to perform the work under the supervision of the engineering firm. A component will be included in the tender documents for the contractor's construction contract to foster participation by Indigenous groups in the construction activities. This could take the form of specific measures for hiring Indigenous labour on the work site, training or issuing contracts to Indigenous businesses.

PSPC has selected the Tetra Tech engineering firm to assist with the Project. The contractor in charge of the construction has not yet been selected. As part of the operation of the Timiskaming Dam Complex, PSPC replaced the Ontario dam, also using a conventional method, in 2014. The construction on the Ontario side was completed in 2017.

Once the work has been completed, the PSPC teams in charge of operating the facilities will be responsible for operating the dam throughout its life.