

XIII INTERNATIONAL WINTER ROAD CONGRESS

QUÉBEC, FEBRUARY 8 TO 11, 2010





SUSTAINABLE WINTER SERVICE FOR ROAD USERS

Sustainable Winter Service in a P3 Contract in New Brunswick

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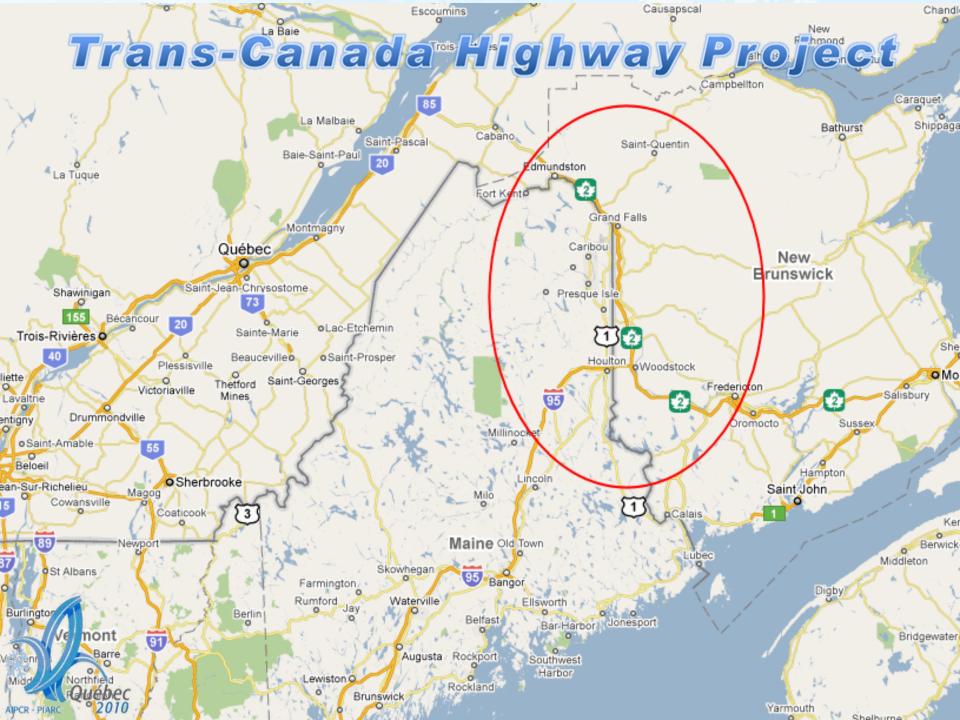


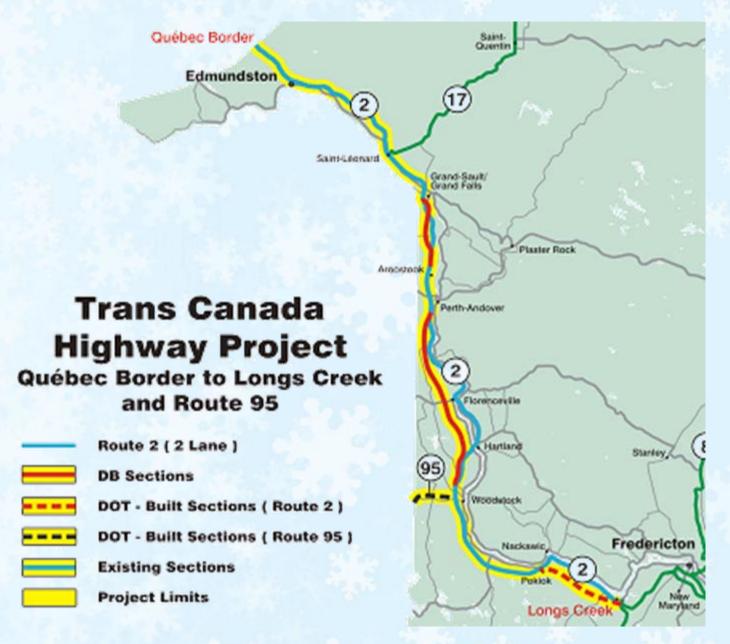
Sustainable Winter Service in a P3 Contract in New Brunswick

Agenda

- Overview of the TransCanada Highway Project
- TCH Project Agreements
- Winter Maintenance Standards
- Commitment from the Operator
- Compliance Monitoring









Overview of the Trans-Canada Highway Project

- 275 km of 4-Lane Highway
- 100 km designed and built by the Developer
- 45 km completed by the Province
- 130 km of existing 4-lane highway



Winter Facts:

- Winter season: Mid November to Mid April
- Snow fall: Average 300 cm per yr / 430 cm in 2007
 - Snow events: Approx. 50 storms per year > 5 cm

TCH Project Agreements

- Main contract between the Province of New Brunswick and Brun-Way
- Project Agreement Consist of:
 - TCHP Agreement
 - Design Build Agreement
 - Operation Maintenance and Rehabilitation Agreement
 - Section 0 Maintenance Agreement
 - Others:
 - Direct Agreement
 - Purchase Agreement



TCH Project Agreements - OMR Standards

- Performance Based Specifications
 - End Result
 - Service Oriented
- OMR Standards
 - Auditable (Clearly Defined & Measurable)
 - Inspection Schedule
 - Condition Requirement
 - Defined Response Time





OMR Standards - Winter Standards

Winter Standards have been developed in the following areas:

- Winter Control
- Snow Plowing
- Sand & Salt Spreading
- Snow Removal
- Snow Fences & Hedges
- Supply, Mixing and Stockpiling
 of Winter Sand & Salt





Winter Standards – Snow Plowing

Plowing	SPECIFICATION	Plowing shall commence prior to snow accumulation reaching twenty (20) mm on any travelled lanes including interchange ramps. The maximum allowable accumulation of snow on the travelled lanes is forty (40) mm.
	ОРМ	MTC – Plowing commenced prior to snow accumulations of greater than twenty (20) mm.
		MRT - Ongoing
		MTC – No snow accumulations greater than forty (40) mm.
		MRT - Ongoing



OPM: Operator Performance Measure

MTC: Minimum Tolerable Condition

MRT: Maximum Response Time

Commitment from the Operator

- OMR Plans
- Quality Management
 - ISO Certification
 - Management Responsibility
 - QMS Documentation
 - Managing of Subcontractors
 - Operator Compliance Monitoring
 - Internal Auditing
 - Continual Improvement
 - QMS Reporting





Compliance Monitoring

- Compliance Monitoring by the Province
 - Scheduled Site Audits
 - Scheduled Management System Audits
 - Site Visits
 - Follow-up Audits
- Non-Conformance Management
 - Non-Conformance Notices
 - NCN Register
 - Payment Adjustments



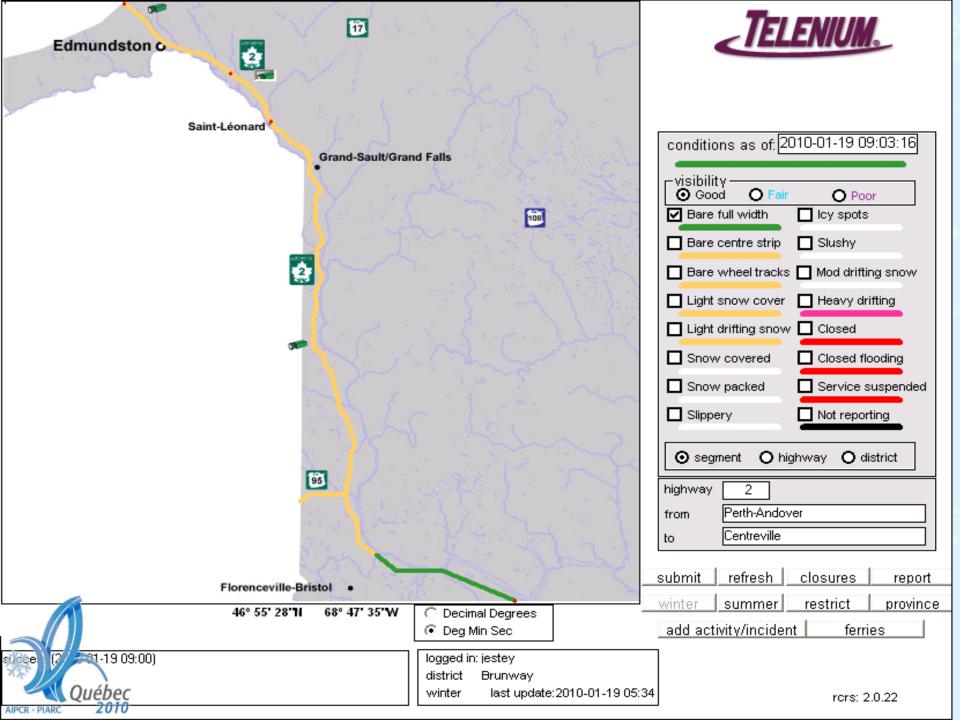


Brun-way's Commitment To TCHP

- Maintain a safe, passable facility for highway users
- Meet or exceed the required Level of Service
- Ensure IMS adheres to Level of Service requirements
- Minimize accident & liability risk
- Assist first responders in emergencies
- Be responsive to changing weather conditions
 - Provide public access to winter road conditions

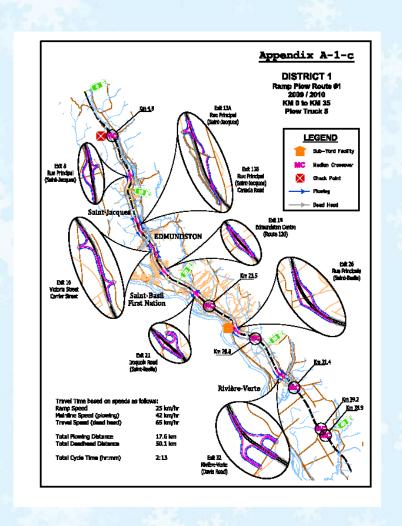






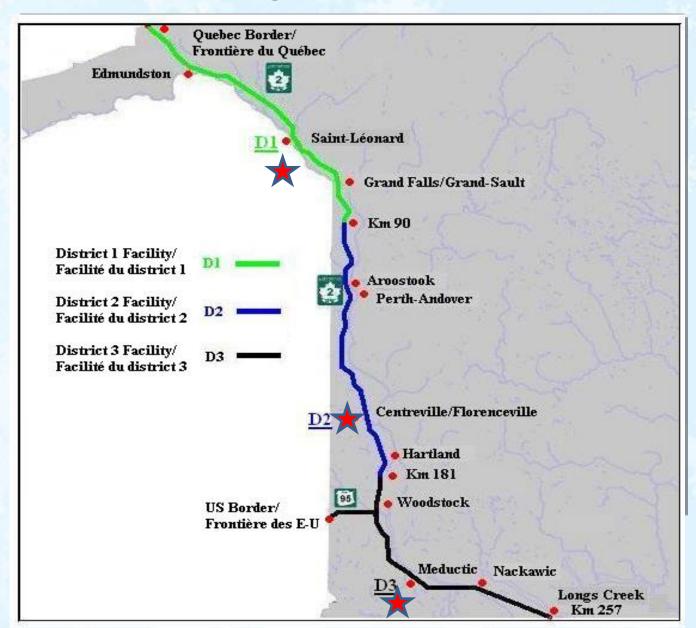
Strategic Planning







Organization





INNOVATIVE COST MANAGEMENT





Risk & Contingency Planning





Quality & Performance Management





