



UNCLASSIFIED - NON CLASSIFIÉ

Environmental Effects Screening
For Projects Carried Out on Federal Lands or Outside of Canada
[\(s.82-83 of the Impact Assessment Act\)](#)

General Information

Title of Proposed Project: Canadian Hazards Information Service (CHIS) Satellite Hub Borden

Description of the Current Environment at and Around Project Site

- The project will be built at Canadian Forces Base (CFB) Borden in Southern Ontario.
- Previously developed; site of former Department of National Defence (DND) building.
- Now an open field. Some demolition material is reported as underlying the site.
- Bordered by parking lots/roads (West, South, East), and Shared Services Canada (SSC) data centre (North)
- Several occupied DND and other buildings in the immediate vicinity.
- There is considerable human activity in the immediate area: cars driving on the roads, parking in the parking lots. Base and related personnel present and active.
- Further to the west is a small woodland and the Pine River (350m)

Project Background & Purpose

Natural Resources Canada through the Canadian Hazard Information Service operates geophysical monitoring networks across Canada for public safety and security purposes. Hundreds of seismic and other sensors across Canada send near-real-time data 24/7 to government data centres for evaluation and hazard determination, including earthquake monitoring and earthquake early warning. Data is sent using a variety of communication modalities including satellite. The satellite communications systems require a down-link station to receive the data. The proposed satellite hub will serve this purpose.

General Description of Project

The satellite hub will consist of four satellite dishes (2.4m) on concrete bases and an electronics enclosure surrounded by a chain-link fence. The dishes will point to different satellites in a generally southern direction. The dishes are equipped with electrical heaters to prevent snow build-up in the winter. The dishes will be connected by cables buried in conduit to an electronics enclosure (20-foot sea-can) where the satellite data are received and converted for transmission on computer networks. The system will be supplied with 120/240V power from the CFB Borden supply and send data via optical fibre via an extension through the already existing underground conduit system. Construction will include: creation of concrete pads for the satellite dishes and electronics enclosure, shallow trenching to neighbouring infrastructure for power and communications connections, and installation of a chain-link fence. During normal operation the satellite hub releases no noxious effluent. Air conditioning units in the sea-can may produce a small amount of noise while running. Normally there are no personnel on site, though service visits may occur – estimated once/year. Neighbouring land and roads are maintained by DND, no significant change is expected as a result of this project.



UNCLASSIFIED - NON CLASSIFIÉ

Potential Impact Checklist

Does the Project have the potential to result in:	Yes	No	Briefly describe how the activity may affect the environment (use bullet points)
Alteration or removal of natural vegetation or wildlife habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Impacts to species covered under the <i>Species At Risk Act</i> or their critical habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Changes to migratory birds and/or their nesting habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Changes to a water body, including, but not limited to changes in flow, water level, quality, deposition of silt, soil or other substances into the water, or changes to other characteristic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Release a polluting substance into the land, water or air?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Involve digging, trenching, or drilling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shallow digging is required for construction of concrete support pads for satellite dishes and electronics enclosure Shallow trenching required for connection to local power sources and connection to existing conduit network.
Impacts to socio-economic and health conditions of people?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Impacts to Indigenous rights?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Impacts to physical and cultural heritage and/or archaeological sites?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Impacts to recreation and land use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Impacts to air quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Increased noise exposure?	<input type="checkbox"/>	<input type="checkbox"/>	Trivial amount of noise from air conditioning units during summer operation
Contamination or destruction of country foods?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Table 1. Project Activities and Potential Impacts

Project Activity	Potential Impact	Proposed Mitigation Measure	Describe Residual Effect(s)	Proposed Monitoring/Follow-Up Measures
Digging for and pouring concrete pads	None anticipated: location is already site of earlier construction activity	Industry standard construction practices	None expected	Post-construction inspection

UNCLASSIFIED - NON CLASSIFIÉ

Trenching and cable installation	None anticipated: location is already site of earlier construction activity	Industry standard construction practices	None expected	Post-construction inspection
Fence installation	None anticipated: location is already site of earlier construction activity	Industry standard construction practices	None expected	Post-construction inspection
Operation	None anticipated			
Decommissioning	None anticipated: location is already site of earlier activity	Industry standard construction practices	None expected	Post-removal inspection: DND is expected to perform an inspection upon departure.

Accidents and Malfunctions

Table 2. Accidents and Malfunctions

Accident or Malfunction	Description of Adverse Effect	Measures to Prevent or Remediate Accidents or Malfunctions
Spills of mechanical fluids and/or fuel from heavy equipment	Contamination of soil and/or groundwater	Have a designated fueling area on-site Ensure equipment is in working condition prior to use Ensure that appropriate emergency spill equipment is readily available Ensure that staff are trained to use equipment Develop a cleanup plan

Departmental & Regulatory Coordination

Question	Yes	No	Explanation
Is another federal department or agency conducting its own Section 82/83 impact assessment on this project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Department of National Defence is also a Federal Authority for this project.
Will the Project require an approval or issuance of an authorization or permit by a federal regulatory body (e.g., <i>Explosives Act</i> , <i>Fisheries Act</i> , <i>Species at Risk Act</i> , etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Will the Project require approval, authorization, or licensing (or has already received approval) by a Provincial or Territorial regulatory body?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Has the proponent conducted any preliminary studies such as wildlife and wildlife habitat assessments, assessments for presence of species at risk, characterization of relevant geology, etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Indigenous Rights and Knowledge & Community Knowledge

Question	Yes	No	Explanation
----------	-----	----	-------------



UNCLASSIFIED - NON CLASSIFIÉ

Were impacts to Indigenous Rights assessed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>The land for this project is owned by DND and there are no Indigenous reserves in the area</i>
Was Indigenous knowledge incorporated into the assessment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Site is previously developed. No impact expected. The public registry posting will provide the opportunity for comments.</i>
Does the Project have the potential to generate any public concern?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Site is on CFB Borden and is unlikely to generate public concern.</i>
Was community knowledge incorporated into the assessment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Site is previously developed. No impact expected. The public registry posting will provide the opportunity for comments.</i>

Strategic Assessment of Climate Change

Question	Yes	No	Explanation
Will your project result in an increase in greenhouse gas emissions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Contribution of GHGs from heavy equipment use will be negligible.</i>

Assessment Determination

<input type="checkbox"/>	Significant environmental effects are unlikely with the implementation of <u>routine or site-specific mitigation measures</u> .
<input type="checkbox"/>	Significant environmental effects are likely.

Impact Assessment Approval:

Name:	
Title:	
Date:	
Decision:	
Rationale:	
Conditions:	