Submission Transmittal Cover

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Date:	July 21, 2023	**Pages: (incl. cover)**	10
Project Title:	**Coral Harbour Remediation Project**		
Client Project No.:	**R.112158.017**		
Submittal Title:	Access Road Management Plan		
Submittal No.:	018	**Specification:**	01 14 00

Issued For:

- ☐ Information
- ☒ As Requested
- ☐ Review
- ☐ Tender
- ☐ Construction
- ☐ Other

Delivered By:

- ☐ Courier
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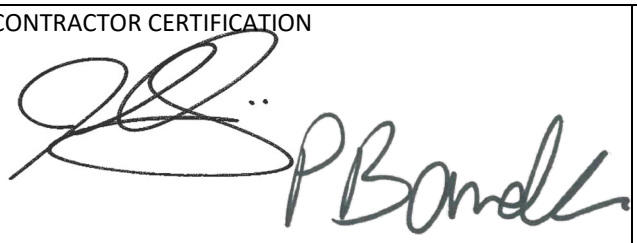
CONTRACTOR CERTIFICATION	CONTRACTOR COMMENTS
	Submitted for Final.
ENGINEER CERTIFICATION	ENGINEER COMMENTS

Access Road Management Plan

Prepared For:

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Public Works and Government Services Canada

9700 Jasper Avenue, Suite 1000

Edmonton, Alberta T5J 4C3

Project: **EW699-222278/001 – Coral Harbour Remediation Project**

Coral Harbour, Nunavut

Document History:

The Document Author is authorized to make the following types of changes to the document without requiring that the document be re-approved:

- Editorial, formatting, and spelling
- Clarification

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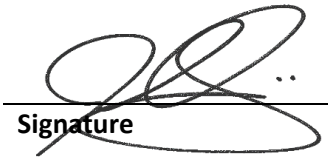
Changes to this document are summarized in the following table in reverse chronological order (latest version first).

Revision	Date	Created by	Short Description of Changes

Signature Sheet

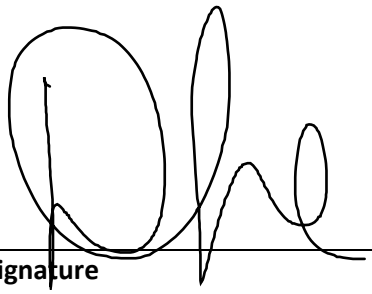
Prepared By:

Jonathan Markiewicz, Senior Project Manager	**July 20, 2023**	
Name and Title	**Date**	**Signature**
(please print)		

Reviewed By:

Paul Bandler, Project Manager	**July 21, 2023**	
Name and Title	**Date**	**Signature**
(please print)		

Approved By:

Dino Bruce, SDL Director	**July 21, 2023**	
Name and Title	**Date**	**Signature**
(please print)		

Client Acceptance:

Claudia Simonato	August 14 2023	Simonato, Claudia Digitally signed by: Simonato, Claudia DN: CN = Simonato, Claudia C = CA O = GC OU = PWGSC-TPSGC Date: 2023.08.14 15:47:44 -06'00'
Name and Title	**Date**	**Signature**
(please print)		

All aspects of the work will be conducted in accordance with:

- ✓ **Local / Provincial / Federal Legislation, Permits and Regulations, as applicable**
- ✓ **Site Specific Health and Safety Plan (HASP)**

NOTE: All site personnel must read and acknowledge review of the HASP, prior to start of any work. Refer to Sign-off Sheet – MEHS # 24 – 1.

Table of Contents

1 BACKGROUND INFORMATION

1.1 Customer

Public Works and Government Services Canada (PWGSC).

1.2 Project Name

Coral Harbour Site – Remediation Project

1.3 Project Numbers

03230272

PWGSC – R.112158.017

1.4 Project Location

Coral Harbour Site

Coral Harbour, NU

The project Site is located approximately 10 kilometers (km) northwest of the Hamlet of Coral Harbour, Nunavut, on Southampton Island.

1.5 Overall Project Description

The former military base in Coral Harbour was used by Canadian and American forces during the construction of the Distant Early Warning (DEW) Line in Northern Canada during the Second World War and for various other northern projects. The Site was active from the 1940s until the 1970s and the on-site infrastructure included an airstrip, hospital, and housing for military personnel. When the Site was decommissioned in the 1970s, most buildings were decommissioned, and remaining equipment was abandoned.

Several areas of environmental concern (AECs) including physical hazards related to unconsolidated surface debris and aged structures, and environmental impacts associated with soil contamination, remain on-site. These AECs and physical hazards are proposed for a future site remediation. In preparation for this proposed remediation, local (Site) borrow sources have been identified at the Site. This scope of work is related to the production of all granular (borrow) material from local borrow sources for the following proposed future remediation activities:

- Construction of a non-hazardous waste (NhW) facility;
- Backfill material for subsurface excavations related to Site infrastructure;
- Backfill material for contaminated soil excavations; and
- General Site maintenance (e.g., roadway improvements).

1.6 Contractor's Scope of Work

Several areas of environmental concern (AECs) including physical hazards related to unconsolidated surface debris and aged structures, and environmental impacts associated with soil contamination, remain on-site. The current proposed scope of work covers the remediation of five of these AECs and associated physical hazards.

The primary components of the Works to be carried out by *The Project Team* : Sudliq Development Limited (SDL) and Milestone Environmental Contracting Inc. (Milestone), are highlighted in this section and primarily consisting of Remediating the site and Consolidating debris:

- Debris collection and segregation
- Remediation of buried debris
- Demolition of Structures and Fuel Storage Tanks
- Hazardous material/debris management and disposal
- Non-Haz Landfill Construction, operation, and closure
- Contaminated soil excavation and disposal/treatment

2 PERTINENT SCOPE OF WORK SECTIONS

Milestone prepared the following document in accordance with the requirements specified within the contract documents (RFP, Statement of Work (SOW), Drawings, etc.). With respect to the implementation of work and the definition of the scope of work, the following Specifications provide the direction and basis for this Access Road Management Plan:

- 01 11 00 – Summary of Work
- 01 14 00 – Work Restrictions
- 31 05 16 – Aggregate Materials
- 31 22 13 - Grading

3 EXECUTION

Throughout the project lifecycle, The Project Team will be required to construct new access roads (AEC-1 Access Road), new access road facility connections (NHW Landfill, Camp, AEC 4) and upgrade or maintain existing access roads. An access road herein refers to any previously constructed roadway typically used and/or maintained by the Hamlet as well as any newly constructed roads or spurs constructed to temporarily provide access to the site features. The access road north-east of the Airport will also be used and it should be noted that it is only seasonally maintained to provide facility access to the weather station.

3.1 Preliminary Inspection

All existing access roads were inspected on or around July 7, 2023 during the Pre-Mobilization Site Visit. Unless described in the subsequent section on proposed new access road construction, SDL accepts the existing conditions of the indicated access roads (red line ———) as safe and usable. This includes the roads to and around the Barge Landing area. It should be noted that the new temporary access road is also indicated on the figure below (orange line ———)

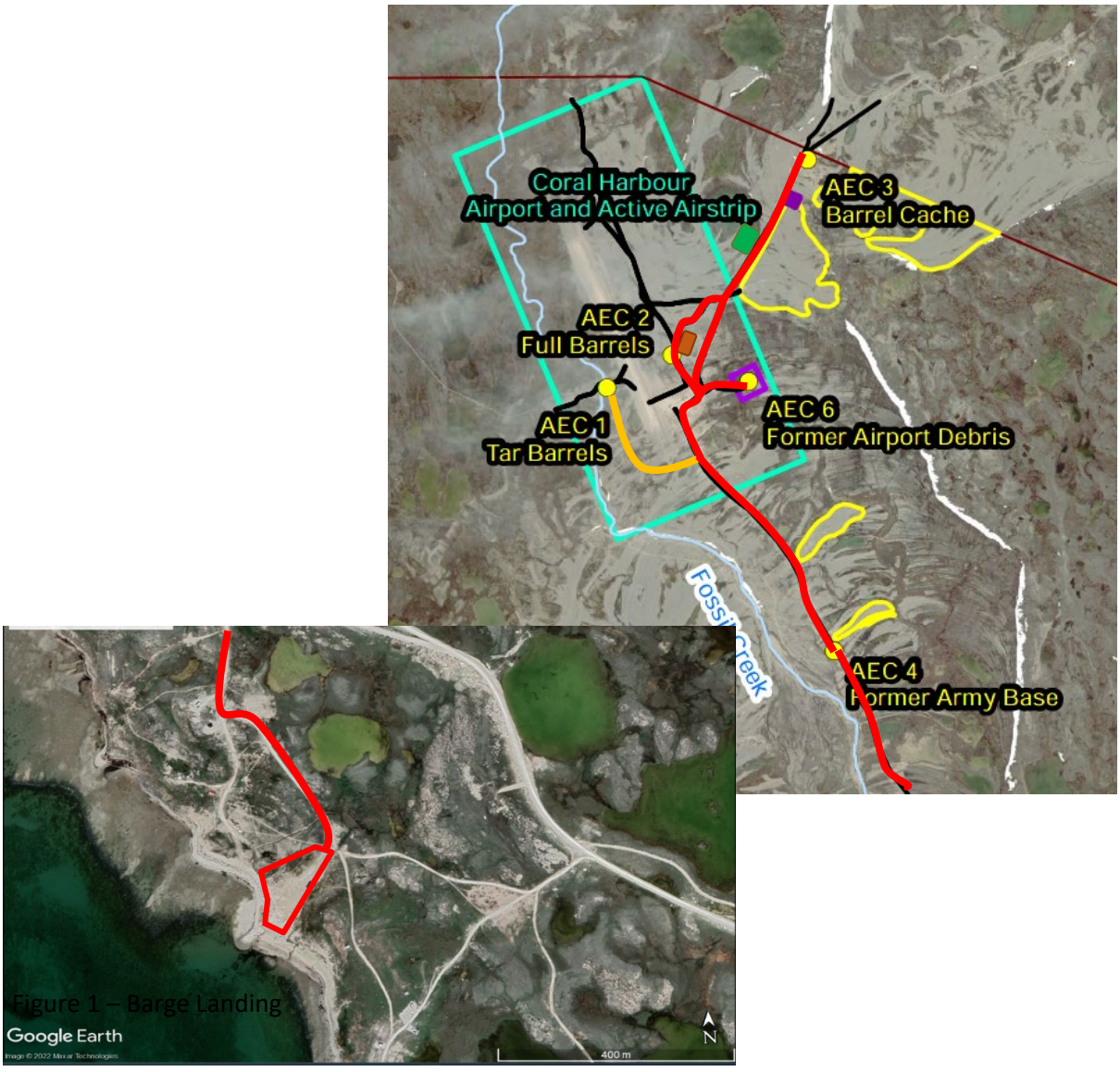


Figure 1 – Barge Landing

3.2 Proposed AEC-1 Access Road Alignment

Most AECs will not require modified Access Ways to provide ingress/egress to and from the main public roads. At a minimum an AEC 1 Access Road will be required to by-pass the airstrip and access the air strip.

The AEC 1 Access Road will be generally single lane roads constructed to a width of no less than 2x the width of the largest piece of equipment travelling on it, per Specification 31 22 13 – 3.9.15.1. The AEC 1 Access Road will primarily be constructed in a cut/fill fashion and around any existing improvement. The AEC 1 Access Road will be constructed with a central crown or single side slopes to allow surface water to be diverted to appropriate sides as required to maintain the surface water regime. Type 4 general fill will be utilized if necessary to provide a stable base and positive drainage. All aggregates utilized during construction will be surveyed as placed and compacted. Once constructed the AEC 1 Access Road will be surveyed and the alignment and elevations saved in the project records.

3.3 Load Restrictions and Site Access Issues

No load restrictions or site access issues were noted

3.4 Existing Access Road Improvements

Based on the pre-mobilization site visit extensive improvements are not required, rather small upgrades will be required to provide safe access to facilities or sites off of existing access roads. Temporary access ways to the access road north-east of the Airport (Camp and AEC-3) as well as off of Coral Harbour Airport Rd. (AEC-4) will be required for material and equipment imports during the borrow development efforts. Temporary access ways will be installed in such a manner to not block surface water drainage and will be fully removed after their use is no longer required.

Non-Hazardous Waste Landfill Access
Two single lane access ramps will be constructed west of the NHW Landfill to provide direct access to the seasonal access road north-east of the Airport. The access ramps will be constructed with a nominal grade no steeper than 3h:1v. The access ramps will require the installation of a 300-mm diameter culvert at its base to permit surface water flow. The overall length of each ramp's culvert is expected to be 6-m. The access ramps will be constructed using Type 4 aggregates. All aggregates utilized during construction will be surveyed as placed and compacted. Once constructed the NHW Landfill access ramps will be surveyed and the alignment and elevations saved in the project records.

Camp Facility Access
Two single lane access ramps will be constructed north of the Camp Facility to provide direct access to an existing access road spur that connects the reservoir to seasonally accessible access road north-east of the Airport. The access ramps will be constructed with a nominal grade no steeper than 3h:1v. The access ramps will each require the installation of a 300-mm diameter culvert at its base to permit surface water flow. The overall length of each ramp's culvert is expected to be 6-m. The access ramps will be constructed using Type 4 aggregates. All aggregates utilized during construction will be surveyed as placed and compacted. Once constructed the Camp Facility access ramps will be surveyed and the alignment and elevations saved in the project records.

AEC 4 Vault Access
A single lane access ramp will be constructed west of the AEC 4 Vault to provide direct access to the Coral Harbour Airport Road. The access ramp will be constructed with a nominal grade no steeper than 3h:1v. Based on site observations no culverts will be required in this location. The access ramp will be constructed using Type 4

aggregates. All aggregates utilized during construction will be surveyed as placed and compacted. Once constructed the AEC 4 Vault access ramp will be surveyed and the alignment and elevations saved in the project records.

3.5 Maintenance and Repairs

Throughout the works, the *Project Team* will routinely inspect the public roads and temporary access roads that are being used to haul equipment and materials. As required, the *Project Team* will place and pack borrow materials of suitable size to maintain the roads. The community routinely uses a Grader to maintain the roads, the *Project Team* will coordinate efforts with the hamlet to ensure that the increased use of the roads does not negatively affect their regular maintenance.

3.6 Site Restoration and Removal

At the end of the project, or the AEC 1 Access Road or access ways are deemed no longer required, the *Project Team* will decommission all of the improvements. All natural surface water paths will be restored to original grades and any culverts or swales removed. The Access Road/Ramp surface will be restored to match the existing grade, within 30-cm by using a similar cut/fill method utilized during their construction. The intent of the decommissioning is to return these areas back to their original state using best efforts. The removed Type 4 aggregates will be utilized elsewhere on site if possible, or blended to match existing surfaces adjacent to the work area.