**CAM-5 SITE-SPECIFIC INFORMATION** 

## STATEMENT OF WORK DEW Line Landfills Nunavut Settlement Area

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#### A. CAM-5 Mackar Inlet

## A.1 Introduction

The former CAM-5 (Mackar Inlet) DEW Line site is located on the western coast of Melville Peninsula on the mainland of Nunavut, adjacent to Committee Bay, at approximately 68° 18' 15" N and 85° 39' 46" W. CAM-5 is approximately 190 km southwest of Sanirajak (formerly Hall Beach) and is accessible via charter aircraft.

The former DEW Line station was located 400 m above sea level. The terrain is characterized by glacially scoured bedrock with rugged hills separated by narrow elongated valleys. Numerous small lakes, irregular in outline and typically interconnected by poorly defined drainage channels, are scattered throughout the area.

CAM-5 was an auxiliary site within the original DEW Line system. The station was constructed in the 1950s and was decommissioned in 1992, following construction of a more modern North Warning System (NWS) short range radar (SRR) site designated as CAM-5A, approximately 40 km north of the former DEW Line site.

The environmental clean-up and demolition of DEW Line facilities began in 2008 and were completed in 2010. All DEW Line structures at the site were demolished, with the exception of a storage building, which was relocated to the airstrip area. The clean-up included the complete excavation of three landfills (Upper Site Landfill, Airstrip Landfill and Lower Site Landfill – North), the remediation and closure of two existing landfills as well as the construction of two new engineered facilities consisting of a non-hazardous waste landfill for the disposal of site debris and demolition waste, and a Tier II Disposal Facility for the disposal of Tier II contaminated soil.

The landfills subject to long term monitoring are shown on the site plan, Figure CAM-5.1, and are listed below:

- Lower Site Landfill South
- Non-Hazardous Waste Landfill
- USAF and Asbestos Landfill
- Tier II Disposal Facility

The monitoring schedule for CAM-5 is provided in Table A.1.

Table A.1: Monitoring Schedule			
Monitoring Event Name <sup>1</sup>	Monitoring Event Number	Year	
Year 1	1	2011	
Year 2	2	2012	
Year 3	3	2013	
Year 4	4	2014	
Year 5	5	2015	
Year 7	6	2017	
Year 8 <sup>2</sup>	N/A – partial event	2018	
Year 12 <sup>3</sup>	7	2022	
Year 15	8	2025	
Year 25	9	2035	

### Notes:

- 1. The monitoring event name represents the number of years since site clean-up was completed.
- 2. A partial monitoring event was completed in Year 8 to address missed scope from the Year 7 event.
- 3. The Year 10 monitoring event was originally scheduled for 2020; due to COVID-19, the monitoring schedule has been adjusted and a Year 12 event took its place in 2022.

A summary of the monitoring locations associated with each landfill is provided in Table A.2. Approximate locations are shown on Figures CAM-5.2 through CAM-5.5.

Table A.2: Summary of Landfill Monitoring Locations				
Monitoring Locations	Northing (m)	Easting (m)		
Lower Site Landfill – South				
C5-1 (soil)	7581386.0	553167.6		
C5-2 (soil)	7581492.7	553091.5		
C5-3 (soil)	7581561.2	553132.1		
C5-4 (soil)	7581519.7	553161.0		
C5-5 (soil)	7581475.3	553277.2		
Non-Hazardous Waste Landfill				
MW-09 (soil and groundwater)	7580364.1	553273.9		
MW-10	N/A	N/A		
MW-11 (soil and groundwater)	7580263.3	553317.3		
MW-12 (soil and groundwater)	7580290.1	553361.2		

Table A.2: Summary of Landfill Monitoring Locations				
Monitoring Locations	Northing (m)	Easting (m)		
USAF and Asbestos Landfill				
C5-6 (soil)	7580197.8	553277.2		
C5-7 (soil)	7580237.7	553208.0		
C5-8 (soil)	7580285.4	553539.1		
Tier II Disposal Facility				
MW-05 (soil and groundwater)	7580574.5	553539.1		
MW-06 (soil and groundwater)	7580505.6	553463.8		
MW-07 (soil and groundwater)	7580469.7	553488.5		
MW-08 (soil and groundwater)	7580445.4	553515.8		
VT-1 (temperature)	7580525.5	553505.3		
VT-2 (temperature)	7580525.5	553546.1		
VT-3 (temperature)	7580502.6	553517.1		
VT-4 (temperature)	7580502.6	553557.8		
Projection: NAD83 – Zone 16				









