

# MONTHLY DIKE PERFORMANCE REPORT

Dike: D-CP5			
Date: January 2019	<b>Temps:</b> Min = -42,7°C,Max. = -16.8°C Mean = -33.5°C		
Season: Ice	Signature: Ognature		

MONITORING/INSPECTION SUMMARY	Daily	Weekly	Monthly
Ground Temperature Readings			✓
Survey Monuments			Attempted
Water/Ice Elevations			
Visual Inspection			

#### **GROUND TEMPERATURES**

- The average temperature across all horizontal beads within the key trench is -5.41°C (January 7). Temperatures have decreased since January 7 by -2.04°C at an average rate of change of -0.07°C/day. Compared to last year (February 9, 2018), average key trench temperatures are cooler (-1.14°C).
- Vertical GTC's show frozen temperatures throughout the dike at all cable locations, with cooling temperatures observed throughout the dike structure. Seasonal warming continues below elevations 5 9 m below the maximum key trench depth.

#### **SURVEY MONUMENTS**

A survey of the monuments was attempted February 7, 2019. However, it was discovered that M1 (Station 1+170) had apparently been run over and is bent. At the current time, only one of three monuments is functioning as intended.

### **WATER/ICE ELEVATIONS**

Ice elevations were not taken in January.

#### **VISUAL INSPECTIONS**

No visual inspections were undertaken in January.

## **RECOMMENDATIONS**

- New "baseline" readings were attempted from the damaged monument at D-CP5 and survey is in the process of re-calibrating the results. Several attempts will be made over the next couple of weeks and survey readings will be provided for the February report.
- Additional flagging and/or protective measures will be implemented for the monuments as soon as possible.
- Discussions with E&I regarding restricting access to the dike to authorized personnel only are ongoing.