



Compilation Details

Layer Name: Permafrost Database

Layer Type: Surficial Geology

Feature Type: Dataset

General Information

Release Date: 2023-12-06

Released By: Yukon Geological Survey

Contact Info: YGS-surficial@yukon.ca

Summary

A database of geotechnical boreholes, ground temperature, and reports relating to permafrost in the Yukon.

Description

Last Updated: Dec 6, 2023

About the Yukon Permafrost Database

Permafrost degradation is impacting Yukon communities and infrastructure at increasing rates with costly consequences. Access to data describing Yukon permafrost is critical for supporting a variety of activities, including: community and infrastructure planning; climate change adaptation planning; and environmental assessments.

Development of the Yukon Permafrost Database began in early 2019 to make permafrost data collected within Yukon accessible to a variety of users, including governments; academics; consultants; and the public. Work to date has focused on developing a data model and data standards; and establishing a database. Existing data sets were imported largely from various Government of Yukon branches.

The database will be an evolving product that will be updated periodically as new data sources become available. We welcome data contributions from other sources, such as private; industry; and academia.

For more information or if you would like to send us your feedback, contact ygs-surficial@yukon.ca.

Downloads

Name	Location	Public	Comment
Permafrost Database - Website	https://service.yukon.ca/permafrost/	Yes	Web application
Geotechnical Borehole - Dataset	https://ygsftp.gov.yk.ca/PermafrostDB/Data/Yukon_Permafrost_Geotech_Data.zip	Yes	~2MB
Temperature Sensor - Dataset	https://ygsftp.gov.yk.ca/PermafrostDB/Data/Yukon_Permafrost_Temperature_Data.zip	Yes	~170MB
Permafrost Report Index	https://ygsftp.gov.yk.ca/PermafrostDB/Data/Yukon_Permafrost_Report_Data.zip	Yes	<1MB
Geotechnical Borehole - Locations	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Geotechnical_Boreholes/	Yes	Geotechnical Borehole Locations - Spatial Data (GDB, SHP, KMZ)
Temperature Sensor Locations	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Temperature_Sensors/	Yes	Temperature Sensor Locations - Spatial Data

Locations			(GDB, SHP, KMZ)
Geotechnical Reports - Points	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Geotechnical_Reports_Point/	Yes	Geotechnical Reports - Points - Spatial Data (GDB, SHP, KMZ)
Permafrost Reports - Points	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Permafrost_Reports_Point/	Yes	Permafrost Reports - Points - Spatial Data (GDB, SHP, KMZ)
Geotechnical Reports - Line	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Geotechnical_Reports_Line/	Yes	Geotechnical Reports - Line - Spatial Data (GDB, SHP, KMZ)
Permafrost Reports - Polygons	https://map-data.service.yukon.ca/GeoYukon/Environmental_Monitoring/Permafrost_Reports_Polygon/	Yes	Permafrost Reports - Polygons - Spatial Data (GDB, SHP, KMZ)
Geotechnical - Data Submission - Template	https://ygsftp.gov.yk.ca/PermafrostDB/Data/YPDB%20Geotechnical%20Data%20Submission%20Template%20v1.xlsx	Yes	
Temperature - Data Submission - Template	https://ygsftp.gov.yk.ca/PermafrostDB/Data/YPDB%20Temperature%20Data%20Submission%20Template%20v1.xlsx	Yes	

Related References

Number	Reference Type	Document Type	Title	Year	Page(s)
YEG2021_3	Yukon Geological Survey	Annual Report Paper	Yukon Permafrost Database: A new baseline data resource	2022	