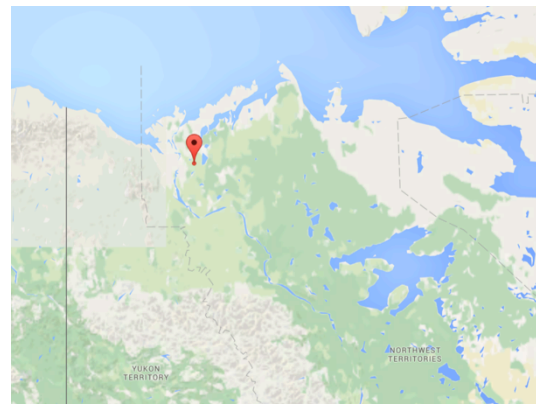


Trail Valley Creek Research Station

Trail Valley Creek Research Station was founded in 1991, with the watershed draining 58 km² area of tundra with patches of shrubs and forest. The site is underlain by continuous permafrost, with very high ground ice content. Expansion of shrubs across the watershed is resulting in substantial changes in snow cover, evapotranspiration, active layer thickness, and stream discharge. The research station is well equipped with Weatherhovens, internet, electricity, and a wide selection of scientific equipment around the watershed.



	Name	Email	Phone Number
Primary Contact	Philip Marsh	pmarsh@wlu.ca	(519) 814-0710 x 2856

Owner
[Wilfrid Laurier University](http://www.wlu.ca)

Membership
Regular Member

Website
www.trailvalleycreek.ca

Latitude
68.45

Longitude
-133.30

Location
East of the Mackenzie Delta, west of the Eskimo Lakes

Nearest Community
Inuvik

Territory/ Province
Northwest Territories

Aboriginal Government/ Homeland
Inuvialuit Settlement Region

Facility Type

Seasonally-Operated Research Station, Seasonally-Operated Field Camp, Site for Observing/Monitoring

Research Hinterland

Continuous Permafrost, Forest, Freshwater, Interior, Lake, Ponds, Shrub Tundra, Streams, Taiga / Boreal Forest, Terrestrial, Thermokarst Pond, Transitional Zone, Treeland, Tundra

Main Research Disciplines

Climatology, Environmental Sciences, Geocryology, Geomorphology, Hydrology, Terrestrial biology/ecology

Research History

Water Survey Canada began monitoring Trail Valley Creek in the 1980's, and National Hydrology Research Centre began research at this site in 1991. This has carried on to this day, with research focussed on snow, permafrost and hydrology. Wilfrid Laurier University currently operates this site as part of the GNWT-Laurier Partnership and as one station of the CFI funded Changing Arctic Network. Research focus is expanding from primarily hydrological to consider many aspects of the environment including water quality, terrestrial ecology, permafrost melt, and carbon fluxes for example.

Current Projects

Changing Arctic Network; ArcticNet; POLAR; NSERC

Power

Generator, Solar, Wind, External Electrical Grid

Communications

Satellite phone, Internet, Computer, Printer/Scanner

Local Transportation

Snowmobile. Helicopter. As of 2017, the Inuvik-Tuk Highway.

Equipment Storage

Seacan + tents

Dormitory/Sleeping Facilities

Sleeping tents

Dining/Kitchen Facilities

Yes

Laboratory Facilities

Yes

Fuel Availability

Small amount

Research Requirements

NWT Science Licence

Special Rules and Regulations

N/A

Local External Resources

N/A

Nearest Medical Service

Inuvik

Safety Considerations

First Aid, Firearms Safety, Bear training

Cost

\$75/day

Other Information

N/A

Last Updated

2016-05-27