

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Iñuktitut Section Header

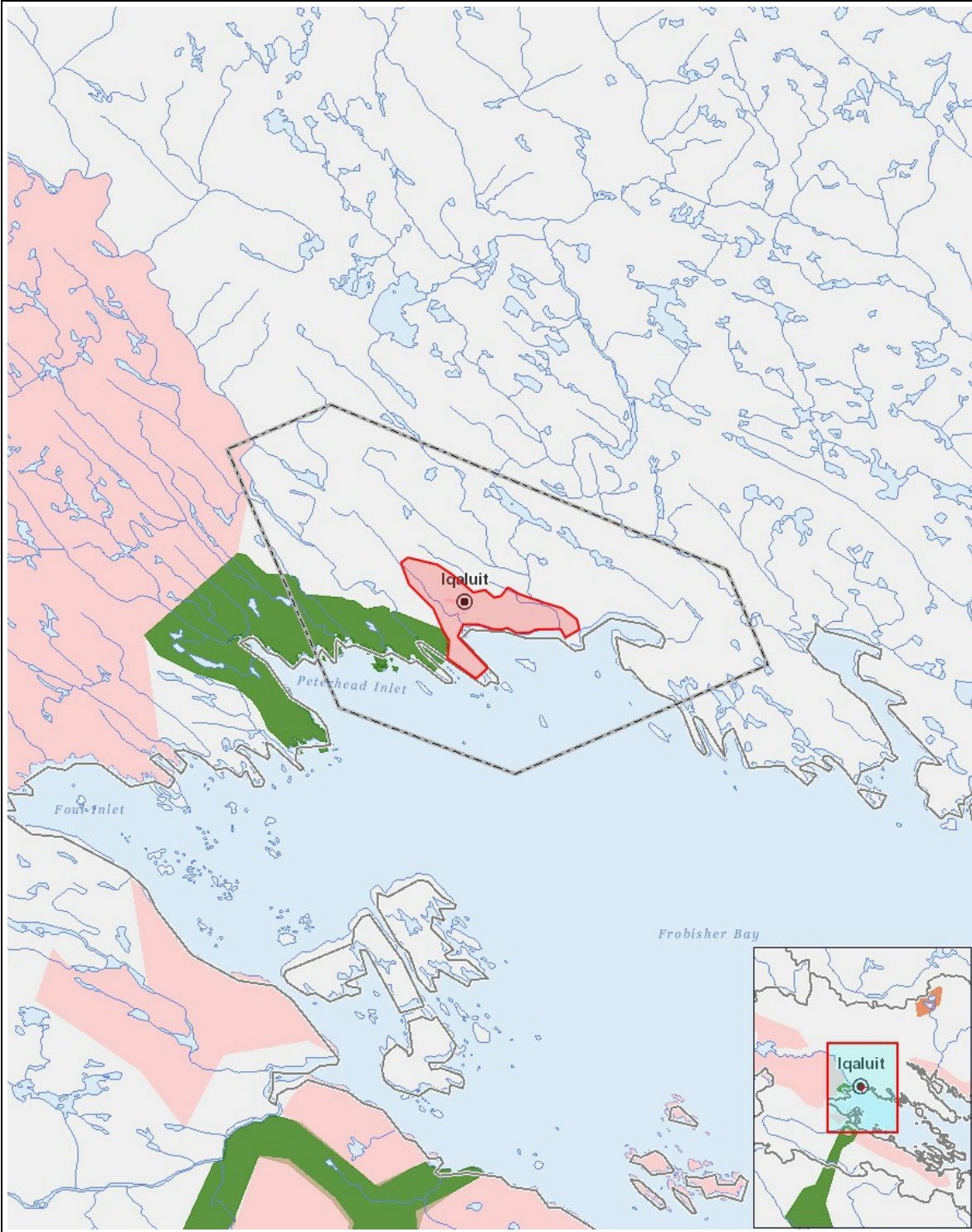
Iqaluit is located on the southeastern coast of Baffin Island, within a sub-Arctic to Arctic climate characterized by long, cold winters and short, cool summers. The region is underlain by continuous to discontinuous permafrost, which strongly influences ground thermal regimes and subsurface hydrology. Surface conditions are dominated by tundra vegetation, thin soils, and widespread exposed crystalline bedrock of the Canadian Shield. Topography is generally low-relief but locally controlled by glacially scoured outcrops and frost-related processes. Seasonal freeze-thaw cycles affect near-surface stability, while snow cover and ice conditions vary significantly throughout the year. The area is also influenced by coastal processes from Frobisher Bay, including sea ice formation and tidal effects. Freshwater resources are limited to lakes and small streams, many of which are frozen for most of the year. Infrastructure development is constrained by permafrost, requiring adapted construction practices. Overall, the physical environment presents significant logistical and technical challenges for subsurface investigations and energy development.

Iñuktitut Section Header

The biological environment around Iqaluit is characteristic of Arctic tundra ecosystems, with low biodiversity but high ecological sensitivity. Vegetation is dominated by mosses, lichens, grasses, and low-growing shrubs adapted to cold temperatures, shallow active layers, and nutrient-poor soils. Plant growth is limited to a short growing season, making recovery from disturbance slow. Wildlife includes terrestrial species such as caribou (notably the Baffin Island population), Arctic fox, and polar bear, although encounters near the city are occasional. The area also supports small mammals and a variety of migratory bird species during the summer breeding season. Marine and coastal ecosystems linked to Frobisher Bay are biologically productive and support species such as seals and fish, which are important for local subsistence. These ecosystems are closely tied to seasonal sea ice dynamics. Overall, Arctic ecosystems are particularly vulnerable to disturbance due to slow regeneration rates, strong seasonal constraints, and tight coupling between climate, permafrost, and biological activity.

Iñuktitut Section Header

Iqaluit is the capital of Nunavut and serves as the primary administrative, economic, and transportation hub of the region. The population is predominantly Inuit, and local livelihoods are shaped by a mix of wage-based employment (government, services) and traditional land-based activities such as hunting, fishing, and harvesting. The community faces a high cost of living, driven by its geographic isolation and reliance on air and seasonal sea transport. Energy supply is almost entirely dependent on diesel generation, resulting in high energy costs, logistical vulnerability, and environmental concerns. As a result, there is strong interest in alternative and locally available energy sources. Infrastructure development is constrained by permafrost, limited road networks, and the absence of connections to southern electrical grids. Cultural



List of Project Geometries

1	polygon	sampling area
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