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Landfarm, Solid Waste Non-Hazardous Facility, Water and Sewage Treatment Infrastructure Upgrades, Temporary Camp and Amendment of Water Licence, for the Eureka High Arctic Weather Station

ᑕᓄᓪᓂᑦ ᑲᑲᑲᑦᑎᓄᑦ ᑲᑲᑲᑦᑎᓄᑦ: New
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Period of operation: from 0001-01-01 to 0001-01-01
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ᑲᑲᑲᑦᑎᓄᑦ ᑕᓄᓪᓂᑦ: Jean-Philippe Cloutier-Dussault
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hannayaoniaktok kaffinik pigianiknik tatvani 2021-mi, tatvalo hapkua ihoakutighait tatvani manikami tupikpakavikmi ilalioiniaktot hapkua kullikutit ingilgotit, uhokjuakhavighait, ikkakukviit, unnakutit tatvalo niiklamaviit, tatvalo kukivighait tatvalo ihoakutighait tammayat ihivaotavaloit. Manikami Ikkakukvighaait Hamna ullugiaknakninga illangutihimayok tahamani hiikmikmi naonaiyaktaohimayok tahamani manikami nayuugani haffuma Eureka-mi Kuutiniikpami Hilalivimi (HAWS). Hamna hannaninga haffuminga manikami ikkakukvighamik piyagiakakmat totkomavigiyauluni immakak iitkomayaoyonik 4,500-6,000m³ haffuminga huugotiktahimayonik hiikmiknik illangotihimayonik manikakmi, Hamna tiitigaoyatiakhimayonik haffuma ikkakukvighap kanogitonigha hafjaoyok havagoyahimaaliktot tatvalo humminigiagha nayokvigha ihomagotaoniaktok tatvani auyami 2021-mi. Pitakangitonik-Ulugianaktonik Ikkakukviop IgluutaitniUna nuutak Pitakangitonik-Ulugianaktonik Ikkakukviop Igluutighaait (Igluutighaait) piyagiakakniaktok totkomavioluni ikakukhimayonik igiitahimayonik angiyoniklo ikkakuktaohimayonik. Pitakangitonik-Ulugianaktonik Ikkakuktaohimayot tatvunga totkokaoniaktot tatva hapkua ulugianangitot kiyoit igitahimayot ikkualayaotaatkata tahamani manikami tatvalo hapkua ulugianaktokakniaktot ikkakukhimayonik puuktaotakhimalikata aolakitahimayot tatvunga iglukpakavikmit. Hamna tiitigaoyaktaohimaliktok kanok iliikuhigha haffuma Igluutighaita havagiyaovluni, hamnalo iglukpiokvighaita paknaiyaotaatni tatva napaktaoniaktot tunnoani kivataatni haffuma miitkviop. Hamna naonaiyaktaoniaktok iglukpiokvighaait tatvani auyami 2021-mi, Immap/Annaktavikhaita Ilingaiyaotighait Hamna havagiyaoniaktok ilalioiniaktok hapkuninga hannatjutighaitnik notamik hallumaitonik immakavighamik tatvalo ihoakutighaitnik tatvalo ilingaiyaklugulo una aolahimaaktok hallumaitonik immakavighaait. Una notaak Itpigtigalik immap halumakhaotighaitnik igluutat napaktitaoniakmiyok, tatvalo huli notangoktiklogit tatvalo ihoaghaklogit hapkua aolayot hallumailonik annaktavioyot koviogavighaitnik tahigamik. Hallumailgonik koviogavighaitnik toghoaliktoklogit tatvalo kukloavighaitnik ilingaiyaktaoniakmiyot. Hamna kakugo ilingaiyaotighait nigiyogiyoyot hannayaaliklogit tatvani Aggasi 2021-mi inniktaolotik tatvani 2025-mi. Immap Ihoaghaotighait Ilalioitihimayok tatvunga toghiktotaoyomot, una ihoaghaotighait huli atoghimaaktomik tatvalo illalioitighait Immap Laisighaktakutighait 8B-EUR1621 (Immap Laisighaktakutighait) toghiktotaohimayok. Una aolahimaaktok Immap Laisighait pitjutaoyok hamna Immap Laisighait pitjutaoniakmat immakmik pikatakniakmata tatvunga Station Creek. Una toghiktotaat ilalioitihimayok tatvunga Ihoaghaotighait atotighaitnik tahapkunanga Black Top Creek tatvalo tatvunga West Remus Creek ihagiatigomik atoghaghaitnik immakmik igluliohimaakniaktitlugit, apkutaita hiokap tingilgalaktaitjutighaitnik tatvalo atogaoyoghanik tatvani Havakviokaffukniaktomi Iglukpakavikmi. Una immap laisighait kikkikakmat tatvunga Aggasi 10, 2021-mun huli toghiktotaoyok tatva hivuvakpaligiaklugulo kikkikha haffuma toghiktotaat No. 149440. Hamna amigakutaoniakmat piyagiakakninga laisighaktakutighaitnik, hamna hivivagiakpalikutighait ilalioitihimayok tatvunga toghiktotaohimayomut taimatot hamna attutinga immakutaitnik huli atogaoningagianganani tatvani HAWS-mi Kuutiniikpaami Kujaginaak havakviyoyomi/havagiyaoyoni tatvalo ingilgatjutaitnik aolagiakakta kittot Inuit malikayagiakniaktot hapkuninga Aviktoghimayoni tatvalo Kavamatokatkut maligagiyaitnik tatvunga Kallakjuaknik 19 pitjutaotitlugo.

Personnel

Personnel on site: 30

Days on site: 704

Total Person days: 21120

Operations Phase: from 2021-07-29 to 2025-08-28

Operations Phase: from 2022-06-28 to 2042-10-28

Post-Closure Phase: from to

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Camp	ᐃᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	40000 litres	Food waste and paper waste, Incinerated	Ashes deposited in non-hazardous waste facility and capped
Camp	ᐃᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	5000 lbs	Incinerated on site	n/a
Site Cleanup/Remediation	ᐃᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	31.5 m cubed	Solids, sludge from water treatment facility.	n/a
Camp	ᐅᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	35000 gallons	Contained in holding tanks and released to the environment pending receipt of acceptable weekly lab test results. Kitchen will be provided with grease traps.	n/a
Camp	ᐅᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	9000 m3/year	Decant into Slidre Fjord	Sewage lagoon sedimentation
Camp	ᐃᑦᐅᑦᐅᑦ ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	tbd	Disposed on-site in non-hazardous waste facility	n/a
Camp	ᑦᑎᐅᑦᐅᑦ ᑎᑦᐅᑦᐅᑦ	4500 lbs	Pacto toilets will be provided to handle black water waste which will be incinerated on site	Residual ash waste from incinerator 400 lbs

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Impacts: - Temporary decrease to ambient air quality of the project area, potential increase of dust and greenhouse gas emissions. - Construction activities have the potential to increase ambient noise. - The potential to affect the soil including removal of infrastructure, material handling (loading and dumping); and the - refueling of vehicles/equipment. - Construction activities have the potential to affect the hydrology and water and sediment quality of the site. - Movement of heavy equipment may increase sediment transport during the summer construction period. - Physical damage to vegetation during construction and changes in the soil surface layer, leading to potential soil and permafrost - erosion, changes in surface water hydrology and thermokarst. Fugitive dust may also suppress plant growth within a zone around - construction zones. - Construction activities will occur during the summer, the time that nesting and denning occur for many bird and mammal species. For - birds and mammals, the interactions include behavioral changes such as avoidance and/or attraction to the site and changes in the - dominant species in areas adjacent to the site. Mitigation - Optimize fuel consumption and minimize dust production resulting from vehicle/equipment travel as well as noise. - Employ standard operating procedures for equipment/machinery - Reduce dust resulting from construction activities: Execute work using methods to minimize raising dust from construction activities. - Refueling of vehicles and equipment to occur in designated areas following all applicable regulations. - Effective sediment and erosion control measures will be installed prior to starting work (temporary matting, geotextile silt control filter (curtains) fabric, etc.) - All water intake hoses will be equipped with a screen of an appropriate mesh size to ensure fish are not entrained. - Work will occur in summer months.

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

Once projects are constructed and operational, the temporary camp will be disassembled and sea-lifted from site. Conditions at the temporary camp will be returned to natural conditions as much as possible.

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

Ocean waterway inlets) had baseline monitoring results of 29 and 30 dBA. In summary, the minimum uninfluenced ambient sound levels observed in the HAWS area (i.e., natural sounds of nature at NM-2, NM-5, NM-6 and NM-7) are comparable to the sound levels identified during the literature search. With consideration of the above information, a conservative approach to establishing background sound levels was applied. An existing noise level of 35 dBA was selected for 24-hour sound levels and applied as the background value for assessing the relevance of potential changes in sound levels as a result of Project Improvement activities at the HAWS. The HAWS is situated in the Eureka Hills Ecoregion, within the Northern Arctic Ecozone. The topography in the area is rolling and ridged, and reaches altitudes of no greater than 1000 m above sea level. Underlying strata include Mesozoic and Tertiary sandstone and shale, which have large trenches cut out of them. The trenches form the sinuous, curving drainage that is apparent in the area (Phase I ESA - PWGSC, 2007). The geology of the HAWS site was observed by Columbia/Franz (2010) to be composed of silty clay, with some gravel and cobble. Hydrogeologic information was obtained from Columbia/Franz (2010). Regionally, sinuous drainage formed by carving of the underlying sandstone is apparent, as well as within the study area. Water has formed gullies and seasonal creeks that drain into the Slidre Fjord of the Fosheim Peninsula, and subsequently into the Eureka Sound and Arctic Ocean. The main natural source of surface fresh water at the HAWS is Station Creek, which is seasonally flowing. It flows in early June on the west side of the main facilities at the HAWS, from north to south. Flow from the creek discharges into the salt water of Slidre Fjord and ultimately into Eureka Sound and the Arctic Ocean. The HAWS is in an area of continuous permafrost. In high, dry locations the active layer is at approximately 0.60 metres below surface and in wet, low areas permafrost is located at approximately 0.80 metres below surface. On south facing slopes, the active layer can reach a depth of approximately 1.2 metres. The water reservoir is the source of domestic water, which is also located on the west side of the main facilities. The reservoir is replenished yearly by the seasonal pumping of Station Creek. A sewage lagoon is located at the south end of the site's facilities on the shore of Slidre Fjord (Columbia/Franz, 2010). Soils Negligible chemical weathering and plant action in the arctic environment contribute to poor soil profile development. Thus, soils at the HAWS are composed mostly of sand/gravel fill, underlain by silty, sandy clays – mainly sands, silts, and clays. Specifically, these soils are composed of lithosols and regosols of the Rawmark Great Soil Group, and are typically 18% sands, 47% silts, and 35% clays. Soils include Regosolic Static Cryosols and Orthic Turbic Cryosols over top of colluvial, alluvial and marine deposits (Phase I ESA - PWGSC, 2007).

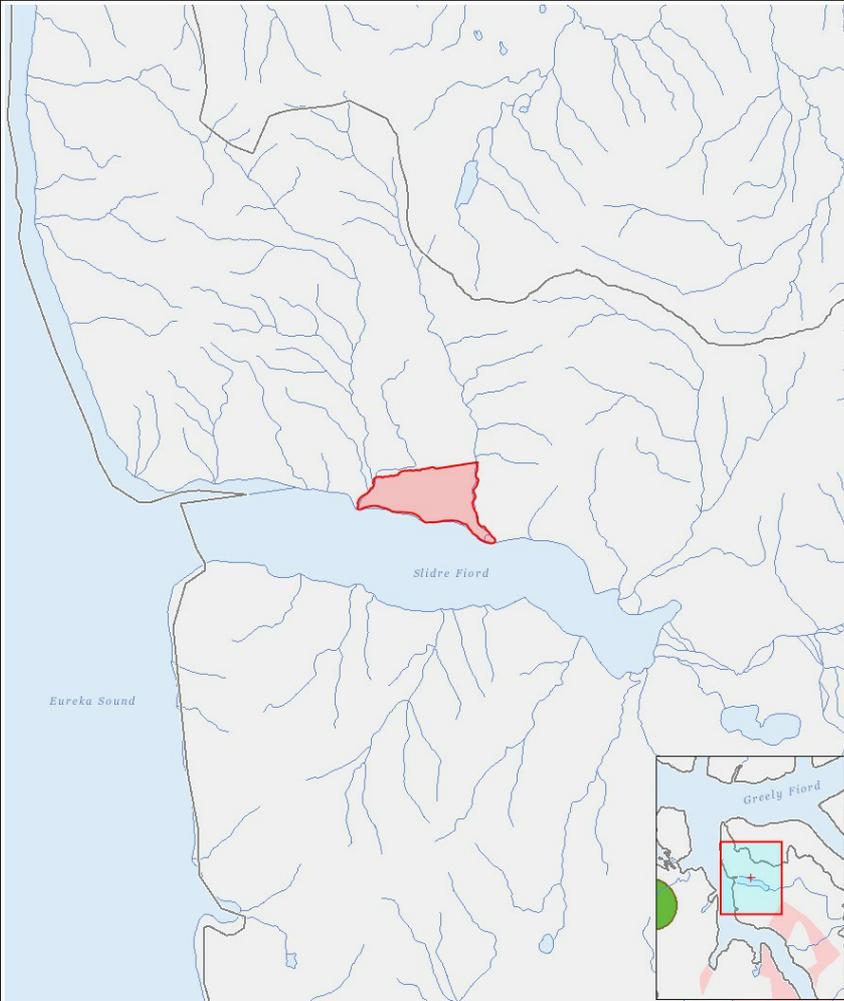
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The site is in ecodistrict 21, situated within the Eureka Hills ecoregion of the Northern Arctic ecozone. The ecoregion includes Axel Heiberg and Ellesmere Islands. General descriptions of plant communities include low-growing herbs and shrubs such as purple saxifrage, *Dryas* spp., arctic willow, sedge and arctic poppy. The extreme environmental conditions have a significant impact on the ecological recovery of vegetation at disturbed sites at Eureka. Low light levels, extremely low ambient temperatures and lack of moisture and nutrients limit plant productivity. While a precipitation value of 50-150 mm per year has been used for HAWS assessments (PWGSC 2007), the climate conditions listed by Agriculture Canada for the ecodistrict indicates average precipitation at the lower end of this range. Average total precipitation for the ecodistrict is 68 mm/year, 53 mm of which is snow. Due to evaporation of moisture during summer months, the area experiences a deficit of 361 mm of moisture annually. There are only 16 effective growing days annually (days above 5°C adjusted for day length) in the area around Eureka. The area has >90% continuous permafrost, with <20% ground ice. Changes to vegetation are expected in the High Arctic terrestrial ecosystem as a result of warming ambient temperatures. Long-term monitoring programs were established in Quttinirpaaq National Park in 1990 using several measures of environmental change (Broll et al. 2003). Changes recorded between 1990 and 2002 include warming soil temperatures, with an increase in the depth of the active layer. Changes in permafrost caused changes in the hydrological conditions and soil moisture. A review of climate changes in the Canadian Arctic indicate that the ambient temperature has increased 1.5 to 3°C between 1953 and 2007, while precipitation has increased by roughly 10% (Stein et al. 2013). If these trends continue, the plant community will undergo changes in species and numbers in response to the changing environment. The HAWS has been in place since 1947; however, there are no rigorous surveys of the animal community in the area, the species abundance, or other measures of species presence. While some ecological information is available for many species based on studies conducted in the Arctic, further south of Eureka, important site specific data, such as the numbers of nesting sites for breeding birds, or the density of small mammal species, are not available. For example, the number of ground nesting breeding birds during the summers would allow some estimation of the impacts of disturbed ground from borrow sites or new construction. The Arctic Biodiversity Assessment (CAFF, 2013) estimated that the High Arctic portion of the Canadian Archipelago has a very low biodiversity, with roughly 10 resident mammalian species. Wildlife sightings are recorded weekly at the HAWS and provide some site specific information on wildlife species in the area and potential interactions with workers on site. The most common sightings are for muskox, arctic hare and wolves, with many sightings within the boundary of the site. Waterfowl, including red-necked loons, have been observed on the Fjord but their nesting sites relative to the station are unknown. Polar bears have been observed in the area but at some distance from the HAWS. Some data are available from breeding bird surveys at other sites in the High Arctic. Pattie (1977) reported the numbers of regular and occasional breeding birds on Devon Island, a High Arctic ecosystem roughly 500 km to the south of Eureka. Most of the bird species were shorebirds, seabirds and colonial waterfowl. The dominant terrestrial birds that were present every year of the survey were the rock ptarmigan, the Lapland longspur and the snow bunting, with the raven and snowy owl less common. Pattie reported a density of 40 birds per km² in July 1972 at Sildre Fjord, with 12 species of birds, equivalent to other high Arctic sites. These results corresponded with a survey reported by Nettleship and Maher (1973) at Hazen Lake, roughly 300 km to the northeast of Eureka. Trefry et al. (2010) reported several years of breeding bird survey results from the east coast of Ellesmere Island. Snow buntings, Lapland longspur and Baird's sand piper were the most abundant species. The density of snow buntings was 1.0 to 1.5 pairs per km², while the Lapland longspur reached 1.5 to 2.0 pairs per km². These results were used to include the snow bunting as a representative songbird in the selection of Valued Ecosystem Components in the current assessment. Parks Canada has conducted periodic surveys of wildlife on north Ellesmere Island to establish wildlife presence and numbers before the establishment of Quttinirpaaq National Park. Data for 1989 to 1997, 2002 and 2008 were obtained in spreadsheet form from J.Chisholm, Nunavut Field Unit, Parks Canada, Iqaluit. No detailed methods were included in the data, although most transects were flown with two observers in small aircraft in early to mid-June. The 1989 to 1997 data set included a number of marine species, including ringed seal, bearded seal and walrus, however the marine transects extended far north of Ellesmere Island and are not relevant for Eureka. The surveys indicated that the dominant terrestrial mammal is the muskox, with several dozen in the area at any time. Peary caribou are also present although their numbers were consistently low. The number of arctic hare is variable with only 10 reported annually for the 10 year span from 1989 to 1997, yet over 3500 in 2008. The arctic hare was often observed in groups of 20-30 animals. Dominant birds include the gyrfalcon and the snowy owl. Snow geese are also reported in fairly large numbers. The attached EIA provides a summary of species reported to be present in the area, as well as the associated Committee on the Status of Endangered Wildlife in Canada (COSEWIC) and/or SARA status. The HAWS is located in an extreme climate with long, very cold winters and short, cool summers. The field season for the completion of construction activities is, understandably, extremely short. It consists of (at most) July, August and the beginning of September. Outside these months, the ground is frozen and there is no water flowing in the water bodies in the Project location area. Remus Creek and West Remus Creek, and the portions in which the Project will be taking place, are temporary, ephemeral watercourses, which are only filled with water during

and minimize dust and greenhouse gas emissions. Lowering vehicle speeds on unpaved road surfaces, applying water as well as implementing good road maintenance practices will minimize the potential for road dust emissions. Demolition work will be completed by methods that minimize dust generation from operations, in accordance with the Environmental Protection Plan. •Reduce dust resulting from demolition activities: Execute work using methods to minimize raising dust from decontamination operations. Implement and maintain dust and particulate control measures as determined necessary by applicable regulations and standards during demolition work and in accordance with applicable authorities. The use of oil for dust control is prohibited. Prevent dust from spreading to beyond the immediate work area. Departmental Representative or designate may stop work at any time when Contractor's control of dusts and particulates is inadequate for worker exposure relative to indoor conditions, or when air quality monitoring indicates that release of fugitive dusts and particulates into the work area equals or exceeds specified levels. If Contractor's dust and particulate control is not sufficient for controlling dusts and particulates into atmosphere, stop work. Contractor must discuss procedures that Contractor proposes to resolve problem. Make all necessary changes to operations prior to resuming work that may cause release of dusts or particulates. Prevent sandblasting and other extraneous materials from contaminating air beyond application area, by providing temporary enclosures. Cover or wet down dry materials and rubbish to prevent blowing dust and debris. Provide dust control for temporary roads. Noise Interactions: Demolition activities have the potential to temporarily increase ambient noise. Effects: During demolition clean up, there will be an increase in noise emissions from heavy-duty construction equipment operation and construction activities. These effects are typical of a construction site, localized, and of a temporary nature. The physiological and ecological impacts of noise on wildlife needs to be considered, acutely loud noises can cause hearing loss in wildlife. Behavior patterns of wildlife may differ from their natural suite of behaviors. Mitigation: •The Project will employ standard operating procedures for equipment/machinery and ensure that regular maintenance is performed. As well, personnel will adhere to conditions outlined in all permits, authorizations and/or approvals. Sediment and soil quality Interactions: Demolition activities have the potential to affect the soil include removal of buildings, infrastructure, material handling (loading and dumping); and the refueling of vehicles/equipment. Effects: During demolition soil quality is most likely affected as a result of fuel spills and leaks from equipment refueling efforts or otherwise, and from compounds located inside the structures materials. Conduct a complete on-site evaluation of the area to determine exact measures to be taken to protect permafrost. Mitigation: •Prevention of fuel spills/leaks: Refueling of vehicles and equipment to occur in designated areas following all applicable regulations. •Sediment, erosion and drainage control: Effective sediment and erosion control measures will be installed prior to starting work to prevent entry of sediment into watercourses and waterbodies. These measures will be inspected daily and repaired if damaged by construction, precipitation or snowmelt. Sufficient supplies for erosion, sediment and drainage control will be available on site to keep in compliance with federal and territorial fisheries and environmental protection legislation. Aquatic environment Interactions: Demolition activities have the potential to affect the hydrology and water and sediment quality of the site. These activities include, removal of buildings, infrastructure, material handling (loading and dumping); and the refueling of vehicles/equipment. Effects: surface water contamination could potentially occur due to leaks/spills that may occur during the re-fuelling of vehicles and construction machinery on site. Debris from demolition efforts may end up into the hydrological system. Mitigation: •Suitable erosion and sediment suppression measures will be implemented to prevent sediment from entering Black Top Creek, Station Creek or other water bodies. Erosion control structures (temporary matting, geotextile silt control filter (curtains) fabric, etc.) are to be used. Vehicles/machinery are to be checked for leakage of lubricants or fuel and are maintained in good working order. Re-fueling should occur in designated areas only. Basic petroleum spill clean-up equipment will be kept on-site. Barriers will be required during extraction of contaminated soils to prevent material from entering surface water, Station Creek or the reservoir. Aquatic Community Interactions: The demolition work does not involve direct disturbance of the water bodies. Work projects are isolated from the water bodies, although movement of heavy equipment may increase sediment transport during the summer construction period. Effects: Concerns about sediment loading in nearby water bodies are important to address. Mitigation: •Best practice is to mirror aquatic environment mitigations. Should water pulling from Station Creek be required during the demolition period the most appropriate time of year to do so would be during the freshet period. Vegetation Communities and Species Interactions: Physical damage to vegetation during construction and changes in the soil surface layer, leading to potential soil and permafrost erosion, changes in surface water hydrology and thermokarst. Fugitive dust may also suppress plant growth within a zone around construction zones. Effects: The damage to the vegetation will be equal to the footprint of the demolition, storage and the dust footprint. Mitigation: •Due to the extreme conditions at Eureka, construction will be conducted during the brief summer months. Damage can be reduced by covering the ground, possibly using matting, prior to construction to reduce physical disruption of the soil. Fugitive dust can be suppressed at its source. Additionally, vehicles will remain on pre-established roads/trails. Workers are to be advised of sensitivity of environment and limits of equipment travel will be determined. Wildlife Communities and Species Interactions: Demolition activities will occur during the summer, the time that nesting and denning occur for many bird and mammal species. For birds and mammals, the interactions include behavioral changes such as avoidance and/or attraction to the site and changes in the dominant species in areas adjacent to the site. Effects: Effects are unlikely as demolition activities will keep to areas of existing building and established roads. However, minimization of impacts is important as the area in general as the potential for sensitive species migration. Mitigation: •The Wildlife and Wildlife Habitat Management Plan (SLR, 2018) will be followed. •Temporary workers will be informed of station protocols for the control and disposal of food and refuse to ensure that local wildlife is not attracted to the site. •Temporary workers involved with demolition activities will be trained to avoid contact with all wildlife and their nests (particularly with species at risk) and to report sightings to a central authority (i.e., supervisors) immediately. Movements of workers in off-hours should also be restricted to ensure nesting sites and denning areas are not disturbed. •In the event that SARA listed birds or mammals are located in the area, construction crews will be prepared to modify, or delay, activity that might harm the protected species. For example, if nests with eggs are located for a protected species, activity in the area might be delayed until after hatching.

Cumulative Effects

There are no adverse residual project effects to be considered in a cumulative effects assessment. That there are no identified adverse residual project effects is not surprising for a construction project such as this, where the works and activities are very limited in geographic extent and time.



List of Project Geometries

1 polygon f2021291189053-Eureka_LandReserveBoundary_20210204

