

D^ab_cD^ac: (867) 983-4600, r b^ad^a: (867) 983-2594

$\epsilon_b \Delta^c \dot{\bar{N}}_0 \sigma^b \wedge c_n d\epsilon^f b^g d n d^a l^a \sigma^b$

Build and operate a landfarm to address historically contaminated soil in Baker Lake. The Hamlet of Baker Lake experienced several diesel fuel spills in the 70s and 80s that had never gotten cleaned up. Northern Canada Power Commission (NCPC) and the Ministry of Transport (MOT) occupied that area at the time. Fuel storage infrastructure and fuel handling practices were not to the standard we see today. QEC inherited the land and along with it the contaminated soil at the site. After several ESAs QEC conducted a Human Health Risk Assessment of the site and the results identified one spot (Hotspot) that contained levels and contaminants which would put humans at risk. We decided to address it immediately by the recommended method of landfarming the impacted material. The landfarm was constructed in September 2016. Additionally to prevent contamination from entering Baker Lake QEC proposes to install a barrier from the perma-frost to surface along the lake shoreline. There would be groundwater extraction wells where contaminated water could be drawn and filtered before decanting to the environment. QEC owns and maintains a land-farm cell in Baker Lake. The land-farm is currently on the old Power Plant site and due to the proximity the site is an odour nuisance. For this reason, the hamlet has asked that we move the cell to a new site north, near the landfill far from the hamlet. The preferred site is adjacent to the landfill and is unsurveyed. QEC will ensure that the proper heavy equipment is secured so the contractor can carry out the work safely. The proponent will haul clean fill to the site to build the new berm walls. Then the liner shall be laid out evenly and tucked into the berm walls to prevent movement. The existing contaminated soil in the cell will be hauled to the new site and fill the newly constructed cell. The soil shall be placed loosely to facilitate aeration. The soil will be mixed with a fertilization agent to further facilitate remediation.

- Cell size in new location must be at least 20m X 40m including berm walls
- Space required in total to allow for fence, access and surrounding monitoring 30m X 50m
- There is clean fill to re-use for partial rebuild at existing site (Berm walls)
- Earth movers to provide heavy equipment and operators to facilitate the move
- QEC to provide all new materials required for rebuild

▷ΔΑΝΩ^c: N/A

$\Delta \mathcal{L}^b \cap \mathcal{D}^c$: N/A

Inuinnaqtun: N/A

Personnel

Personnel on site: 3

Days on site: 6

Total Person days: 18

Operations Phase: from 2020-06-29 to 2020-09-29

Operations Phase: from 2020-09-29 to 2025-07-29

Post-Closure Phase: from to

Λϭϭϭϭϭϭϭϭϭϭ

αΓ	βδϭϭϭϭϭ Λϭϭϭϭϭϭϭϭϭ	ρβδϭ ϭαβδϭϭ	ϭβδϭϭϭϭϭ ϭαδϭ ϭβϭ ϭϭϭϭϭϭϭϭϭϭϭϭϭϭϭ	Δϭβϭϭϭβϭϭϭϭϭϭϭ Δϭϭϭ αβϭϭϭβϭϭϭϭϭϭ ϭΔϭϭϭϭβϭϭϭϭ	βϭϭϭϭϭϭϭ ϭαϭϭϭϭϭ ϭϭϭ βϭϭϭϭϭϭϭϭϭ ρϭϭ
Hotspot	Landfarm	Municipal	N/A	N/A	Baker Lake
Landfarm	Landfarm	Municipal	N/A	N/A	Baker Lake
Interceptor_Trench	Other	Municipal	N/A	N/A	Baker Lake

ϭαϭϭ ϭϭβϭϭϭϭϭ ϭαϭ ϭ ϭβϭβϭϭϭϭϭ ϭβϭϭϭϭ ϭβϭϭϭϭϭϭϭ

ϭαϭϭϭ	ϭϭ	βϭβϭβϭϭϭϭ	βϭϭ ϭβϭϭϭϭϭϭϭ
Information is not available			

[illegible]

உதிரத்தொடர்வு அகலத்தொடர்வு அகலத்தொடர்வு பதனிடல்:

Kivalliq

$\epsilon \Delta^{\alpha} j^c \wedge J^{\beta} e_D \dot{n} \wedge \nabla^{\gamma} r^{\delta} C D P L \downarrow^c$

[illegible]

Project transportation types

Transportation Type	Relative Accessibility	Length of Use
Land		

Project accomodation types

መርቅ፡፪፭

Λ⁹δ^c Δ⁹ρ²Δ⁹ Δ⁹σ⁹Δ⁹σ⁹Δ⁹ Δ⁹Δ⁹Δ⁹ Δ⁹Δ⁹Δ⁹, Γ⁹Δ⁹Δ⁹Δ⁹, Δ⁹Δ⁹Δ⁹Δ⁹, Δ⁹Δ⁹Δ⁹ Δ⁹Δ⁹Δ⁹Δ⁹

[illegible]

ΔL^{9b} ΔC^{9b}CD^{9b}ΔL^{9b}ΔC^{9b}

၎်း ငါ်း ဝဲးဝဲးဝဲးဝဲး	၎်း ငါ်း ဝဲးဝဲးဝဲးဝဲး	၎်း ငါ်း ဝဲးဝဲးဝဲးဝဲး
0		

$\triangleleft^b C d^c$
$$\Delta^b C d_{\sigma} \sim \Delta^b \sigma^b$$

ለርብ ልዩነት የሚጠይቅ ለርብ ልዩነት መግለጫ	የመጀመሪያው ደረጃ	የሙሉን ደረጃ የሚያስተካክልበት ደረጃ	የመጨረሻው ደረጃ	ኢንጅነሮች እና ባለሙያዎች መግለጫ
Site Cleanup/Remediation	የአካባቢውን አጠቃላይ ሁኔታ ማረጋገጥና ማሸጋገጥ የአካባቢውን አጠቃላይ ሁኔታ ማረጋገጥና ማሸጋገጥ	350M3	Removal of oil impacted soil and replacement with clean fill	Nutrients to be added to impacted soil at construction time

4907D0^c 4^b5^bCDPL^c

Positive impacts will be realized since the hotspot was identified as being potentially hazardous to human health. The contaminated soil in the area has been removed placed in an impervious containment cell and covered. Remediation of the soil will begin shortly after spring melt and continue throughout the summer. Attenuation of the contamination is predicted to last over a 3 year period bringing the level to below criteria for soil to be used industrially.

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 11: Municipal Development

ᐱᓪᑲ ᐸᕙᐅᐳᓪ ᖃᓄᐃᕐᑐᓪᓴᓂᐳᖅ: ᓄᓇᐳᓪ ᖃᓄᐃᕐᑐᓪᓴᖅ

ᐱᓪᓗ ᐱᑦᐅᐅᑦ ᑦᓄᐱᑦᐅᑦᓗ ᓗᐅᑦᓴᑦ: ᐅᐱᑦᑦᑦᑦᑦᑦᑦᑦ

[illegible]

Miscellaneous Project Information

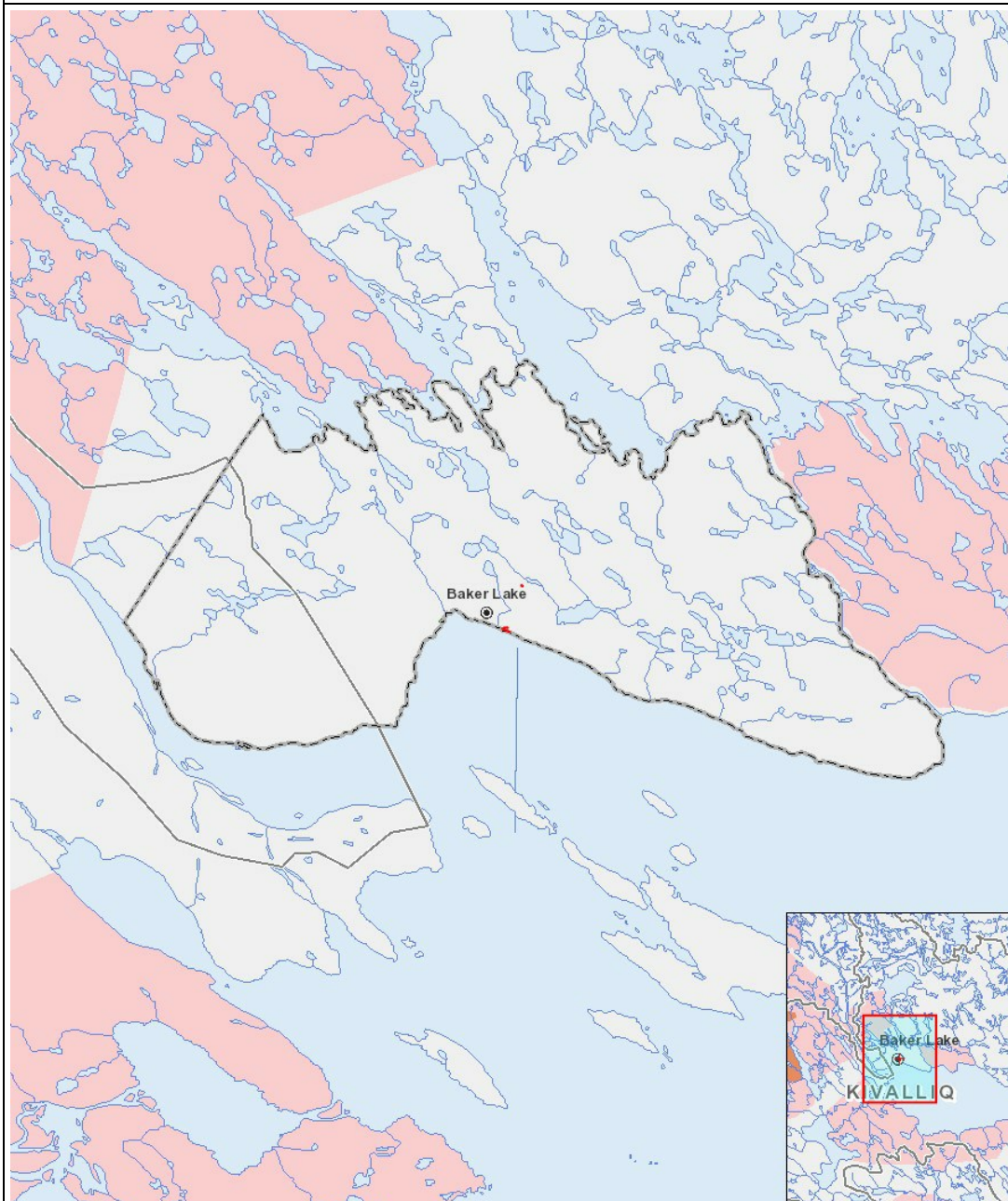
உடையவர்களுக்கும் அவர்களுக்கும் இடையேயுள்ள வேறுபாட்டை உணர்த்துவதற்காகவே இவ்வாறு குறிப்பிட்டுள்ளார்.

Cumulative Effects

Impacts

$\mathcal{L}(\mathcal{A}) \cap \mathcal{L}(\mathcal{B}) = \mathcal{L}(\mathcal{A} \cap \mathcal{B})$

[illegible][illegible]



List of Project Geometries

1	polygon	Hotspot
2	polygon	Landfarm
3	polygon	Interceptor_Trench
4	polygon	New project geometry