

▷<sup>9</sup>ḅ<sub>ḥ</sub>▷<sup>ḥ</sup>ḥ: 8676458444, ḥḅḥ<sup>ḥ</sup>ḅ<sub>ḥ</sub>:

$\gamma_b \Delta^c \dot{\bar{O}} \Pi \sigma^b \quad \Lambda c_n \nabla^{\gamma_b} \sigma \nabla n \nabla^a L^a \sigma^b$

ⁱᵇᶜᵈᵉᶜ: The proposed site for the landfarm is in Latitude 64.315, Longitude -96.020912 and (UTM) Zone 15 (Lot 1, Block 55, Plan 3512) at the back of PPD existing Oil Facility, away from the Hamlet of Baker Lake environmental pollution. The landfarm will be designed to hold 5000 CU.M. of contaminated soil for a maximum period of 4 years and decommission thereafter within the five years period allotted.

**DΔΛNDC:** Le site propose pour la ferme est à la latitude 64.315, longitude -96.020912 et (UTM) zone 15 (lot 1, bloc 55, plan 3512) à l'arrière de l'installation pétrolière existante de PPD, loin de la pollution environnementale du hameau de Baker Lake. Le landfarm sera conçu pour contenir 5000 CU.M. des sols contaminés pendant une période maximale de 4 ans et déclassement par la suite dans le délai de cinq ans imparti.

[illegible][illegible]

## Personnel

Personnel on site: 10

Days on site: 30

Total Person days: 300

Operations Phase: from 2022-05-27 to 2022-07-27

Operations Phase: from 2022-08-27 to 2026-08-27

Post-Closure Phase: from to

$$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \xrightarrow{\sigma} \mathbb{N} \xrightarrow{\sigma^b} \mathbb{N}^c$$

ᐃᑦ	ᖃᓄᐱᑦᑐᒥᑦ ᐱᑕᓚᐳᖃᑦᓂᐳᖃᑦ	ᑭᐅᑦ ᓄᐱᑦᐅᑦᓂᑦ	ᑐᔨᐅᒪᖃᖃᑦ ᓄᐱᐅᑦ ᖃᓄᖃᑦ ᐳᑐᒪᐅᑦᐅᖃᑦ ᑭᒪᖃᓚᖃᓚᓂᑦ	ᐱᑦᔨᑦᓂᑦᖃᑦᐱᐅᑦᑕᐅᖃᑦ ᐱᓄᖃᓄᑦ ᐱᑦᐅᑦᐅᑦᖃᑦᑦᓂᐅᑦᑕᐅᑦ ᑕᐱᑦᑭᒪᓂᑐᖃᐅᑕᖃᑐᖃᑦ	ᖃᓂᓂᓂᖃᑦᑕᖃᑦ ᓄᐱᑕᒥᖃᐅᐳᐳᖃᑦ ᐳᒪᑦ ᔨᑦᑭᒥᐅᐳᐅᑦ ᑭᐱᓂᑦ
Baker lake Landfarm	Site Cleanup/Remediation	Commissioners	Propose landfarm will be at back of Existing PPD Oil Facility in Baker Lake where all contaminated soil will be remediated for environmental protection against hydrocarbon.	The location is not an archeological site, no history of physical remains of past human activities.	Site is protected and away from the Hamlet of Baker Lake environmental pollution and hazard.

$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

ᑭᓇᓕᓯᐅᑦ	ᐱᑏᑦ	ᑲᐅᑦᔨᐱᑦᑎᑏᓯᐅᑦ	ᑦᑲᑲᓪᐅ ᐅᑦᑲᑦᑎᑕᐅᓚᐅᓗᐱᐱᑦᓯᓄᑦ
ᑦᑲᒪᓂᑦᐅᐱᑦ	Richard Aksawnee	Mayor of the Baker lake Hamlet	2021-07-08

ᑕᐃᕐᕐᑦ ᐱᑭᐃᑦ ᐃᕐᕐᑦᑕᐃᕐᑕ

ᐃᕐᕐᑦᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕ:

Kivalliq

ᑕᐃᕐᕐᑦ ᐱᑭᐃᑦ ᐃᕐᕐᑦᑕᐃᕐᑕ

ᐱᕐᑕᐃᕐᑕᐃᕐᑕ ᐃᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ
ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	Water License	Applied, Decision Pending	2022-02-24	
ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	Nunavut Planning Commission	Applied, Decision Pending	2022-02-24	

Project transportation types

Transportation Type	ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ	Length of Use
Land		

Project accomodation types

ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ

ᐱᕐᑕᐃᕐᑕᐃᕐᑕᐃᕐᑕ,

◀▷↳◀<sup>96</sup>▷<sup>96</sup>

Λ<sup>9</sup>d<sup>c</sup> d<sup>9</sup>r<sup>z</sup><sup>9b</sup> d<sup>9</sup>b<sup>c</sup>dσd<sup>4</sup>z<sup>9b</sup> Δc<sup>9</sup>b<sup>t</sup>d<sup>n</sup>ω<sup>r</sup>c ΔjCΔ<sup>c</sup>, Γ<sup>c</sup>ωdPñ<sup>c</sup>, <sup>9b</sup>εLCj<sup>9b</sup>, ωω<sup>t</sup>d<sup>c</sup> d<sup>t</sup><sup>9b</sup>r<sup>c</sup>ω

ᐃᓴᓯᕐᑦ ᐱᓄᑦ ᐃᑐᒐᐅᓂᑦ ᐃᓴᑐᓴ ᓴᑲᓄᐃᑦ ᐇᓂᓴᒐ	ᓴᑲᑦᓯᐅᑦᑦ	ᐃᓴᓯᓂᓴᓯᑦ - >ᓴᑲᑐᓂᓴᓯᑦ	ᓯᓗᓯᑦ ᐃᑐᒐᐅᓂᑦ ᐃᓴᑲᑦ
Loader	2	N/A	For excavating gravel for the landfarm construction.

በበፍጥረቱ ላይ ስለሚገኝ ምርት ምርመራ ማድረግና ምርት ማረጋገጥ

[illegible]

ΔL<sup>9b</sup> ΔD<sup>9b</sup> CD<sup>9b</sup> ΔL<sup>9b</sup> ΔD<sup>9b</sup>

ᐅᑦ ᑕᐱᑦ ᐱᑦᐅᑦᐅᑦᐅᑦᐅᑦ	ᑦᐅᑦ ᐱᑦ ᐱᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ	ᐱᑦᐅᑦ ᐱᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ
200	All contaminated water will be treated with our water treatment plant already on the Baker Lake site.	All water will be discharge after meeting all discharge criteria as per Environment Canada and Nunavut Water Act before discharge after treatment.

$\triangleleft^b C d^c$ 
$$\Delta^b C d_{\sigma} \sim \Delta^q \sigma^q$$
[illegible]
$$\Delta^{\circ} \text{N} \Gamma \Delta C^{\circ} \text{C} \quad \Delta^{\circ} \text{C}^{\circ} \text{C} \Delta^{\circ} \text{L} \Delta^{\circ} \text{C}$$

ENVIRONMENTAL CONSIDERATIONS - PPD have a working water treatment plant on site of Baker Lake and all impacted water generated from the contaminated area around the landfarm will be treated and proper discharge criteria before release to the environment. Materials are in place to appropriately contain all contaminated water from leaching the landfarm which include the diversion of water and leachate to a suitable lined retention pond where it can be recycled over the landfarm materials to maintain moisture content. It should be noted that PPD initiated this control system during summer operations.

# **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

[illegible]

PPD Tank Farm Baker Lake, NU with Location GPS - (Lat./Long) = Latitude 64.315, Longitude -96.020912

ᐱᓐᓇ ᐱᑦᐅᐅᑦ ᑭᓪᓂᐱᑦᐅᑦᓇᓂᐅᓂᓐᓴᑦ: ᐅᐱᑭᓪᓴᑦᓴᑦᓂᓐᓴᑦ

Landfarm will be constructed with a strong HDPE liner engineered with gravel and fence gate around for human and wildlife interference protection.

**ᐱᓪᓇ ᐃᑦᑎᐅᑦ ᖃᓄᐃᑦ)ᑦᑕᓚᓂᐅᓂᖅ: ᐃᓄᑦᓚᓂᖅᑭᖅᐳᒻᒪᑦ-ᐱᑦᑕᐃᒻᑕᓚᓂᖅᑭᖅᐳᒻᒪᑦ**

Existing PPD Oil facility presently provides fuel (Diesel and gasoline) to the Baker Lake community for energy to homes and offices. Soil contamination during gasoline spill of 2021 must be remediated inside the landfarm and thereby became necessary.

### Miscellaneous Project Information

[illegible]

Baker Lake Landfarm requires the appropriate safeguards for the protection of human health and fence will be built around it. The potential for uncontrolled emissions, such as volatile organic compounds (VOCs), leachates and odours and any other adverse effects from treatment, needs to be considered on a site-specific basis according to the nature of the contamination and the conditions of the site. The landfarm will be located 2.5km from the Hamlet of Baker Lake, therefore no emissions reaching the general population. All operational procedures including Personal Protective Equipment (PPE) and methodology are outlined within the Operation and Maintenance Plan associated with this landfarm. If properly operated every year, the risk of emissions affecting the general population or landfarm personnel is significantly decreased (EPA 2014).

## Cumulative Effects

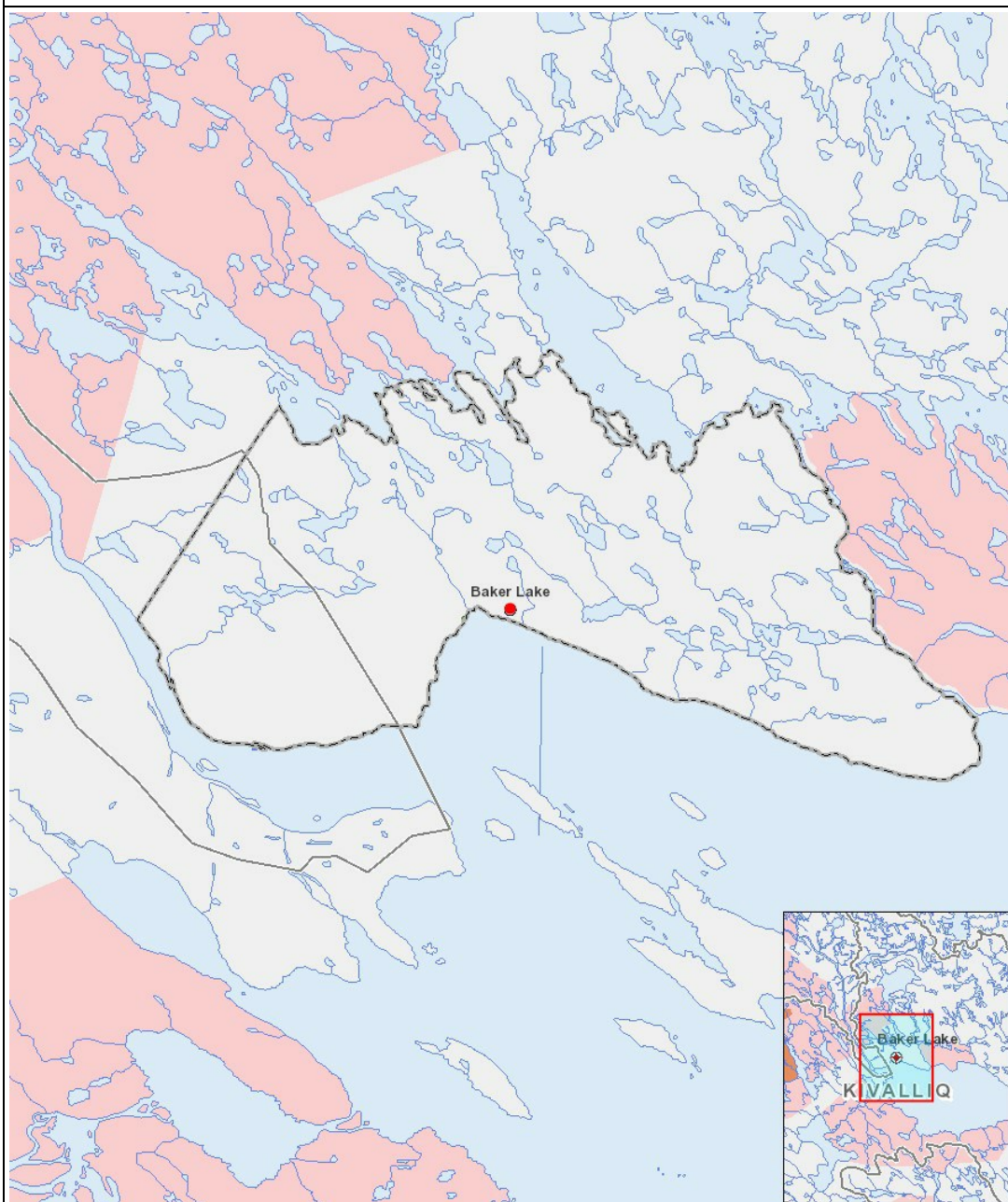


## Impacts

$\omega \rightarrow \omega \Delta^{96} \text{CD} \sigma^{96} \text{r}^c$      $\Delta \text{C} \cap \Gamma \text{D} \text{C} \dot{\sigma}^c \text{D}^c$      $\Delta^b \text{D}^{96} \text{CD} \text{r}^c \text{L}^c \text{r}^c$

PHYSICAL																			
Designated environmental areas																			
Ground stability																			
Permafrost																			
Hydrology / Limnology																			
Water quality																			
Climate conditions																			
Eskers and other unique or fragile landscapes																			
Surface and bedrock geology																			
Sediment and soil quality																			
Tidal processes and bathymetry																			
Air quality																			
Noise levels																			
BIOLOGICAL																			
Vegetation																			
Wildlife, including habitat and migration patterns																			
Birds, including habitat and migration patterns																			
Aquatic species, incl. habitat and migration/spawning																			
Wildlife protected areas																			
SOCIO - ECONOMIC																			
Archaeological and cultural historic sites																			
Employment																			
Community wellness																			
Community infrastructure																			
Human health																			

$$(P = \langle b \rangle \dot{a} \dot{r} \cap \dot{a} \dot{a} \dot{b} \rangle^c, N = \langle b \rangle \dot{a} \dot{r} \dot{r} \langle \dot{a} \dot{a} \dot{b} \rangle^c \langle \dot{a} \dot{b} \dot{r} \dot{r} \dot{a} \dot{a} \dot{b} \rangle^c \langle \dot{a} \dot{a} \dot{b} \dot{r} \rangle^c, M = \langle b \rangle \dot{a} \dot{r} \dot{r} \langle \dot{a} \dot{a} \dot{b} \rangle^c \langle \dot{a} \dot{b} \dot{r} \dot{r} \dot{a} \dot{a} \dot{b} \rangle^c \langle \dot{a} \dot{a} \dot{b} \dot{r} \rangle^c, U = \langle b \rangle \dot{r} \dot{a} \dot{a} \dot{b} \dot{r} \rangle^c)$$



List of Project Geometries

1	point	Baker lake Landfarm
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