

Local Workforce

- ▶ 10 to 30 workers each season since 2007
- ▶ More than 42,000 person hours since 2007
- ▶ \$1.5M in labour services

**Camp construction, camp operations,
Wildlife Monitors, Geological Assistants**

- ▶ 10-30 ለፍርድ ሰዓት ለፍርድ ሰዓት 2007 ፍርድ
- ▶ ልዩ ሰዓት 42,000 ልዩ ሰዓት ልዩ ሰዓት ልዩ ሰዓት 2007
- ▶ \$1.5 ለፍርድ ሰዓት ለፍርድ ሰዓት ለፍርድ ሰዓት

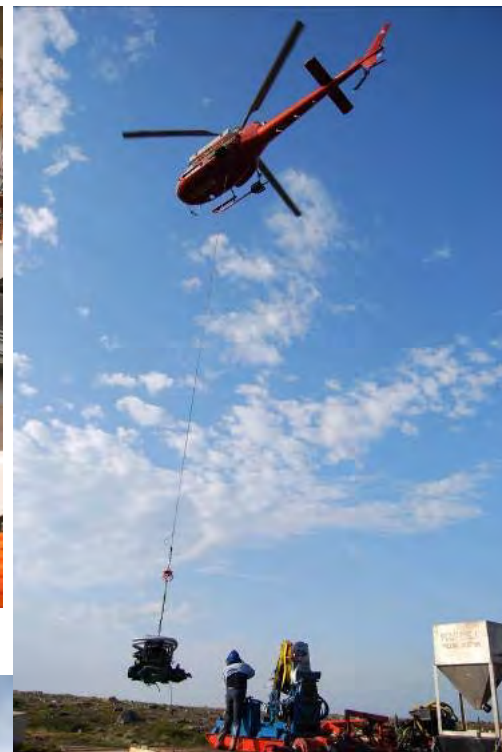
መሥሪያ ስራዎች, መሥሪያ ስራዎች ለፍርድ ሰዓት,
መሥሪያ ስራዎች ለፍርድ ሰዓት, መሥሪያ ስራዎች



Northern Benefits in 2007-2012

ᐅᐃᐅᐢᑦᑕᐢᑕᐅᐅ ᐱᑦᑕᐅᑕᐅᐅᐅᐅ 2007-2012

- ◆ **Baseline Consultants** **\$1.5M**
ᑕᑕᑕᑕᑕᑕ ᐱᑦᑕᑕᑕᑕᑕ
- ◆ **Expediting** **\$1.9M**
ᑕᑕᑕᑕᑕᑕ ᐱᑕᑕᑕᑕᑕᑕᑕᑕ
- ◆ **Camp Expansion** **\$1.3M**
ᐅᐅᐅᐅᐅᐅᐅᐅ ᐱᑕᑕᑕᑕᑕᑕᑕᑕ
- ◆ **Groceries and Catering** **\$1.8M**
ᐅᐅᐅᐅᐅᐅᐅᐅ ᐱᑕᑕᑕ ᐅᑕᑕᑕᑕᑕ
- ◆ **Core Racks and Boxes** **\$0.3M**
ᐅᑕᑕᑕᑕᑕᑕᑕᑕ ᐱᑕᑕᑕᑕᑕ
ᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕ ᑕᑕᑕᑕᑕᑕᑕᑕ
- ◆ **Helicopter Services** **\$2.9M**
ᑕᑕᑕᑕᑕᑕᑕᑕ ᐱᑦᑕᑕᑕᑕᑕᑕᑕ
- ◆ **Fuel (jet and diesel)** **\$1.75M**
ᐅᑕᑕᑕᑕᑕᑕᑕ (ᑕᑕᑕᑕᑕᑕ ᐱᑕᑕᑕᑕᑕᑕᑕᑕ)
ᐅᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕ



- $\triangleleft \dot{\alpha} \leq \beta \triangleleft \gamma$ $\triangleleft \Delta \leq \sigma^b \gamma \leq \Delta$ $\Delta \leq \Delta$ $\beta \leq \gamma \leq \beta$ $\Delta \leq \Delta$
 $\Delta \leq \beta \leq \gamma$ $\triangleleft \beta \leq \gamma \leq \beta$ $\triangleleft \beta \leq \gamma \leq \beta$ $\triangleleft \beta \leq \gamma \leq \beta$ $\triangleleft \beta \leq \gamma \leq \beta$

- ბილიტი^ა ს^ბ ს^ა ს^ბ ს^ა ს^ბ 2012 წლის 2013

- [illegible]

Conditions for continued success

ኖኔግታቢዎችን ለማስቀጠል የሚያስፈልጉት



- ▶ **Market conditions** ማዕከላዊ ገንዘብ ማግኘት ኖኔግታቢዎች
- ▶ **Regulatory approvals** ለፍታቢዎች ማስፈጸም የሚያስፈልጉት
- ▶ **Continued public acceptance** ለህዝቡ ማስቀጠል የሚያስፈልጉት
 - ◆ **AREVA's track record** ለሀገራዊ ህዝብ ማስቀጠል
 - ◆ **Uranium in general** ማስቀጠል የሚያስፈልጉት

arevaresources.ca

facebook.

and

You Tube

facebook.

◀LCD▶

You Tube





$\rho_L \Delta^b \Gamma$ $\Lambda_{CZ} \nabla^\alpha J \prec C$ ${}^{fb} \phi \Delta_C {}^{fb} \sigma^\omega L$

$P \Delta \Delta d^C \quad \Delta^c \bar{c} P C L \quad \bar{c} P \Delta C^a \sigma^b \quad b \bar{b} L \quad \bar{c} b \bar{c} \Delta^c \bar{c}^C$

ሥባሰብ 26, 2013



Overview ᑕᑦᑭᑦᑭᑦᑭᑦ



► Exploration Update

► Brief Project Overview

- ◆ Highlights on Caribou and Marine Shipping Studies and Plans

► Continued Project Advancement and Success

- ◆ Regulatory approvals
- ◆ Continued public acceptance
- ◆ Market conditions

► What Kiggavik would bring

► ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ

► ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ

- ◆ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ

► ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ

- ◆ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ
- ◆ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ
- ◆ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦᑭᑦ

► ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ ᑭᑦᑭᑦᑭᑦᑭᑦ



- ▶ **Camp operation June-August**
- ▶ **Approximately 35 onsite each day**
- ▶ **Exploration Program – 10,600 metres**
- ▶ **Goal is to increase the resource and extend the mine life**

ΛΓΗΛΔΕΖΗΘ ασθσς



Project Highlights

ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

► Resources

- ◆ 51,000 tonnes U at 0.46%

► Life of Mine

- ◆ 3-4 Years Construction (start early as 2018)
- ◆ Operation for 12 years
- ◆ Decommissioning and monitoring activities from 5-10 years

► ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

- ◆ 51,000 ᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕ 0.46 %ᑦᑕᑦᑕ

► ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

- ◆ 3-4 ᐱᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ (ᐱᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ 2018)
- ◆ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕ 12
- ◆ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ (ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ 5-10ᑦᑕᑦᑕ)



$$\Lambda^c \cap \mathcal{N} \triangleleft \mathcal{N}^a \sigma^b \quad \mathcal{M}^c \supseteq \mathcal{M}^a \triangleleft \Delta^{\mathfrak{c}_b} \rho \sigma^{\mathfrak{c}_b}$$

◆ 4 open pit and one underground mine

◆ **Mill (3800 tonnes per year of Uranium to be flown south)**

◆ Onsite power

◆ 4 ኢኒፍርድብ ልዩነት ወይም ልዩነት ልዩነት

◆ ሥፍራ በሚገኝ (3800 ርጎች ስር) የሚገኝ የፍጥነት ለውጥ ምን ያህል ነው?

◆ $C^b \prec^a \sigma \quad \Delta P C^b \supset \ulcorner b \urcorner \wedge b$



$$\Lambda^c \subset \mathbb{R}^n \times \mathbb{R}^m \quad \text{and} \quad \Delta^c \subset \mathbb{R}^n \times \mathbb{R}^m$$

► $\Delta^{c_0} \mathcal{M}^c$ $\Delta^a \sigma\text{-J}^{c_0} \mathcal{A}^c$

- [illegible]



- ▶ **Focus of IQ interviews**
- ▶ **Collaborative efforts with companies and GN to gather data**
- ▶ **Assessment using latest scientific and IQ information**
- ▶ **Avoid or minimize potential effects on caribou incorporated into Wildlife Mitigation Plans and project design**


$$\wedge^c \Gamma_n^c \subseteq \Gamma_n^c \subseteq \wedge^c \Gamma_n^c$$

- [illegible]

Marine Transport ᑕᓴᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ



IQ and Engagement identified marine shipping as important to communities.

Based on input:

- ◆ **Baseline Data collection modified**
- ◆ **Yellowcake will be transported by Air only**
- ◆ **Shipping routes will avoid coming too close to the shore**
- ◆ **Shipping procedures will avoid unnecessary noise**
- ◆ **Marine monitors will travel on the barges**

ᐃᓴᐅᐅᑦ ᑦᑕᐅᐅᑦᑕᑦᑕᑦ ᐃᓴᐅᐅᑦ ᑕᓴᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ :

- ◆ ᑦᑕᐅᐅᑦᑕᑦᑕᑦ ᑕᓴᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ
- ◆ ᑦᑕᐅᐅᑦ ᑕᓴᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ
- ◆ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ ᑦᑕᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ
- ◆ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ ᐃᓴᑦᑕᑦᑕᑦ
- ◆ ᑕᓴᐅᐅᑦ ᑦᑕᐅᐅᑦ ᐃᓴᑦᑕᑦᑕᑦ



የፌዴራል ጋራ ጽሑፍ ለጥያቄዎች



- ◆ AREVA's track record ᐱᓕᓴᓂᑦ ᐅᓪᓶᓶᒃᐅ ᐸᐸᐆᐆᐸᓲᓄᓲᑦ
- ◆ Uranium in general ᓇᓵᓴᓂᑦ ᐅᐆᐅᓶᐅᓂᑦᑐᓂᑦ

[illegible]

[illegible][illegible]

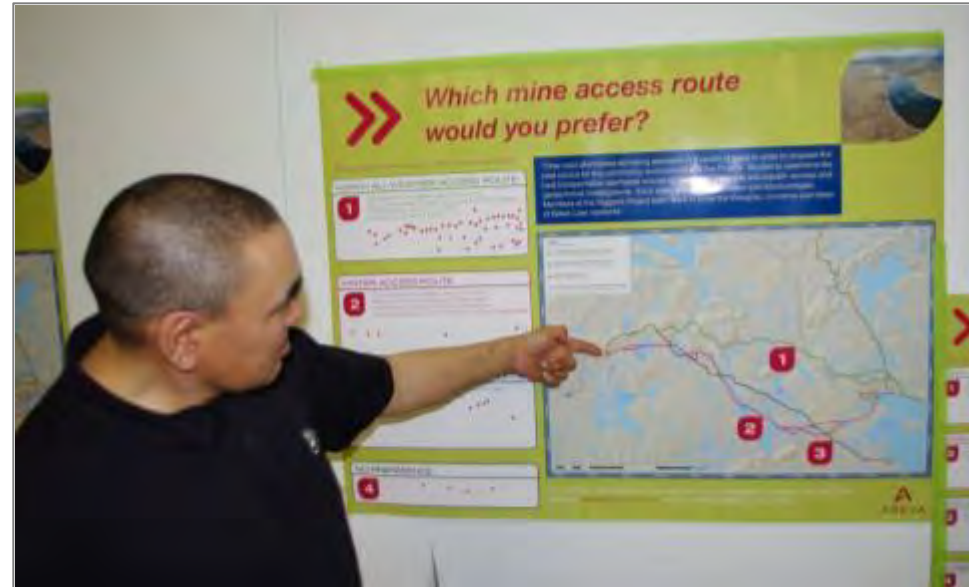
ᐅᓯᐅᑲᓂᑦᓗᓯᑦ ᐱᑦᑎᐅᑲካᓂᑦ ᐅᑦᓯᓯᐱᓂᑦᓯᑦ



Continued Public Acceptance

ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ

- ◆ Engagement
- ◆ Uranium Education
- ◆ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ
- ◆ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ ᑭᑭᑖᑦᑭᑦ



၁၂၃၄၅၆၇- ၈၉၀၁၂၃၄၅၆၇

მედიკოსები

- ◆ **31 visits since 2006**
159 Participants

- ◆ **27 visits since 2006**
115 Participants

- ◆ **10 trips since 2005, 140 visitors**

- ◆ 31 ၵျႃႈ ၵႃႈ 2006
- ◆ 159 ၵႃႈ ၵႃႈ ၵႃႈ

- ◆ 27 ၵᄡᄡᄡ ᄡᄡᄡᄡ 2006ᄡᄡ
- ◆ 115 ᄡᄡᄡᄡᄡ ᄡᄡᄡᄡᄡ

- ◆ 10⁹ጥፍርፍጋቦ
ርዕፍፍጋቦርፍጋቦ 2005ፍ, 140
ርዕፍፍጋቦርፍጋቦ ፍጋፍጋቦ



Ministry of Education and Science of the Republic of Armenia

-
- A photograph showing a group of people seated around a table in a room with yellow walls. A woman in a red jacket is visible, along with others wearing hats. Stacks of blue chairs are in the background.

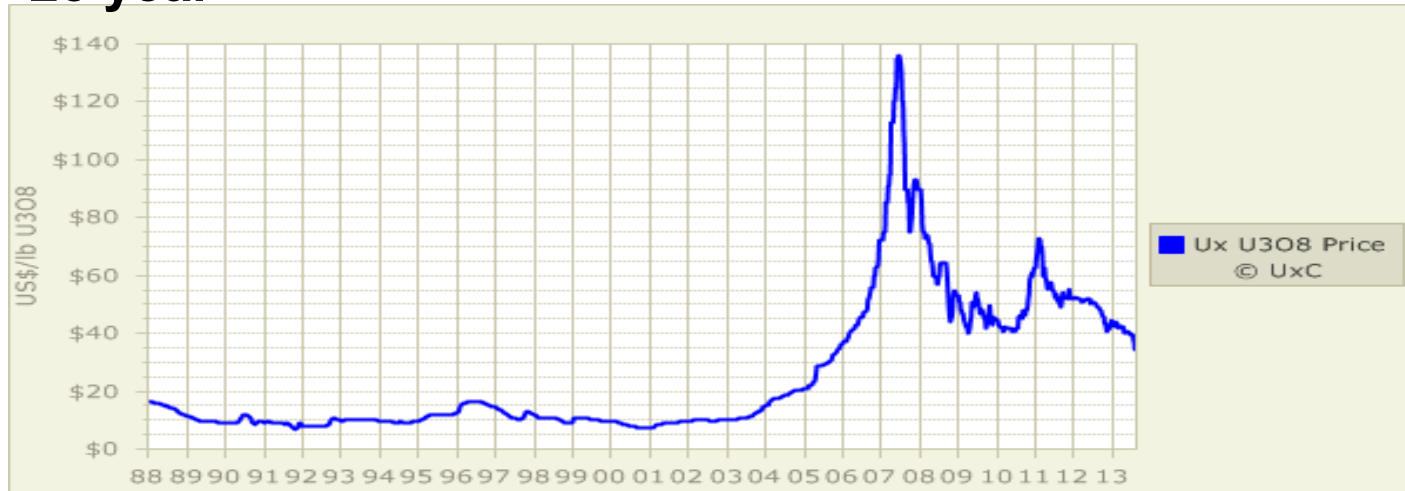
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-

- 

[illegible]

25 year



Five year





C **CONCEPTS**

Total
\$11.95M
\$5.07M
\$3.27M
\$20.29M
\$68.3M
34%
21%

What will Kiggavik bring to Kivalliq Communities

► Community Contributions

- ◆ Annual contributions will be made to each Kivalliq community

- Community priorities will be part of the selection

► To date (Exploration)

- ◆ \$700,000 has been spent between 2006 and 2013

► Saskatchewan (operating mine)

- ◆ \$1,100,000 was spent in Saskatchewan between 2009 and 2011 during mining



► ᓄᓇᓕᓴᓄᑦ ᐃᑲᓪᓴᓂᑦ

- ◆ ᐅᑭᐅᑕᐭᑦ ᐃᑲᓪᓴᓂᑦ ᑭᓴᓕᓴᓂᑦ ᓄᓇᓕᓴᓄᑦ
- ᓄᓇᓕᓴᓄᑦ ᑭᓴᓕᓴᓂᑦ ᓄᓇᓕᓴᓄᑦ

► ᐅᓪᓴᓂᑦ (ᐅᓴᓴᓂᑦ)

- ◆ \$700,000ᑦ ᐅᓴᓴᓂᑦ 2006 ᐅᓴᓴᓂᑦ 2013 ᐅᓴᓴᓂᑦ

► ᓴᓴᓴᓂᑦ (ᐅᓴᓴᓂᑦ ᐅᓴᓴᓂᑦ)

- ◆ \$1,100,000 ᐅᓴᓴᓂᑦ ᓴᓴᓴᓂᑦ 2009 ᐅᓴᓴᓂᑦ 2011 ᐅᓴᓴᓂᑦ



- [illegible]

- ◆ **Meetings are held in Baker Lake and Rankin Inlet**
 ᑲᐱᓕᓚᔨᔭᒃ ᑯᐅᑦᑳᔪᔭᒃ ᖃᑲᓚᔨᔭᑦᑐᐸᖃᓂᓄᓗ ᐸᓚᔭᑦ ᑲᖃᓴᖃᑦᓇᔭᔭᔭᓂᖃᓄᓗ
- ◆ **Meetings conducted in 2012 and 2013**
 ᑲᐱᓕᓚᓂᓴᓰᔭᔭᒃ ᓚᔭᑦᑲᑦᑐᐸᔭᔭᒃ ᑯᓶᑯᖃᓴᓂᓄᓗ 2012 ᐸᓚᓚᔭᑦ 2013
- ◆ **Next Meeting October 2013 in Baker Lake**
 ᑲᐱᓚᓚᔭᔭᒃᐸᔭᒃ ᐸᑦᑐᙵᑦᑦ 2013 ᖃᑲᓚᔨᔭᑦᑐᐸᖃᓂᓄᓗ





AREVA

forward-looking energy

Barry McCallum, Manager, Nunavut Affairs

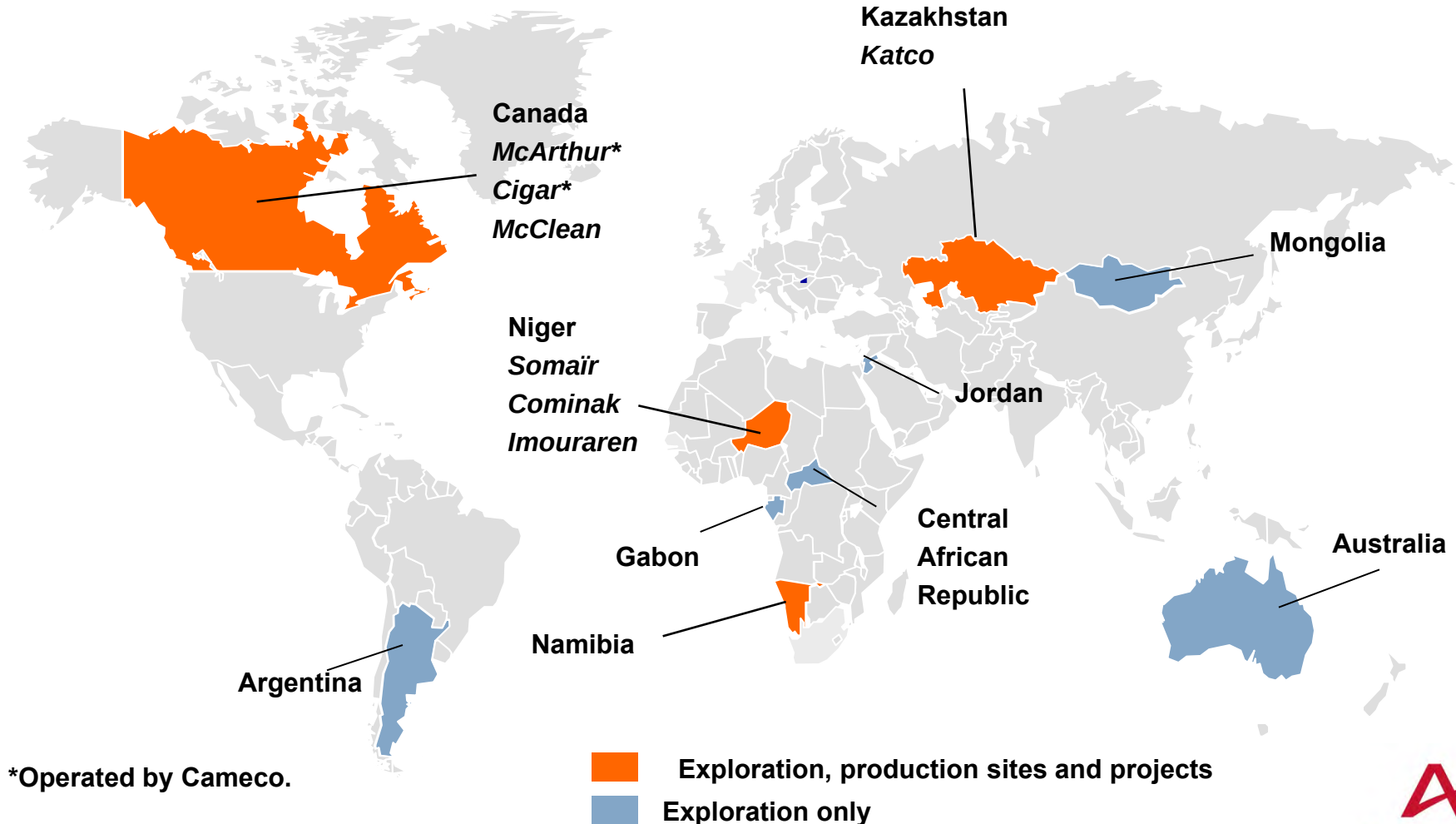
October 2013, Rankin Inlet

Contents

- ▶ Uranium Overview
- ▶ Radiation: Commodity specific hazard
- ▶ Managing Radiation
- ▶ Performance at uranium mine sites
- ▶ UO_2 and UO_2F_2
- ▶ UO_2 and UO_2F_2 : UO_2 and UO_2F_2 UO_2 and UO_2F_2
- ▶ UO_2 and UO_2F_2 UO_2 and UO_2F_2
- ▶ UO_2 and UO_2F_2 UO_2 and UO_2F_2

Uranium Overview

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Uranium Overview

ኢትዮጵያ ሪፖርት

Uranium 2012 world production

Canada

- 4% since 2006

9,100

Kazakhstan

20,900 +400% since 2006

Niger

4,800 + 39% since 2006

Namibia

4,300 + 77% since 2006

Australia

7,900 + 11% since 2006

Top 6 countries

85 % of overall

1. Kazakhstan 35%
2. Canada 15%
3. Australia 13%
4. Niger 8%
5. Namibia 7%
6. Russia 6%



59,000 t or 153 million lbs
+8% annual growth



production 2012 (tU)

Source: AREVA estimates from companies reports and WNA

Uranium Overview

ᐱᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ

► Gold mine

- ◆ Background level: trace
- ◆ Average mining grade: 1 - 2 ppm

► Uranium Mine

- ◆ Background level: 2 – 4 ppm
- ◆ Average grade worldwide: 5000 ppm
- ◆ Saskatchewan High Grade: 200,000 ppm

► ᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ

- ◆ ᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸ: ᐸᐸᐸᐸᐸᐸᐸᐸᐸ
- ◆ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ: 1-2 ᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸ

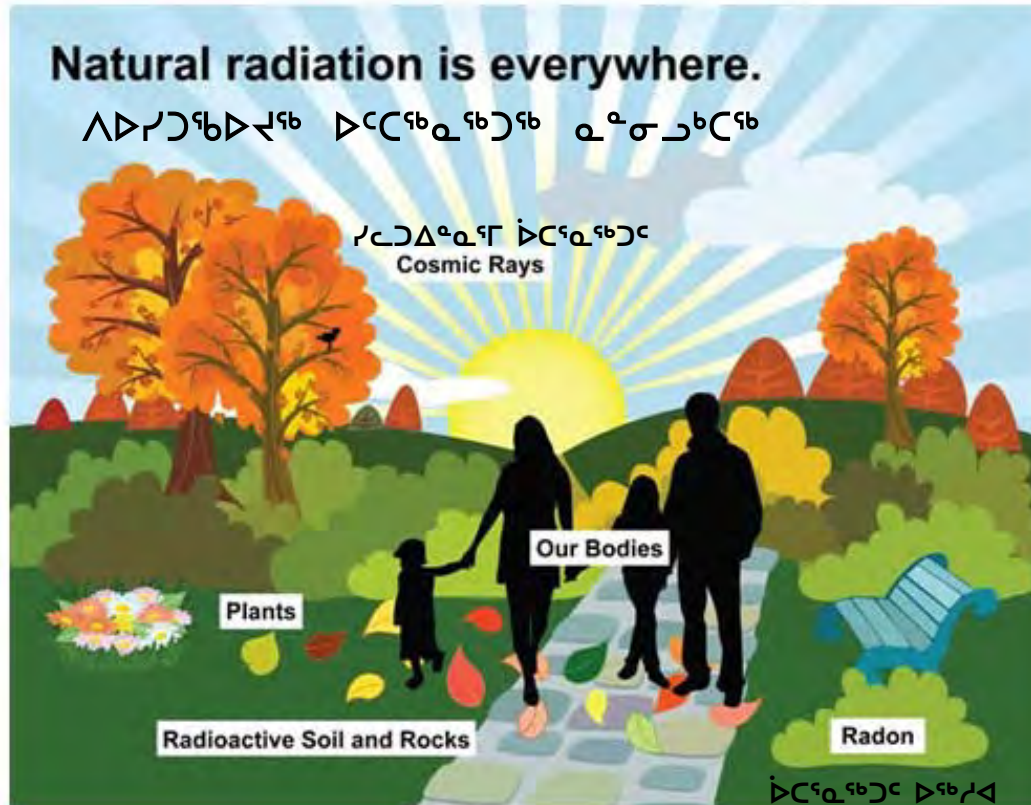
► ᐱᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸ

- ◆ ᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸ: 1-4 ᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸ
- ◆ ᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸ: 5000 ᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸ
- ◆ ᐸᐸᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸᐸᐸᐸ: 200,000 ᐸᐸᐸᐸᐸᐸ ᐸᐸᐸᐸᐸᐸ



Uranium Overview

ሕይወትና ሰውነት ላይ ያለው ራዲዮአክቲቭ ጥፋት



► Natural Background Radiation Sources

- ◆ Cosmic radiation
- ◆ Terrestrial radiation
- ◆ Intakes through
 - Inhalation
 - Ingestion

► ለሕይወትና ሰውነት ላይ ያለው ራዲዮአክቲቭ ጥፋት

- ◆ የሰውነት ሰውነት ራዲዮአክቲቭ ጥፋት
- ◆ የሕይወትና ሰውነት ላይ ያለው ራዲዮአክቲቭ ጥፋት
- ◆ ለሕይወትና ሰውነት ላይ ያለው ራዲዮአክቲቭ ጥፋት
 - የሰውነት ሰውነት ራዲዮአክቲቭ ጥፋት
 - የሕይወትና ሰውነት ላይ ያለው ራዲዮአክቲቭ ጥፋት

[illegible]

► လုပ်ငန်းစဉ် ဖွဲ့စည်းပုံ
အုပ်စုဖွဲ့စည်းပုံ

- [illegible]



Uranium Overview

ሂሳብና ምርጫ



Power Production Equivalents

1 uranium fuel pellet =



1 ton of coal



17,000 cubic feet
of natural gas



5,000 pounds of wood



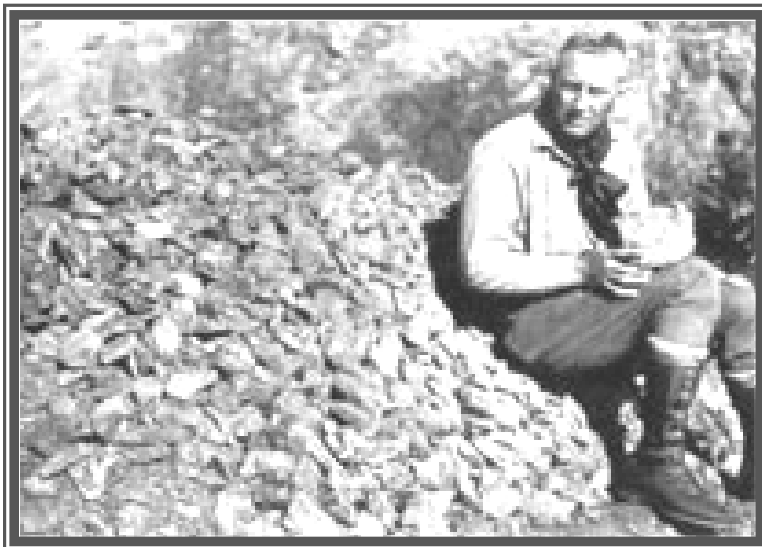
149 gallons of oil

Source: Nuclear Energy Institute

History of Radiation Doses: Radon Uranium Discovery

የሚገኝበት ምርጫውም ስለሚባል ሲሆን ለሰላም ምርጫውም ሲሆን ለሰላም ምርጫውም ሲሆን

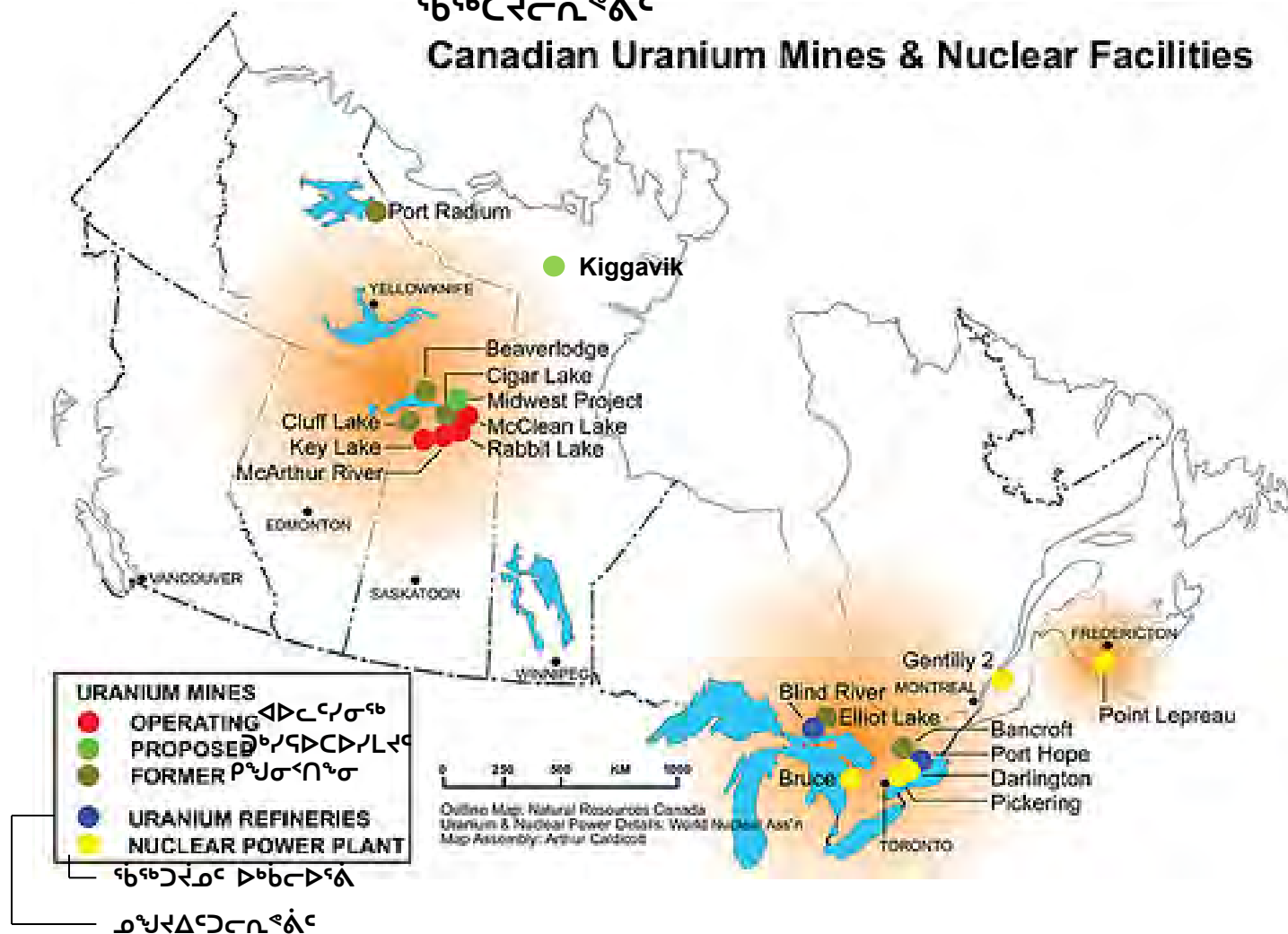
- ▶ In 1931, at Great Bear Lake, prospector Gilbert Labine discovered the first uranium deposit.
- ▶ Port Radium, in the Northwest Territories, was the location of the first uranium mine site.
- ▶ 1931-፲ ሀገር ለሰላም ምርጫውም ሲሆን ለሰላም ምርጫውም ሲሆን ለሰላም ምርጫውም ሲሆን
- ▶ ለሰላም ምርጫውም ሲሆን ለሰላም ምርጫውም ሲሆን ለሰላም ምርጫውም ሲሆን



ᐱᓄᓂᐅᒃ ᐸᓄᓂᐅᓕᓗᑭ

ბედი ოქტომბრის 15-სა და 16-ს შორის
 ოქტომბრის 15-სა და 16-ს შორის

Canadian Uranium Mines & Nuclear Facilities



Port Radium

[illegible]

Radiation: Commodity Specific Hazard

ᐅᑕᓐᓇᓐᓂᓐᓂᓐ: ᐱᑕᑕᑕᑕ ᐱᑕᑕᑕᑕ ᐱᑕᑕᑕᑕᑕᑕᑕᑕᑕᑕ

INTERNATIONAL OVERSIGHT ᐅᓐᓂᑕᑕᑕᑕᑕᑕ ᓐᓂᐅᓐᓂᑕᑕᑕᑕᑕᑕ

UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
ICRP	International Commission on Radiological Protection
IAEA	International Atomic Energy Agency
WHO	World Health Organization



INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION



Radiation: Commodity Specific Hazard

▶ርኅፌጥኛ: ለርጋብግ ለፈለገው ሥራ ለሚያስፈልግበት



▶ Exposure effects have been well studied

▶ ዲፕሎማሲ ለፍጥነት ሥራ ለሚያስፈልግበት

Cohort Studies (a partial list)	Number of People
ዲፕሎማሲ ሥራ ለሚያስፈልግበት (ለፈለገው ሥራ ለሚያስፈልግበት)	ለፈለገው ሥራ ለሚያስፈልግበት
Survivors of the atomic bombings of Japan	86,611
Mayak Worker Study	21,000+
Techa River Study	29,873
Semipalatinsk Weapons Test Site	10,000+
International Worker Study	407,391
Worker and Public Exposure to Uranium	120,000+
US Medical Radiologic Technologists	146,022

Source: UNSCEAR 2006 Report Vol 1, Annex A

Radiation: Commodity Specific Hazard

ᐅᑕᖃᓄᖃᑦᑦ: ᐱᑦᑕᑕᑕᑕ ᐱᑦᑕᑕᑕᑕ ᐱᑦᑕᑕᑕᑕᑕᑕᑕᑕ

► Easily measured

► ᖃᐅᑦᑕᑕᑕᑕᑕᑕᑕᑕ ᐅᑕᑕᑕᑕᑕᑕᑕᑕᑕ



Radiation: Commodity Specific Hazard

▶ ርዕሰ ጉዳዮች: ለግብረ ሰው ልዩ ጉዳዮች ማረጋገጫ

- ▶ Low specific radioactivity
- ▶ Not flammable
- ▶ Very low solubility
- ▶ Stable form of uranium
- ▶ Generally handled as other heavy metals
- ▶ የፈሳሽነት ጥንቃቄ ምርመራ
- ▶ ለፍጥነት ምርመራ
- ▶ ለፍጥነት ምርመራ ለፍጥነት ምርመራ
- ▶ ለፍጥነት ምርመራ ለፍጥነት ምርመራ
- ▶ ለፍጥነት ምርመራ ለፍጥነት ምርመራ



Un-calcined Yellowcake



Calcined Yellowcake

ለፍጥነት ለማግኘት ለሚችሉት ሁሉም ሰራተኛችን ምስጋናዎቻችንን ይገልጻል።

► ገጠኞችና ገጠናዊ ልማት:

- [illegible]



ለፍጥነት ለማግኘት ለሚገባው ምርጫ ማህበረሰብ፡ ብቻ ለሚገኝ ምርጫ ማህበረሰብ

► ΓΔ^αΓσ_n $\rightarrow$ Δ^ασ_n $\in$ CL^c/L
Δ^c∇_Δ:

◆ $\Delta^c c^a \sigma \Delta^{fb} J \quad \Delta L^c J$
 $f_b \Delta^c J \Delta^c \sigma b^c \quad f_b \Delta^c J \Delta^c J \Delta^c f_b$

- [illegible]



[illegible]

▶ **ΓΔσΛωΓ^c Λ^bδΔ Δω⁹βΠΓ^c:**

◆ ልዩ ጥያቄዎች

- [illegible]



AREVA
forward-looking energy

► **CNSC Inspections confirmed that:**

- CNSC** የኔዘርላንድስ ሪፖብሊክ ኢንተርናሽናል ሲቪል ኒውክሌየር ሳፊቲ አካል፡

- Source: CNSC Staff Report on the Performance of Canadian Uranium Fuel Cycle and Processing Facilities: 2011**





PLA^bΓ ΛCΠΔ^aJΛC

Presentation to the Kivalliq Wildlife Board

October, 2013

$\triangleright^{\flat} \triangleright^{\flat} \triangleright^{\flat} \sigma \triangleleft^{\circ}$ $\rho \leq^{\circ} \subset^{\flat} \Gamma$ $\triangleright^L L \triangleleft^{\circ} \cup \triangleright^{\flat} \triangleleft^{\circ}$ $b \cap^L L \triangleright^{\flat} \rho \cdot^{\circ}$

▷^b▷[<]∧₀ 2013



ΛαοαυΔελ< 2020

[illegible]

**ደብረመስቀል ልጅ ክርስቲያን
አርካቢ JCU ዎች ልሊት
DAEWOOD ዎች**



Project Highlights

ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

► Resources

- ◆ 51,000 tonnes U at 0.46%

► Life of Mine

- ◆ 3-4 Years Construction (start early as 2018)
- ◆ Operation for 12 years
- ◆ Decommissioning and monitoring activities from 5-10 years

► ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

- ◆ 51,000 ᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ 0.46 % ᑕᑦᑕᑦᑕ

► ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ

- ◆ 3-4 ᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ (ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ 2018)
- ◆ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕ 12
- ◆ ᐱᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᑦᑕᑦᑕᑦᑕ 5-10ᑦᑕᑦᑕ



$\Lambda^c \subset \mathcal{N} \triangleleft \mathcal{N}^a \sigma^b$ $\mathcal{M}^c \supset \mathcal{M}^a \triangleleft \Delta^{\mathfrak{b}} \rho \sigma^{\mathfrak{b}}$

▶ $\Delta^{\leq \mathfrak{d} \cap \mathcal{C}}$ $\Delta^{\leq \sigma \cup \mathfrak{b} \cap \mathcal{C}}$

- ◆ $\Delta^b P \Delta^a Q \rightarrow \Delta^c P \Delta^d Q$ (if $a \leq c$ and $b \leq d$)
- ◆ $\Delta^c \Delta^b P \rightarrow \Delta^c P$ (if $b \leq c$)
- ◆ $\Delta^c \Delta^b P \rightarrow \Delta^b P$ (if $c \leq b$)



ᐃᑦᑎᓕᓂᓐᓂᓐᓂᓐ ᑕᑦᑎᓕᐃᓂᓐᓂᓐᓂᓐ ᐃᑦᑎᓕᓂᓐᓂᓐᓂᓐ



[illegible]

Technical Meetings, Community Roundtable and Pre-Hearing Conference	May- June 2013	ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦ ᑭᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦ	LΔ - ᑭᑦᓴᑦᓴᑦ 2013
Submission of Final Environmental Impact Statement	Sep 2014	ᐅᑲᑦᓴᑦᓴᑦᓴᑦ ᑭᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦ	ᑭᑦᓴᑦᓴᑦ 2014
Final Hearing and Project Certificate	2015	ᑭᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ	2015
Licensing and Approvals	2015+	ᑭᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦ ᐅᑲᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦᓴᑦ	2015+

Caribou Studies

ᑕᑭᑖᑕᑖ ᑭᑭᑖᑕᑖ ᑭᑭᑖᑕᑖ ᑭᑭᑖᑕᑖ



Caribou studies include:

- Inuit Qaujimajatuqangit (IQ) Studies
- Height-of-Land Surveys
- Aerial Surveys (2007, 2008)
- Caribou Satellite Collars (2009-present)
- Hunter Harvest Study
- Tissue Chemistry

Examining the ways that the proposed Project and the environment may interact and then assessing potential change in:

- Habitat availability
- Mortality
- Movement
- Health



ጋፊጋፍ ፍፅላት ምጋፊጋፍ

- $\Delta\omega\Delta^C$ ንጥረነጥረ ንጥረነጥረ (ፈጠራ)
- $\gamma\omega\omega^C$ ሙሉሲ $\omega\omega\omega\Delta^C$ ንጥረነጥረ ንጥረነጥረ
- ንጥረነጥረ ንጥረነጥረ (2007, 2008)
- ጋራጋጋ ንጥረነጥረ ንጥረነጥረ ንጥረነጥረ (2009- ለፊት)
- ለጥራት ለጥራት ንጥረነጥረ ንጥረነጥረ
- ለጥራት ንጥረነጥረ ንጥረነጥረ ንጥረነጥረ

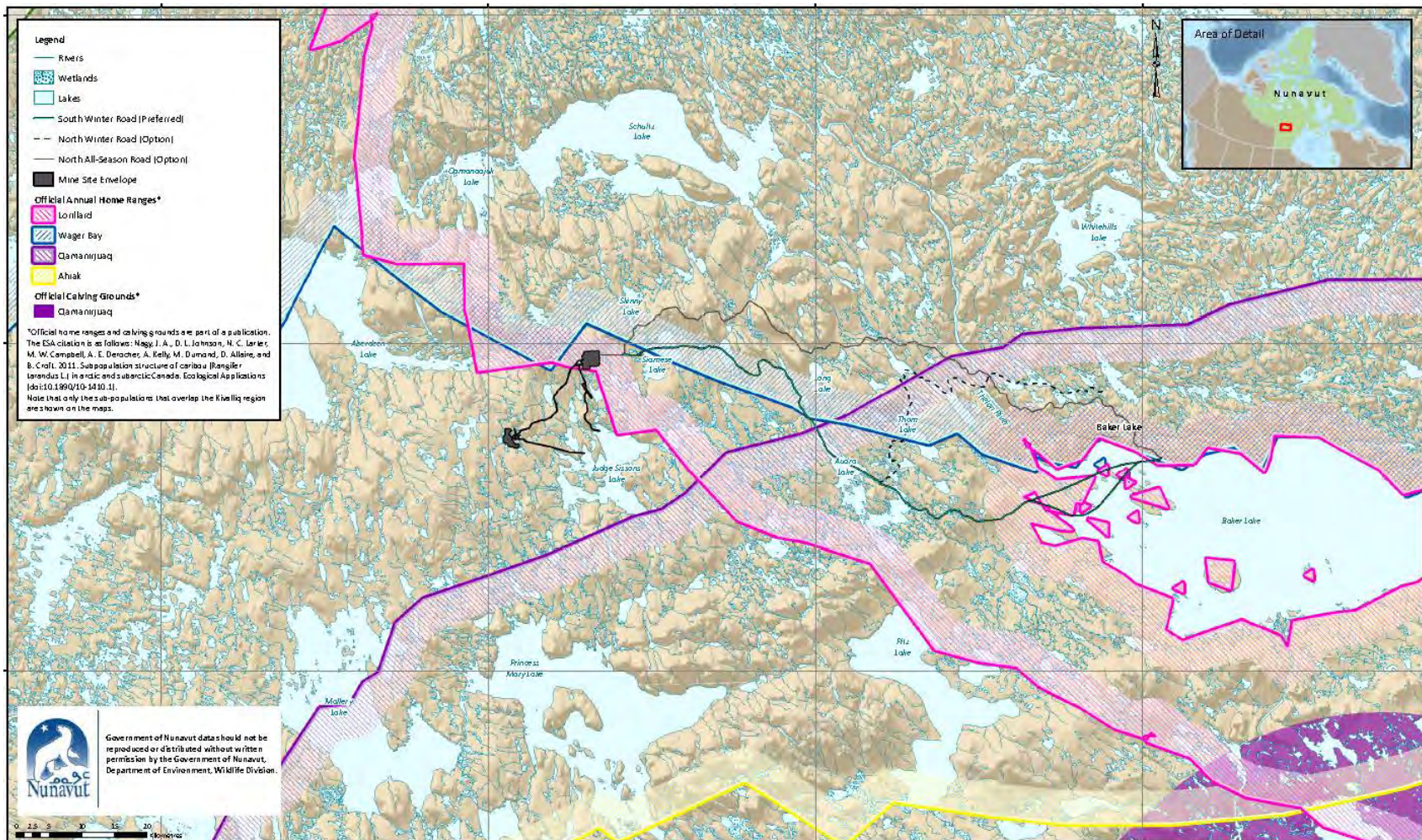
የፌዴራል የኢንቨስትመንት ባንክ

ለኅገረሰልጣኔ ልረጋ ልግባሩ
ለክርስቲያን ልረጋ ክርስቲያኒያን
ለርክፍክርክፍ

- $\Delta^a \sigma^b \rho^c \omega^d \rightarrow \Delta^a \sigma^b \rho^c \omega^d$
- $\omega^a \rho^b \omega^c \rightarrow \omega^a \rho^b \omega^c$
- $\Delta^a \sigma^b \rho^c \omega^d \rightarrow \Delta^a \sigma^b \rho^c \omega^d$
- $\Delta^a \sigma^b \rho^c \omega^d \rightarrow \Delta^a \sigma^b \rho^c \omega^d$



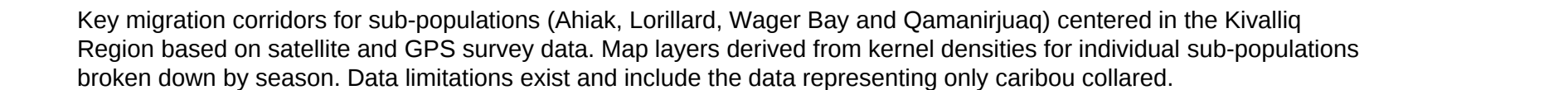
የህገ፡አገሩ ለፍጥነት ለማድረግ ምክር ቤቱ



כ"כ א' אדר א' תשפ"ב

▷^cΛ^aℓ^d (◁Δ^cℓ^c-^cℓ^c◁^c)

▷^bρ◁^b↳^c (↯^c∧↯^c⊢^c⊥^c↯^c∧↯^c⊢^c⊥^c)





- Caribou Water Crossings**

 -  Protected Crossings^
 -  Unprotected, but Known Crossings
 -  Additional Crossings Identified by IQ Studies



 Additional Crossings Identified by IQ Studies

- 

Mitigation – Caribou

ᐱᑦᑐᐱᑦᐃᐱᑦ – ᑐᑲᑐᐱᑦ



► **Mortality** mitigation includes:

- ◆ Reduced speed limits to avoid collisions
- ◆ Temporary road shutdowns during migration events

► **Habitat** availability mitigation includes:

- ◆ Progressive reclamation of disturbed areas and final decommissioning
- ◆ Dust suppression

► **Movement** mitigation includes:

- ◆ Reduced road embankment height and snow bank management
- ◆ Minimized use of physical barriers (e.g., fencing)

► **Health** mitigation includes:

- ◆ Reduced speed limits and dust suppression
- ◆ Air pollution controls on exhaust stacks

Mitigation – Caribou

ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ – ᑐᑲᑐᐱᑦ



▶ ᐃᑦᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦ:

- ◆ ᐃᑦᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦ
- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦ
- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦ

▶ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ:

- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ
- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ

▶ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ:

- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ
- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ

▶ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ:

- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ
- ◆ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦᐃᑦ ᐱᑦᑐᐱᑦᐃᑦᐃᑦᐃᑦ

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- A man in a green jacket and cap is using binoculars to observe a vast, flat, open landscape under a cloudy sky. Another person is lying down in the background.

$\Delta^b b \leftarrow^{\mathfrak{f}b} \sigma^{\mathfrak{f}b} \sigma \leftarrow^{\mathfrak{f}b} \quad \rho \triangleright^c \supset \cap \leftarrow \rho$
 $\wedge^c \subset \cup \Delta \cap \rho \leftarrow^{\mathfrak{f}c} \subset \cap^{\circ} \circ \quad \leftarrow^L L \supset$
 $\mathfrak{f}b \triangleright \rho \mathfrak{f}b \sigma \triangleright \sigma \leftarrow^{\mathfrak{f}c} \supset \circ^c$





Examining the ways that the proposed Project and the environment may interact and then assessing potential change in:

- Mortality
- Change in Behaviour

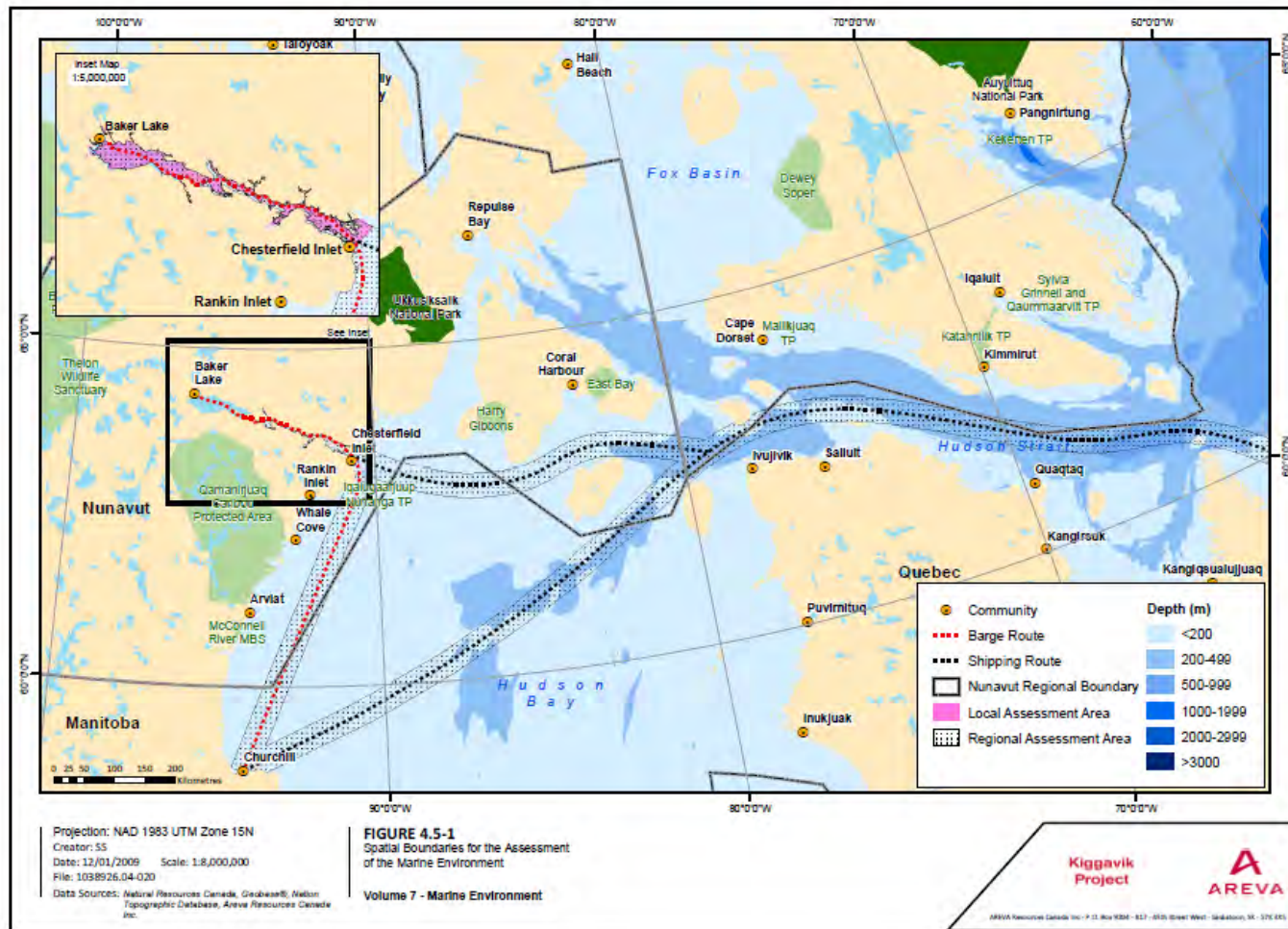


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- $\Delta \triangleright^{\text{a}} \Gamma \cap \Gamma \dot{\sigma}^c$
- $\Delta \triangleright^{\text{a}} \Gamma \dot{\sigma}^c \quad \Delta \triangleright^{\text{a}} \Gamma \dot{\sigma}^c \quad \Delta \triangleright^{\text{a}} \Gamma \dot{\sigma}^c$

Marine Environment, Marine Assessment Areas

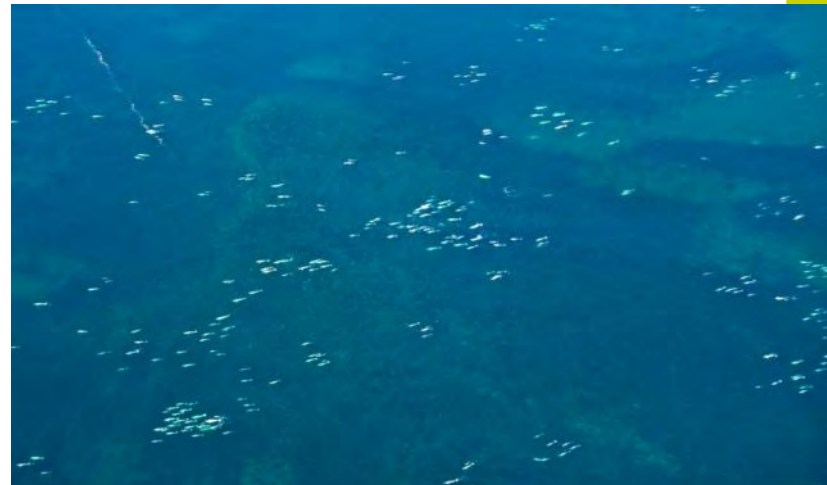
ᑕᓕᑦᑕᑦᑕᑦᑕ ᑦᑕᑦᑕᑦᑕᑦᑕ, ᑦᑕᑦᑕᑦᑕᑦᑕ ᑕᓕᑦᑕᑦᑕ ᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦᑕ



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- ▶ **Mortality** mitigation includes:
 - ◆ Reduced speed limits to avoid collisions



- ▶ **Change in Behaviour** mitigation includes:
 - ◆ Routes will be selected to avoid marine mammals
 - ◆ Noise will be minimized with well-maintained vessels and speed control
 - ◆ Vessels will be well maintained to reduce noise

$\Delta^b b \leftarrow^{\mathfrak{f}b} \sigma^{\mathfrak{f}b} \sigma \leftarrow^{\mathfrak{f}b} \quad \rho \triangleright^c \supset \cap \leftarrow \rho$
 $\wedge^c \subset \cup \Delta \cap \rho \leftarrow^{\mathfrak{f}c} \subset \cap^{\circ} \circ \quad \leftarrow^L L \supset$
 $\mathfrak{f}b \triangleright \rho \mathfrak{f} \mathfrak{f}b \sigma \triangleright \sigma \leftarrow^{\mathfrak{f}c} \supset \circ^c$

[illegible]

- [illegible]

