

Inuit Qaujimajatuqangit

Land Use, Significance, Context, Monitoring

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Diane Martens, HSE Project Manager Cムケ゜ L≦ロト, ヘーへん JC ベレーイト SMA Environmental Forum Saskatoon, Saskatchewan October 19, 2016



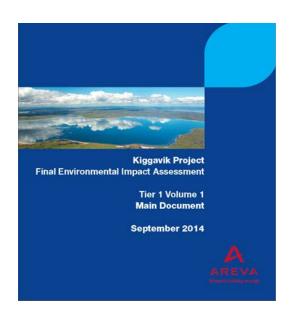
Overview Cbdld_lc

- The Proposed Kiggavik Project
- Inuit Qaujimajatuqangit (IQ)
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assessment of effects

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context - a layered landscape







Project Location



Recent and Proposed Site







Project Not to Proceed at this Time

▶ NIRB "concludes that the Project should not proceed at this time. The Board does not intent that this Project not proceed at any time. The Board intends that that the Kiggavik Project may be re-submitted for consideration at such future time when increased certainty in start date can be provided." Correspondence dated May 8, 2015 from Copland to Valcourt; July 4, 2016 the responsible Minister agrees.

Milestone	Date
Kiggavik Project revitalized. Office opened in Baker Lake	2006
Submission of project proposal	November 2008
DEIS submission	January 2012 / April 2012
Technical Meetings, Community Roundtable, and Pre-Hearing Conference (PHC)	May/June 2013
NIRB issues PHC report	July 2013
FEIS Submission	September 2014
Kiggavik Final Hearing in Baker Lake, Nunavut	March 2015
NIRB issues the final hearing report and recommendation to Minister of AANDC	May 2015
Minister of Indigenous and Northern Affairs Decision	July 2016



Inuit Qaujimajatuqangit (IQ) ムムム もりとしょうもゃい







Interviews, Focus Groups, Workshops ላለጭረጭርኦቲና, ጋናርኦቲና, ԵበL균•ሪና Δሮኖታላቴበቦና

- 18 Field studies/interviews in Baker Lake in 2008
- ▶ 13 focus groups (80 participants) in seven Kivalliq communities in 2009
- 9 review and spatial validation meetings (68 participants) in 2011

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- Meaning and holders of IQ in Baker Lake with nine Elders in 2013**
- Workshop in Baker Lake to discuss IQ and western science interface and alignment and discrepancies in 2014
- Secondary IQ sources including the Nunavut Atlas, the KIA online land management application, and others

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IQ – Non Spatial Data

Effects Assessment / <いろとも いっとしているといっている。

- Baseline
- Scoping
 - Project-Environment Interactions
 - Valued Components, Indicators, Measurable Parameters
 - Assessment Boundaries (spatial, temporal, administrative, technical)
- Assessment of effects
 - Mitigation and Project Design
 - Monitoring and Compliance
 - Significance
 - Cumulative Effects/ Other Projects
 - Climate Change
- Project Design
- Decommissioning
- Accidents and Malfunctions
- IQ principles

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2008102), sod houses (IQ-BL01 2008103, IQ-BL04 2008104, and IQ-BL18 2008105), old bones (IQ-BL10 2008106 and IQ-BL11 2008107), caches (IQ-BL02 2008106 and IQ-BL12 2008109) and kayak stands (IQ-BL18 2008110). Such features were identified with the aid of local assistants at a number of sites recorded during baseline studies (Appendix 9B).

The majority of Spiritual Sites discussed in interviews seem to occur along Schultz and Qamanaajuk Lakes, which are over 12 km north of the LAA. Several accounts relate to a large, often foggy hill that cannot be passed or where people get lost (IQ-BL02 2008¹¹¹; IQ-BL06 2008¹¹²; IQ-BL06 2008¹¹³; IQ-BL13 2008¹¹⁴; IQ-BL16 2008¹¹⁵). Areas closer to the LAA were identified, including a foggy hill at the north end of Long Lake (IQ-BL14 2008116), and another hill at the "end of Anigguq Lake on the west side" called Ijijalik (IQ-BL13 2008). However, these spiritual sites are in excess of 1 km from the LAA. Elders also described sites along the travel corridor between Baker Lake and Back River that were spiritual in nature, including graves (IQ-Cumberland 2005). None of the local assistants who accompanied the baseline archaeological surveys between 2007 and 2013 identified spiritual sites within the LAA.

AREVA Resources Cenede Inc. Kiggevik Project FEIG September 2014

Ther 2 Volume 9: Socio-Economic Environment and Community - Part 2 - Heritage Resources Section 4: Scope of the Assessment, Anthewological Resources

Attachment A - IQ and Engagement Roadmap

		Security of the Security		
Comments	EN or IQ	Comment Reference	FEIS Section Where Integrated	Notes
People camped at the Kazan River in the spring, pitching tents on a hill so that they could see all around.	Ø		Tier 2, Volume 6, Section 5.1; Volume 6, Executive Summary	Importance of terrain: Hills were used for camping sites
But through Hagilq, the road would block people from going fishing and stop people going to Qikiqqtaujaq to pick goose eggs. Although personally I never went there to pick goose eggs, I know that around Mihaluk there could be a lot of goose eggs because that's the nesting ground for geese. The caribou also usually walk through this area in the spring.		BL06 2008	Tier 2, Volume 6, Section 11.2	Road options and terrestrial wildlife
Hagilq is a very important place, so people will be upset if road were built there. That area is used for camping every spring, to hunt, fish or just spend time with family. It's even used in winter. As for this area around the Theion River, people travel up river by boat, but only in the summer, and they can travel by land too. I would prefer they build the road to cross the Theion River, because it would be better that way.	10	BL17 2008	Tier 2, Volume 6, Section 11.2	Road options
When doing open pit mining how do you control dust (blasting), blast patterns and dust suppressants. What are alpha, beta, and gamma?	EN		Vol.4. Section 4.1	Used in project design. Influenced the scope of the air dispersion modelling assessment. Blasting was assessed through air dispersion modelling.
1) Caribou is our primary food here. Qamanirjuaq herd is calving close to site. is there a disturbance that could happen?	EN		Teir 3 Appendix 6C Section 5.7.1.4	Caribou calving



¹⁰¹ IQ-BL12 2008: My ancestors also lived there, even the ones I don't know. There are a lot of tent rings.

⁸⁰ IQ-BL17 2008: Iglurjuelik is one of the main crossings too. There are lots of caribou around. There are tent rings all around.

to IQ-BL01 2008: Where I live there are old archeeological sites that are far apart, like insksuk and old sod houses (some here sunken

the IQ-BL04 2008: There use to be a lot of tent rings at around Germanaerjuk. I only know of old sod houses and tent rings.

¹⁰ IQ-BL18 2008: I have seen very, very old sod houses that were built even before I was born between Rankin Inlet and Kazan River. They are so old plents and lichen were starting to grow on the rocks:

*** IQ-BL10 2008: There are lots of bones of musk ox, or of something else I don't know.

¹⁰ IQ-BL11 2008: On the north side there's a long hill, and on the edge of the hill there are very old bones gathered together.

¹⁰⁴ IQ-BL02 2008: There is also very old storage, still set up properly and standing upright and high. There are more old storages and an old sod house at the inlet at Kangiggluk (Aberdeen Inlet).

⁶⁸ IG-BL12 2008: There are old sites around the land we use to live (GMoptarjusIM) because hulf have lived there for long time. There are also old storages there. 113 IQ-BL18 2008: I also have seen those rocks formed in a V-shape that are stands for gajags.

¹¹¹ IQ-BL02 2008: It is said a thick fog forms as you go on top of that hill, and you start to get really happy, and start playing while you are

¹¹² IQ-BLD6 2008: The only area I have heard about is Qangiquaguk. There's a hill you cannot go to or go through, because something

¹¹³ IQ-BLD9 2008: The only spiritual site I have heard about is the one close to the Theton Fiver. There's a hill that gets fuggy, I heard of it as Kinnge lusq. I heard you cannot go there or pass through.

¹¹⁴ IQ-BL13 2008: The only spiritual site i have heard about is around the area where we cached meet, on the south side of Schultz Leke, at a high hill. You cannot go through the lower part of the hill because there is a muid area that can calch and kill carbou.

¹⁰⁸ IQ-Bi-16 2005: One (spiritual shift) inever forget is beside the Kangingluejuk area. I think they call that spot Kivvest. You can get loot there. That hill gets really foggy too. While you are there, you just go in circles and cen get lost in the fog, although you can get out of it.

¹⁰⁴ IQ-BL14 2008: I know of an area where you are not allowed to go to, all around fronth end of Long Lake] including the whole hill there.

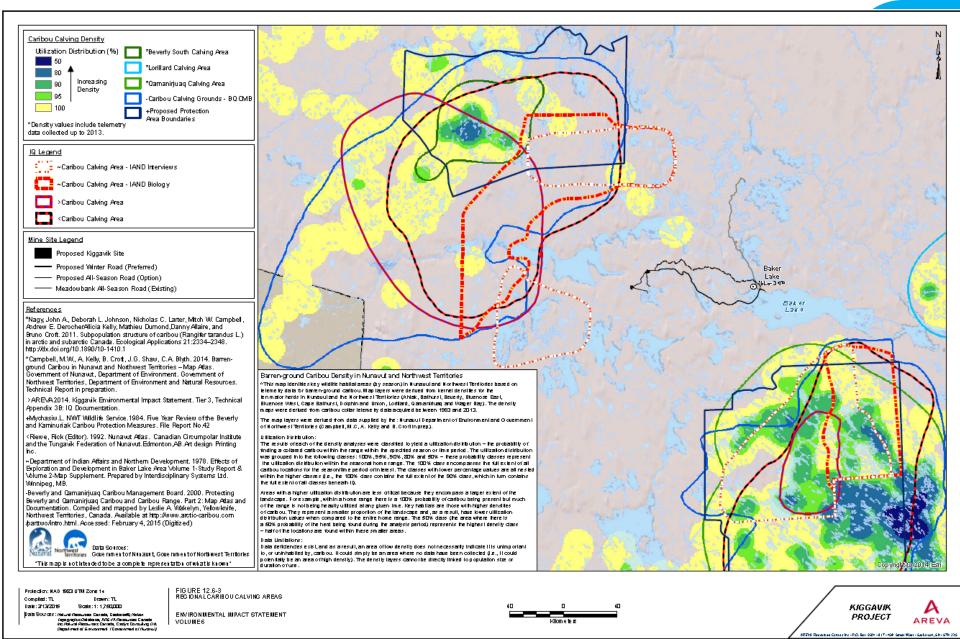
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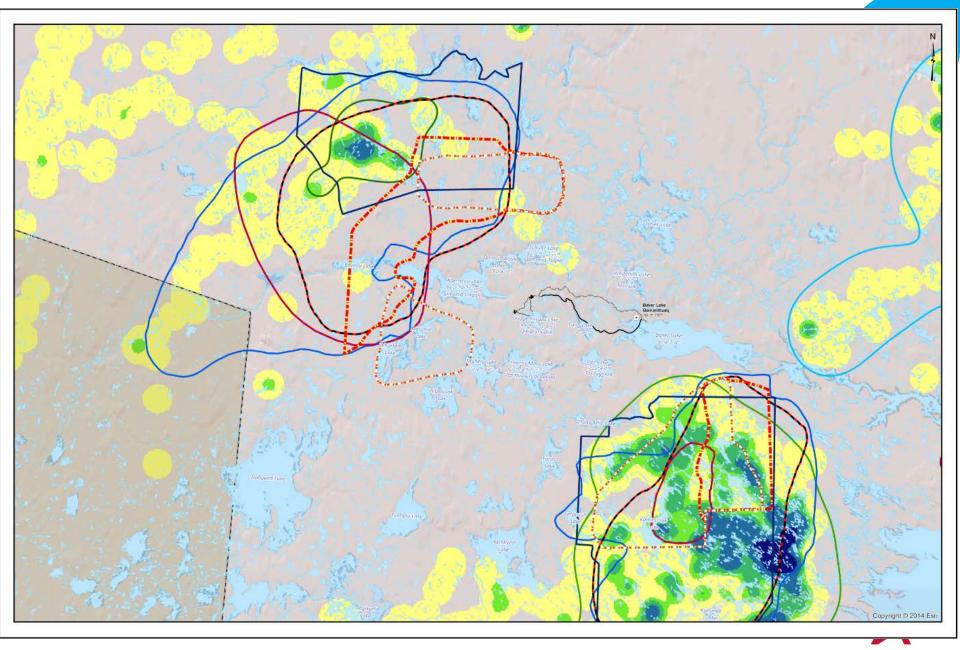




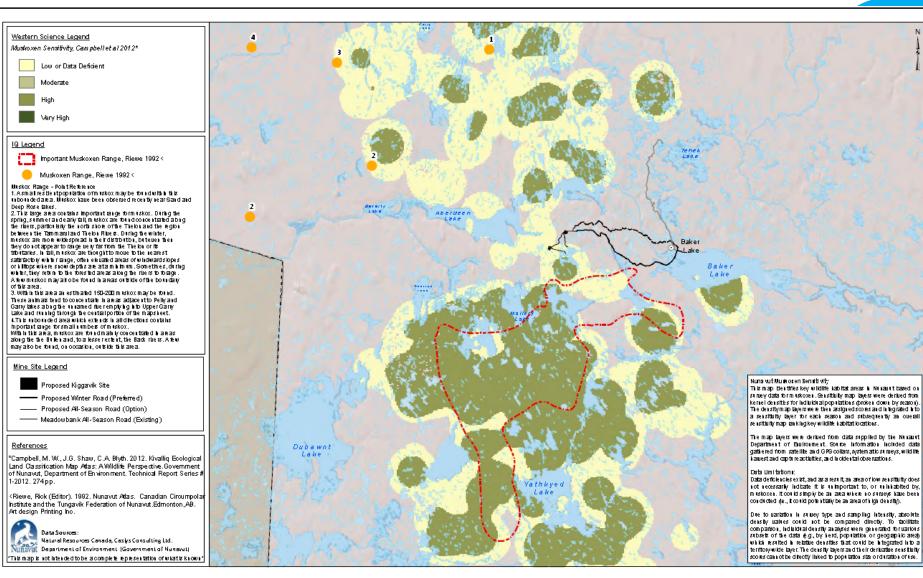












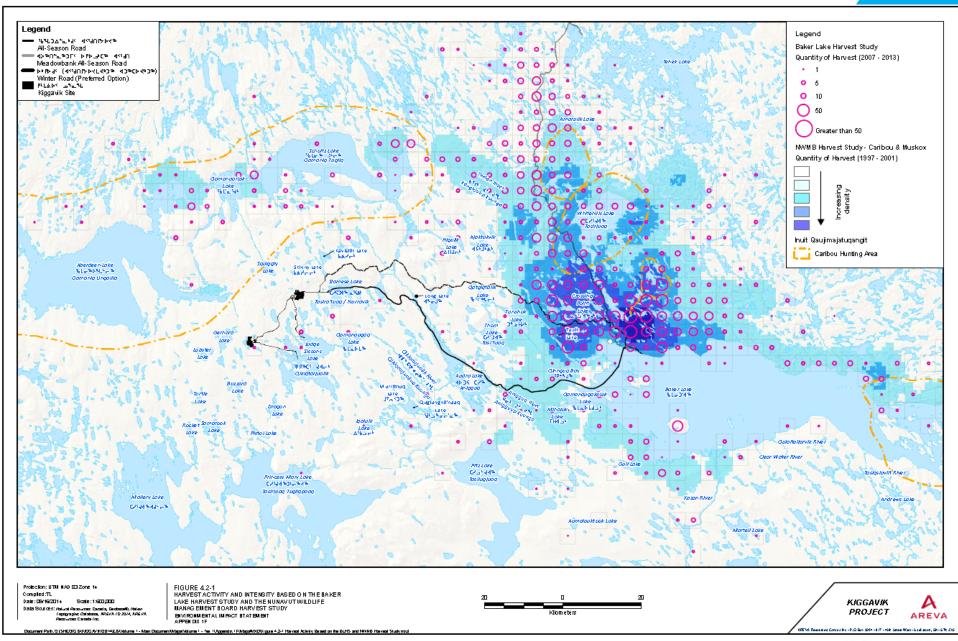
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ENVIRONMENTAL IMPACT STATEMENT

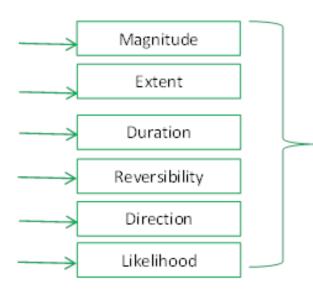
VOLUME 6

KIGGAVIK PROJECT AREVA





IQ – Significance Դահ Դեր Հահուսանում Դահ Դար Հահուսանում



Significance Determination



Protected Crossings^



Unprotected, but Known Crossings



Additional Crossings Identified by IQ Studies









Effects Assessment 4らひくよっぱ もうとうゅうにんしょう

AREVA's assessment concluded that:

- ecosystem integrity would be maintained, and
- 2. the land based economy would not be compromised.
- The land is used without bounds (no limits)
- Enhancement to the studies to contemplate how the proposed project area might contribute to the land and wage-based economies

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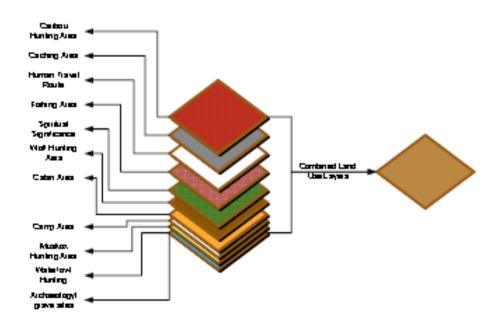
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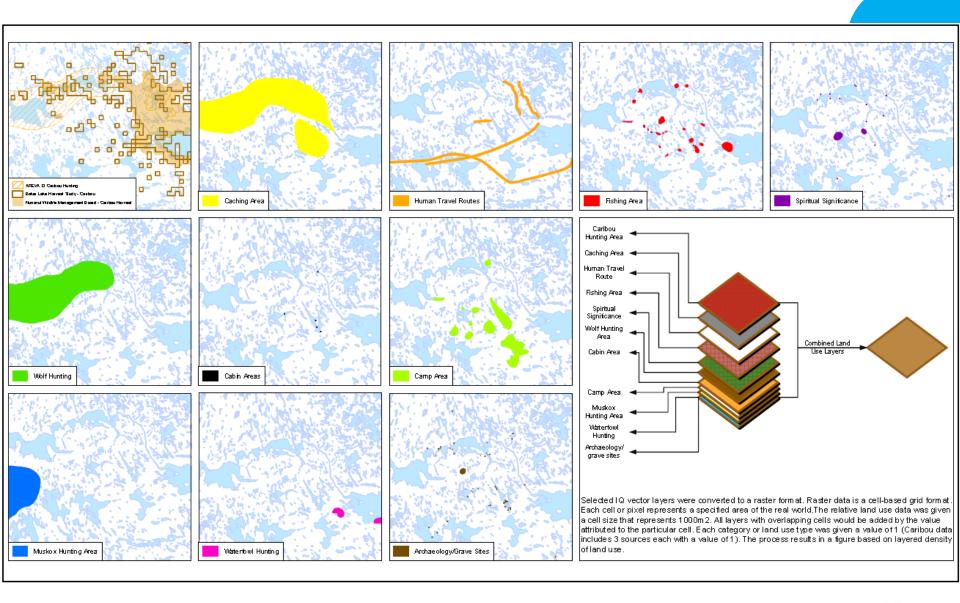
Final Environmental Impact Statement Volume 1 Appendix 1F

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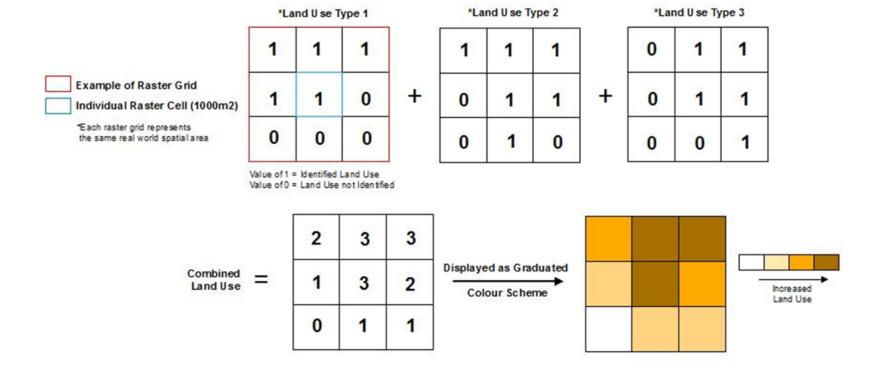




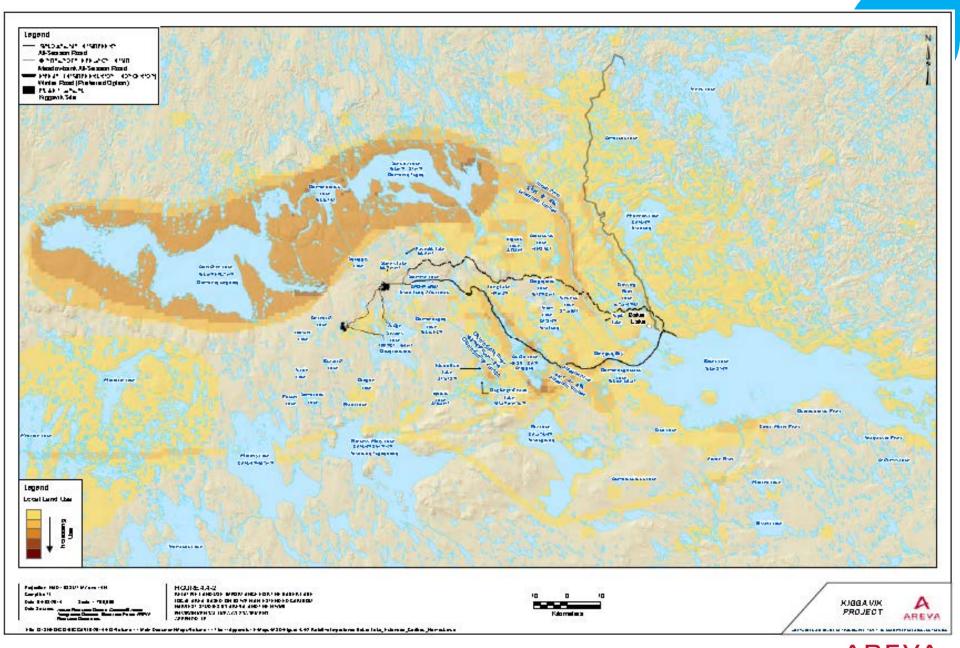




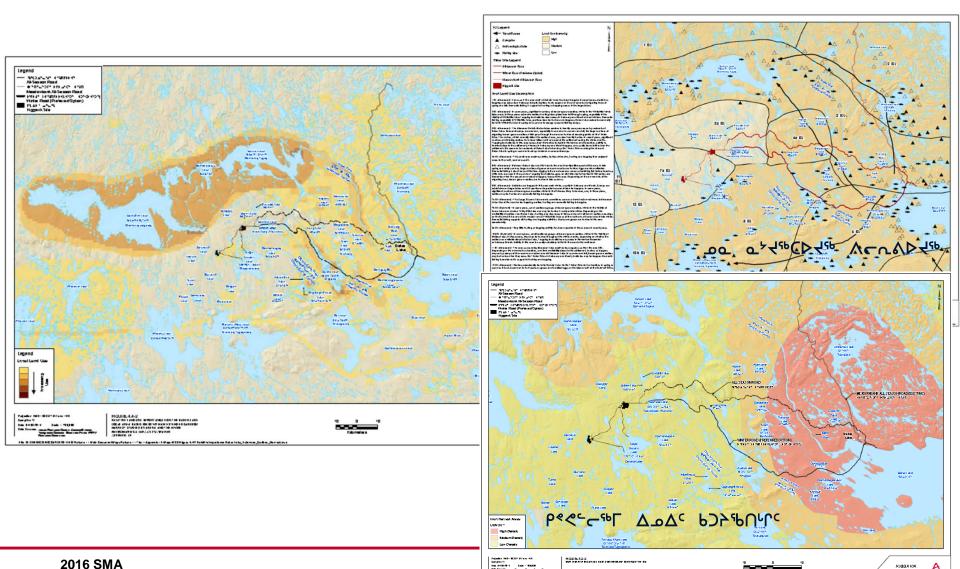
Layered Landscape / Relative Importance







Land Use Density Comparison _oa~し CALイベ トゥンハトトトラ いっ



Land Use Density and Importance Regional Monitoring Programs



► This work can influence regional monitoring programs so communities can have independent assurance that land use continues to be safe and the region is being developed responsibly





Respect, Values, and Ways of Doing Business

- Homeland Visits
 - 2013 Homeland Visit for the Tiktaalaaq and Noah families on shores of the Kazan River (<u>LINK</u>)
 - Book of Homeland Visits from 2006 to 2013 (LINK)











