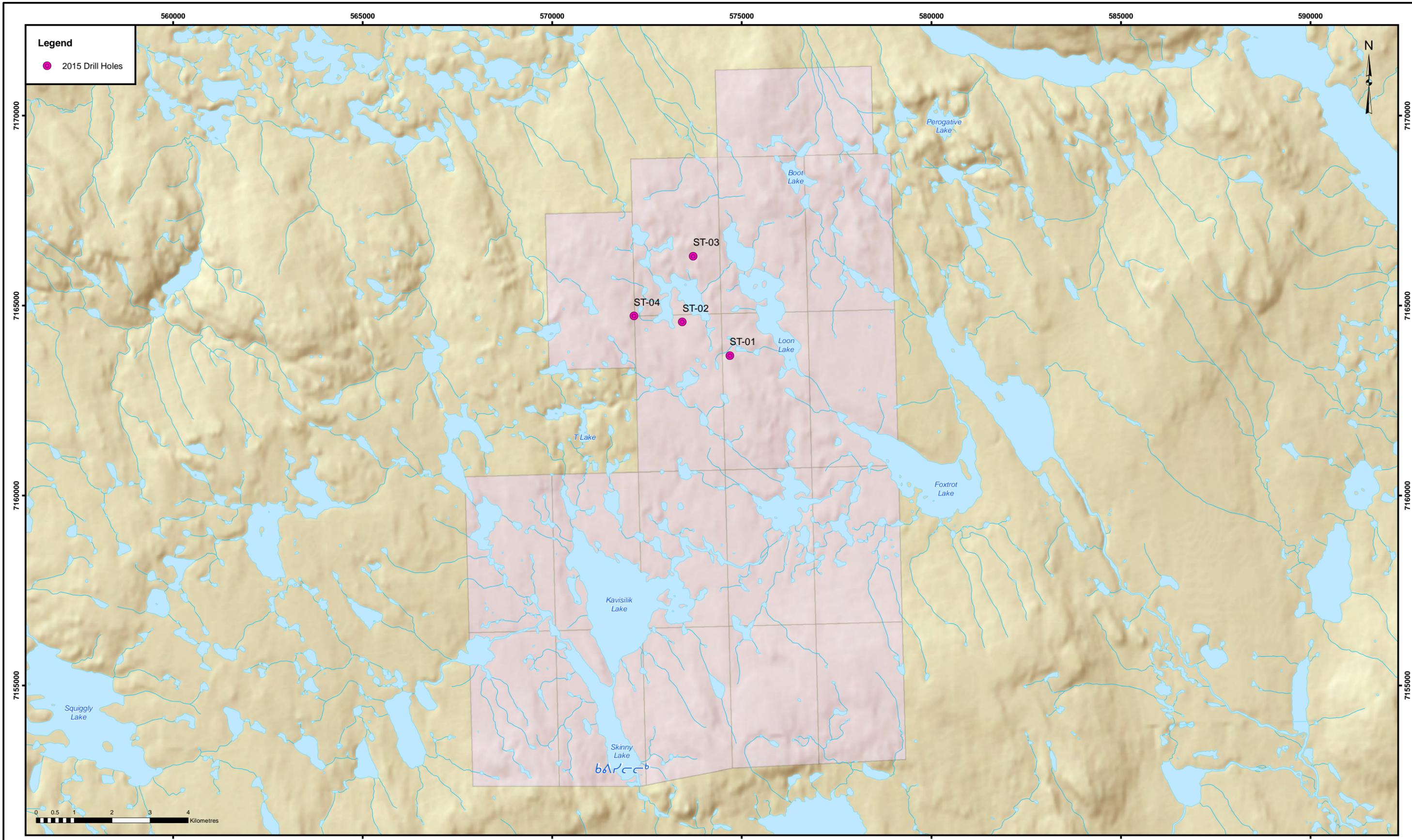


Projection: NAD 1983 UTM Zone 14N  
 Compiled: B.Pohler      Drawn: C.Courant  
 Date: 10/05/2015      Scale: Scalebar  
 File: K101A029  
 Data Sources: Natural Resources Canada, Geobase®, Nation  
 Topographic Database, AREVA Resources Canada  
 Inc.

**FIGURE 1.2-1**  
 2015 DRILLING KIGGAVIK AREAS  
 2015 KIGGAVIK ANNUAL REPORT



Projection: NAD 1983 UTM Zone 14N  
 Compiled: B.Pohler      Drawn: C.Courant  
 Date: 10/05/2015      Scale: Scalebar  
 File: K101A030  
 Data Sources: Natural Resources Canada, Geobase®, Nation  
 Topographic Database, AREVA Resources Canada  
 Inc.

**FIGURE 1.2-2**  
 2015 DRILLING ST TROPEZ AREA  
 2015 KIGGAVIK ANNUAL REPORT

HOLE ID	Zone	UTM X Easting	UTM Y Northing	Azimuth /Dip	Start	Finish	Depth (m)
ST-04	St-Tropez project	572155	7164728	200/-75	July 29	Aug 3	322
AND-15-01	Andrew L. C-DDH	553382	7134623	310/-70	July 31	Aug 4	309
AND-15-02	Andrew L. North	553313	7135458	195/-80	Aug 5	Aug 8	282
AND-15-03	Andrew L. North	553172	7135472	195/-80	Aug 8	Aug 11	225
AND-15-04	Andrew L. North	553428	7135454	180/-80	Aug 12	Aug 14	238
CZ-15-01	Center Zone	565882	7147296	155/-70	Aug 4	Aug 7	162
JE-03	Jane extension	552790	7132338	160/-75	Aug 9	Aug 11	168
JE-04	Jane extension	553001	7132531	170/-75	Aug 12	Aug 15	291
JE-05	Jane extension	553147	7132348	220/-70	Aug 16	Aug 19	267
CARB-009	Caribou	564056	7138012	160/-75	Aug 15	Aug 17	267
HOT90-01	Hotel 90	552583	7131160	160/-65	Aug 20	Aug 22	237
<b>TOTAL:</b>							<b>8,855 m</b>

### 1.2.1 85 West

#### Results of 2015 program (6 holes/1,564 m):

The 2015 drilling at 85 West encountered a massive sequence of fresh to altered Hudsonian granite in the northern portion of the area and Woodburn metasediments in the vicinity west of Sleek Lake. The follow-up of the initial discovery hole in 2014 successfully extended the known mineralization in the area. Three of the five holes drilled in the 85 West northern portion encountered mineralization, the two other holes only outlined prospective alteration. 85W-014 testing the forward gravity modelling in the vicinity west of Sleek Lake encountered 72 metres of overburden and is considered the reason for the gravity anomaly in the area.

### 1.2.2 BS Grid

#### Results of 2015 program (3 holes/846 m):

All three holes drilled at BS Grid intersected prevalent granite and other minor intrusives with marginal amounts of structure consisting of fracturing and local proto-breccia as well as localized weak bleaching and chlorite alteration. Only BS-03 encountered a notable structured and altered zone between 182.2-219.2 metres. No mineralization was intersected.

### 1.2.3 Contact

#### Results of 2015 program (12 holes/2,948 m):

At Contact in 2015, drilling tested a structural corridor along a NE-SW trend that is outlined by geophysics and that contains Contact mineralization. Lithologies consisted of dominantly Archean granitic gneiss with lesser amounts of syeno-granite/granite intrusions and variable amount of generally narrow lamprophyres. Seven drill holes encountered mineralization the mineralization commonly observed within structural zones coupled with varying degrees of alteration.

## **1.2.4 St. Tropez**

### **Results of 2015 program (4 holes/1,051 m):**

ST-01 and ST-03 intersected metavolcanics throughout with local variable albitization while ST-04 encountered essentially granite that was strongly altered to 130.5 metres and weakly altered to fresh from 130.5-246.8 metres. Alternating intervals of strongly altered granitic gneiss and granite from 246.8-322.0 metres. A large fault zone was observed in ST-01 and none of the three bore holes intersected mineralization.

ST-02 encountered metavolcanics in the upper portion of the hole and granitic gneiss towards the end of the hole. A large fault zone intersected between 220.0-234.4 metres is considered the contact between the metavolcanics and the granitic gneiss. Trace mineralization was observed between 193.3-193.5 metres associated with strong alteration.

## **1.2.5 Andrew Lake and Kiggavik Center Zone**

### **Results of 2015 program (2 holes/471 m):**

The two holes drilled at Kiggavik in 2015 were designed as reference drill holes to gathered additional information regarding the structural settings and uranium mineralization of the Andrew Lake and Kiggavik Centre Zone Deposits. AND-15-01 encountered dominant metasediments and minor granite and granitic gneiss and CZ-15-01 prevalent psammopelite and quartzite with minor schist and syenite. The holes were mineralized.

## **1.2.6 Andrew Lake North**

### **Results of 2015 program (3 holes/745 m):**

The three holes drilled within the Andrew North gravity anomaly intersected prevalent granite and minor psammopelitic gneiss and granitic gneiss, in addition minor faulting, quartz breccias,

and localized alteration and bleaching was recorded. None of the drill holes encountered mineralization.

### **1.2.7 Jane Extension**

#### **Results of 2015 program (3 holes/726 m):**

Drilling at Jane Extension defined alteration associated with structures within both the Woodburn Group metasediments and the Archean granitic gneisses. Quartz breccias were seen in all of the holes. The target area outlined many features that occur in known deposits but no mineralization was intersected.

### **1.2.8 Caribou**

#### **Results of 2015 program (1 hole/267 m):**

CARB-09 encountered weakly altered pelitic gneiss with local intervals of bleaching and argillization associated with structural intervals and no mineralization.

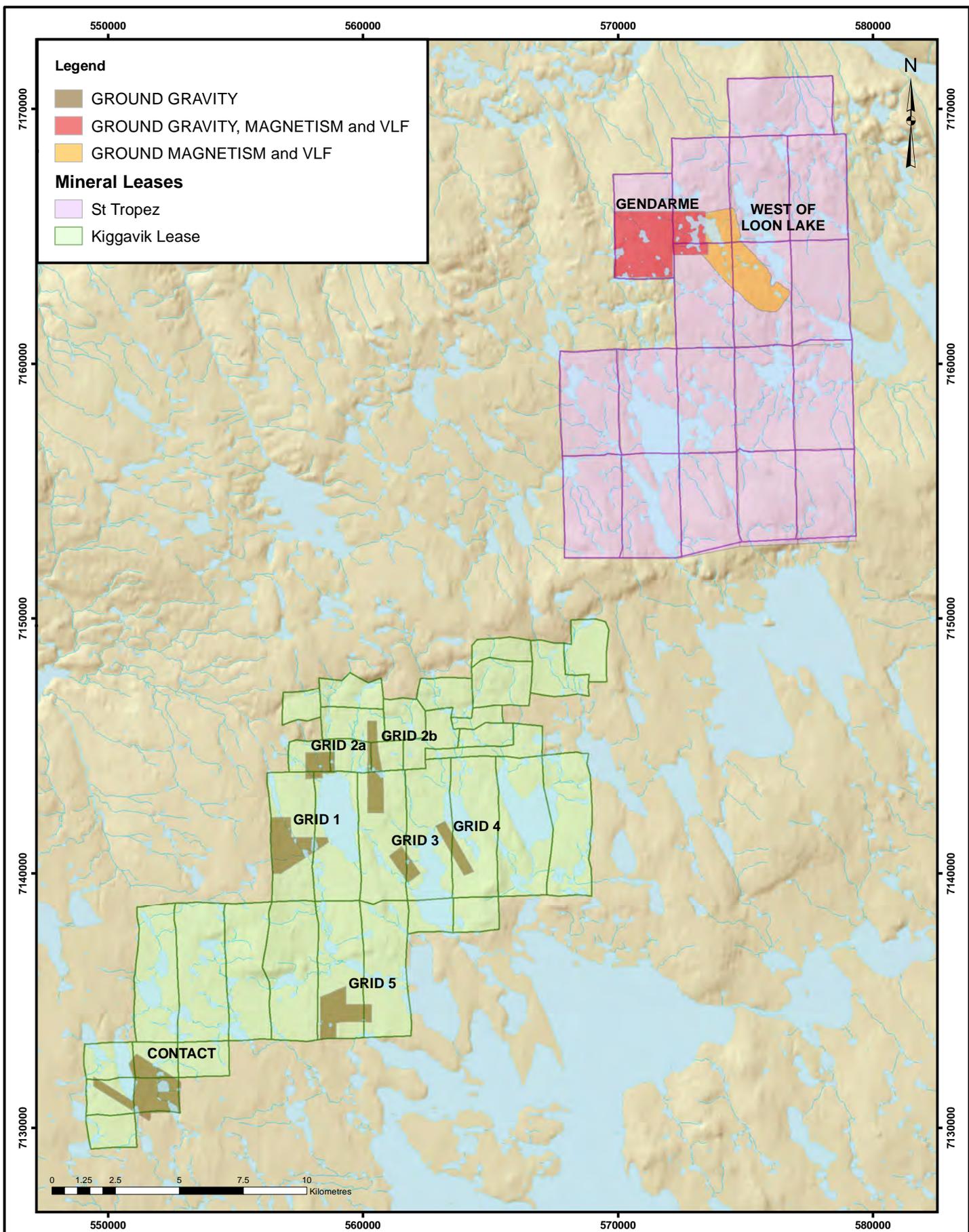
### **1.2.9 Hotel90**

#### **Results of 2015 program (1 hole/237 m):**

HOT90-01 intersected weak to moderate primary hematite rich granitic gneiss. No mineralization was observed.

## **1.3 Geophysics**

A ground geophysical program was completed in June/July 2015. Seven grids were surveyed on the Kiggavik lease and two grids were covered in the St Tropez lease as shown by Figure 1.3-1: *2015 Geophysical Surveys* and listed in Table 1.3-1: *2015 Ground Geophysics Program*.



Projection: NAD 1983 UTM Zone 14N  
 Compiled: R.Roy      Drawn: C.Courant  
 Date: 10/05/2015      Scale: Scalebar  
 File: KI02A015  
 Data Sources: Natural Resources Canada, Geobase®, Nation  
 Topographic Database, AREVA Resources Canada  
 Inc.

**FIGURE 1.3-1**  
 2015 GEOPHYSICAL SURVEYS  
 2015 KIGGAVIK Annual Report



**Table 1.3-1: 2015 Ground Geophysics Program**

<b>Lease</b>	<b>Grid name</b>	<b>Gravity (kilometers)</b>	<b>Magnetics &amp; VLF-EM (kilometers)</b>
Kiggavik	Grid1	14.28	0.00
	Grid2a	6.34	0.00
	Grid2b	8.91	0.00
	Grid3	5.07	0.00
	Grid4	6.79	0.00
	Grid5	13.68	0.00
	Contact 2015	20.26	0.00
St Tropez	Gendarme	73.95	73.95
	West of Loon Lake	61.70	61.70
<b>Total</b>		<b>210.98</b>	<b>135.65</b>

In the Kiggavik area, the ground survey consisted of acquiring gravity data to assist in the levelling of historical surveys and to link "floating" grids. In the St Tropez area two types of ground surveys were conducted:

- a ground gravity survey on the Gendarme grid, and
- Magnetic and VLF surveys on both the Gendarme and the West of Loon Lake grids.

MWH Geo-Surveys Inc. was the contractor who performed both the ground gravity, magnetic, and VLF surveys.

AREVA personnel were in charge of data QA/QC to ensure that the work was completed in a safe and environmentally responsible manner and that personnel adhered to AREVA standards and procedures.

## 1.4 Inspections

Inspections of the field activities were carried out by Aboriginal Affairs and Northern Development Canada (AANDC) on July 23, 2015 and the Kivalliq Inuit Association (KIA) on August 19, 2015. Refer to Appendix A for further detail regarding compliance.

### 1.4.1 Aboriginal Affairs and Northern Development Canada

An inspection was conducted by the AANDC Water Resource Officer on July 23, 2015 for the Land Use Permit N2014C0001. The inspectors visited the Kiggavik camp, drilling area, and fuel storage areas. The recommendations and/or concerns were provided in the Water Licence Inspection Report, and are outlined in Table 1.4-1. The inspector did not identify any unacceptable conditions within the camp area.

**Table 1.4-1: AANDC Inspection – July 23, 2015**

RECOMMENDATIONS/CONCERNS	ACTION TAKEN
<p>1. The 2014 spill was mentioned by the inspector. The inspector was concerned that if a rainfall event caused the spill, cuttings may not be stored appropriately.</p>	<p>1. AREVA chooses discharge locations at each drill site on a site by site basis. As required by the current water license issued by the NWB, discharge sites are located at a minimum of 31 m beyond the ordinary high water mark of any nearby water bodies. All drill mud solids or cuttings in non-mineralized zones are deposited on the ground, in a natural low-lying depression. Discharge locations are regularly inspected during drilling operations to ensure proper containment.</p>
<p>2. A 2015 spill of non-mineralized cuttings into a nearby water body (N64° 25' 18" W 97° 48' 17") was mentioned by the inspector. Concern was noted regarding the lack of</p>	<p>2. AREVA provided two spill reports to the regulators which indicate the spill response procedures used during a spill involving drill cuttings. In addition, the spill contingency plan was updated to</p>

RECOMMENDATIONS/CONCERNS	ACTION TAKEN
<p>information available in the Spill Contingency Plan regarding prevention and emergency response to cuttings spills.</p>	<p>outline preventative measures implemented at drill sites.</p>
<p>3. The inspector noted that the Spill Contingency Plan contact information should include the AANDC emergency contact.</p>	<p>3. The Spill Contingency Plan was updated to include the AANDC contact and reads: <i>AANDC Manager of Field Operations</i> as specified under Part H Item 4(b) of the current Nunavut Water License.</p>

### 1.4.2 Kivalliq Inuit Association

The KIA conducted an inspection of the Kiggavik camp and fuel storage areas on August 19, 2015 for the Land Use Licence KVL306C02. The inspector noted that items in previous inspection were all addressed including radioactive compound secured, waste properly disposed of, and no contaminated soil present. Additionally, it was noted that the site was well-kept, material was appropriately stored and off the ground, and spill kits were available where necessary. The inspector had no recommendations following the 2015 site inspection.

## **2 Summary of Planned Activities for 2016**

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### **2.1 General**

No drilling, geophysics, prospecting, or geological mapping are planned for the 2016 field season.

The plan for the upcoming field season consists of a small summer program of approximately two weeks to transition Kiggavik camp into care and maintenance mode. Additional necessary maintenance will be completed as required. The crew will commence mobilization in early July. All operations will be conducted from Baker Lake with support provided by helicopter services and AREVA's Baker Lake office.

### **2.2 Winter Haul**

The drilling contractor equipment and storage seacans will be moved from the Kiggavik campsite to Baker Lake during the 2016 Winter Haul. From Baker Lake, the equipment will be shipped via marine transport to a southern destination of the drilling contractor's choosing.

### **2.3 Environmental Monitoring**

The 2016 environmental monitoring program will continue to be conducted by AREVA staff during the short summer program with support provided by maintenance crew as necessary. Wildlife monitoring will be conducted by Wildlife Monitors from Baker Lake and the maintenance crew on site. AREVA staff will be responsible for the implementation of the Management Plans which were designed to ensure compliance with regulatory conditions and internal AREVA requirements (see Appendix C).

### 3 Environmental Monitoring and Protection

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AREVA is committed to taking every reasonable precaution toward ensuring the protection and conservation of the natural environment. This commitment is reflected in AREVA's Environmental Policy and is supported through a comprehensive environmental program for the exploration activities at the Kiggavik Project.

The 2015 field season was conducted in accordance with the ISO 14001:2004 certification for the Exploration Department's Environmental Management System. The ISO 14001 standard outlines the requirements for an Environmental Management System which enable an organization to implement a policy and objectives which address legal requirements and significant environmental aspects. The standard supports environmental protection and prevention of pollution in balance with socio-economic needs.

The following Management Plans were submitted to regulatory agencies prior to commencing the field season:

- Uranium Exploration Plan
- Waste Management Plan
- Spill Contingency Plan
- Noise Abatement Plan
- Wildlife Mitigation and Monitoring Plan
- Abandonment and Restoration Plan
- Radiation Protection Plan

These Plans ensure compliance with regulatory conditions and internal AREVA requirements and guide the development of best management practices and procedures to mitigate any potential adverse environmental impacts. AREVA intends to operate in accordance with commitments made in the Plans; however, such Plans are living documents and lessons learned during the field season and AREVA's commitment to continual improvement occasionally warrant revision of these Plans. The Plans were made available to personnel throughout the 2015 field season, and have been included with the submission of this Annual

Report (refer to Appendix C). The following sections summarize the implementation and overall effectiveness of these plans during the field season.

### **3.1 Uranium Exploration Plan**

The Uranium Exploration Plan is designed to meet the requirements of the Water Licence issued by the Nunavut Water Board (2BE-KIG1318) and the *Mineral Exploration Guidelines of Saskatchewan*, also referred to as Best Management Practices (BMPs). Although current activities are not regulated by the Canadian Nuclear Safety Commission (CNSC), the Uranium Exploration Plan is designed in accordance with the CNSC Regulations. The plan discusses activities related to uranium exploration including:

- Training requirements
- Drilling practices
- Core storage and logging
- Radioisotopes
- Spills
- Shipping radioactive material
- Site abandonment and restoration

Drill core samples and two sets of research core (low specific activity) were shipped on September 1, 2015 via marine transport from Baker Lake, Nunavut to Ste. Catherine, Quebec. The shipment was then transported via truck to the AREVA Marshalling Yard in Saskatoon, Saskatchewan. The split drill core samples from the 2015 exploration program were transported by truck to the Saskatchewan Research Council (SRC) located in Saskatoon, Saskatchewan. The two sets of cores from reference drill holes were transported to the Moffatt Lake Core Storage area for future exploration research. The Shippers Declaration for Dangerous Goods was completed by appropriately trained AREVA staff in conjunction with the carrier Nunavut Sealink & Supply Inc. (NSSI).

### **3.2 Waste Management Plan**

In accordance with AREVA's Environmental Policy, a Waste Management Plan was developed to guide waste segregation, storage, and disposal while mitigating potential adverse environmental impacts. AREVA is committed to ensuring waste generated at the Kiggavik Project site is collected, stored, transported and disposed of in accordance with regulatory requirements. The Waste Management Plan is reviewed and revised upon the identification of new waste streams, new handling methods or requirements and improved logistics.

In the development of this plan, potential waste streams were identified, followed by identification of a treatment strategy and disposal plan. All site staff and contractors are trained in the aspects required to effectively adhere to the plan (i.e. proper identification of waste, proper storage methods, proper handling and transport methods).

All drill cuttings with a uranium concentration greater than 0.05 percent are collected and stored in the radioactive storage compound for future management (Photograph 3.2-1). Food, paper and non-treated wood waste are incinerated onsite (Photograph 3.2-2).



**Photograph 3.2-1: Kiggavik Radioactive Storage Compound**



**Photograph 3.2-2: Kiggavik Camp Incinerator**

As outlined in the conditions of the Nunavut Water Board Licence No. 2BE-KIG1318, hazardous waste generated through the course of the operation must be disposed of at a licensed facility. Following the completion of the 2015 field season, hazardous waste was shipped via marine transport to a licensed disposal facility in Quebec. The shipment contained both hazardous and non-hazardous waste including waste ash, used filters, punctured aerosol cans, waste oil, waste fuel, and absorbent rags and was disposed of by Qikiqtaaluk Environmental at Solva-Rec Environmental Inc. No radioactive wastes were shipped offsite. Trained AREVA personnel were involved in the entire shipping process and verified the disposal of the waste at the licensed facility. Table 3.2-1 is an inventory of the hazardous waste that was disposed of following the 2015 season.

**Table 3.2-1: Hazardous Waste Shipment Inventory**

<b>Waste Ash Drums (205 L)</b>	<b>Used Filter Drums (205 L)</b>	<b>Aerosol Can Drums (205 L)</b>	<b>Waste Oil Drums (205 L)</b>	<b>Waste Fuel Drums (205 L)</b>	<b>Oil/Fuel Drums (205 L)</b>	<b>Absorbent Rags (1 m<sup>3</sup>)</b>
19	4	2	14	10	2	8

An inventory of all waste and material remaining on site was recorded upon seasonal shutdown and is summarized in Table 3.2-2.

**Table 3.2-2: Kiggavik Site End of Season Inventory 2015**

Type of Waste/Product	Quantity	Storage Method
Waste oil and fuel	None	Shipped to Solva-Rec Environmental Inc. following the 2015 field season. See Table 3.2-1: Hazardous Waste Shipment Inventory.
Incinerator Ashes	None	Shipped to Solva-Rec Environmental Inc. following the 2015 field season. See Table 3.2-1: Hazardous Waste Shipment Inventory.
Diesel Fuel	5 – 379 L double walled slip tanks	Double walled slip tanks stored on timbers off ground near the generator building for future program use.
Scrap metal and scrap drilling supplies (rubber hose plastic pails)	Approximately 20,000 pounds	Loaded inside one sea container at site to be transported to Baker Lake over the winter road in 2016.
Scrap drill rods	Approximately 40,000 pounds	Drill rods loaded on top of trailer to be transported to Baker Lake over the winter road in 2016.
Engine filters Oil and Fuel	None	Shipped to Solva-Rec Environmental Inc. following the 2015 field season. See Table 3.2-1: Hazardous Waste Shipment Inventory.
Oil contaminated rags	None	Shipped to Solva-Rec Environmental Inc. following the 2015 field season. See Table 3.2-1: Hazardous Waste Shipment Inventory.
Empty/used paint cans	None	Shipped to Solva-Rec Environmental Inc. following the 2015 field season. See Table 3.2-1: Hazardous Waste Shipment Inventory.
Small Generator and small engine Oil	5 – 1 L jugs	In secondary containment in generator building. Plans to remove off site summer of 2016.
Jet Fuel	4200 L	Stored in the Enviro-tanks at fuel cache for 2016 use.
Diesel Fuel	47800 L	Stored in the Enviro-tanks at fuel cache for future program use.
Gasoline	1 – 20 L plastic jerry cans	Stored inside wooden storage building at site in mini berm. Plans to remove off site summer of 2016, or use during 2016 program.
Large Generator Oil	1 – 20 liter pails 15W 40 oil	Stored inside building on secondary containment. Plans to remove off site

Type of Waste/Product	Quantity	Storage Method
		summer of 2016.
Propane	24 – 100 lb bottle	Upright in a locked fence compound.
Calcium Chloride	1000 Bags – 50, 000 lbs	Stored inside a sea container to be transported to Baker Lake over the winter road in 2016.
Cement	`3 Bags – 1800 lbs	Stored inside a sea container to be transported to Baker Lake over the winter road in 2016.
Boart Longyear Supplies	<u>Left at Camp Fall 2015</u> 30 pails -Hydrex Hydraulic Oil MV-36 60 cases - Motor oil 15-40 x 16L 36 cases - 2 cycle oil x 12L 65 – pails Linseed Soap 30 pails - Natural blue Cleaner 8 boxes (6 cans per box) Spray Paint 4 gallons Industrial Paint 10 cans Spray Foam 8 cans Brake Cleaner 13 cans Power Lube Spray 30 cans Starting Fluid 30 pails Rod Grease 40 cases Lube Grease (grease guns) 17 cases Kleene Flow Diesel Fuel Conditioner 30 cases Anti-Freeze 5 cases Fast Orange Cleaner 3 pails Solvent Cleaner 11 pails Vibra Guard 4 Cases DFI Diesel Conditioner 1 pail Extreme Stuff Hole Conditioner 15 pails Pervis 12 pails Penetrol 20 pails Poly Plus 6 pails 165 Conditioner 10 pails K-Ion 65 pails AMC133	Stored inside a sea container to be transported to Baker Lake over the winter road in 2016.

### 3.2.1 Canada Wide Standards

Efforts to meet the *Canada-Wide Standard (CWS) for Dioxins and Furans* and the *Canada-wide Standard for Mercury Emissions* include the development and implementation of a Waste Management Plan involving waste inventory, diversion and sorting prior to incineration. Waste materials incinerated include food waste, paper, untreated wood products and toilet wastes. Remaining wastes are sorted and stored in sea containers on site until they are removed via the winter haul to be shipped to a licensed disposal facility.

### 3.3 Water Consumption and Management

As outlined in the conditions of the Nunavut Water Board Licence No. 2BE-KIG1318, the domestic camp water is limited to 10 cubic metres per day (m<sup>3</sup>/day), and the drill water is limited to 289 m<sup>3</sup>/day for a total maximum consumption of 299 m<sup>3</sup>/day. Drilling during low flow artesian was compliant with Part F, Item 6 of the Licence and is further described in Section 3.3.2.

#### 3.3.1 Camp and Drill Water Use

Domestic camp water was drawn from the local unnamed lake for hygienic use, and water sources proximal to drilling activities were used to support drilling. The locations of the domestic and drilling water sources are listed below in Table 3.3-1 and Table 3.3-2: Drilling Water Source Coordinates respectively.

**Table 3.3-1: Domestic Water Source Coordinates**

Location Name	Use	Coordinates	
		Lat/Long	UTM
Camp	Emergency water source (i.e. Firefighting)	64° 26' 31.78" N 97° 39' 30.83" W	14W 7146969N 564570E
Unnamed Lake	Hygienic water source	64° 26' 36.93" N 97° 39' 49.51" W	14W 7147123N 564317E

**Table 3.3-2: Drilling Water Source Coordinates**

Location Name	Hole-ID	Coordinates	
		Lat/Long	UTM
Contact	CONT-016	64° 17' 20.23" N 97° 58' 28.36" W	14W 7129614N 549637E
	CONT-017		
	CONT-018		
	CONT-019		
	CONT-020		
	CONT-021		
	CONT-022		
	CONT-023		
	CONT-024		
	CONT-025		
	CONT-026		
	CONT-027	64° 17' 49.48" N 97° 56' 36.12" W	14W 7130544N 551131E
85W	85W-009	64° 25' 12.32" N 97° 48' 17.28" W	14W 7144369N 557578E
	85W-010		
	85W-011		
	85W-013		
	85W-012	64° 25' 27.79" N 97° 48' 19.74" W	14W 7144847N 557536E
	85W-014	64° 24' 07.64" N 97° 48' 09.56" W	14W 7142527N 557719E
St. Tropez	ST-01	64° 35' 27.72" N 97° 26' 08.16" W	14W 7163801N 574892E
	ST-02	64° 35' 50.99" N 97° 28' 11.93" W	14W 7164481N 573229E
	ST-03	64° 36' 30.76" N 97° 27' 37.02" W	14W 7165723N 573663E
	ST-04	64° 36' 02.94" N 97° 29' 24.31" W	14W 7164828N 572258E
BS Grid	BS-03	64° 21' 48.61" N 97° 55' 58.53" W	14W 7137954N 551512E
	BS-04	64° 21' 43.07" N 97° 55' 38.16" W	14W 7137787N 551788E
	BS-05		
Andrew Lake North	AND-15-01	64° 19' 58.41" N 97° 53' 47.21" W	14W 7134573N 553332E
	AND-15-02	64° 20' 21.52" N 97° 53' 31.23" W	14W 7135292N 553534E
	AND-15-03		
	AND-15-04		
Jane Extension	JE-03	64° 18' 48.87" N 97° 54' 15.90" W	14W 7132414N 552984E
	JE-04		
	JE-05		
Caribou	CARB-009	64° 21' 42.75" N 97° 40' 32.65" W	14W 7138006N 563930E
Hotel90	HOT90-01	64° 18' 04.24" N 97° 54' 54.06" W	14W 7131024N 552495E
Kiggavik Center Zone	CZ-01	64° 26' 16.81" N 97° 38' 26.28" W	14W 7146524N 565443E

Domestic camp water was pumped from the unnamed lake into holding tanks with marked volumes. These tanks were filled daily, and a water meter measured the cumulative amount of water used. The water meter values were recorded and calculated to ensure the daily allowance was not exceeded. The daily domestic water use limit of 10 m<sup>3</sup> was not exceeded at any time during season. The maximum amount of water use recorded in one day was 6.38 m<sup>3</sup> on June 12 when the tanks were initially filled with water (Table 3.3-3).

The drilling contractor, Boart Longyear, used water pumps at each drill capable of pumping a maximum of approximately 81.76 m<sup>3</sup>/day. New water meters were installed on the water pumps at the drilling rigs on June 18, 2015 in order to better reflect daily water usage for drilling operations. Daily readings by the drilling contractor were required at all three drilling rigs to demonstrate compliance with the 289 m<sup>3</sup>/day licence condition. On August 6, the total water use for domestic and drilling purposes was 302.72 m<sup>3</sup>/day exceeding the total maximum consumption of 299 m<sup>3</sup>/day. Water readings were not taken at Drill 2 for August 3, 4 and 5, leading to an incorrect total daily consumption of water for August 6. Therefore, no exceedances have been reported for this season (Table 3.3-3).

**Table 3.3-3: Daily Water Use**

Month	Date	Total camp (m <sup>3</sup> )	Drill 1 (m <sup>3</sup> )	Drill 2 (m <sup>3</sup> )	Drill 3 (m <sup>3</sup> )	Total Water Use (m <sup>3</sup> )
June	12	6.38	0.00	0.00	0.00	<b>6.38</b>
	13	2.01	0.00	0.00	0.00	<b>2.01</b>
	14	0.00 <sup>†</sup>	0.00	0.00	0.00	<b>0.00</b>
	15	3.34	0.00	0.00	0.00	<b>3.34</b>
	16	0.00	0.00	0.00	0.00	<b>0.00</b>
	17	5.07	0.00	0.00	0.00	<b>5.07</b>
	18	0.00 <sup>†</sup>	0.00	0.00	0.00	<b>0.00</b>
	19	4.58	24.00	49.00	0.00	<b>77.58</b>
	20	2.64	45.00	48.90	0.00	<b>96.54</b>
	21	3.51	21.00	0.00 <sup>†</sup>	0.00	<b>24.51</b>
	22	3.53	42.00	100.60	0.00	<b>146.13</b>
	23	2.65	62.00	49.00	0.00	<b>113.65</b>
	24	2.89	59.00	46.00	0.00	<b>107.89</b>
	25	3.07	61.00	39.50	0.00	<b>103.57</b>
	26	3.90	27.50	56.00	0.00	<b>87.40</b>
	27	2.66	52.50	65.50	0.00	<b>120.66</b>
28	3.73	52.40	60.00	0.00	<b>116.13</b>	
29	3.54	52.60	61.00	0.00	<b>117.14</b>	
30	2.61	54.00	59.00	0.00	<b>115.61</b>	
July	1	2.70	29.00	50.00	0.00	<b>81.70</b>
	2	2.99	49.00	13.00	0.00	<b>64.99</b>

Month	Date	Total camp (m <sup>3</sup> )	Drill 1 (m <sup>3</sup> )	Drill 2 (m <sup>3</sup> )	Drill 3 (m <sup>3</sup> )	Total Water Use (m <sup>3</sup> )
	3	2.35	23.00	63.00	0.00	88.35
	4	2.70	42.00	39.00	0.00	83.70
	5	2.71	56.00	21.00	0.00	79.71
	6	3.11	36.00	61.00	0.00	100.11
	7	2.84	58.00	41.50	0.00	102.34
	8	4.02	66.00	41.10	0.00	111.12
	9	2.91	16.00	44.40	0.00	63.31
	10	2.67	37.00	40.00	0.00	79.67
	11	3.78	144.00	41.40	0.00	189.18
	12	3.38	37.00	38.60	0.00	78.98
	13	3.44	79.00	0.00	0.00	82.44
	14	2.80	37.00	0.00 <sup>†</sup>	25.00	64.80
	15	2.74	61.00	107.00	55.00	225.74
	16	3.22	68.00	35.80	55.60	162.62
	17	2.73	72.00	30.20	54.60	159.53
	18	2.69	34.00	45.00	23.80	105.49
	19	3.50	45.00	0.00	3.00	51.50
	20	3.01	29.00	48.00	56.00	136.01
	21	3.05	60.00	45.00	60.90	168.95
	22	2.45	72.00	48.00	61.10	183.55
	23	3.45	71.00	71.30	60.00	205.75
	24	3.30	38.00	48.90	65.00	155.20
	25	3.47	49.00	45.50	0.00	97.97
	26	3.91	61.00	45.50	52.20	162.61
	27	3.31	56.00	134.20	5.10	198.61
	28	2.94	65.00	66.10	96.70	230.74
	29	2.92	64.00	74.10	11.00	152.02
	30	2.48	0.00 <sup>†</sup>	66.10	58.00	126.58
	31	2.83	87.00	71.50	57.00	218.33
<b>August</b>	1	3.40	64.00	0.00 <sup>†</sup>	56.00	123.40
	2	3.51	64.00	71.10	58.30	196.91
	3	2.66	31.00	0.00 <sup>†</sup>	0.00	33.66
	4	2.96	90.00	0.00 <sup>†</sup>	0.00	92.96
	5	3.24	42.00	0.00 <sup>†</sup>	0.00	45.24
	6	3.62	63.00	236.10	0.00	302.72
	7	6.41	63.00	50.60	0.00	120.01
	8	0.00 <sup>†</sup>	50.00	0.00 <sup>†</sup>	0.00	50.00
	9	3.25	0.00	82.40	0.00	85.65
	10	4.86	67.00	25.30	0.00	97.16
	11	2.40	93.00	49.30	0.00	144.70
	12	3.22	35.00	65.00	0.00	103.22
	13	3.78	51.00	48.80	0.00	103.58
	14	2.14	46.00	48.20	0.00	96.34
	15	3.58	24.00	17.00	0.00	44.58
	16	3.40	26.00	79.00	0.00	108.40
	17	3.50	55.00	0.00 <sup>†</sup>	0.00	58.50

Month	Date	Total camp (m <sup>3</sup> )	Drill 1 (m <sup>3</sup> )	Drill 2 (m <sup>3</sup> )	Drill 3 (m <sup>3</sup> )	Total Water Use (m <sup>3</sup> )
	18	3.33	0.00	49.00	0.00	52.33
	19	3.26	0.00	0.00	0.00	3.26
	20	2.50	0.00	70.60	0.00	73.10
	21	2.84	0.00	20.40	0.00	23.24
	22	2.84	0.00	57.00	0.00	59.84
	23	0.00	0.00	0.00	0.00	0.00
	24	0.00	0.00	0.00	0.00	0.00
	25	0.00	0.00	0.00	0.00	0.00
	26	0.00	0.00	0.00	0.00	0.00
	27	0.00	0.00	0.00	0.00	0.00
	28	0.00	0.00	0.00	0.00	0.00
	29	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00
	31	0.00	0.00	0.00	0.00	0.00

† Daily water readings were not recorded.

### 3.3.2 Artesians

As per the NWB Licence, Part F, Item 6 (c), AREVA must provide information on all artesian flows encountered, with GPS coordinates, dates, and flow rates, depth, permafrost, aquifer and packer testing data with associated water quality analytical results. Pneumatic packer testing and thermistor installation is specific to mine development and are not standard practices for exploration drilling. The definitive permafrost depths were unknown for the artesian discussed below. Should there be packer testing data available or thermistors installed in the future, AREVA will provide the associated data when artesian are encountered.

While drilling in the Andrew area, one artesian flow was intersected. As per Part F item 6 (c) of the NWB licence, refer to Table 3.3-4 for the relevant artesian information including location, date, flow rate, and depth. Water samples were taken directly from the artesian flows, and the corresponding water analysis results are shown in Table 3.3-5.

**Table 3.3-4: Artesian Location, Date, Flow and Depth**

	Coordinates		Date	Flow Rate (L/min)	Depth (m)
	Lat/Long	UTM			
<b>AND-15-02</b>	64° 20' 27.00" N 97° 53' 47.48" W	14W 7135458N 553313E	August 8, 2015	20	280.5

**Table 3.3-5: Artesian Water Results**

Parameter	Units	AND-15-02	CCME†
Bicarbonate	mg/L	46	