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# **Kiggavik Project**

## **Final Spill Report**

### **Sept. 20, 2011 Spill**

**October 2011**

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# **1 INTRODUCTION**

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On September 20, 2011 an incident involving Jet A fuel occurred at the AREVA Resources Canada Inc. (AREVA) Kiggavik Project fuel cache used for the exploration site, located 80 km west of the community of Baker Lake, Nunavut. The Kiggavik fuel cache is located on a gravel esker at 64°25'38" N, 97°43'22"W (14W 561512, 7145240). There are 8 50,000 L EnviroTanks located at the fuel cache; 5 dedicated to diesel fuel and 3 for Jet A fuel. The Project's 2011 field season ended August 13, 2011, however Forum Uranium (Forum) had arranged with AREVA to use some of the remaining fuel at the Kiggavik fuel cache.

The incident was reported on September 20. This 30-day report is required in accordance with Nunavut Water Board License No 2BE-KIG0812 and AREVA's Spill Contingency Plan. The report is to be submitted to Indian & Northern Affairs Canada (INAC), the Nunavut Water Board (NWB), the Kivalliq Inuit Association (KIA), and Environment Canada within 30 days of the incident. It is intended to provide a summary of the incident, and the status of corrective and preventative measures.

## **2 INCIDENT SUMMARY**

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At approximately 7:00 pm on September 20th a pilot with Forest Helicopters (under contract with Forum Uranium) was refuelling a helicopter at the Kiggavik fuel cache. After placing the nozzle in the helicopter's fuel tank the pilot walked around the opposite side to reprogram his GPS. After a couple of minutes he walked back to the nozzle and found that it had fallen out of the helicopter and was continuing to dispense fuel onto the ground. He immediately shut off the pump to prevent any further spillage. The quantity of Jet A fuel estimated to have spilled is 100 - 150 L. Forum personnel notified the Kiggavik Project's Facility Supervisor of the spill who then contacted the 24 hr spill report line.

## **3 CORRECTIVE AND PREVENTATIVE MEASURES**

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Immediately upon noticing that the fuel nozzle was laying on the ground and still dispensing fuel the pilot shut off the pump to prevent further spillage. He then collected as much spilled fuel as possible with absorbent matting from the spill kits located at the fuel cache, however much of the fuel had already soaked into the gravel. As it was getting dark he had to return back to the Forum camp and complete the cleanup the next day. When he returned on September 21<sup>st</sup> he

took pictures prior to the clean up and collected the contaminated soil in rock bags which were temporarily placed in berms before being moved into a sea can at the Kiggavik site for future disposal. The spill area was also recontoured to ensure the area remained a safe helicopter landing spot near the fuel tanks. As the fuel cache is located on a gravel esker the cleanup did not damage any vegetation. Additionally, the fuel cache is located approximately 400 m from the nearest water body, therefore there is no concern of water contamination.

Personnel responsible for refuelling are informed and trained on AREVA's refuelling procedures and all fuel pumps are equipped with automatic shutoffs. In order to prevent a similar incident from occurring in the future, personnel responsible for refuelling will be reminded not to leave pumps unattended while refuelling and not to rely on the automatic shut-offs as they can malfunction. Signs reminding personnel not to leave fuelling unattended will be posted at the fuelling stations.

## **4 CONCLUSION**

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On September 20, 2011 a spill of Jet A fuel occurred at the Kiggavik fuel cache during the fuelling of a helicopter. Absorbent matting was used immediately to collect any spilled fuel on the surface of the ground and contaminated soil was collected and put into storage for future disposal. There was no damage to vegetation or water contamination resulting from the spill or its cleanup.

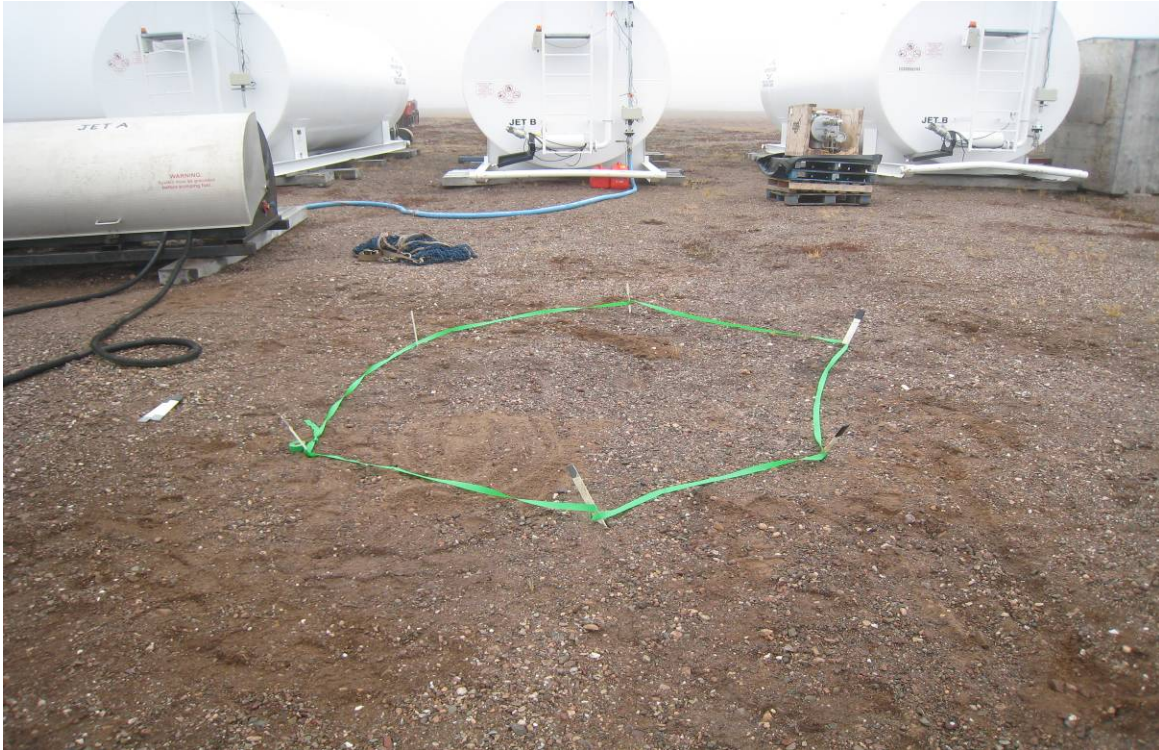


**Photo 5-1 Kiggavik Fuel Cache August 2011**



**Photo 5-2 EnviroTanks at Kiggavik Fuel Cache**





**Photo 5-3 Spill Area Near Jet A EnviroTanks**

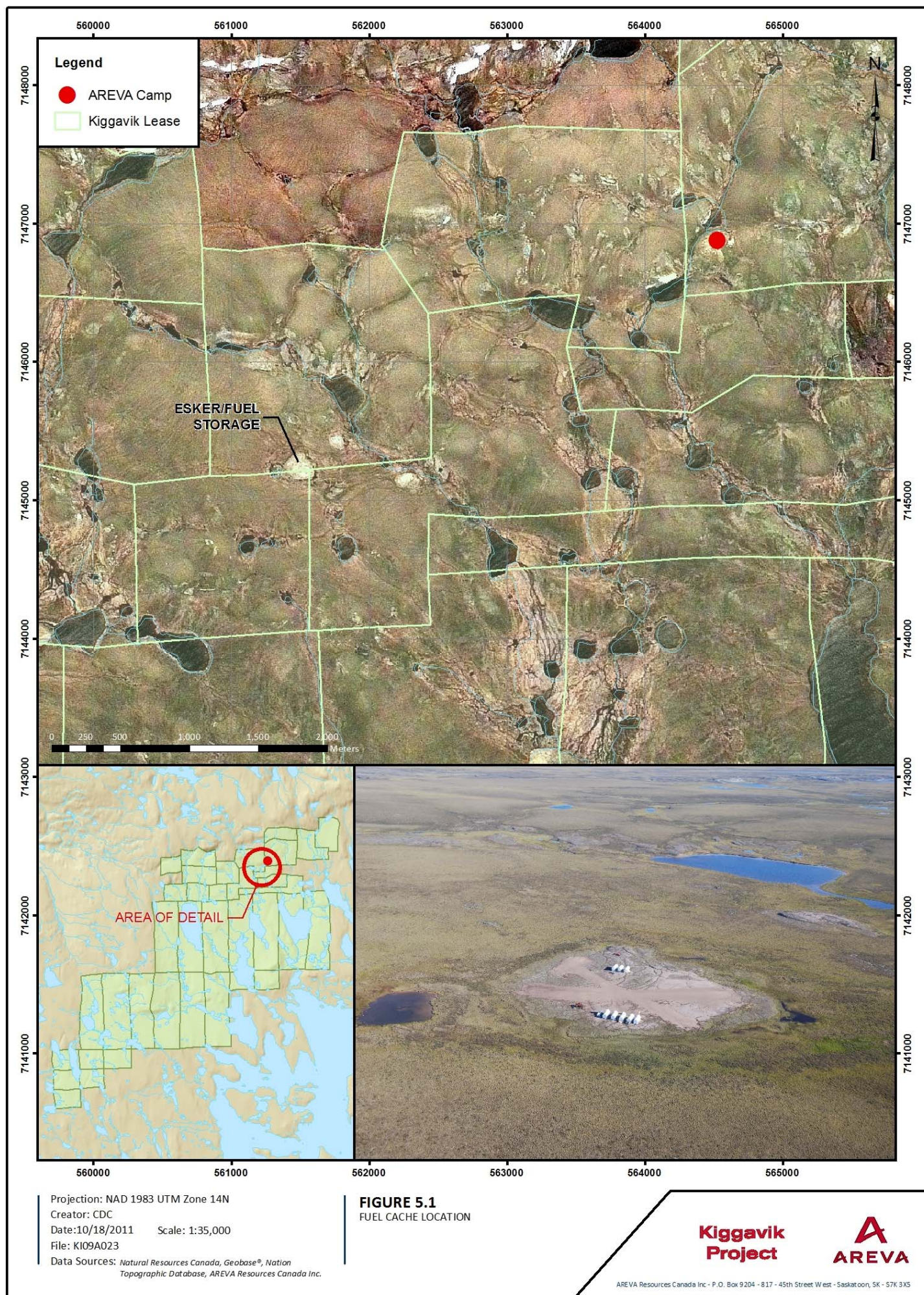


**Photo 5-4 Spill Area during Clean-up**



**Photo 5-5 Spill Area After Clean-up and Recontouring**











Canada

# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	<b>REPORT NUMBER</b> _____
	OCCURRENCE DATE: MONTH – DAY – YEAR		OCCURRENCE TIME			
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES		U.N. NUMBER	
I	SPILL SOURCE		SPILL CAUSE		AREA OF CONTAMINATION IN SQUARE METRES	
	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR EQUIPMENT	
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	

## REPORT LINE USE ONLY

N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS	
LEAD AGENCY					
FIRST SUPPORT AGENCY					
SECOND SUPPORT AGENCY					
THIRD SUPPORT AGENCY					