



**Natural Resources  
Canada**

**Geological Survey of Canada (Calgary)**  
3303-33<sup>rd</sup> Street N.W., Calgary, Alberta T2L 2A7

Telephone: (403) 292-7000  
URL: <http://www.nrcan.gc.ca>

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February 10, 2015

Re: Water permit 3BC-ERI1011  
Ellef Ringnes Island, Nunavut

Dear Mr Keim,

Please find attached two maps indicating our camp on Ellef Ringnes Island in 2010-2011  
Latitude: 78° 13' 14" N Longitude: 101° 4' 34" W.

The camp occupied an area roughly 150 m x 200 m (3 Ha) and included 7 sleeping tents, a cook tent and an office tent.

The site had been previously occupied by Panarctic Oils. A portion of their Hercules landing strip was used by a Twin Otter to establish and remove the camp. A helicopter and fuel was stationed at the camp.

The field work consisted of geological mapping using helicopter. No roads, seismic lines or drilling was undertaken.



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#### Water usage 2010:

- 4020 litres was used on Ellef Ringnes. The majority is from sea ice and the rest from Resolute.
- There were 635 person days on the island 6.3 litres water/person/day on average.
- all garbage was shipped back to Resolute, we did not burn any on site.
- Total of 45 bags of garbage where shipped out.
- All grey water was disposed in sumps
- Human waste was disposed in pit toilets location 210 m from the nearest water body.
- Toilet paper was collected and burned on site.
- One spill of <2 litres engine oil occurred during helicopter maintenance. The sand the oil spilled on was collected in a rock pail (~15 kg) and shipped to Resolute for disposal.

Date	litres	source
Jun-29	60	Resolute
Jun-30	80	Resolute
Jul-01	80	Resolute
Jul-02	90	stream



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Jul-03	100 Resolute
Jul-04	100 Resolute
Jul-05	120 Sea Ice
Jul-06	120 Sea Ice
Jul-07	140 Sea Ice
Jul-08	100 Sea Ice
Jul-09	70 Sea Ice
Jul-10	200 Sea Ice
Jul-11	160 Sea Ice
Jul-12	140 Sea Ice
Jul-13	140 Sea Ice
Jul-14	160 Sea Ice
Jul-15	180 Sea Ice
Jul-16	160 Sea Ice
Jul-17	160 Sea Ice
Jul-18	160 Sea Ice
Jul-19	140 Sea Ice
Jul-20	120 Sea Ice
Jul-21	120 Sea Ice
Jul-22	200 Sea Ice
Jul-23	160 Sea Ice
Jul-24	120 Resolute
Jul-25	120 Resolute
Jul-26	120 Resolute
Jul-27	120 Resolute
Jul-28	100 Sea Ice
Jul-29	100 Sea Ice
Jul-30	80 Sea Ice

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#### Water usage 2011

The camp was occupied 11 July to 5 August 2011 by up to 14 people.

- 2450 litres was used on Ellef Ringnes. The majority is from sea ice and the rest from Resolute.
- There were 305 person days on the island, 8.0 litres water/person/day on average.
- All garbage was shipped back to Resolute, we did not burn any on site.
- Total of 25 bags of garbage were shipped to Resolute.
- All grey water was disposed in sumps
- Human waste was disposed in pit toilets location 210 m from the nearest water body.
- Toilet paper was collected and burned on site.
- No spills occurred.

Date	litres	source
Jul-11	80	Resolute



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Jul-12	50 stream
Jul-13	60 Stream
Jul-14	70 Sea Ice
Jul-15	90 Sea Ice
Jul-16	80 Sea Ice
Jul-17	90 Sea Ice
Jul-18	80 Sea Ice
Jul-19	80 Sea Ice
Jul-20	110 Sea Ice
Jul-21	120 Sea Ice
Jul-22	120 Sea Ice
Jul-23	120 Sea Ice
Jul-24	150 Sea Ice
Jul-25	120 Sea Ice
Jul-26	120 Sea Ice
Jul-27	110 Sea Ice
Jul-28	100 Sea Ice
Jul-29	100 Sea Ice
Jul-30	100 Sea Ice
Jul-31	80 Sea Ice
Aug-01	80 Sea Ice
Aug-02	100 Sea Ice
Aug-03	80 Sea Ice
Aug-04	80 Sea Ice
Aug-05	80 Resolute/ stream

All camp gear and empty full drums were removed by Polar Continental Shelf project in the middle of August, 2011. **We have no plans to return to the site and consider our work complete in the area**

Please don't hesitate to contact me if you have any questions or concerns,

Keith Dewing  
Research Scientist  
[kdewing@NRCan.gc.ca](mailto:kdewing@NRCan.gc.ca)  
403-292-7135





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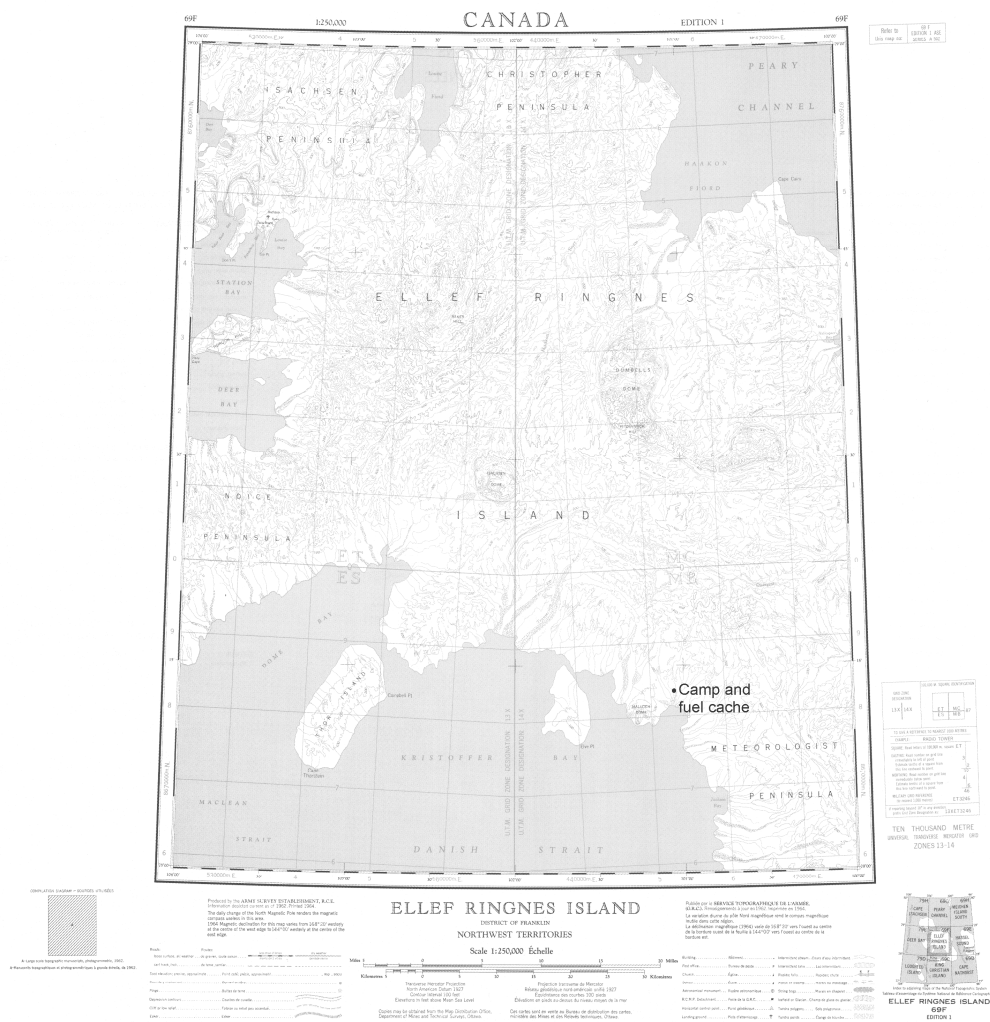
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