



## APPENDIX A2

### Meliadine Gold Project Hydrometric Data Compilation

#### A2 - 8.0 CHAR RIVER NEAR RANKIN INLET

Hydrometric data were measured during the open water season of 2000. Instantaneous water levels and discharge measurements at Char River near Rankin Inlet are presented in Table A2-35.

Table A2-35: Char River near Rankin Inlet

Date	Water Level	Discharge	Comments
12-Jun-2000		0.000	
13-Jun-2000		5 to 6	estimated
14-Jun-2000	7.000	5.04	ice conditions
16-Jun-2000	7.041	9.45	
18-Jun-2000	7.015	9.00	
21-Jun-2000	6.945	4.36	
24-Jul-2000	6.670	0.130	
19-Sep-2000	6.709	0.259	



are only available in 2000 (AMEC 2000) and report an estimated peak instantaneous discharge of 12.5 m<sup>3</sup>/s on the fourth day of runoff in June. The measured discharge at the Char River near Rankin Inlet varied from 0 to 9.45 m<sup>3</sup>/s over the period of record. The reported water surface elevations refer to the levels of Char Lake (as the discharge at the crossing is governed by the Char Lake outlet), with the annual range of water surface elevation of 0.37 m. The channel is moderately meandering, and the bed material consists mainly of gravels and cobbles. It must be noted that the year 2000 can be considered a dry year when compared to the rest of the years with observations from the nearby stations, and that the peak instantaneous discharge may be greater during a normal year. A summary of measurements for the year 2000 is provided in Table 4-25.

**Table 4-25: Mean Daily Hydrometric Data at the Char River near Rankin Inlet, 2000**

Year	Discharge (m <sup>3</sup> /s)		Annual Range of Water Surface Elevation (m)	Note
	Maximum	Minimum		
2000	9.45	0.000	0.37	12-Jun to 19-Sept

Note: m<sup>3</sup>/s = cubic metres per second  
m = metres

### Lake A1

Based on hydrometric data gathered during the open water seasons of 1997 to 2000 and 2008 to 2009, the mean daily discharge at the Lake A1 Outlet varied from 0 to 1.32 m<sup>3</sup>/s over the period of record, with a long term annual range of water surface elevation of 0.54 m. A summary of measurements for each year of available data is provided in Table 4-26.

**Table 4-26: Mean Daily Hydrometric Data at Lake A1, 1997 to 2009**

Year	Discharge (m <sup>3</sup> /s)		Annual Range of Water Surface Elevation (m)	Notes
	Maximum	Minimum		
1997	0.55	0.000	0.37	11-Jun to 25-Sept
1998	1.27	0.000	0.42	5-Jun to 12-Sept
1999	0.916	0.020	0.43	13-May to 20-Sept
2000	1.32	0.009	0.43	13-Jun to 19-Sept
2008	0.065	0.002	0.12	15-Jun to 16-Sept; Peak discharge not captured
2009	0.690	0.017	0.34	11-Jun to 10-Sept; Peak discharge not captured
Entire period of record	1.32	0.000	0.54	

Note: m<sup>3</sup>/s = cubic metres per second  
m = metres

### Lake A6

Based on hydrometric data gathered during the open water seasons of 1997 to 1998, the mean daily discharge at the Lake A6 Outlet varied from 0.00 to 1.18 m<sup>3</sup>/s over the period of record, with a two-year annual range of water surface elevation of 0.43 m. A summary of measurements for each year of available data is provided in Table 4-27.

Haque, Enamul

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**From:** Stephane Robert <stephane.robert@agnicoeagle.com>  
**Sent:** January 27, 2014 1:52 PM  
**To:** Haque, Enamul  
**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Enamul

Finally I will not be able to meet today. I will call you later this afternoon to set a better time to meet.

Thanks

**Stephane Robert**  
**Manager Regulatory Affairs**

[stephane.robert@agnicoeagle.com](mailto:stephane.robert@agnicoeagle.com)

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**AGNICO EAGLE**



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**From:** Haque, Enamul [mailto:EHaque@GOV.NU.CA]

**Sent:** January-27-14 2:37 PM

**To:** Stephane Robert

**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Staphane:

Thanks for your mail. Yes, we can meet today. You are welcome to my office (CGS- Public Works Building). Now I am at office till 5:00 PM.

Regards,

**Enamul Haque, M.A.Sc., P.Eng.**

Project Officer

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**From:** Stephane Robert [<mailto:stephane.robert@agnicoeagle.com>]

**Sent:** January 27, 2014 1:23 PM

**To:** Haque, Enamul

**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Enamul

I'm in Rankin now until 15h Monday and will be back to town on Wednesday afternoon.

I'm available to meet this afternoon or Thursday morning between 08h and 09h.

If you are not available I can try to come to town tomorrow. I will at the Meliadine camp.

Send me an email and I will call you back. My cell don't work here.

Thanks

**Stephane Robert**  
**Manager Regulatory Affairs**

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**AGNICO EAGLE**



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**From:** Haque, Enamul [<mailto:EHaque@GOV.NU.CA>]

**Sent:** January-20-14 4:00 PM

**To:** Stephane Robert

**Cc:** Duguay, Brian

**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Stephane:

Thanks for your quick reply. It looks Golder report will solve my problem. I am close to the solution. I need a full report.

I look forward to seeing you soon.

Thanks

**Enamul Haque, M.A.Sc., P.Eng.**  
**Project Officer**  
**Community & Government Services**

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**From:** Stephane Robert [<mailto:stephane.robert@agnicoeagle.com>]

**Sent:** January 20, 2014 2:41 PM

**To:** Haque, Enamul

**Cc:** Duguay, Brian

**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Enamul

For the flow of Char River, it was done in 2000. I just send you the page related to the Char River bridge (report is too big) but I can give you a copy of the full report next week when I will be in Rankin.

For DFO, we don't have any habitat compensation for Char River because we did not touch the river bed.

If you have more questions don't hesitate to contact me.

Stephane Robert  
Manager Regulatory Affairs

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**AGNICO EAGLE**



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**From:** Haque, Enamul [<mailto:EHaque@GOV.NU.CA>]

**Sent:** January-20-14 12:39 PM

**To:** Stephane Robert

**Cc:** Duguay, Brian

**Subject:** FW: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Good Morning Stephane:

I am dealing with some compliance issues with Nunavut Water Board regarding the amendment of Rankin Inlet Water License. I requested some information regarding the agreement existing between DFO and Anginco-Eagle Mines Ltd.(Please see the mail below) and Elizabeth has referred to you for this information. Our plan is to pump some water from Char River to supplement Nipissar Lake water for Municipal Water Supply (about 10% flow during July to

September). I am referring here again the following issues raised by the NWB for your consideration and providing me with necessary information:

Item # 1 Char River Flow data availability (maybe from Agnico-Eagle Mines Ltd.?). If no flow information available, would it be possible to get and provide flow data in the future.

Item # 2 Confirmation from DFO that withdrawal of water from Char River wouldn't affect the existing fish habitat compensation agreement (an agreement exists between DFO and Agnico Eagle Mines Ltd.)

So, could you please provide me with the flow data of the Char River you might have used while entering into the contract with DFO and a copy of DFO-Agnico Eagle agreements on the Char river fish habitat project.

Your cooperation will be highly appreciated.

Thanks

**Enamul Haque, M.A.Sc., P.Eng.**  
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**From:** Patreau, Elizabeth [<mailto:Elizabeth.Patreau@dfo-mpo.gc.ca>]

**Sent:** January 20, 2014 9:05 AM

**To:** Haque, Enamul

**Cc:** Duguay, Brian; Fisheries Protection

**Subject:** RE: Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Hi Enamul,

Under DFO's Fisheries Protection Program new process, all new project proposals are triaged by our Burlington office. They have reviewed the Rankin Inlet water supply project and indicated they have no concerns and no Fisheries Act Authorization would be required. This information was forwarded to the Nunavut Water Board on Dec.30, 2013.

Regarding your questions:

Item # 1 Char River Flow data availability (maybe from Agnico-Eagle Mines Ltd.?). If no flow information available, would it be possible to get and provide flow data in the future.

DFO does not have this information, so yes, likely your best option is Agnico Eagle. My contact is Stephane Robert ([stephane.robert@agnicoeagle.com](mailto:stephane.robert@agnicoeagle.com))

Item # 2 Confirmation from DFO that withdrawal of water from Char River wouldn't affect the existing fish habitat compensation agreement (an agreement exists between DFO and Agnico Eagle Mines Ltd.)

Regarding this item, I submitted a similar question to the Water Board on Sept.12, 2013. I did not receive a response. I cannot confirm that this water withdrawal project will or will not affect the Char River fish habitat compensation project as I do not have detailed information in that regard. I should think any concern regarding the compensation project would be of equal concern to the Proponent of those works (Agnico Eagle). I would



recommend this question be forwarded to Agnico also to see if they foresee any impact to the Char River fish habitat as a result of additional water withdrawal.

I hope the above helps.

Regards,

**Elizabeth Patreau**

Senior Fisheries Protection Biologist

Telephone - Téléphone: 867 979-8019

Email - Courriel: [Elizabeth.Patreau@dfo-mpo.gc.ca](mailto:Elizabeth.Patreau@dfo-mpo.gc.ca)

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**From:** Haque, Enamul [\[mailto:E.Haque@GOV.NU.CA\]](mailto:E.Haque@GOV.NU.CA)

**Sent:** January 17, 2014 4:11 PM

**To:** Patreau, Elizabeth

**Cc:** Duguay, Brian

**Subject:** Confirmation from DFO for No Objection regarding the use of Char River water to supplement municipal water supply

Good Afternoon Elizabeth:

Further to my telephone call to you today, I am writing to inform you that on January 14 and 15, 2014, we the CGS officials attended a two-day pre-hearing meeting with the Nunavut Water Board regarding the application for amendment to the Nunavut Water License for Rankin Inlet.

Please find the attached prehearing recommendations to be addressed by CGS

- 1) Summary of pre-hearing commitments –this item was a discussion item and several issues were raised in the pre-hearing conference that need to be addressed/submitted as the next steps in the NW8 Process moving forward to the full public hearing, this item has two specific requests (Item # 1 and Item # 2) that relate to the Agnico Eagle Meladine project and the Char River.

Item # 1 Char River Flow data availability (maybe from Agnico-Eagle Mines Ltd.?). If no flow information available, would it be possible to get and provide flow data in the future.

Item # 2 Confirmation from DFO that withdrawal of water from Char River wouldn't affect the existing fish habitat compensation agreement (an agreement exists between DFO and Agnico Eagle Mines Ltd.)

Please have a look at these, and provide us with your comments so that we can begin the process in finalizing these commitments. Could you please provide us with a copy of DFO-Agnico Eagle agreements on Char river fish habitat project.


Should you have any questions or concerns, please do not hesitate to contact me either by phone or email.

Regards,

**Enamul Haque, M.A.Sc., P.Eng.**  
Project Officer

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