

**Shoulderblade Falls
Water Management Plan Implementation Report 2019**



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1.0 Introduction

In adherence with the Technical Bulletin 'Maintaining Water Management Plans' (MNRF, 2016), this document serves as the first 5-year Implementation Report for the Shoulderblade Falls Water Management Plan (WMP).

The Shoulderblade Falls Mini-Hydroelectric Generation Station (HGS) is a 490 kW mini-hydroelectric generating station, located on the Severn River, Northeast of the remote community of Deer Lake, ON. The generating station and associated distribution line are owned and operated by Hydro One Remote Communities Inc. (HORCI).

The original Shoulderblade Falls WMP was submitted in 2005, and a revised WMP was submitted in 2012. The expiry date for the revised WMP was removed by the MNRF through Amendment 2017-1 in 2017. This is the first Implementation Report for the WMP, to be submitted by December 31, 2019, as per the 'Water Management Plan Implementation Report Schedule' (MNRF, 2018).

This Implementation Report contains a summary of all amendment requests received for the WMP, a status update on the Standing Advisory Committee, and compliance monitoring information.

2.0 Amendment Requests

Section 2.0 contains a summary of each amendment received for the Shoulderblade Falls Water Management Plan (WMP).

2.1 Amendment 2017-1

Date Received:	July 25, 2017
Date Enacted:	August 15, 2017
Title:	Alignment with Lakes and Rivers Act Technical Bulletin entitled 'Maintaining Water Management Plans'
Amendment Type:	Administrative
Requested By:	MNRF
Description:	This amendment removes the WMP expiry date of December 31, 2017.
Rationale:	With the replacement of 'Water Management Planning Guidelines for Waterpower' (2002) with 'Maintaining Water Management Plans Technical Bulletin (2016), changes must be made to WMPs planned using the redacted document.
Consultation:	There is no consultation required for administrative amendments.

2.2 Amendment 2017-2

Date Received:	July 25, 2017
Date Enacted:	August 15, 2017
Title:	Alignment with Lakes and Rivers Act Technical Bulletin entitled 'Maintaining Water Management Plans'
Amendment Type:	Administrative

Requested By:	MNRF
Description:	This amendment clarifies the requirements for compliance self-reporting, and removes the 10 year review and renewal requirements.
Rationale:	With the replacement of 'Water Management Planning Guidelines for Waterpower' (2002) with 'Maintaining Water Management Plans Technical Bulletin (2016), changes must be made to WMPs planned using the redacted document.
Consultation:	There is no consultation required for administrative amendments.

3.0 Standing Advisory Committee

As the Shoulderblade Falls Water Management Plan is categorized as Simplified, there is no Standing Advisory Committee (SAC).

HORCI does however hold an annual meeting with Deer Lake First Nation. These meetings serve as a way for the community to remain informed about station performance, maintenance, fuel savings, the WMP, and other aspects of the site and station operations. These meeting also provide a forum where community members can participate in an open discussion about the facility, and raise any questions or concerns they have.

4.0 Compliance Monitoring

As outlined in the WMP, the Shoulderblade Falls hydro facility has no control over water levels or flows in the Severn River beyond the immediate station area. As such, river flow monitoring is not required to comply with the WMP.

Hydro One Remote Communities Inc. does collect and record station output, as well as headwater and tailwater levels in the immediate vicinity of the facility, using a Supervisory Control and Data Acquisition (SCADA) system. This data can be made available to Deer Lake First Nation, Indigenous and Northern Affairs Canada (INAC), and the MNRF upon request. As an example, the Hydel Daily Production for 2018 has been plotted in Figure 1, and the headwater and tailwater levels for the facility in 2018 have been plotted in Figure 2.

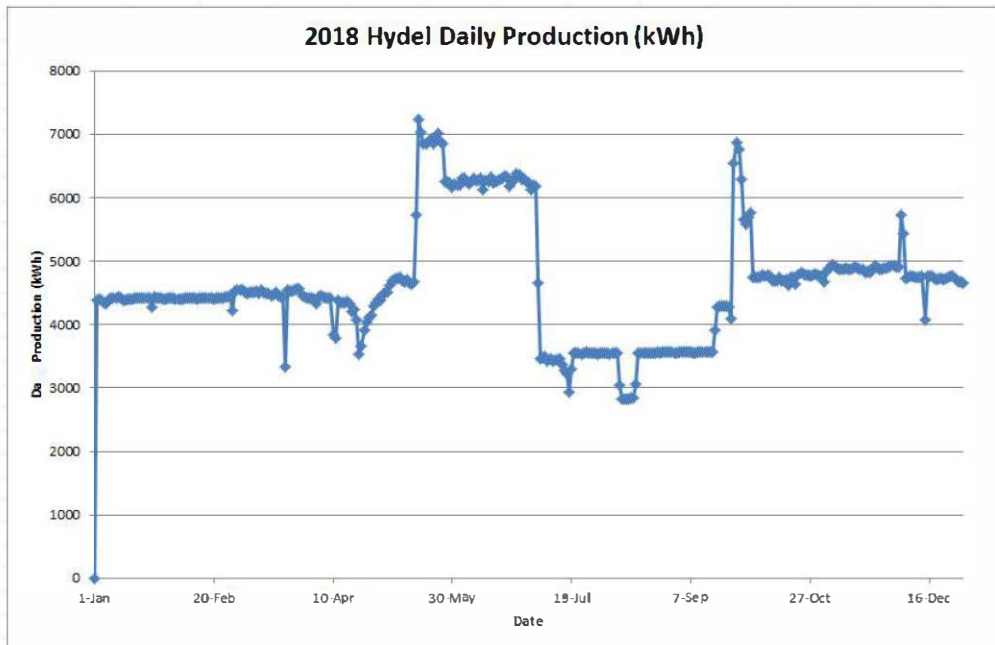


Figure 1: Hydel Daily Production for 2018

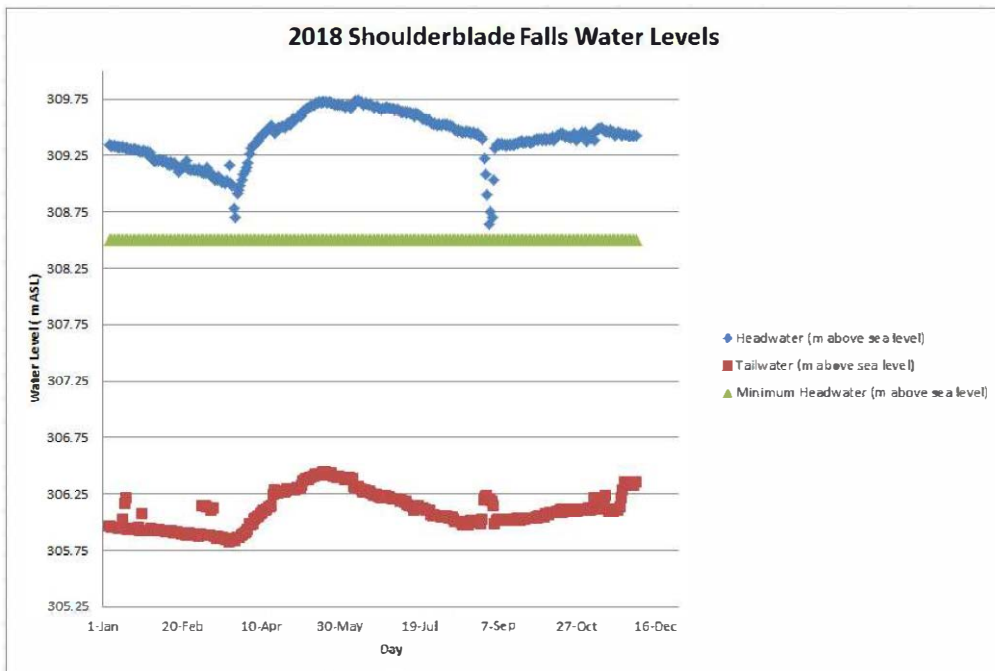


Figure 2: Headwater and Tailwater Level Data for 2018