



December 8, 2021

## Blind River GS Monthly Report – November 2021

### Production

Unit #1 (to Town Hall):

RGM: 18,906.00 kWh

*RGM = Revenue Grade Meter*

Unit #2 (to STP):

RGM: 3,413 kWh

### Downtime

Unit #1 was down for 8 days (Nov. 1<sup>st</sup> & 2<sup>nd</sup>, Nov. 9<sup>th</sup> to Nov. 11<sup>th</sup>, and Nov. 21<sup>st</sup> to 23<sup>rd</sup>).

Unit #2 was down for 24 days (Nov. 1 to Nov. 24th), as we were waiting for Canadian Hydro Component to refurbish the runner assembly and attend the site.

### Maintenance

64.25 hours onsite for regular maintenance service, and 27 hours of on call coverage.

- A summary of the work completed includes: headgate operation, troubleshooting hydraulic powerpack, part cleaning, and daily checks that include sweeping, level recording, alarm testing, gutter cleaning and trash rack cleaning.
- Monthly Alarm testing was completed on November 5<sup>th</sup>. Signals were received at the station. One water level sensor is broken and we have applied a temporary fix until we can have it remedied in the new year.
- General cleaning was performed regularly, including disinfecting of high touch points and shared equipment and tools.

### Repair Work

18 hours onsite.

Unit #1:

- Adjusted packing flange to tighten until leakage was proper for operation. Had a power bump and hydraulic powerpack was unable to operate. Performed troubleshooting on system and determined there was a bad fuse and a contactor that needed to be reset. Unit was ready to start.

Unit #2:

- On November 24, CHC attended the site along with the repaired parts for unit 2. They assisted us with the reinstallation of the runner assembly, ensuring the blade pitch was set to maximize unit output. Reassembly was completed on the 25<sup>th</sup>. On the 26<sup>th</sup> we tightened and aligned the belt and

leveled the generator and were up and running by the end of the day. We have updated the procedure manual we have made for the dam to include semi annual torquing of the two pilot bearing set screws that are sealed inside the turbine and regular torquing of the two that are accessible when the headgate is sealed, and the unit is stationary.

## **Other Issues**

As noted in previous reports there is a significant leak under the logs in the bay closest to the mechanical gate. The MNR was out to inspect and advised us to seal the logs better until we can pull all of the logs in the spring. MNR secured the item they believe is causing the leak and want us to pull it as we pull the logs in the spring.

If the water levels allow this to occur sooner this fall, we may do so.

Also noted in previous reports, there is a leak in the mechanical gate. The MNR was out to inspect the gate and they advised us that the obstruction appears to be a rock and that it should clear over time (expected to clear with freshet when gate is opened all the way).

## **Water Management**

During this month, the Target Water Level range was from 0.60 to 0.66 and the Compliance Water Level range was from 0.60 to 0.76. We are to stay within these levels from November 1<sup>st</sup> to November 30<sup>th</sup>. We dropped under compliance from September 18<sup>th</sup> to 21<sup>st</sup> as flows from upstream had also slowed down. We did not run the generator while we recovered our water level.

The MNR contacted us to provide our levels and record of operation at the start of the month for the year prior so that they could investigate our WMP compliance and address a water level complaint they had received. They had been informed that we were suspected of operating the turbines with disregard for the minimum water level. Our records were able to confirm this was not the case and we try to minimize our out of compliance incidents to the best of our ability.

Figure 1 is a graph of the water level from November 1<sup>st</sup> to November 30<sup>th</sup>.

Figure 2 is the chart with the exact water levels and number of logs out (or equivalent).

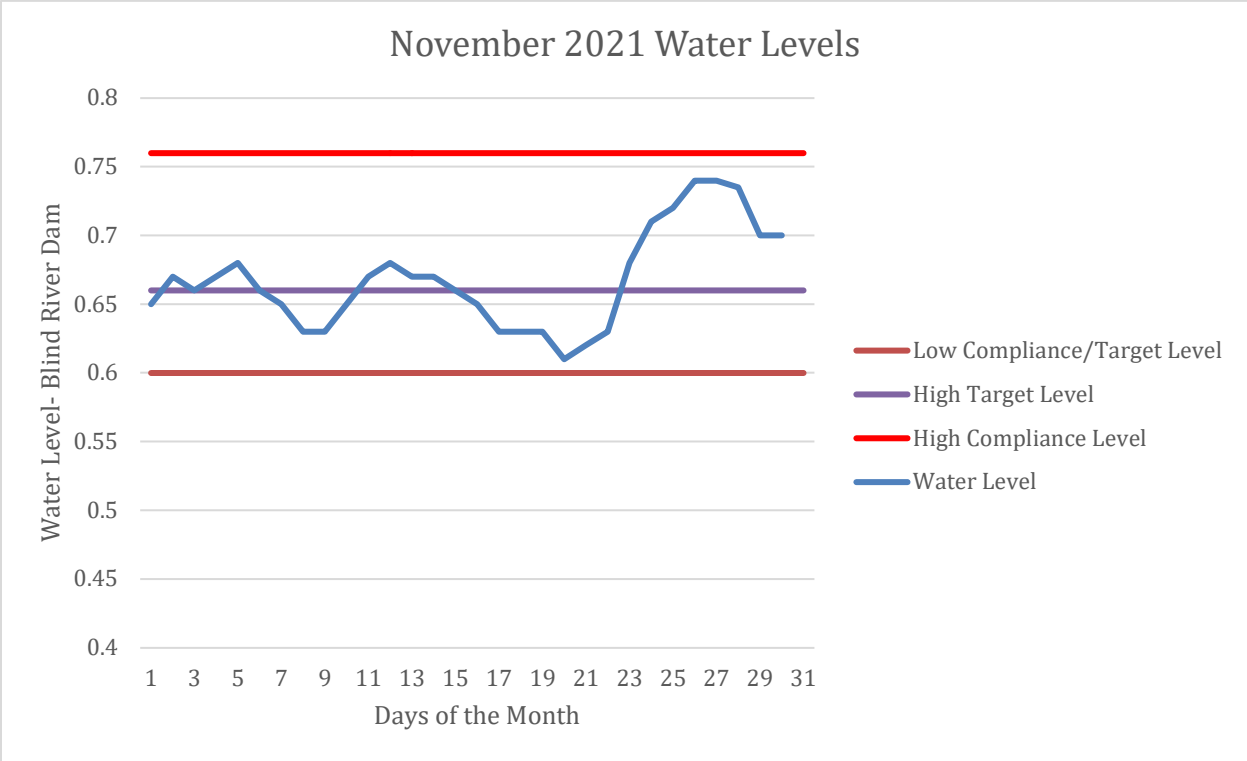


Figure 1: Water Level Graph

# 2021 MONTHLY WATER LEVEL LOG

<b>Generating Station:</b>	<b>Town Dam</b>		<b>Month:</b>	<b>November</b>
	WMP Compliance Range:			.60 to .76 mStaff
<b>Date</b>	<b>Water Level</b>	<b>Ruler</b>	<b>Logs Out</b> Including Equivalent Flow From Turbines	<b>Comments/Actions</b>
November 1, 2021	0.65	557	2	
November 2, 2021	0.67	557	2	
November 3, 2021	0.66	557	2	
November 4, 2021	0.67	557	2	
November 5, 2021	0.68	557	2	
November 6, 2021	0.66	557	2	
November 7, 2021	0.65	557	2	
November 8, 2021	0.63	557	2	
November 9, 2021	0.63	557	0	
November 10, 2021	0.65	557	0	
November 11, 2021	0.67	557	0	
November 12, 2021	0.68	557	2	
November 13, 2021	0.67	557	2	
November 14, 2021	0.67	557	2	
November 15, 2021	0.66	557	2	
November 16, 2021	0.65	557	2	
November 17, 2021	0.63	557	2	
November 18, 2021	0.63	Dam	2	

November 19, 2021	0.63	557	0	
November 20, 2021	0.61	557	2	
November 21, 2021	0.62	557	0	
November 22, 2021	0.63	557	0	
November 23, 2021	0.68	557	0	
November 24, 2021	0.71	557	0	
November 25, 2021	0.72	557	2	
November 26, 2021	0.74	557	4	
November 27, 2021	0.74	557	4	
November 28, 2021	0.735	557	4	
November 29, 2021	0.7	557	4	
November 30, 2021	0.7	557	4	

Figure 2: Water Level Chart