

Blind River GS Monthly Report – April 2021

Production

Unit #1 produced 12513.51 kWh in April. Unit #2 produced 23158.6 kWh in April.

Downtime

#1 was shut down at the end of March after noticing a new sound and seeing some unusual vibration in the tailrace. We had to wait to open the top cover until the davit crane was inspected for service. After the crane passed its annual inspection, the top cover was lifted we were not able to see any objects around the blades nor protruding through the wickets. Due to heavy water flow still passing through on the bottom half of the wickets, we opened the side hatch as well, hoping to be able to see better from a different angle. We were able to retrieve a large branch that had gotten into the turbine, wedged itself through the bottom wickets and was being clipped by the blades.

Once it was removed and inspection confirmed everything else was in good order, the unit was resealed, the headgate was opened and #1 was started. The sound was gone, and the excessive vibration in the tailrace water was gone as well.

Maintenance

- Over 75 hours onsite for cleaning the trash rack, greasing, adjusting mechanical gate, working on unit #1 and on call coverage.
- General cleaning was performed regularly, including disinfecting of high touch points.
- The davit crane received its annual inspection and was cleared for service. We have not been provided a sticker for the inspection yet, however, it will be placed on it as soon as it arrives.

Other Issues

There is still a significant leak under the logs in the bay closest to the mechanical gate. MNR is aware and will be out to reinspect over the next month.

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 April 1st to May 31st. We drew down to the lower end of compliance on the 19th to make room for rain we were receiving. We were able to stay in compliance during this storm as a result, as well as for the rest of the month.

We received no water level complaints in April.

Figure 1 is a graph of the water level from April 1st to April 30th.

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

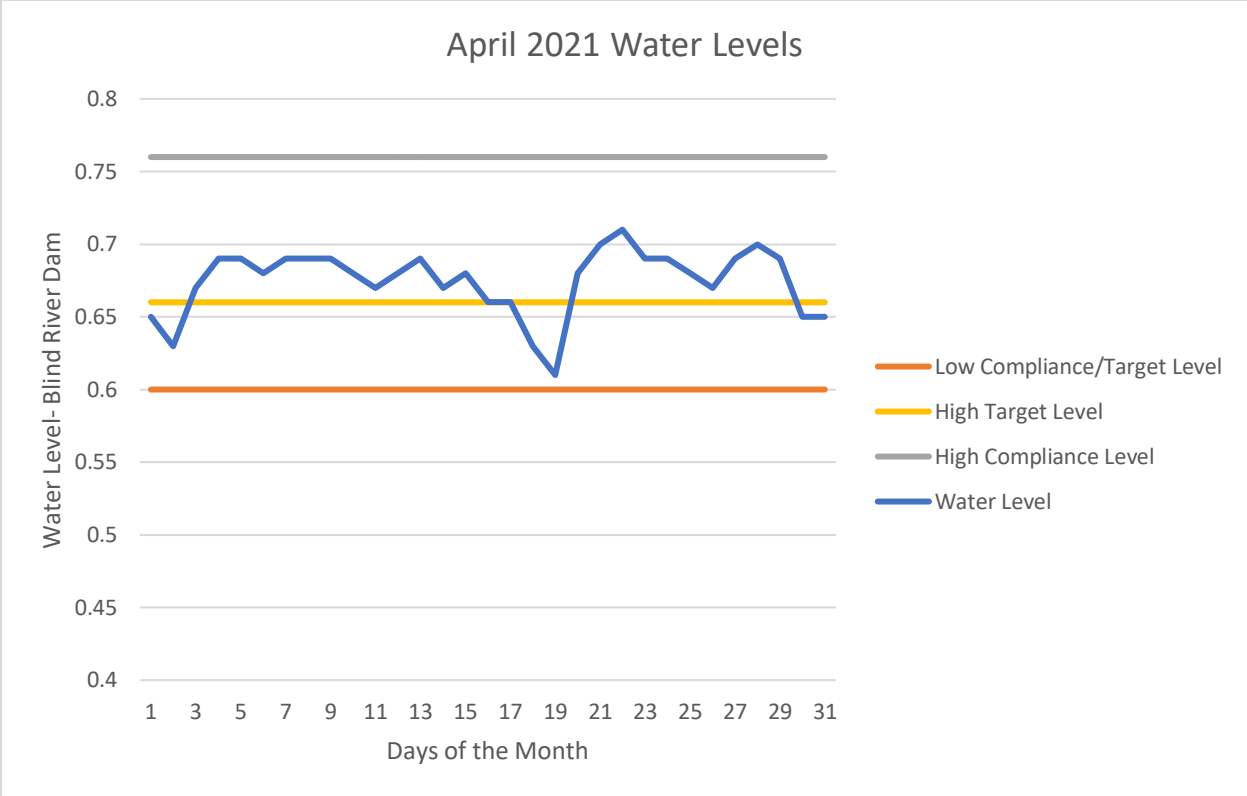


Figure 1: Water Level Graph

2021 MONTHLY WATER LEVEL LOG

Generating Station:	Town Dam		Month:	April
			WMP Compliance Range:	.60 to .76 mStaff
Date	Water Level	Ruler	Logs Out & Equivalent Flow	Comments/Actions
April 1, 2021	0.65	557	6	
April 2, 2021	0.63	557	4	
April 3, 2021	0.67	557	4	
April 4, 2021	0.69	557	5	
April 5, 2021	0.69	557	5	
April 6, 2021	0.68	557	5	
April 7, 2021	0.69	557	5.5	
April 8, 2021	0.69	557	5.5	
April 9, 2021	0.69	557	6.5	
April 10, 2021	0.68	557	6.5	
April 11, 2021	0.67	Dam	6.5	
April 12, 2021	0.68	557	6.5	
April 13, 2021	0.69	557	8	
April 14, 2021	0.67	557	7	
April 15, 2021	0.68	557	8	
April 16, 2021	0.66	557	8	
April 17, 2021	0.66	557	8	
April 18, 2021	0.63	557	8	
April 19, 2021	0.61	557	5	
April 20, 2021	0.68	557	5	
April 21, 2021	0.7	557	7.5	
April 22, 2021	0.71	557	8	
April 23, 2021	0.69	557	7	
April 24, 2021	0.69	557	7	
April 25, 2021	0.68	557	7	
April 26, 2021	0.67	557	6.5	
April 27, 2021	0.69	557	7.5	
April 28, 2021	0.7	557	8.5	
April 29, 2021	0.69	557	9	
April 30, 2021	0.65	557		

Figure 2: Water Level Chart