

Blind River GS Monthly Report – March 2022

Production

Unit #1 (to Town Hall):

RGM: 00.00 kWh

RGM = Revenue Grade Meter

Unit #2 (to STP):

RGM: 25,534 kWh

Downtime

Unit #1 was down for the month.

Unit #2 was offline for 0 days in March and was only shut down briefly for regular maintenance.

Maintenance

Over 64 hours onsite for regular maintenance service, and over 29 hours of on call coverage.

- A summary of the work completed includes: ruler reading, trash rack cleaning, log pulls, mechanical gate adjustment, shovelling, sanding and ice chipping, sweeping, etc.
- Monthly Alarm testing was completed on March 10th. No false calls for first high water alarm this month, so will hold on to scheduling service. We have cameras inside to investigate remotely if needed.
- General cleaning was performed regularly, including disinfecting of high touch points and shared equipment and tools.
- Greasing of the generator bearings was completed on the 31st.
- Control ring of unit 2 was also greased.
- IR imaging was completed on the 31st to determine procedure to be added to preventative maintenance plan at this site.
- Unit 2 had a belt adjustment while offline for greasing.
- Sumps were checked to confirm they are both operational.
- H&S inspection was completed on the 9th. Davit crane is due for annual inspection in June, along with hoisting gear.

Repair Work

Powerhouse:

- The lighting fixtures were inspected last month as one was out. We are looking into replacing bulbs where possible but may have to change out the ballast. Lighting is still adequate, so this will be scheduled when both units are down during the summer.
- Water coming into the plant through the ceiling will need to be investigated as it is becoming a hazard. We will plan to investigate this during summer down time also. We may need to hose down the roof to find the source. Suspect a hole in membrane or build up around the hatches.

Unit #1:

- Still needs to be opened, which means we need to drop and raise the headgate. We have an engineering team in SSM that will assist us with calculating the load on the headgates once the headgates are weighed. The contractor to weigh them will be out to site in April. They will weigh a raised headgate and we will work to have the engineering team calculate the hydraulic pressure on the gate when the headgate is sealed, and the turbine is dewatered. Once this is finalized, we can ensure the new hoist is adequately rated for safe lifting and we can install a properly rated anchor on the gate since the old rotted out and is no longer present.

Unit #2:

- None.

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. We believe this will be completed next month.

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 0.68. We are to stay within these levels for the month of March.

On March 7th we dipped under compliance at the 557 by .5cm for approximately 4 hours. On March 22nd we went over compliance by 1 cm as the rain received Saturday followed by a little run off on Sunday (10C) made its way down the watershed. We returned to compliance the following day.

Figure 1 is a graph of the water level from March 1st to March 31st.

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

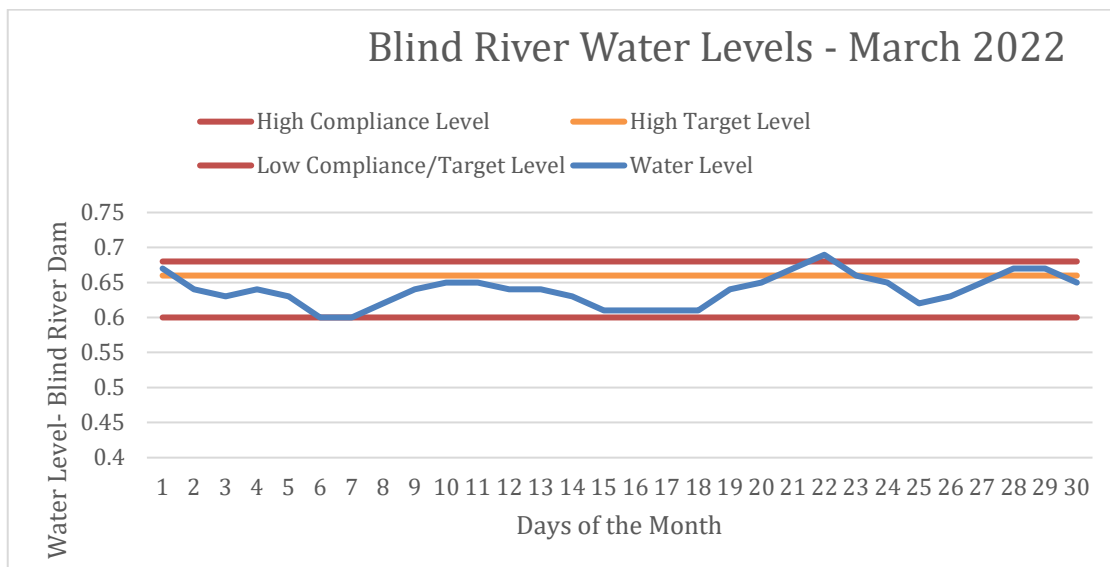


Figure 1: Water Level Graph

2022 MONTHLY WATER LEVEL LOG

Generating Station: Town Dam		Month: March		
WMP Compliance Range:			.60 to .68 m Staff	
Date	Water Level	Ruler	Logs Out _s Equivalent Flow	Comments/Actions
March 1, 2022	0.67	557	5	
March 2, 2022	0.64	557	5	
March 3, 2022	0.63	557	4	
March 4, 2022	0.64	557	4	
March 5, 2022	0.63	557	4.5	freezing rain / rain / snow (weather warning tonight)
March 6, 2022	0.6	557	6	+4
March 7, 2022	0.6	557	4.5	Was just above .59 for approx 4 hours before .60 read
March 8, 2022	0.62	557	3.5	
March 9, 2022	0.64	557	9	
March 10, 2022	0.65	557	9	
March 11, 2022	0.65	557	10.5	.63 at Dam
March 12, 2022	0.64	557	10.5	
March 13, 2022	0.64	557	10.5	
March 14, 2022	0.63	557	10.5	
March 15, 2022	0.61	557	10.5	
March 16, 2022	0.61	557	10.5	
March 17, 2022	0.61	557	10.5	
March 18, 2022	0.61	557	8	
March 19, 2022	0.64	557	10	Rain all day
March 20, 2022	0.65	557	10	+10
March 21, 2022	0.67	557	11	
March 22, 2022	0.69	557	13	
March 23, 2022	0.66	557	13	
March 24, 2022	0.65	557	13	
March 25, 2022	0.62	557	12	
March 26, 2022	0.63	557	12	
March 27, 2022	0.65	557	12	
March 28, 2022	0.67	557	12	
March 29, 2022	0.67	557	12	
March 30, 2022	0.65	557	17	
March 31, 2022	0.64	557	17	

Figure 2: Water Level Chart