

## **MADAWASKA RIVER – WATER LEVELS & FLOWS**

### **CURRENT STRATEGY**

**DATE: April 20, 2018**

Slowly refill Bark Lake and Mountain Chute by the middle of May.

Pass inflow at all other sites on a daily or weekly basis.

Inflows are expected to increase through the week due to warmer temperatures and melting snow.

<b>BARK LAKE</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Min. Level (m)	309.20	309.26	309.31	309.39	309.48	309.55	309.62	309.60
Max. Level (m)	309.26	309.33	309.41	309.48	309.56	309.62	309.69	311.00
Avg. Flow (m <sup>3</sup> /s)	4.3	3.2	3.3	3.3	3.3	3.2	3.3	3-80
<b>Comments:</b>								
The normal operating range is 304.70 to 313.94 m. The 3-day average inflow is 34 m <sup>3</sup> /s. The discharge is currently 3 m <sup>3</sup> /s.								

<b>KAMANISKEG LAKE (PALMER RAPIDS DAM)</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Upper Gauge Min. Level (m)	282.83	282.83	282.83	282.85	282.88	282.90	282.90	282.85
Upper Gauge Max. Level (m)	282.84	282.84	282.85	282.88	282.90	282.92	282.92	283.10
Barry's Bay Min. Level (m)	282.87	282.88	282.89	282.91	282.92	282.95	282.94	282.90
Barry's Bay Max. Level (m)	282.88	282.89	282.91	282.92	282.95	282.96	282.95	283.20
Avg. Flow (m <sup>3</sup> /s)	53.6	54.0	54.4	55.5	56.7	62.4	67.7	40-200
<b>Comments:</b>								
The normal operating range is 282.24 m to 283.46 m. The flow from Kamanisseg Lake dam (Palmer Rapids) is currently 57 m <sup>3</sup> /s.								

<b>MOUNTAIN CHUTE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Min. Level (m)	244.48	244.72	244.86	244.96	245.10	245.17	245.23	245.00
Max. Level (m)	244.71	244.90	244.99	245.09	245.20	245.26	245.32	246.00
Station Operation (hr/day)	3	7	8	8	11	11	14	9-24
Avg. Flow (m <sup>3</sup> /s)	21	51	62	58	80	80	102	60-210
<b>Comments:</b> The normal operating range is 243.80 to 248.40 m. Expect daily water level fluctuations of up to 30 cm. The 3-day average inflow is 102 m <sup>3</sup> /s.								

<b>BARRETT CHUTE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Min. Level (m)	200.87	200.84	200.86	200.87	200.82	200.85	200.90	200.70
Max. Level (m)	201.01	200.92	200.94	200.95	200.96	200.98	200.98	201.06
Station Operation (hr/day)	5	9	11	11	14	14	16	6-24
Avg. Flow (m <sup>3</sup> /s)	27	54	65	66	83	84	106	60-210
<b>Comments:</b> The normal operating range is 198.73 to 201.17 m. Expect daily water level fluctuations of up to 30 cm.								

<b>CALABOGIE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Min. Level (m)	153.91	153.78	153.86	153.87	153.84	153.87	153.84	153.60
Max. Level (m)	154.01	153.92	153.94	153.99	153.98	154.00	153.98	154.10
Station Operation (hr/day)	24	24	24	24	24	24	24	24
Avg. Flow (m <sup>3</sup> /s)	38	67	66	78	90	97	118	60-220
<b>Comments:</b> The normal operating range is 153.56 to 154.10 m. Expect daily water level fluctuations of up to 30 cm.								

<b>STEWARTVILLE GS</b>	<b>Observed Data</b>							<b>Weekly Plan</b>
	<b>Apr-13</b>	<b>Apr-14</b>	<b>Apr-15</b>	<b>Apr-16</b>	<b>Apr-17</b>	<b>Apr-18</b>	<b>Apr-19</b>	
Min. Level (m)	144.21	144.22	144.14	144.07	144.22	144.15	144.38	144.00
Max. Level (m)	144.45	144.42	144.41	144.41	144.76	144.67	144.56	144.78
Station Operation (hr/day)	12	11	13	16	15	17	18	11-24
Avg. Flow (m <sup>3</sup> /s)	44	75	74	86	107	99	127	60-230
<b>Comments:</b> The normal operating range is 143.50 to 144.78 m. The current operating range is 144.00 to 144.78 m. Expect daily water level fluctuations of up to 75 cm.								

ARNPRIOR GS	Observed Data							Weekly Plan
	Apr-13	Apr-14	Apr-15	Apr-16	Apr-17	Apr-18	Apr-19	
Min. Level (m)	98.84	98.81	98.82	98.81	98.84	98.82	98.83	98.76
Max. Level (m)	98.96	98.89	98.91	98.93	98.96	98.95	98.90	99.00
Station Operation (hr/day)	7	10	10	12	13	13	16	9-24
Avg. Flow (m <sup>3</sup> /s)	57	89	85	100	121	114	140	60-250
<b>Comments:</b> The normal operating range is 98.76 to 99.06 m. Expect daily water level fluctuations of up to 20 cm.								

**Note:** Generating Station (GS) Maximum and Minimum levels are taken from calculated average hourly levels based on minute resolution data.

**For further information please contact**

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