



NOTTAWASAGA VALLEY WATER RESPONSE TEAM

LOW WATER CONDITIONS REPORT

Date: September 6, 2011

Prepared by: Brian Smith, Chair Nottawasaga Valley Water Response Team & Water Resources Technologist, NVCA

RECOMMENDATION

1. The Innisfil Creek watershed has average flows that are above the Level 1 criterion for the 4th consecutive reporting period. It is recommended that the Innisfil Creek system be removed from Level 1 low water status.
2. Updated information from Water Survey of Canada shows that the low flow values of the stage/discharge curve for the Mad River near Avening gauge are significantly higher than those used in the original low flow calculations. The flow values at the gauge are well above the Level 1 low flow criterion. It is therefore recommended that the Mad River near Avening be removed from Level 1 low water status.

Summary

1. During the past week, the Nottawasaga Watershed received between 15 and 25 millimeters of precipitation.
2. Weather forecasts suggest that the next week be cooler with potential scattered showers in the forecast.
3. All of our monitored watercourses have flows above Level 1 low water criterion.

WEATHER STATISTICS

Rainfall

The **Level 1** Low Water precipitation indicator is 80% of the 3 month average precipitation. This precipitation is compared to same time period historical information obtained through Environment Canada Monitoring Station at Egbert, Ontario. The historic precipitation average for this period was 252.0 mm. The Level 1 low water criterion for this reporting period is therefore **201.6** mm.

All of our rain gauges reported amounts above the level 1 low water criterion. The rain data from the Mad River at Avening Gauge was not available for this report.

Location	<u>Precipitation Indicator #1</u> (3 mth. actual ÷ 3 mth. long-term)		<u>Precipitation Indicator #2</u>
	3-Month Actual Precipitation (mm)	% of Historical Precipitation Average	# of Consecutive Weeks without 7.6 mm Rain
Minesing (Willow Creek Gauge)	214.6	106	0
Petun C.A.	220.2	109	0
Innisfil Golf Club	171.8	90	0
Oro-Medonte Fire Office	205.2	102	0

STREAM FLOWS

The **Level 1** low water indicator for flow is defined as 70% of the lowest average summer flow for a watercourse.

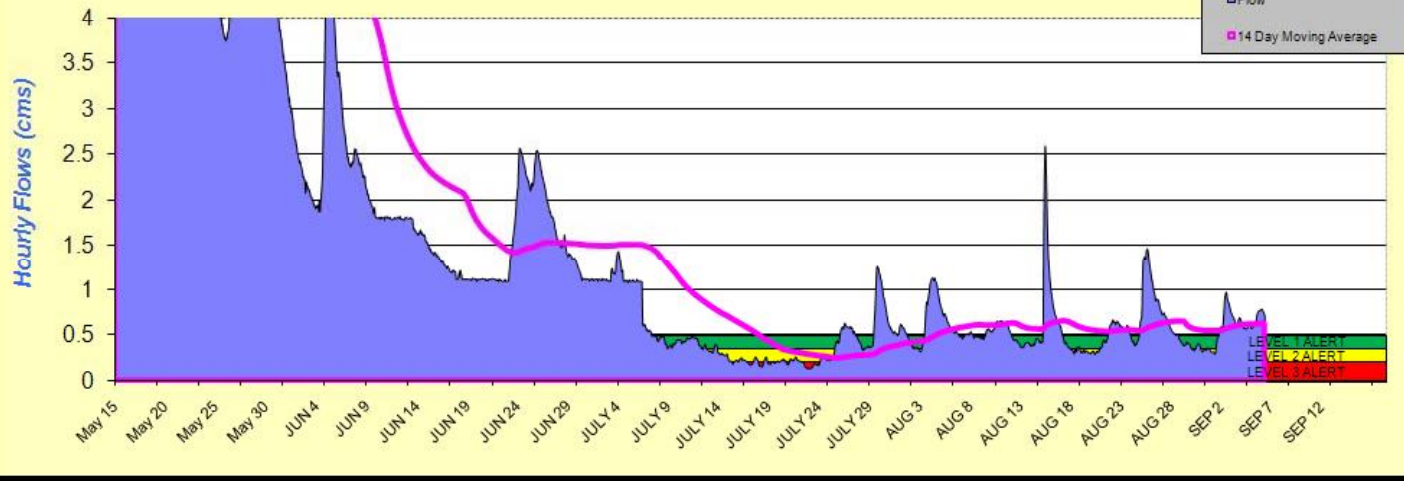
A *14 day moving average is used to indicate the current flow condition of the watercourse. The average is used to smooth out the spikes and troughs of the stream flow data to provide a more accurate representation. All flows are in cubic meters per second (c.m.s.).

<u>Location</u>	<u>*14 Day Average Flow Sept 6</u>	<u>Level 1 Indicator</u>	<u>% of Level 1</u>
Innisfil Creek near Alliston	0.570	0.506	112
Beeton Creek near Tottenham	0.205	0.169	121
Nottawasaga River near Baxter	5.191	2.541	204
Nottawasaga River near Alliston	1.627	1.481	148
Boyne River at Earl Rowe Park	0.926	0.622	149
Pine River near Everett	1.208	0.791	132

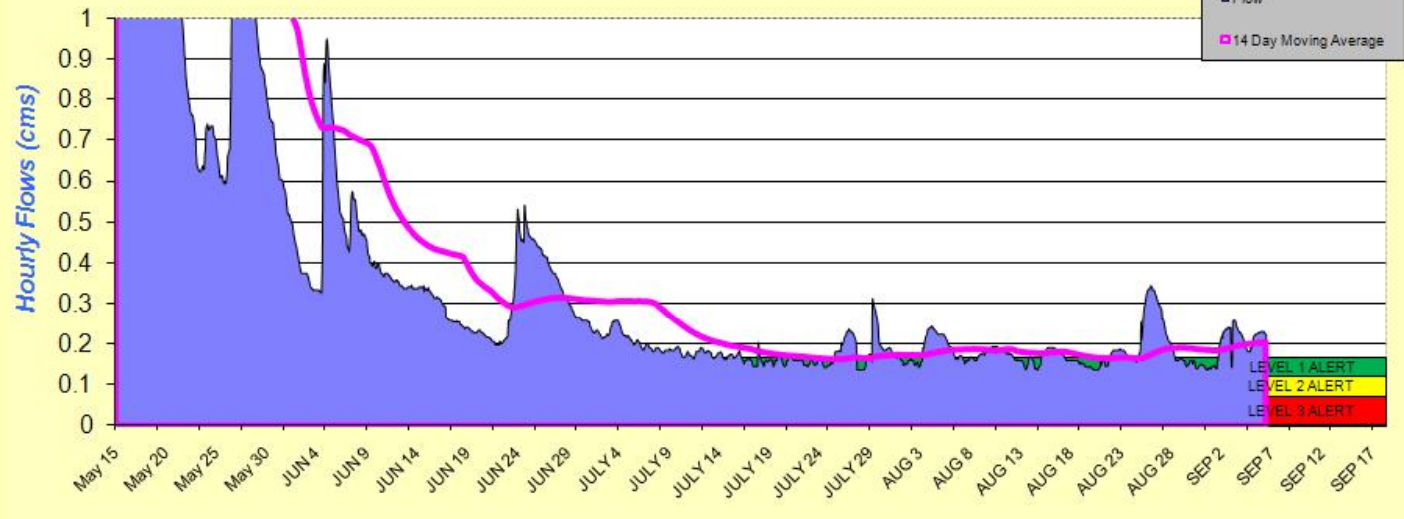
Note: Data from the Nottawasaga River at Edenvale, the Mad River at Avening, the Nottawasaga River at Hockley, and the Pretty River near Collingwood were not included in the report.

The next Water Response Team report will be issued on September 19, 2011.

Summer 2011
Provisional Flows from Innisfil Creek near Alliston
02ED029

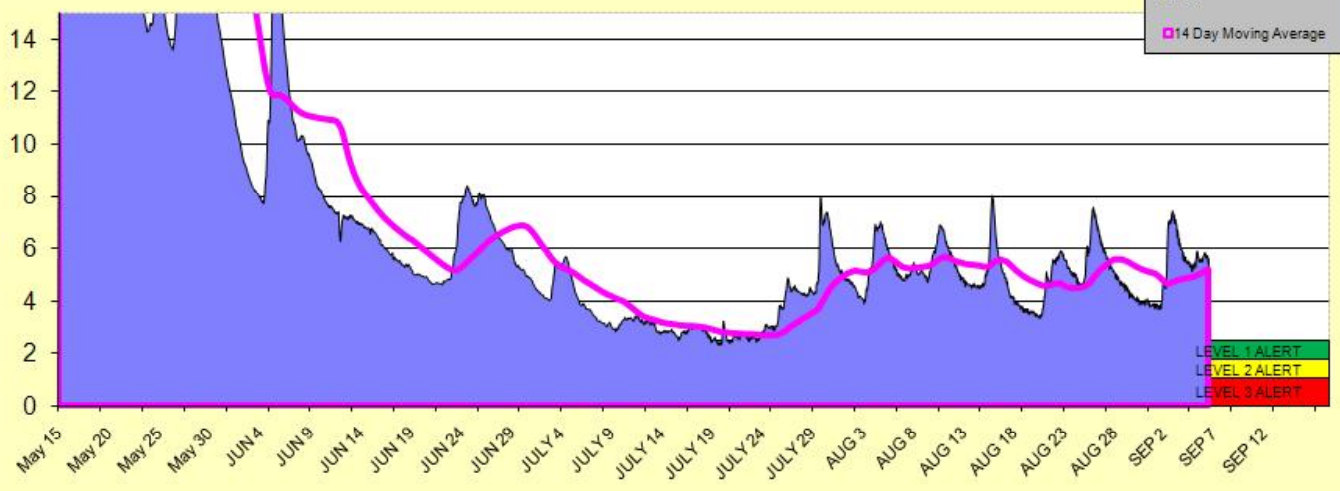


Summer 2011
Provisional Flows from Beeton Creek near Tottenham
02ED100



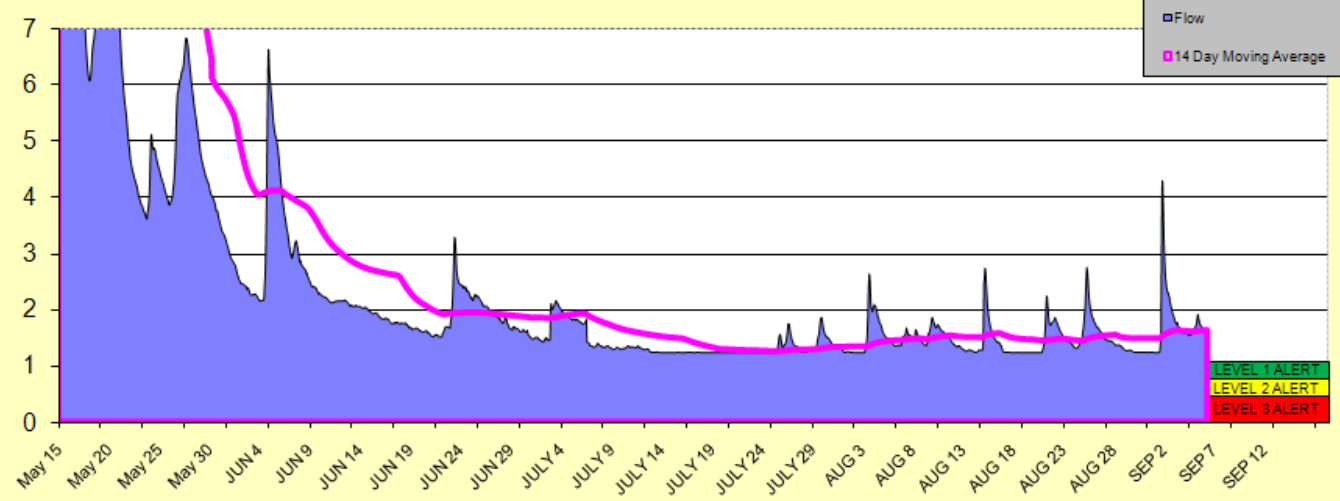
Summer 2011
 Provisional Flows from Nottawasaga River Near Baxter
 02ED003

Hourly Flows (cms)

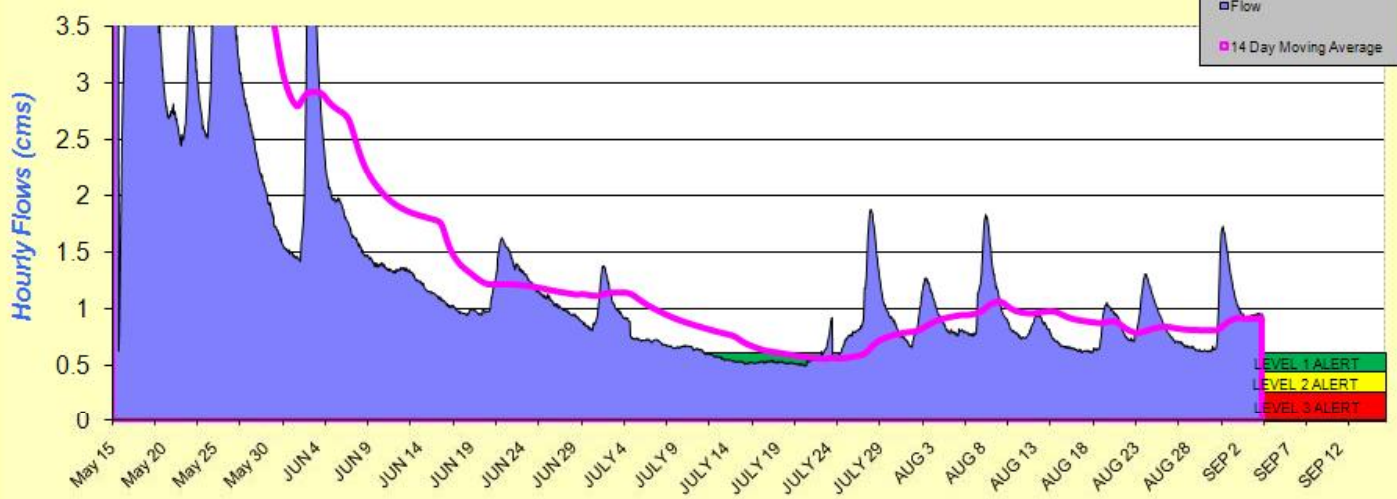


Summer 2011
 Provisional Flows from Nottawasaga River near Alliston
 02ED101

Hourly Flows (cms)



**Summer 2011
Provisional Flows from Boyne River near Earl Rowe Park
02ED101**



**Summer 2011
Provisional Flows from Pine River near Everett
02ED014**

