## Massachusetts Water Resources Authority - www.mwra.com

Cryptosporidium and Giardia Results January 2004-April 2008

Location	SAMP <sub>LE</sub> Date	Crypto Concentratio n (Oocysts/100	# Recovered	# Empty 5 Oocysts	# with Amorphous Structure	# with 1 internal Structure	GIARDIA Concentratio (Cysts/100L)	# Recovered	# Empty 5 Oocysts	# with Amorphous Structure	# with >= 1 internal Structures
WPS	26-Jan-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	02-Feb-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	23-Feb-04 15-Mar-04	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	29-Mar-04	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WPS	12-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	27-Apr-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	11-May-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	25-May-04 08-Jun-04	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	22-Jun-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	06-Jul-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	20-Jul-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	03-Aug-04	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	17-Aug-04 01-Sep-04	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WPS	14-Sep-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	28-Sep-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	12-Oct-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	27-Oct-04 08-Nov-04	ND ND	ND ND	ND ND	ND ND	ND ND	ND 4	ND 2	ND 1	ND ND	ND 1
WPS	22-Nov-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	07-Dec-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	22-Dec-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	19-Jan-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	02-Feb-05 15-Feb-05	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	28-Feb-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	14-Mar-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	28-Mar-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	12-Apr-05 26-Apr-05	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	11-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	24-May-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	07-Jun-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	05-Jul-05 18-Jul-05	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	02-Aug-05	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WPS	16-Aug-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	29-Aug-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	12-Sep-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	26-Sep-05 12-Oct-05	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	25-Oct-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	29-Nov-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	02-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	27-Dec-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	10-Jan-06 24-Jan-06	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	07-Feb-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	21-Feb-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	07-Mar-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	20-Mar-06 03-Apr-06	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND	ND	ND ND
WPS	18-Apr-06	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WPS	02-May-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	15-May-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	30-May-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	13-Jun-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Cryptosporidium and Giardia Results January 2004-April 2008

Location	SAMP <sub>LE</sub> Date	Crypto Concentratio n (Oocysts/100 L)	# Recovered	# Empty Oocysts	# with Amorphous Structure	# with 1 internal Structure	GIARDIA Concentratio n (cysts/100L)	# Recovered	# Empty Oocysts	# with  Structure	# with >= 1 internal Structures
70	8	2020	*	# O	A	# '- 'S	3° 2° 5°	#	# O	Ans	* 25
WPS	27-Jun-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	18-Jul-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	25-Jul-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	08-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	22-Aug-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	05-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	19-Sep-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	03-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	18-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	31-Oct-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	14-Nov-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	28-Nov-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS	11-Dec-06	ND	ND	ND	ND	ND	2	1	ND	1	ND
WPS	26-Dec-06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WPS WPS	09-Jan-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	23-Jan-07 06-Feb-07	ND	ND ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND
WDF	20-Feb-07	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WDF	20-Feb-07 06-Mar-07	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
WDF	19-Mar-07	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WDF	03-Apr-07	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WDF	17-Apr-07	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WDF	01-May-07	ND ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WDF*	15-May-07	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND
WDF*	29-May-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF*	12-Jun-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF*	26-Jun-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	10-Jul-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	24-Jul-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	07-Aug-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	21-Aug-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	04-Sep-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	18-Sep-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	02-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	16-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	30-Oct-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	13-Nov-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	27-Nov-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	11-Dec-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	24-Dec-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	08-Jan-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	22-Jan-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	05-Feb-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	19-Feb-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	04-Mar-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	18-Mar-08	2	1	1	ND	ND	2	1	1	ND	ND
WDF	01-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
WDF	15-Apr-08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

## **KEY**

WDF= Ware Disinfection Facility Old WPS = Winsor Power Station ND= Not Detected

Reported concentration are in cysts/100L. Other results are reported as cysts/50L.

<sup>\*</sup>The Quabbin Giardia/Crypto sample location was changed from Cosgrove to CWTP Inlet on 04/01/08. The CWTP Inlet is a sampling location that represents the source water and is immediately prior to water treatment.

The Quabbin Giardia/Crypto sample location was changed from WPS to WDF on 2/06/07 due to valve repair work being performed at WPS. The work was completed on 8/15/07. The sampling will continue to be performed at WDF because it is (1) an easier sampling location and (2) a better sampling tap.