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APPENDIX 'A'
2011 ANNUAL COMPLIANCE REPORT OVERVIEW

to watermain failures, reduce water loss, lower repair costs, and minimize social and business disruption.

Sampling & Water Quality Monitoring

The City of London provides sampling analysis and monitoring beyond the Ministry of Environment (MOE) regulated requirements, as specified in Ontario Regulation 170/03. Through routine grab samples there were 9,642 samples taken from the distribution system, 1,475 samples taken from the emergency wells, as well as over 4,000 chlorine residual tests taken by London staff. London also has 10 locations throughout the city in which continuous online sampling of chlorine residual is monitored. All of these efforts help ensure that the water within the distribution system is always of high quality. In all, the drinking water in London is sampled for 137 different organic, inorganic, microbiological, and chemical parameters. All samples are collected by certified city personnel and submitted to an accredited laboratory for analysis in accordance with the Safe Drinking Water Act, 2002. Below is the historical range (since 2000) of sample results for London's drinking water.

Parameter	ODWS ¹ Maximum Acceptable Concentration (MAC)	Lab's Method Detection Limit (MDL)	Units	Measured Concentrations	MAC Exceedence in 2011 (Y/N)	Historical Measured Concentration Range ²
		2011		2011		
REGULATED INORGANICS						
Antimony	6	0.02	µg/L	0.130 - 0.150	No	0.020 - 1.200
Arsenic	25	0.2	µg/L	0.600 - 0.800	No	0.001 - 2.000
Barium	1000	0.05	µg/L	13.400 - 21.900	No	0.015 - 25.000
Boron	5000	1	µg/L	21.000 - 21.000	No	0.020 - 40.000
Cadmium	5	0.003	µg/L	0.004 - 0.015	No	0.002 - 0.100
Chromium	50	0.5	µg/L	0.500 <MDL	No	0.004 - 3.000
Fluoride	1.5	0.06	mg/L	0.000 - 2.500	Yes	0.030 - 1.390
Free Chlorine Residual	—	—	mg/L	0.470 - 1.050	No	0.000 - 2.500
Lead	10	0.02	µg/L	0.020 <MDL	No	0.002 - 1.070
Mercury	1	0.02	µg/L	0.020 <MDL	No	0.000 - 0.100
Selenium	10	1	µg/L	1.000 - 3.000	No	0.005 - 3.000
Sodium ³	20*	0.01	mg/L	8.570 - 11.600	No	3.900 - 12.000
Uranium	20	0.001	µg/L	0.023 - 0.058	No	0.001 - 0.110