



Water treatment consist of removing / reducing concentration of contaminants and undesirable components so that the water becomes fit for its desired end-use. Water in municipal systems is required to meet strict water quality standards established in provincial regulations. Guidelines for regular testing of the water to ensure that it is safe to drink are also part of the regulations.

In general, municipal water systems withdraw water from a water source, treat it before it is pumped to our homes and businesses. The quality of the source water determines the type of treatment method. Wastewater is the outflow of sewage from your property that will eventually end up in the sewer system for collection and delivery to a wastewater treatment facility before it is returned to the environment.

The quality of the source water determines the type of treatment method. Most systems will include several stages of filtration (to remove suspended particles, debris and algae) and disinfection (to remove bacteria and viruses and purify the water). Disinfection methods could include chlorination and treatment with ultra-violet light.

Automation of water treatment is common in the developed world. Several private companies provide patented technological solutions for the treatment of specific contaminants. Automation and patented technological solutions utilize many of the products represented by Chess Controls Inc.

With over 35 years of experience in servicing the water / wastewater needs in Ontario, Chess Controls has the experience and quality products to deliver the best solution on time and on budget to meet the Power – Automation – Process Control – Valve requirements. We represent a strong group of trusted manufacturers of quality products dedicated to continuous product improvement, increased reliability. Our partners additionally bring to Chess and our client expertise gained through years of experience from around the world.

**KEY PARTNERS:**





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**MEASUREMENT  
INSTRUMENTATION**

LEVEL  
FLOW  
PRESSURE  
CONDUCTIVITY  
ANALYZERS  
POSITIONERS  
AIR QUALITY / FLOW  
DUST MONITORING  
TEMPERATURE SENSORS  
TEMPERATURE CONTROLLER  
INDICATORS  
PROCESS CALIBRATOR  
POSITIONERS  
SIGNAL CONDITIONER  
INSTRUMENT ENCLOSURE  
HEATED TUBE BUNDLE



**PLANT  
AUTOMATION**

PLC  
HMI / INDUSTRIAL PC / RTU  
COMMUNICATION BUS  
ETHERNET SWITCH / ROUTER  
REMOTE I/O  
SAFETY MODULES  
SENSORS  
SIGNAL CONDITIONERS  
HMI / SCADA SOFTWARE  
ENCODERS  
DATA RACKS / CONSOLES  
PUSHBUTTON / PILOT LIGHTS  
TERMINAL BLOCKS  
POWER SUPPLIES  
METERS / TRANSDUCERS



**POWER AND  
DRIVES**

PROTECTION RELAYS  
ON-LINE DGA  
VFD / SOFTSTARTER  
TRANSFORMER  
HV SWITCH / SWITCHGEAR  
HV BUSHING / ARRESTER  
CAPACITORS / REACTORS  
E-HOUSE / INTEGRATED POWER  
MV / LV SWITCHGEAR  
MCC / SWITCHBOARD  
UPS / CHARGER / BATTERIES  
RTU / GATEWAYS / GPS CLOCK  
INSTRUMENT TRANSFORMERS  
VOLTAGE TRANSFORMERS  
TVSS / SURGE PROTECTION  
MOTOR  
TEST EQUIPMENT



**VALVES AND  
ACTUATION**

SOLENOID VALVE  
BALL VALVE  
BUTTERFLY VALVE  
PINCH VALVE  
GLOVE VALVE  
SLURRY VALVE  
CHECK VALVE  
KNIFE GATE  
CONTROL VALVE  
VALVE POSITIONERS  
ELECTRIC ACTUATOR  
AIR REGULATOR  
PRESSURE REGULATOR  
PRESSURE GAUGE  
PRESSURE SWITCH  
PRESSURE TRANSMITTER



**PACKAGED  
TECHNOLOGIES**

SUBSTATION  
E-HOUSE  
IT ROOM  
INTEGRATED POWER SOLUTION  
PORTABLE SUBSTATION  
TRUCK SCALES  
RAIL SCALES  
BIN LEVEL  
CONVEYOR AUTOMATION  
VFD ASSEMBLIES  
VALVE ASSEMBLIES