

## Appendix 1 - Water QMS Risk Assessment

There were fourteen new risks and 8 newly high scoring risks identified during the 2024 Water QMS risk assessment. Risks added in 2024 are listed below in Table 1. Risks that have been newly classified as high scoring in 2024 are listed below in Table 2.

**Table 1: Risks added to Water QMS Risk Assessment**

Hazardous Event	Plant Location
Public trespassing on Niagara Region property.	Decew Falls Port Colborne
Catastrophic failure of intake structure.	Welland
Failure of aluminum sulfate pump.	All
Catastrophic failure of sedimentation area structure or settling tank.	Welland
PLC (Programmable Logic Controller) breakdown with no parts left to repair.	Welland
Catastrophic failure of Clearwell 3.	Welland
Failure to revise documents following upgrades/changes i.e. drawings, Operations and Maintenance Manuals etc.	All
Inaccurate or outdated general maintenance and asset management information or drawings used for general internal purposes.	All
Inaccurate or outdated general maintenance and asset management information or drawings used for design purposes.	All
Insufficient standardization of preventative asset maintenance, reporting, and communication.	All
Insufficient funding to maintain asset sustainability.	All
Failure of 24" watermain running under lake Moodie.	Decew Falls
Failure of 54" watermain running under lake Moodie.	Decew Falls
Break of two cast irons (42") crossing the Welland Canal.	Welland

**Table 2: Risks newly classified as high scoring in Water QMS Risk Assessment**

<b>Hazardous Event</b>	<b>Plant Location</b>
Accidental chemical spill impacting source water. Region notified.	Decew Falls
Accidental chemical spill impacting source water. Region notified.	Port Colborne
Public trespassing on Niagara Region property.	Port Colborne
Failure of all low lift pumps due to electrical issue, mechanical issue, fire, etc..	Welland
Inaccurate or outdated general maintenance and asset management information or drawings used for design purposes.	All
Insufficient standardization of preventative asset maintenance, reporting, and communication.	All
Insufficient funding to maintain asset sustainability.	All
Failure of 24" watermain running under lake Moodie.	Decew Falls