

Overview of the Biosolids Project

Sludge Management in Ontario



- In Ontario, more than 7.5 million m³ of sludge is produced on an annual basis
- The vast majority of sludge is subject to some form of stabilization (treatment) and is used primarily for nutrient recovery or incineration
- The recent trend for sludge treatment is to implement technologies that provide for a pathogen-free (Class A) product
- Sudbury is unique in the Province as it is likely the only municipality of its size that does not stabilize its sludge



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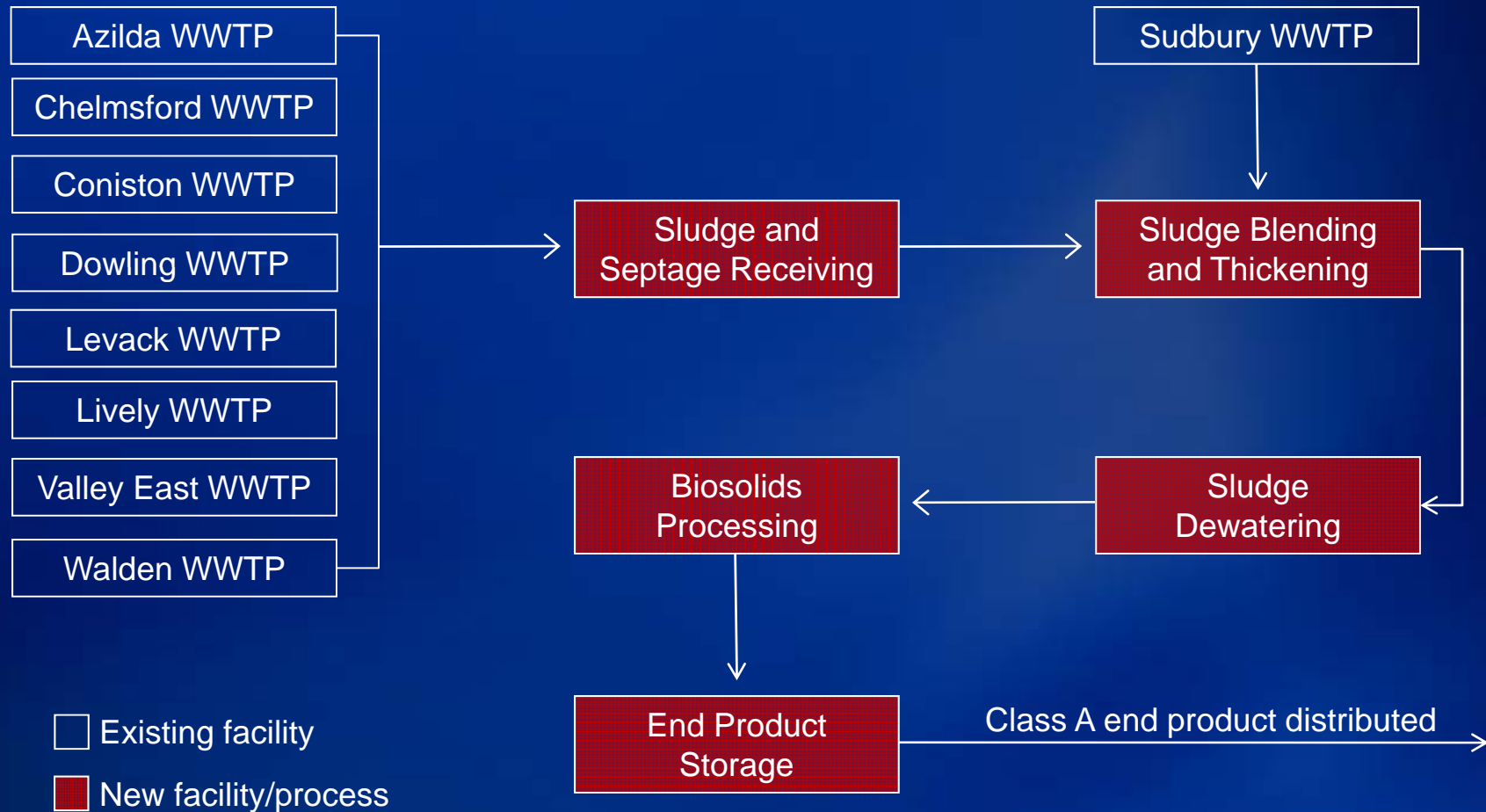
Current Biosolids Management Process



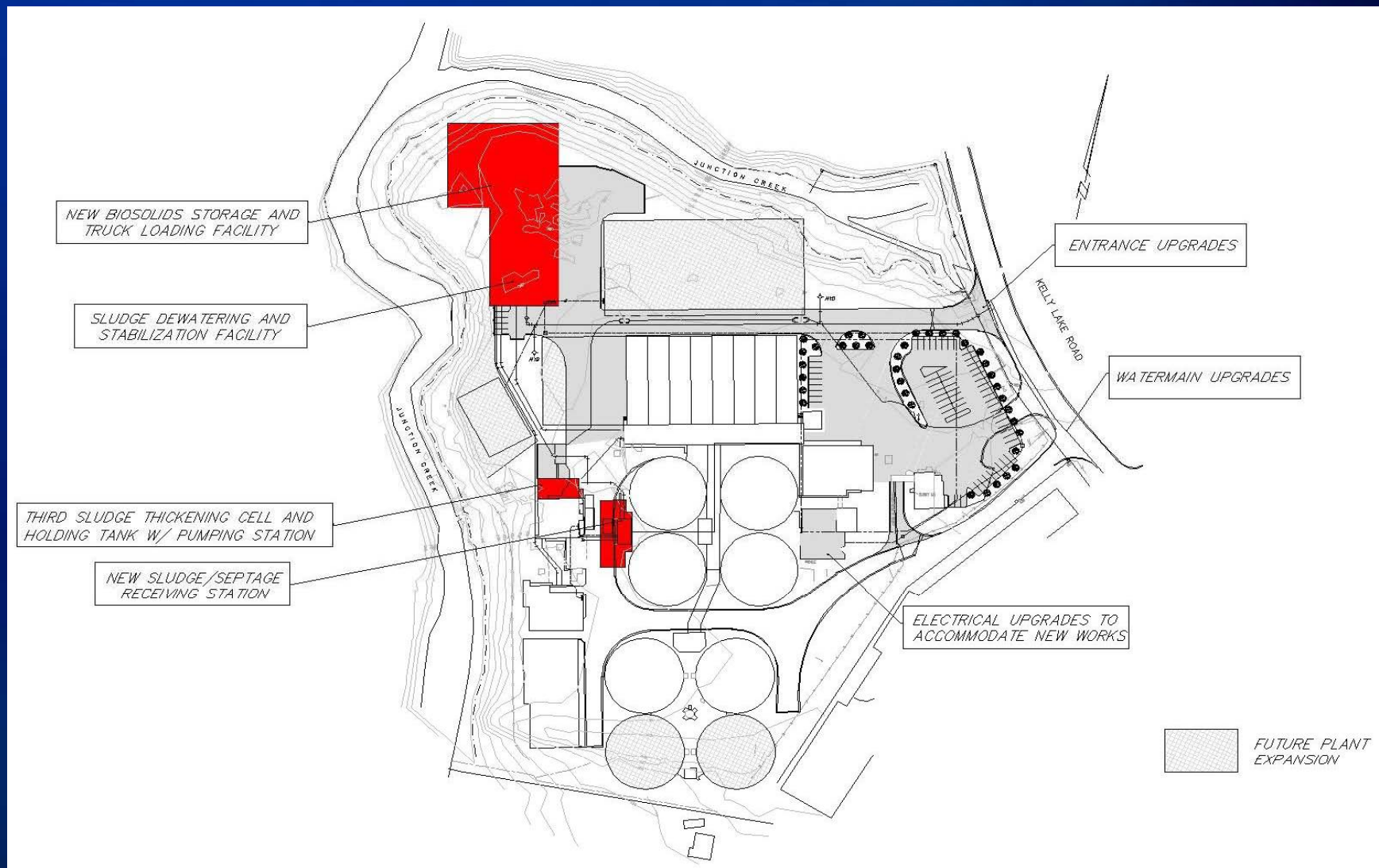
- ☐ Existing facility
- ☒ New facility/process

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Proposed Biosolids Management Process



Overview of the Biosolids Project Construction Components



Overview of the Biosolids Project

Key Risks

Specific project risks

1. Completion risk
 - City has a tight deadline for implementation of the project
 - City would be required to find an alternative disposal method in the event of a delay beyond December 31, 2012
2. Technology risk
 - Proprietary processes
 - City has no experience with the operation of a biosolids treatment facility
 - Timeframes for implementation provide minimal commissioning period
3. End-product risk
 - City has little to no experience with the distribution of biosolids

Generic project risks

1. Design risks
 - Deficiencies, delays or changes to design will result in cost overruns or operational impacts
2. Construction risk
 - Construction cost overruns
 - Procurement delays
3. Operational risk
 - Operating costs are higher than anticipated
 - Life cycles for major asset components are shorter than anticipated, resulting in higher operating costs