THE TOWN OF LYSANDER

Lysander Data Center Advisory Committee Meeting

August 7th 2026

Waste Water Concerns

Water Concerns from the spreadsheet

- Water overall priority: 2.5
  - Water Pollution (including PFAs) 2.5
  - Water Usage 2.7
  - Residential Water Pressure 2.1
  - Ground Water Levels 1.8
  - Who pays for Infrastructure upgrades? 3.0
  - Waste Water Handling and treatment 3.0
  - An additional item was suggested last week to discuss stormwater runoff

Background:

- The previously approved warehouse required water and sewer lines to be built out to the site
- The planning board typically requires developers to pay for any required infrastructure additions
- The town does not have its own municipal water system
- The town's waste water treatment is handled by the county
- Existing town code covers storm water and runoff

Town vs County Water Responsibilities

- County provides municipal water (OCWA)
- County provides waste water management (WEP)
- Town can mandate connection to municipal water supplies
- Town can regulate the use of wells including limits on large-scale water withdrawals
- During droughts towns can mandate limits on outdoor water use, including withdrawals from wells

Waste Water Concerns

Waste Water

- Ideal Case: They use a true closed loop system and there is no waste water
- ***Reality***: Closed loop systems drastically reduce the total volume of water consumed, but most systems need to be periodically flushed and occasionally drained for maintenance
  - We'll address leaks as part of the pollution discussion
  - Open Loop is worse, but we already recommended against that

Waste Water Concerns

- Volume of waste water – depends on the cooling system
- Toxicity of the coolants used, often ethylene glycol based
- PFA's (forever chemicals)
  - In Data Centers they are found some of the immersion liquids, in the fluorinated gas used in some chillers, and in the chemicals used by some fire suppression systems
  - For today's discussion we'll focus on the coolants
- Anti-Corrosion Chemicals – Nitrites
- Biocides
- Heavy Metals leached from the equipment
- PH – How Acidic or Basic the waste water is
- Heat

Waste Water Concerns – Cont.

- Open Loop Specific Concerns (again, we recommended against this)
  - Much larger volume of waste water
  - Biocides
  - Anti-corrosion chemicals
  - Dense Mineral Content from constant evaporation
  - And all of the previous page's concerns due to the internal (server room) cooling loop chemicals

Waste Water Mitigation and Handling Options

- Choose the least toxic coolant possible
  - Biodegradable and non-toxic options exist for some cooling systems, but may not be as efficient or cost effective as other coolants
- Proper Disposal of used Chemical Coolants (not to the waste water system)
- On-Site Treatment
- Discharge to WEP for treatment
- Robust Monitoring and Reporting

Next Steps

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- Continue today's discussion on waste water
- Begin talking about storm water concerns and recommendations
  - What did we miss?
  - What needs clarification?

Thank You