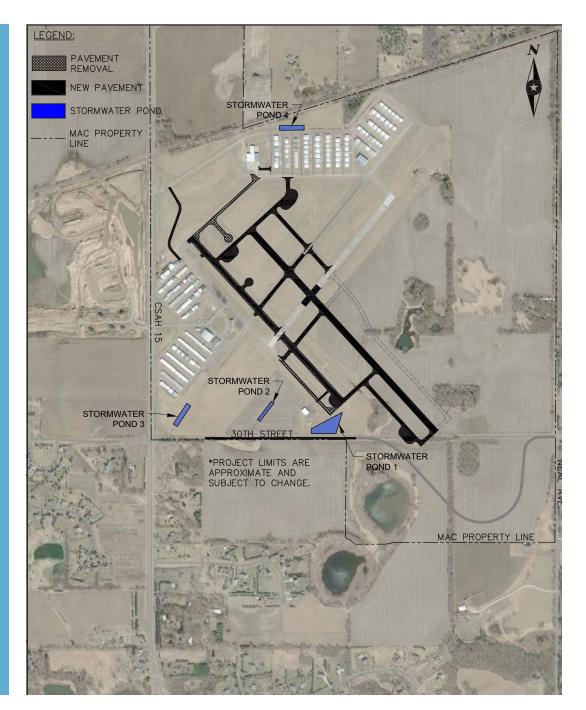


## Lake Elmo Airport Fact Sheet: Storm Water Management

#### Surface water

evaporators are part was approved through the permit process with the Valley Branch Watershed District. The permit is a required element of the multiyear Runway 14/32 replacement and airfield modifications project to be completed by 2023. The evaporator to four storm water ponds to reduce runoff off-airport ground water weather, including been factored into the calculations for the future use of these evaporators. It's estimated they will only need to operate at variable times in the summer or early fall produce a fine mist, within close range of the device on the pond, to simply enhance the natural evaporation





# Lake Elmo Airport Fact Sheet: Storm Water Management

## **OPERATIONAL DETAILS**

**Evaporation Season** 

- May 1 to Sep 1 (123 days) this is the anticipated period of operation
- Pond 1 drainage area (and total impervious surface) is much larger than the others, requiring more evaporation and additional days of operation compared to the other ponds.

POND	HOURS/DAY	DAYS/YEAR
1	10	85
2	10	32
3	10	32
4	10	32

\*Anticipated hours/days based on expected performance \*\*Nighttime operation not anticipated.

### How far away is the nearest roadway?

The nearest roadway is 50 feet from Pond 1. Mist drift is minimized because the mist is sprayed out the sides of the units and close to the pond surface. Wind speed will be monitored and the units will be programmed to shut down during high wind conditions in order to minimize mist drift.



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If you have questions about the project, please contact us via email at ContactLakeElmoAirportEA@mspmac.org **Evaporation Equipment** 

- Electric power will be used to minimize noise
- At a distance of 8 feet, the decibel level of the evaporator device is around 65 decibels. According the chart, this falls between "Normal Conversation" and "Toilet flushing/ Vacuum Cleaner."



### KEY

EAV= EXPOSURE ACTION VALUE ELV= EXPOSURE LIMIT VALUE dB(A)= "A" WEIGHTED DECIBELS (TO REPLACE HUMAN HEARING) dB(C)= "C" PEAK WEIGHTED DECIBELS FOR PEAK SOUND PRESSURE