

## **MEMO**

TO: Town of Delavan Lake Committee  
FROM: Delavan Lake Sanitary District  
RE: DLSD Lake Management Activities for December  
DATE: January 2, 2024

### **LAKE MONITORING RECORDS**

December Precipitation – 2.13 inches  
Number of Run-off events – 0  
Precipitation Year-to-date – 30.72 inches  
Ice On Date – December 19, 2022  
Ice Off Date – March 10, 2023

December Secchi Disc Readings: Maximum – 30.0 feet

### **LAKE LEVEL**

DNR Summer Lake Elevation Expectations – 927.86 feet  
Average Lake Elevation – 927.75 feet

### **LAKE MANAGEMENT PROGRAM**

Lift Station #2A WE Energies upgrades are in progress for future station rebuild.

Lift Station #8 wet well rebuild is complete.

Harvester equipment maintenance continues.

Preliminary work is being done on the upcoming spray permit.

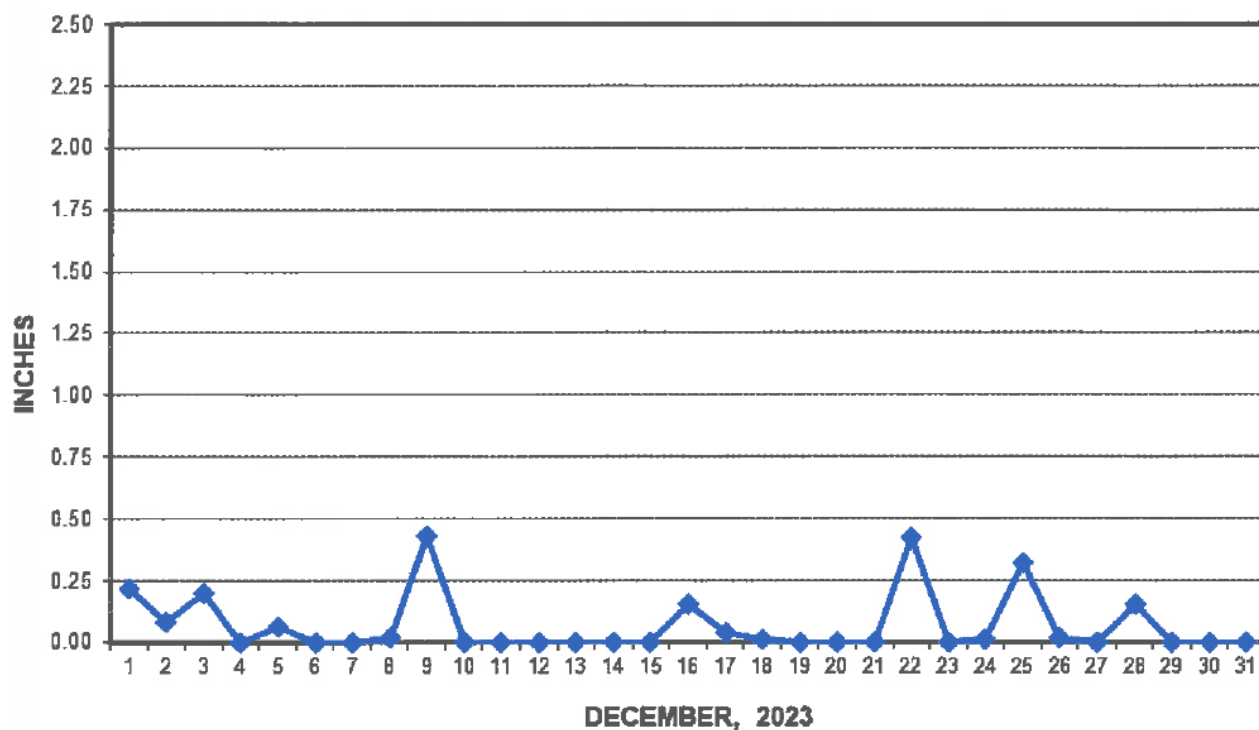
We are making modifications to the transport barge to increase stability for safety. Aquarius plans to have it completed and ready for the 2024 season.

Plans have started for our intercept survey with Onterra to be conducted in July of this year for the upcoming 2025 harvesting permit.

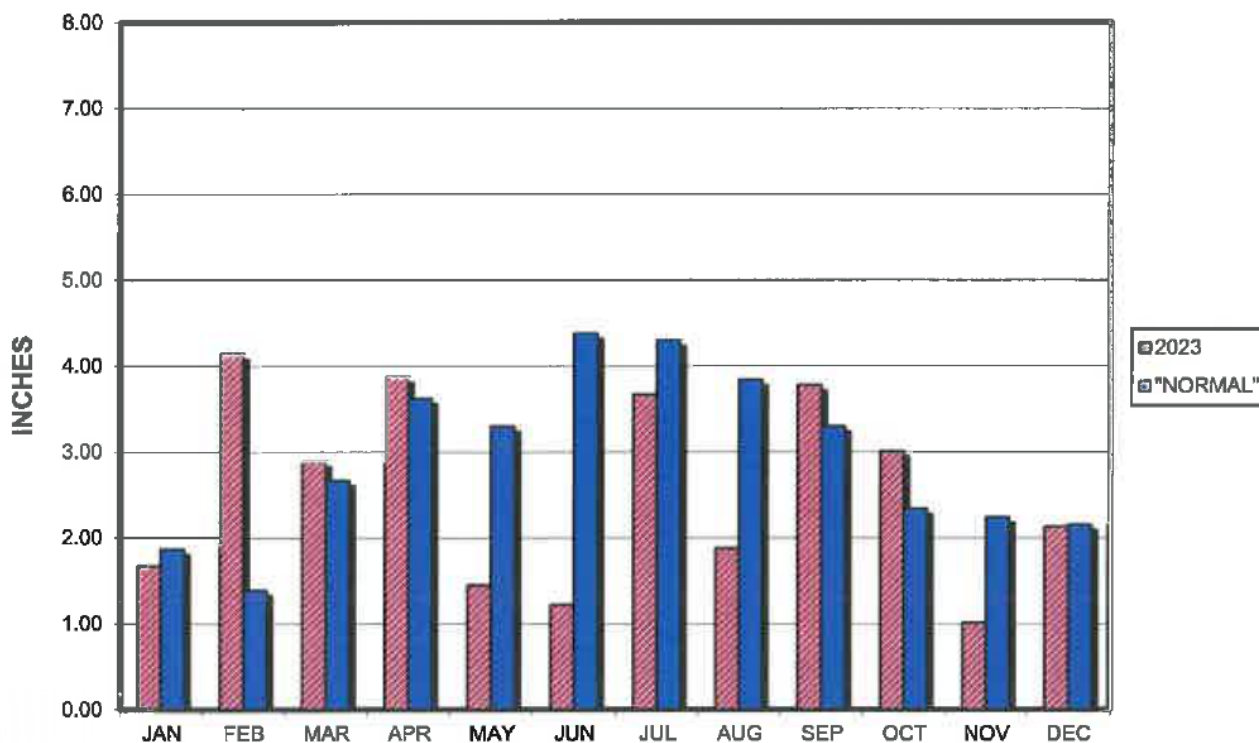
USGS contract is currently under discussion.

Encl.: (3)

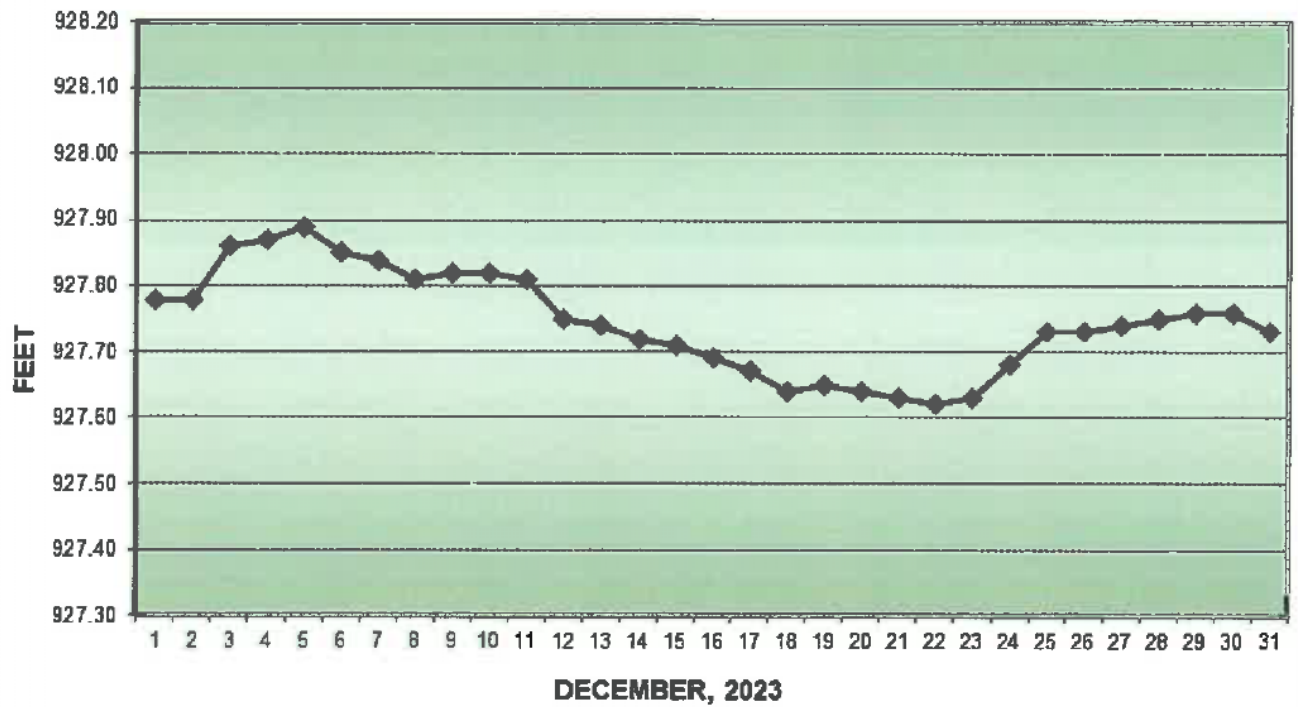
## PRECIPITATION - DELAVAN LAKE, WI



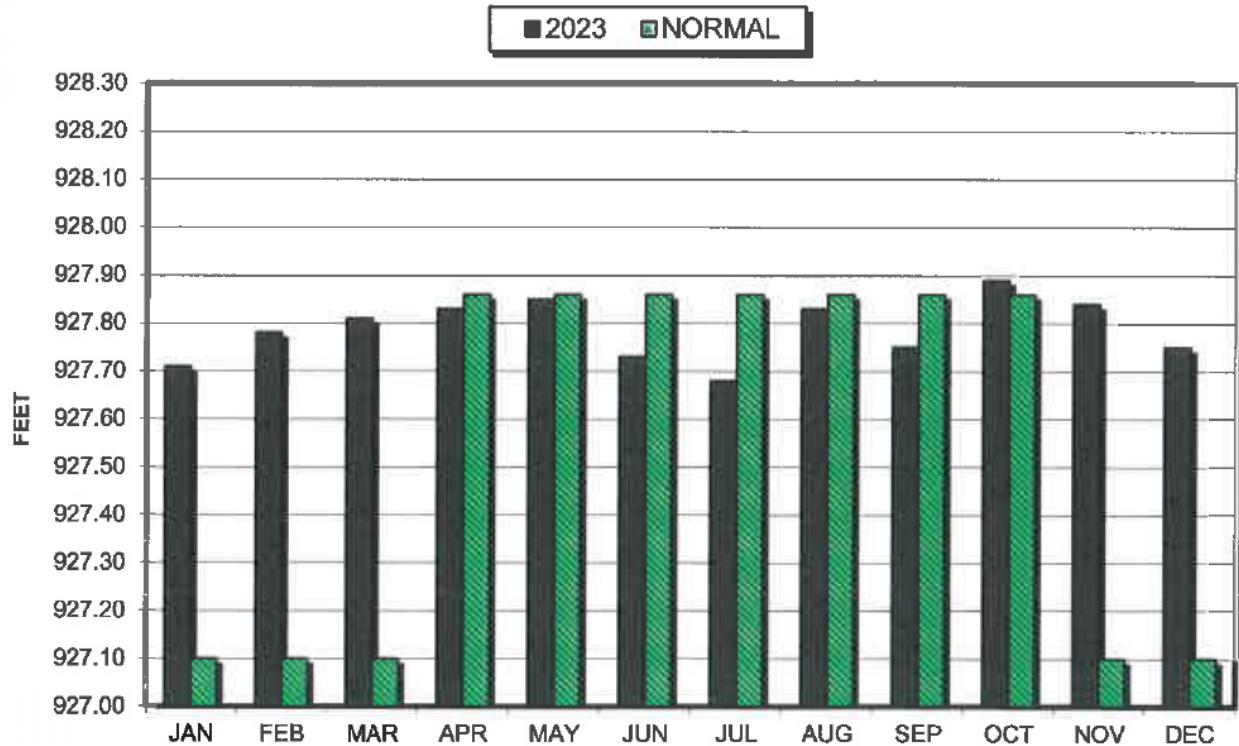
## PRECIPITATION - DELAVAN LAKE, WI



## LAKE ELEVATION - DELAVAN LAKE, WI



## AVERAGE LAKE ELEVATION - DELAVAN LAKE, WI



# DATA SUMMARY DELAVER LAKE, WISCONSIN

| Month       | Ice On Date | Ice Off Date | Air Temperature |      |      | Precipitation     |                        | Lake Water Temp. | Average Lake Elevation | Secchi Disc       |                   | Cubic Yards Harvested |      |
|-------------|-------------|--------------|-----------------|------|------|-------------------|------------------------|------------------|------------------------|-------------------|-------------------|-----------------------|------|
|             |             |              | Max.            | Min. | Mean | Month (In Inches) | Yr to Date (In Inches) |                  |                        | Average (In Feet) | Maximum (In Feet) | Month                 | YTD  |
| <b>2021</b> |             |              |                 |      |      |                   |                        |                  |                        |                   |                   |                       |      |
| JAN         | 1/21/21     |              | 38              | -6   | 22   | 1.39              | 1.39                   | -                | 927.58                 | -                 | -                 | -                     | -    |
| FEB         |             |              | 47              | -15  | 16   | 1.45              | 2.84                   | -                | 927.50                 | -                 | -                 | -                     | -    |
| MAR         |             | 3/18/21      | 65              | 9    | 37   | 1.54              | 4.38                   | -                | 927.67                 | -                 | -                 | -                     | -    |
| APR         |             |              | 84              | 21   | 53   | 0.76              | 5.14                   | 46               | 927.75                 | 8.7               | 9                 | -                     | -    |
| MAY         |             |              | 88              | 30   | 59   | 1.52              | 6.66                   | 67               | 927.87                 | 18.3              | 32.0              | 547                   | 547  |
| JUN         |             |              | 95              | 46   | 71   | 2.58              | 9.24                   | 76               | 927.84                 | 10.1              | 19.5              | 2495                  | 3042 |
| JUL         |             |              | 92              | 52   | 72   | 2.87              | 12.11                  | 78               | 927.89                 | 10.2              | 14.0              | 1800                  | 4842 |
| AUG         |             |              | 93              | 51   | 72   | 3.96              | 16.07                  | 77               | 927.78                 | 9.0               | 12.0              | 1910                  | 6752 |
| SEP         |             |              | 89              | 45   | 67   | 1.33              | 17.40                  | 66               | 927.53                 | 7.8               | 11.0              | 595                   | 7347 |
| OCT         |             |              | 87              | 29   | 58   | 4.78              | 22.18                  | 67               | 927.55                 | 9.3               | 11.0              | 59                    | 7406 |
| NOV         |             |              | 66              | 15   | 41   | 0.46              | 22.64                  | 51               | 927.57                 | 9.7               | 13                | -                     | -    |
| DEC         |             |              | 64              | 7    | 35   | 1.81              | 24.45                  | -                | 927.61                 | -                 | -                 | -                     | -    |
| <b>2022</b> |             |              |                 |      |      |                   |                        |                  |                        |                   |                   |                       |      |
| JAN         | 1/10/22     |              | 40              | -18  | 11   | 0.63              | 0.63                   | -                | 927.72                 | -                 | -                 | -                     | -    |
| FEB         |             |              | 49              | -3   | 23   | 0.77              | 1.40                   | -                | 927.70                 | -                 | -                 | -                     | -    |
| MAR         |             | 3/23/22      | 73              | 6    | 34   | 2.91              | 4.31                   | -                | 927.80                 | -                 | -                 | -                     | -    |
| APR         |             |              | 81              | 24   | 52   | 5.05              | 9.36                   | 42               | 927.88                 | 20.0              | 20.0              | 387                   | 387  |
| MAY         |             |              | 91              | 33   | 62   | 2.42              | 11.78                  | 62               | 927.90                 | 12.7              | 20.0              | 2184                  | 2571 |
| JUN         |             |              | 98              | 47   | 72   | 2.21              | 13.99                  | 74               | 927.87                 | 9.7               | 13.0              | 1431                  | 4002 |
| JUL         |             |              | 90              | 52   | 71   | 2.98              | 16.97                  | 79               | 927.68                 | 8.7               | 10.0              | 1585                  | 5587 |
| AUG         |             |              | 92              | 52   | 72   | 4.28              | 21.25                  | 79               | 927.60                 | 6.6               | 9.0               | 305                   | 5892 |
| SEP         |             |              | 85              | 35   | 60   | 7.51              | 28.76                  | 59               | 927.85                 | 6.7               | 7.0               | 39                    | 5931 |
| OCT         |             |              | 78              | 29   | 54   | 1.67              | 30.43                  | -                | 927.79                 | -                 | -                 | -                     | -    |
| NOV         |             |              | 75              | 9    | 42   | 1.23              | 31.66                  | 51               | 927.77                 | 12.3              | 15.0              | -                     | -    |
| DEC         | 12/19/22    |              | 56              | -13  | 22   | 1.67              | 33.33                  | -                | 927.72                 | -                 | -                 | -                     | -    |
| <b>2023</b> |             |              |                 |      |      |                   |                        |                  |                        |                   |                   |                       |      |
| JAN         |             |              | 49              | -14  | 18   | 1.67              | 1.67                   | -                | 927.71                 | -                 | -                 | -                     | -    |
| FEB         |             |              | 51              | -7   | 22   | 4.14              | 5.81                   | -                | 927.78                 | -                 | -                 | -                     | -    |
| MAR         |             | 3/10/23      | 69              | 9    | 39   | 2.89              | 8.70                   | -                | 927.81                 | -                 | -                 | -                     | -    |
| APR         |             |              | 82              | 26   | 54   | 3.87              | 12.57                  | 49               | 927.83                 | 8.0               | 9.0               | -                     | -    |
| MAY         |             |              | 91              | 35   | 63   | 1.45              | 14.02                  | 62               | 927.85                 | 21.8              | 38.0              | 855                   | 855  |
| JUN         |             |              | 92              | 43   | 67   | 1.22              | 15.24                  | 70               | 927.73                 | 9.6               | 17.0              | 1553                  | 2408 |
| JUL         |             |              | 92              | 53   | 72   | 3.67              | 18.91                  | 75               | 927.68                 | 6.0               | 8.0               | 1558                  | 3966 |
| AUG         |             |              | 97              | 44   | 71   | 1.88              | 20.79                  | 76               | 927.83                 | 7.3               | 10.0              | 1620                  | 5586 |
| SEP         |             |              | 93              | 42   | 68   | 3.78              | 24.57                  | 68               | 927.75                 | 8.7               | 12.0              | 854                   | 6440 |
| OCT         |             |              | 86              | 24   | 55   | 3.01              | 27.58                  | -                | 927.89                 | -                 | -                 | 146                   | 6586 |
| NOV         |             |              | 68              | 10   | 39   | 1.01              | 28.59                  | -                | 927.84                 | -                 | -                 | -                     | -    |
| DEC         |             |              | 56              | 13   | 34   | 2.13              | 30.72                  | -                | 927.75                 | -                 | 30.0              | -                     | -    |