



Operations Services Inc.
 10850 East Traverse Highway
 Traverse City, MI 49684
 989.217.3175
www.operationservices.com

Monthly Client Report for Higgins Lake Utilities Authority November 2019

To provide the Higgins Lake Utilities Authority with a summary of our activities for the month, Operations Services has prepared this report for your use. We welcome any suggestions to improve the information contained in these reports. Please contact us if you believe this report contains errors, or if you have any questions about it.

The Authority maintained compliance with all regulated parameters for the previous month.

FLOW AND UTILITY STATISTICS

| Parameters | 2018 | 2019 | Difference |
|------------------------|---------|---------|------------|
| 1st-7th Flow | 37,100 | 50,300 | +13,200 |
| 8th-14th Flow | 36,600 | 43,400 | +6,800 |
| 15th-21st Flow | 33,500 | 36,700 | +3,200 |
| 22nd-31st Flow | 33,900 | 55,700 | +21,800 |
| Minimum Weekly Flow | 33,500 | 36,700 | +3,200 |
| Maximum Weekly Flow | 37,100 | 55,700 | +18,600 |
| Monthly Influent Total | 141,100 | 186,100 | +45,000 |

2019 IRRIGATION PERFORMANCE

| Parameters | Influent | Effluent | Difference |
|--------------------------|-----------|-----------|------------|
| 2018 Year to Date Totals | 3,323,313 | 1,840,089 | +1,483,224 |
| 2019 Year to Date Totals | 2,899,400 | 1,759,354 | +1,140,046 |
| November Totals | 186,100 | 0 | +186,100 |

MONITOR WELL STATUS

- Monitor well samples were taken during the month.

MONTHLY E-ONE ACTIVITY SUMMARY

- Operations Services received 4 E-One service requests during November.
- There were 4 Miss Dig utility location requests during the month.

STRATEGIC PLANNING

- The fields were not cut this year. They will need to be tilled and reseeded in the spring.

MAINTENANCE

- Weekly lagoon inspections completed.
- Aerators are out of the ponds and winterized.
- Sprinkler heads were taken in for the winter.
- Super Z lawn mower has been winterized for the season.

Cummins Backup Generator

- Monthly and weekly inspection and maintenance completed.

CONSIDERATIONS

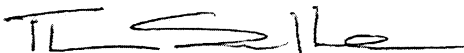
- We now have 8 working spare pumps with 2 catastrophic failures from July.
- The camp will have to keep in mind purchasing 2 new pumps in the spring.

OTHER NOTEWORTHY EVENTS OR ACTIVITIES

- Fence repairs are ongoing. whole tree and limb removal this month.
- The facility has ben put into winter mode.

If you have any questions regarding this report, please feel free to contact Operations Services at 989.217.3175

Wade Trim Operations Services, Inc.



Theron Scharffe
Operator / 231-622-3362

Project Reference # HLU753418Y