Lake Auburn Watershed Protection Commission

www.lakeauburnwater.org

Wednesday, November 8, 2023 at **3:00pm – 5:00pm** AVCOG, 125 Manley Road, Auburn, Maine

AGENDA

1. Minutes
    a. 09/13/2023 – Regular Meeting

2. Consent Agenda
    a. Financial Report
    b. 2024 Meeting Schedule

3. Public Comment

4. Water Quality & Watershed Report- Erica

5. Staff Report
    a. Mike Broadbent – As deemed necessary by Mr. Broadbent
    b. Erica Kidd – As deemed necessary by Mrs. Kidd

6. Old Business
    a. Reports from Ad Hoc Committees- Trails (Dan and Alan)
    b. Watershed Management Plan Presentation- Erica
    c. AWD/City of Lewiston/LAWPC ad hoc committee update- Mike
    d. Clerks discussion- Mike

7. New Business
    a. LAWPC board member seat; resident of Auburn
    b. 2024 Watershed Budget- Tracy and Erica
    c. Gracelawn pit watershed work update- Erica

8. Other Business

9. Adjournment

FUTURE REGULAR MEETING SCHEDULE:
December 6, 2023 (as needed)

Lake Auburn Watershed Commission
Statement of Revenues & Expenditures
31-Oct-23

	Original Operating Budget	Final Operating Budget	Operating Account	Balance	Sinking Fund	YTD Combined	12/31/22 Combined	12/31/21 Combined
Revenues:								
Contributions - AWD	60,000.00	60,000.00	54,166.60	5,833.40	16,666.70	70,833.30	78,250.00	75,000.00
Contributions - LWD	60,000.00	60,000.00	60,000.00	-	24,991.00	84,991.00	78,250.00	75,000.00
Timber Harvesting	2,000.00	2,000.00	2,625.00	(625.00)		2,625.00	29,312.96	93,763.92
Reimbursement	-	-	10,000.00	(10,000.00)		10,000.00	-	-
Gain on Sale of Assets	-			-		-	-	25,830.46
Water Withdrawal Revenue	-			-		-	386.70	4,421.45
Intergovernmental	2,000.00	2,000.00		2,000.00	42,500.00	42,500.00	2,250.00	2,200.00
Interest	35.00	35.00	621.67	(586.67)	265.00	886.67	2,312.40	1,302.57
Total Revenues	**124,035.00**	**124,035.00**	**127,413.27**	**(3,378.27)**	**84,422.70**	**211,835.97**	**190,762.06**	**277,518.40**
Expenditures:								
Auburn Water Department	6,000.00	6,000.00	22,661.14	(16,661.14)		22,661.14	5,945.74	5,191.00
Lewiston Water Division	6,000.00	6,000.00	28,475.65	(22,475.65)		28,475.65	23,636.17	8,991.17
Executive Administration	550.00	550.00	-	550.00		-	511.54	-
Forestry	3,500.00	3,500.00	1,025.00	2,475.00		1,025.00	7,125.19	10,064.59
Outside Services	3,325.00	3,325.00	4,867.50	(1,542.50)		4,867.50	1,850.00	3,435.00
Sanitary Facilities	3,760.00	3,760.00	1,950.00	1,810.00		1,950.00	2,745.00	2,680.00
Source Protection	63,150.00	63,150.00	12,767.89	50,382.11	29,101.34	41,869.23	114,663.40	41,198.99
Repairs to Property & Equipment	3,800.00	3,800.00	787.80	3,012.20		787.80	4,077.26	3,252.94
Public Education	1,775.00	1,775.00	543.54	1,231.46		543.54	-	2,371.28
Public Ed. - Labor	30,515.00	30,515.00	11,483.40	19,031.60		11,483.40	24,284.33	11,902.33
Public Ed. - Supplies	1,400.00	1,400.00	1,945.10	(545.10)		1,945.10	899.38	2,035.79
Public Ed. - Events	2,000.00	2,000.00	448.74	1,551.26		448.74	570.81	189.49
Public Ed. - Outside Services	2,400.00	2,400.00	2,477.99	(77.99)		2,477.99	1,184.00	-
Public Ed. - Public Relations	2,800.00	2,800.00	-	2,800.00		-	1,852.88	498.52
Public Ed. - Miscellaneous	250.00	250.00	50.00	200.00		50.00	392.68	1,183.83
Liability & D&O Insurance	12,000.00	12,000.00	10,973.40	1,026.60		10,973.40	10,958.05	12,075.47
Legal	10,500.00	10,500.00	2,094.50	8,405.50		2,094.50	9,427.50	6,454.50
Audit/Financial Services	7,395.00	7,395.00	4,950.00	2,445.00		4,950.00	7,191.25	6,595.26
Property Taxes	4,165.00	4,165.00	2,908.77	1,256.23		2,908.77	3,994.73	4,515.20
Operational Supplies	1,000.00	1,000.00	274.50	725.50		274.50	755.39	1,999.73
Depreciation/Amortization Expense	-	-		-		-	3,796.94	36,844.10
Capital	45,000.00	45,000.00	52,172.05	(7,172.05)		52,172.05	-	-
Miscellaneous	850.00	850.00	30,061.45	(29,211.45)		30,061.45	1,460.36	2,175.49
Total Expenditures	**212,135.00**	**212,135.00**	**192,918.42**	**19,216.58**	**29,101.34**	**222,019.76**	**227,322.60**	**163,654.68**
Excess Revenues Over Expenditures	(88,100.00)	(88,100.00)	(65,505.15)		55,321.36	(10,183.79)	(36,560.54)	113,863.72
Retained Earnings/Fund Balance, 1/1			2,225,576.54		3,400,210.66	5,625,787.19	5,662,347.73	5,548,484.01
Retained Earnings/Fund Balance, 12/31			**2,160,071.39**		**3,455,532.02**	**5,615,603.40**	**5,625,787.19**	**5,662,347.73**

2024 LAWPC Meeting Schedule

February 14

April 10

June 12

September 11

November 13

December 4 (as needed)

Water Quality Report

1. Average turbidity:
    a. September was 0.71 NTU in 2023, and 1.22 NTU in 2022.
2. Please see attached turbidity and temperature graphs for reference.
3. August and September fecal datasheets are attached.
4. Phosphorus data tables are attached.

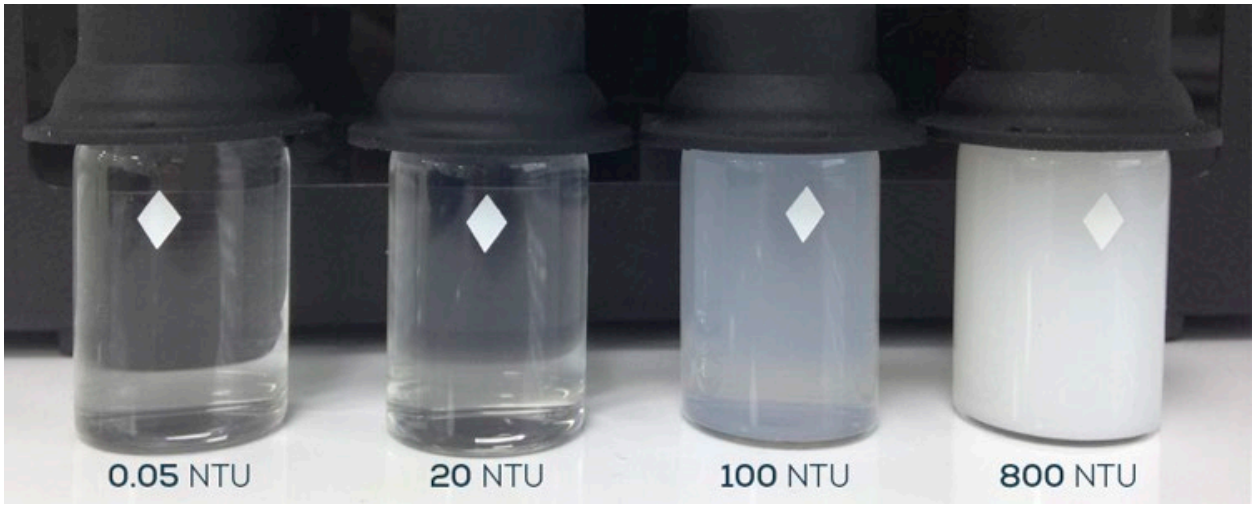
Watershed Report

1. Tighe and Bond completed a survey of the Blanchard Pond stream system. Permitting and construction will occur in 2024.
2. The phosphorus assessment and alternatives analysis with Ken Wagner from Water Resource Services is in progress, and staff had a meeting with the consultants to touch base on the focus and progress of this project in August.
3. The bottom of the lake is currently anoxic, and staff are seeing elevated phosphorus levels at the bottom. This is likely due to the anoxic conditions causing the release of phosphorus that is otherwise bound to aluminum and iron in oxygenated conditions. This occurrence is not unusual for this time of year, as the algae die-off at the surface sinks to the bottom and uses up oxygen as it decomposes. However, the anoxic conditions are being observed higher up in the water column than is typical for this time of year.

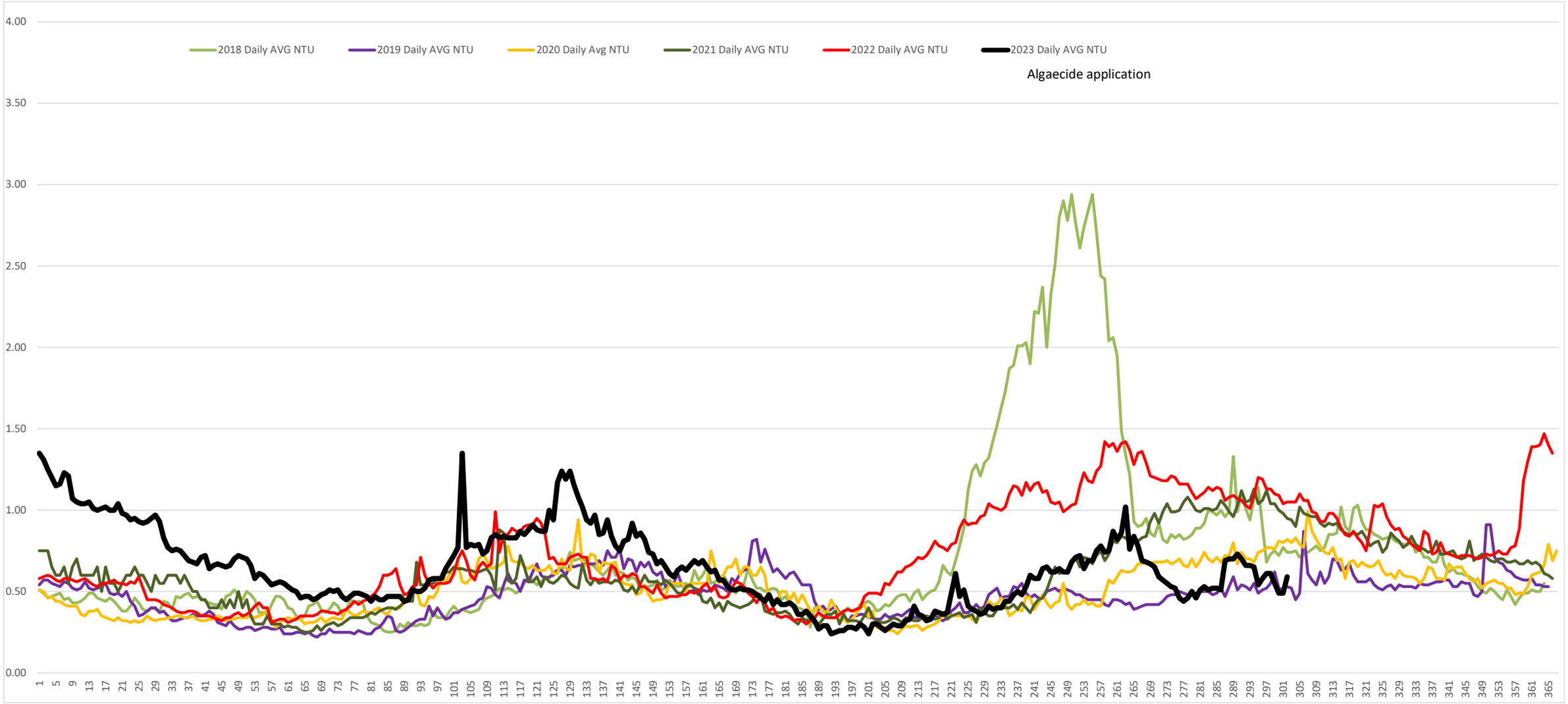
Information for turbidity:

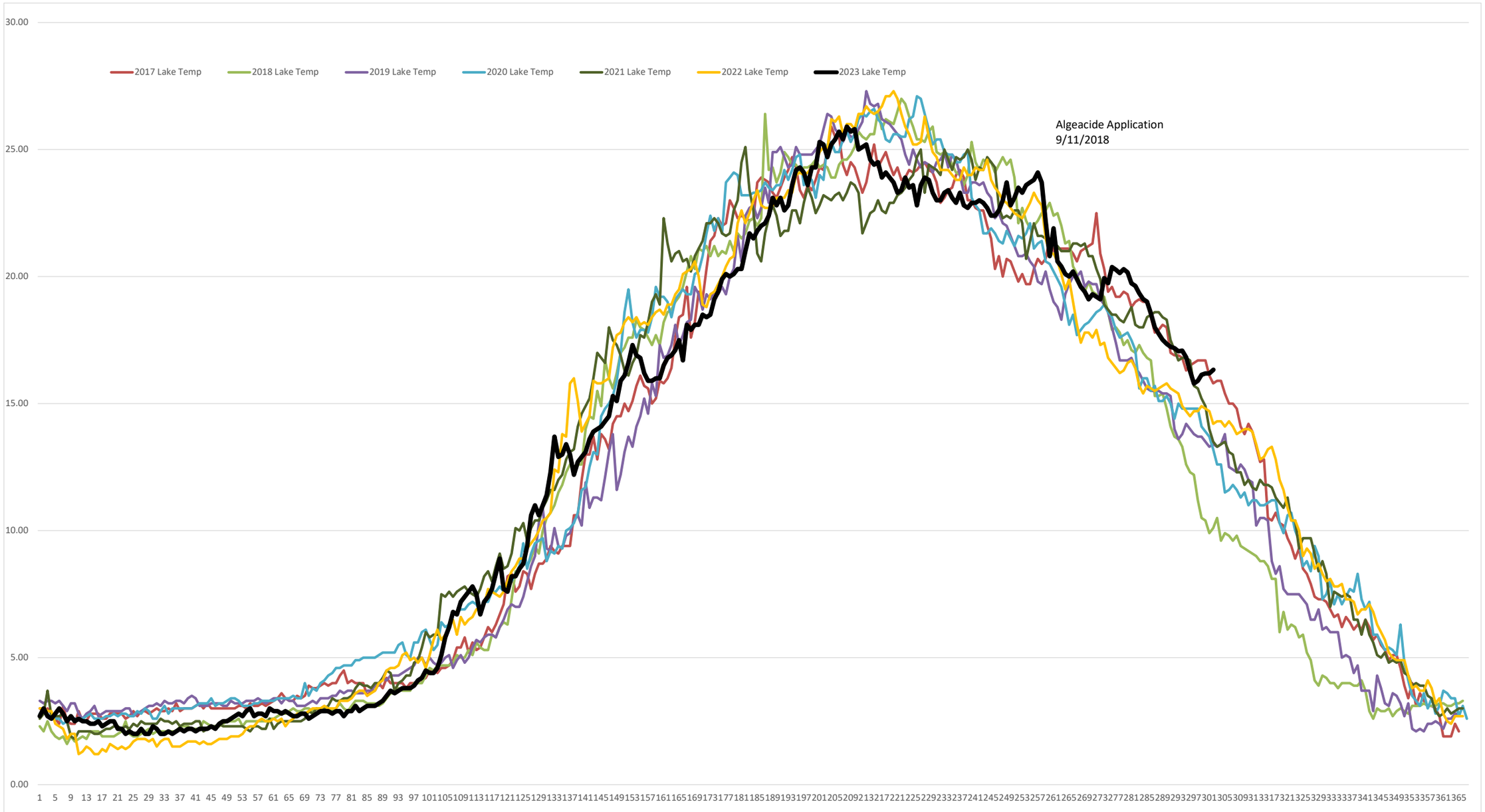
- Unfiltered drinking water supplies cannot pump raw water into a treatment plant that is greater than 5 NTU.
- NTU stands for Nephelometric Turbidity unit. The unit is used to measure the turbidity of a fluid or the presence of suspended particles in water. The higher the concentration of suspended solids in the water is, the dirtier it looks and the higher the turbidity is.

The following picture is for reference:



- On average, the turbidity of raw water in Lake Auburn is around 0.5 NTU.
- The water treatment plant will alarm when raw water turbidity is measured at 3.8 NTU, and will stop pumping raw water at 4.2 NTU.


2018 Daily AVG NTU
2019 Daily AVG NTU
2020 Daily Avg NTU
2021 Daily AVG NTU
2022 Daily AVG NTU
2023 Daily AVG NTU
Algaecide application
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69 73 77 81 85 89 93 97 101 105 109 113 117 121 125 129 133 137 141 145 149 153 157 161 165 169 173 177 181 185 189 193 197 201 205 209 213 217 221 225 229 233 237 241 245 249 253 257 261 265 269 273 277 281 285 289 293 297 301 305 309 313 317 321 325 329 333 337 341 345 349 353 357 361 365


30.00
25.00
20.00
15.00
10.00
5.00
0.00
2017 Lake Temp
2018 Lake Temp
2019 Lake Temp
2020 Lake Temp
2021 Lake Temp
2022 Lake Temp
2023 Lake Temp
Algeacide Application
9/11/2018
1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69 73 77 81 85 89 93 97 101105109113117121125129133137141145149153157161165169173177181185189193197201205209213217221225229233237241245249253257261265269273277281285289293297301305309313317321325329333337341345349353357361365

Information for fecal datasheets:

- Unfiltered drinking water supplies are required to sample for fecal bacteria
- CFU stands for colony forming unit
- Raw water from the intake is sampled for fecal bacteria every day
- A fecal bacteria reading of over 20 CFU is considered an event
- No more than 10% of the samples taken in a rolling 6 month period can be over 20 CFU without getting a violation
- Total coliform and E. coli are not required to be tested, these are tested for our own reference
- Fecal coliform confirmation column: when P/P is listed, that means Positive test with a confirmed Positive second test. This only has to be done for the first 10 positive tests of the month.

Aug-23

INLINE

Collected			Temp	Turbidity		Ph	Amount	FECAL	QUANTITRAY		Fecal
DATE	TIME	BY	*C	1720E	TU5200	230 A	Sample	BACTERIA CFU	TOTAL COLIFORM	E.COLI	Confirmation
8/1	03:00	DAF	25.2	0.35	0.45	7.17	100	0			
8/2	03:15	DAF	24.6	0.35	0.40	7.23	100	0			
8/3	03:10	DAF	24.4	0.35	0.40	7.22	100	0			
8/4	03:10	DAF	24.5	0.30	0.40	7.24	100	0			
8/5	08:25	LRB	23.9	0.35	0.40	7.26	100	0			
8/6	08:30	LRB	24.1	0.35	0.40	7.19	100	1			P,P
8/7	07:40	LRB	23.9	0.35	0.35	7.23	100	0	325.5	<1	
8/8	08:10	LRB	23.7	0.35	0.40	7.22	100	1			P,P
8/9	07:15	LRB	23.3	0.45	0.50	7.07	100	3			P,P/P,P/P,P
8/10	07:05	LRB	23.4	0.70	0.70	7.09	100	3			P,P/P,P/P,P
8/11	06:45	LRB	23.9	0.45	0.50	7.14	100	1			P,P
8/12	10:30	LRB	23.5	0.65	0.75	7.13	100	0			
8/13	10:20	LRB	23.6	0.45	0.45	7.12	100	0			
8/14	03:00	DAF	22.8	0.40	0.45	7.14	100	1	>2419.6	3.1	p,p
8/15	03:00	DAF	23.6	0.40	0.45	7.15	100	0			
8/16	03:10	DAF	23.9	0.40	0.50	7.13	100	0			
8/17	02:40	DAF	23.8	0.40	0.45	7.20	100	0			
8/18	02:55	DAF	23.3	0.40	0.50	7.04	100	0			
8/19	07:35	LRB	23.0	0.40	0.50	7.16	100	0			
8/20	07:35	LRB	23.0	0.40	0.45	7.16	100	0			
8/21	03:10	DAF	23.3	0.45	0.50	7.11	100	0	1732.9	<1	
8/22	03:10	DAF	23.4	0.45	0.55	7.08	100	0			
8/23	03:10	DAF	23.1	0.45	0.55	7.10	100	0			
8/24	03:20	DAF	22.9	0.45	0.50	7.14	100	0			
8/25	03:00	DAF	23.3	0.50	0.50	7.24	100	0			
8/26	06:30	DAF	22.8	0.50	0.55	7.20	100	0			
8/27	06:30	DAF	22.7	0.55	0.65	7.22	100	0			
8/28	03:10	DAF	22.9	0.55	0.60	7.26	100	0	1732.9	1.0	
8/29	03:00	DAF	22.9	0.60	0.60	7.28	100	0			
8/30	03:05	DAF	23.0	0.60	0.70	7.30	100	0			
8/31	03:05	DAF	22.9	0.60	0.65	7.33	100	3			

Sep-23

INLINE

Collected			Temp	Turbidity		Ph	Amount	FECAL	QUANTITRAY		Fecal
DATE	TIME	BY	*C	1720E	TU5200	230 A	Sample	BACTERIA CFU	TOTAL	E.COLI	Confirmation
9/1	03:20	DAF	22.70	0.65	0.70	7.29	100	1			P,P
9/2	06:10	LRB	22.40	0.65	0.75	7.31	100	2			P,P/P,P
9/3	07:10	LRB	22.40	0.60	0.65	7.17	100	0			
9/4	07:55	LRB	22.60	0.70	0.70	7.17	100	0	2419.6	<1	
9/5	03:05	DAF	23.00	0.70	0.75	7.31	100	0			
9/6	02:05	DAF	23.70	0.60	0.65	7.37	100	0			
9/7	03:05	DAF	22.80	0.60	0.70	7.25	100	0			
9/8	03:00	DAF	23.10	0.70	0.75	7.33	100	0			
9/9	06:05	DAF	23.50	0.70	0.75	7.28	100	0			
9/10	06:15	DAF	23.30	0.65	0.75	7.36	100	0			
9/11	03:10	DAF	23.60	0.70	0.75	7.26	100	0	1732.9	1.0	
9/12	03:00	DAF	23.70	0.70	0.80	7.30	100	0			
9/13	03:05	DAF	23.80	0.70	0.75	7.29	100	0			
9/14	03:15	DAF	24.10	0.80	0.80	7.33	100	0			
9/15	03:20	DAF	23.70	0.75	0.80	7.36	100	0			
9/16	09:05	LRB	22.20	0.70	0.70	7.20	100	1			P,P
9/17	09:25	LRB	20.80	0.95	1.00	7.08	100	0			
9/18	03:25	DAF	21.90	0.80	0.90	7.24	100	0	>2419.6	<1	
9/19	03:10	DAF	20.60	0.90	1.00	7.05	100	0			
9/20	03:10	DAF	20.40	0.85	0.95	7.20	100	3			
9/21	07:00	LRB	20.10	1.00	1.05	7.01	100	2			
9/22	04:00	DAF	20.00	0.95	1.00	7.06	100	0			
9/23	06:15	DAF	20.20	0.85	0.90	7.09	100	1			
9/24	05:30	DAF	19.90	0.75	0.90	7.06	100	0			
9/25	03:15	DAF	19.60	0.70	0.80	7.14	100	0	>2419.6	<1	
9/26	03:00	DAF	19.40	0.75	0.80	7.10	100	0			
9/27	03:15	DAF	19.10	0.70	0.80	7.11	100	1			
9/28	03:10	DAF	19.30	0.65	0.70	7.14	100	0			
9/29	03:10	DAF	19.20	0.65	0.70	7.14	100	0			
9/30	08:15	LRB	19.10	0.60	0.65	7.10	100	1			

LAKE AUBURN WATERSHED SAMPLING LOCATIONS

BUCKFIELD

HEBRON

TURNER

MINOT

AUBURN

LEWISTON

MUD POND

LITTLE WILSON POND

LAKE AUBURN

N

W E

S

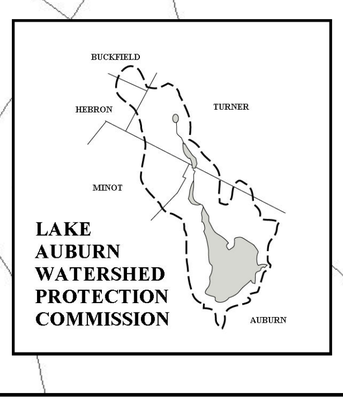
LEGEND

- SAMPLE POINTS
- WATERSHED LINE
- SUB-WATERSHED LINE
- TOWN LINE

0 1,600 3,200

1 inch = 1600 feet

28 18 17 27 16 13 B4 29 4 3 23 2 26 B-1 R-2 25 30 32 31 B0 12 B1 8 B3 B2



LAKE AUBURN WATERSHED PROTECTION COMMISSION

In-lake phosphorus samples

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	124	5/4/2023	750	12-4M	CORE	4	12	<1
2023	124	5/4/2023	755	12-4M			9	1
2023	124	5/4/2023	825	30-9M	CORE	9	12	1
2023	124	5/4/2023	830	30-9M			9	1
2023	124	5/4/2023	840	29-9M	CORE	9	12	1
2023	124	5/4/2023	845	29-9M			10	<1
2023	124	5/4/2023	850	32-10M	CORE	10	11	1
2023	124	5/4/2023	855	32-17M			9	<1
2023	124	5/4/2023	900	31-10M	CORE	10	13	1
2023	124	5/4/2023	905	31-27M			9	1
2023	124	5/4/2023	915	8-10M	CORE	10	9	1
2023	124	5/4/2023	920	8-33M			8	1
2023	129	5/9/2023	800	12-4M	CORE	4	11	1
2023	129	5/9/2023	805	12-4M			10	<1
2023	129	5/9/2023	810	30-9M	CORE	9	11	1
2023	129	5/9/2023	815	30-9M			15	1
2023	129	5/9/2023	825	29-9M	CORE	9	11	1
2023	129	5/9/2023	830	29-9M			11	<1
2023	129	5/9/2023	835	32-10M	CORE	10	8	<1
2023	129	5/9/2023	840	32-17M			10	<1
2023	129	5/9/2023	850	31-10M	CORE	10	10	<1
2023	129	5/9/2023	855	31-27M			10	<1
2023	129	5/9/2023	910	8-10M	CORE	10	10	1
2023	129	5/9/2023	915	8-33M			10	1
2023	143	5/23/2023	730	12-4M	CORE	4	11	<1
2023	143	5/23/2023	735	12-4M			36	<1
2023	143	5/23/2023	745	30-9M	CORE	9	14	1
2023	143	5/23/2023	750	30-9M			10	<1
2023	143	5/23/2023	800	29-9M	CORE	9	8	1
2023	143	5/23/2023	805	29-9M			10	1
2023	143	5/23/2023	815	32-10M	CORE	10	10	1
2023	143	5/23/2023	820	32-17M			11	1
2023	143	5/23/2023	830	31-10M	CORE	10	9	1
2023	143	5/23/2023	835	31-27M			10	1
2023	143	5/23/2023	850	8-10M	CORE	10	10	<1
2023	143	5/23/2023	855	8-33M			11	1

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	152	6/1/2023	720	12-4M	CORE	4	12	1
2023	152	6/1/2023	725	12-4M			8	<1
2023	152	6/1/2023	735	30-9M	CORE	9	14	<1
2023	152	6/1/2023	740	30-9M			13	<1
2023	152	6/1/2023	745	29-9M	CORE	9	10	1
2023	152	6/1/2023	750	29-9M			14	1
2023	152	6/1/2023	800	32-10M	CORE	10	12	<1
2023	152	6/1/2023	805	32-17M			10	1
2023	152	6/1/2023	815	31-10M	CORE	10	9	1
2023	152	6/1/2023	820	31-27M			11	1
2023	152	6/1/2023	830	8-10M	CORE	10	8	<1
2023	152	6/1/2023	835	8-33M			15	2
2023	159	6/8/2023	725	12-4M	CORE	4	25	9
2023	159	6/8/2023	730	12-4M			11	1
2023	159	6/8/2023	815	30-9M	CORE	9	9	1
2023	159	6/8/2023	820	30-9M			13	1
2023	159	6/8/2023	900	29-9M	CORE	9	19	<1
2023	159	6/8/2023	905	29-9M			15	<1
2023	159	6/8/2023	910	32-10M	CORE	10	14	<1
2023	159	6/8/2023	915	32-17M			12	2
2023	159	6/8/2023	925	31-10M	CORE	10	12	1
2023	159	6/8/2023	930	31-27M			17	4
2023	159	6/8/2023	1000	8-10M	CORE	10	13	1
2023	159	6/8/2023	1005	8-33M			14	4
2023	163	6/12/2023	810	12-4M	CORE	4	10	<1
2023	163	6/12/2023	815	12-4M			41	11
2023	163	6/12/2023	825	30-9M	CORE	9	13	1
2023	163	6/12/2023	830	30-9M			17	1
2023	163	6/12/2023	840	29-9M	CORE	9	7	1
2023	163	6/12/2023	845	29-9M			7	1
2023	163	6/12/2023	900	32-10M	CORE	10	13	2
2023	163	6/12/2023	905	32-17M			8	3
2023	163	6/12/2023	915	31-10M	CORE	10	21	1
2023	163	6/12/2023	920	31-27M			260	4
2023	163	6/12/2023	930	8-10M	CORE	10	9	1
2023	163	6/12/2023	935	8-33M			14	4

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	173	6/22/2023	725	12-4M	CORE	4	7	<1
2023	173	6/22/2023	730	12-4M			7	1
2023	173	6/22/2023	740	30-9M	CORE	9	11	1
2023	173	6/22/2023	745	30-9M			9	1
2023	173	6/22/2023	845	29-9M	CORE	9	9	1
2023	173	6/22/2023	850	29-9M			18	1
2023	173	6/22/2023	855	32-10M	CORE	10	8	1
2023	173	6/22/2023	900	32-17M			10	1
2023	173	6/22/2023	910	31-10M	CORE	10	8	1
2023	173	6/22/2023	915	31-27M			11	5
2023	173	6/22/2023	930	8-10M	CORE	10	10	1
2023	173	6/22/2023	935	8-33M			15	6
2023	180	6/29/2023	905	12-4M	CORE	4	11	<1
2023	180	6/29/2023	910	12-4M			6	<1
2023	180	6/29/2023	930	30-9M	CORE	9	9	<1
2023	180	6/29/2023	935	30-9M			7	<1
2023	180	6/29/2023	945	29-9M	CORE	9	9	<1
2023	180	6/29/2023	950	29-9M			9	<1
2023	180	6/29/2023	1005	32-10M	CORE	10	10	<1
2023	180	6/29/2023	1010	32-17M			7	1
2023	180	6/29/2023	1025	31-10M	CORE	10	8	<1
2023	180	6/29/2023	1030	31-27M			13	4
2023	180	6/29/2023	1050	8-10M	CORE	10	9	<1
2023	180	6/29/2023	1055	8-33M			11	4
2023	186	7/5/2023	735	12-4M	CORE	4	12	1
2023	186	7/5/2023	740	12-4M			6	<1
2023	186	7/5/2023	750	30-9M	CORE	6	11	1
2023	186	7/5/2023	755	30-9M			9	1
2023	186	7/5/2023	810	29-9M	CORE	6	15	<1
2023	186	7/5/2023	815	29-9M			9	1
2023	186	7/5/2023	820	32-10M	CORE	6	8	<1
2023	186	7/5/2023	825	32-17M			9	1
2023	186	7/5/2023	835	31-10M	CORE	6	10	<1
2023	186	7/5/2023	840	31-27M			16	4
2023	186	7/5/2023	900	8-10M	CORE	6	7	<1
2023	186	7/5/2023	905	8-33M			16	4

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	193	7/12/2023	610	12-4M	CORE	4	7	<1
2023	193	7/12/2023	615	12-4M			6	<1
2023	193	7/12/2023	625	30-9M	CORE	6	15	<1
2023	193	7/12/2023	630	30-9M			7	1
2023	193	7/12/2023	635	29-9M	CORE	6	6	<1
2023	193	7/12/2023	640	29-9M			8	1
2023	193	7/12/2023	650	32-10M	CORE	6	9	<1
2023	193	7/12/2023	655	32-17M			6	1
2023	193	7/12/2023	705	31-10M	CORE	6	10	<1
2023	193	7/12/2023	710	31-27M			8	2
2023	193	7/12/2023	715	8-10M	CORE	6	6	<1
2023	193	7/12/2023	720	8-33M			13	4
2023	199	7/18/2023	750	12-4M	CORE	4	7	<1
2023	199	7/18/2023	755	12-4M			5	<1
2023	199	7/18/2023	815	30-9M	CORE	6	8	<1
2023	199	7/18/2023	820	30-9M			9	<1
2023	199	7/18/2023	835	29-9M	CORE	6	5	<1
2023	199	7/18/2023	840	29-9M			10	<1
2023	199	7/18/2023	850	32-10M	CORE	6	11	<1
2023	199	7/18/2023	855	32-17M			6	<1
2023	199	7/18/2023	910	31-10M	CORE	6	7	<1
2023	199	7/18/2023	915	31-27M			13	3
2023	199	7/18/2023	930	8-10M	CORE	6	7	<1
2023	199	7/18/2023	935	8-33M			9	3
2023	208	7/27/2023	820	12-4M	CORE	4	7	<1
2023	208	7/27/2023	825	12-4M			5	<1
2023	208	7/27/2023	830	30-9M	CORE	6	6	<1
2023	208	7/27/2023	835	30-9M			7	<1
2023	208	7/27/2023	855	29-9M	CORE	6	7	<1
2023	208	7/27/2023	900	29-9M			9	<1
2023	208	7/27/2023	910	32-10M	CORE	6	6	<1
2023	208	7/27/2023	915	32-17M			9	<1
2023	208	7/27/2023	935	31-10M	CORE	6	7	<1
2023	208	7/27/2023	940	31-27M			10	2
2023	208	7/27/2023	950	8-10M	CORE	6	11	<1
2023	208	7/27/2023	955	8-33M			9	6

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	213	8/1/2023	730	12-4M	CORE	4	7	<1
2023	213	8/1/2023	735	12-4M			6	<1
2023	213	8/1/2023	745	30-9M	CORE	7	6	<1
2023	213	8/1/2023	750	30-9M			7	<1
2023	213	8/1/2023	800	29-9M	CORE	7	8	1
2023	213	8/1/2023	805	29-9M			7	1
2023	213	8/1/2023	815	32-10M	CORE	7	11	1
2023	213	8/1/2023	820	32-17M			8	1
2023	213	8/1/2023	830	31-10M	CORE	7	8	1
2023	213	8/1/2023	835	31-27M			10	3
2023	213	8/1/2023	845	8-10M	CORE	7	7	<1
2023	213	8/1/2023	850	8-33M			11	3
2023	222	8/10/2023	800	12-4M	CORE	4	10	<1
2023	222	8/10/2023	805	12-4M			7	1
2023	222	8/10/2023	815	30-9M	CORE	8	7	<1
2023	222	8/10/2023	820	30-9M			10	1
2023	222	8/10/2023	835	29-9M	CORE	8	11	2
2023	222	8/10/2023	840	29-9M			16	<1
2023	222	8/10/2023	850	32-10M	CORE	8	7	<1
2023	222	8/10/2023	855	32-17M			10	1
2023	222	8/10/2023	915	31-10M	CORE	8	8	<1
2023	222	8/10/2023	920	31-27M			11	4
2023	222	8/10/2023	940	8-10M	CORE	8	7	<1
2023	222	8/10/2023	945	8-33M			11	4
2023	229	8/17/2023	740	12-4M	CORE	4	8	<1
2023	229	8/17/2023	745	12-4M			7	<1
2023	229	8/17/2023	750	30-9M	CORE	8	7	1
2023	229	8/17/2023	755	30-9M			6	<1
2023	229	8/17/2023	815	29-9M	CORE	8	9	1
2023	229	8/17/2023	820	29-9M			6	1
2023	229	8/17/2023	830	32-10M	CORE	8	7	<1
2023	229	8/17/2023	835	32-17M			9	1
2023	229	8/17/2023	845	31-10M	CORE	8	7	1
2023	229	8/17/2023	850	31-27M			11	4
2023	229	8/17/2023	900	8-10M	CORE	8	7	<1
2023	229	8/17/2023	905	8-33M			12	4

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	234	8/22/2023	750	12-4M	CORE	4	8	1
2023	234	8/22/2023	755	12-4M			6	<1
2023	234	8/22/2023	800	30-9M	CORE	8	6	<1
2023	234	8/22/2023	805	30-9M			6	1
2023	234	8/22/2023	820	29-9M	CORE	8	7	1
2023	234	8/22/2023	825	29-9M			9	1
2023	234	8/22/2023	830	32-10M	CORE	8	8	1
2023	234	8/22/2023	835	32-17M			7	1
2023	234	8/22/2023	845	31-10M	CORE	8	6	2
2023	234	8/22/2023	850	31-27M			13	4
2023	234	8/22/2023	900	8-10M	CORE	8	6	1
2023	234	8/22/2023	905	8-33M			15	2
2023	241	8/29/2023	740	12-4M	CORE	4	14	2
2023	241	8/29/2023	745	12-4M			7	<1.0
2023	241	8/29/2023	755	30-9M	CORE	8	11	1
2023	241	8/29/2023	800	30-9M			8	1
2023	241	8/29/2023	815	29-9M	CORE	8	10	1
2023	241	8/29/2023	820	29-9M			8	<1.0
2023	241	8/29/2023	830	32-10M	CORE	8	7	2
2023	241	8/29/2023	835	32-17M			9	2
2023	241	8/29/2023	845	31-10M	CORE	8	8	1
2023	241	8/29/2023	850	31-27M			20	4
2023	241	8/29/2023	900	8-10M	CORE	8	11	<1.0
2023	241	8/29/2023	905	8-33M			18	3
2023	249	9/6/2023	735	12-4M	CORE	4	12	1
2023	249	9/6/2023	740	12-4M			9	1
2023	249	9/6/2023	750	30-9M	CORE	8	9	1
2023	249	9/6/2023	755	30-9M			11	<1
2023	249	9/6/2023	805	29-9M	CORE	8	9	1
2023	249	9/6/2023	810	29-9M			9	1
2023	249	9/6/2023	820	32-10M	CORE	8	9	1
2023	249	9/6/2023	825	32-17M			9	1
2023	249	9/6/2023	840	31-10M	CORE	8	10	1
2023	249	9/6/2023	845	31-27M			23	4
2023	249	9/6/2023	900	8-10M	CORE	8	8	1
2023	249	9/6/2023	905	8-33M			27	5

Year	Day	Date	Time	Location Site #	CORE	Depth M	Total P ug/L	Ortho P mg/L
2023	257	9/14/2023	735	12-4M	CORE	4	14	1
2023	257	9/14/2023	740	12-4M			8	1
2023	257	9/14/2023	745	30-9M	CORE	9	10	1
2023	257	9/14/2023	750	30-9M			9	2
2023	257	9/14/2023	755	29-9M	CORE	8.5	11	1
2023	257	9/14/2023	800	29-9M			9	2
2023	257	9/14/2023	810	32-10M	CORE	8	8	1
2023	257	9/14/2023	815	32-17M			8	2
2023	257	9/14/2023	820	31-10M	CORE	8	12	1
2023	257	9/14/2023	825	31-27M			24	5
2023	257	9/14/2023	830	8-10M	CORE	8	8	1
2023	257	9/14/2023	835	8-33M			30	6

There are 6 sampling stations in Lake Auburn (see map for reference). They are listed in the Location Site # column. Water is collected at each site using two different methods to test for phosphorus. One method is a Core sample (noted in the table), the other is a grab sample. A Core sample collects water from the surface down to the depth noted in the table. A grab sample collects water from the bottom depth at each sampling station, noted in meters in the Location Site #. Total phosphorus is shown as Total P and is measured in micrograms per liter (ug/L). This is a measure of all forms of phosphorus present in the water. Orthophosphorus is shown as Ortho P and is also measured in micrograms per liter. Ortho P is a measure of “available” phosphorus, particularly which can be used by algae to grow.

The Total P numbers listed are within the normal range for what we have seen in the lake in years past. When Total P numbers get above 15 ug/L that is starting to get elevated. Ortho P typically will range from <1 to 4 ug/L, with 4 ug/L being high.

Phosphorus samples are collected by staff and then sent the State lab for analysis. Turnaround times for results can be over a month. These are all results we have received so far.

Tributary phosphorus samples

Year	Day	Date	Time	Location Site #	Total P ug/L	Ortho P mg/L
2023	103	4/13/2023	715	25	16	2
2023	103	4/13/2023	720	2	10	1
2023	103	4/13/2023	725	23	12	2
2023	103	4/13/2023	730	3	4	1
2023	103	4/13/2023	740	4	7	2
2023	103	4/13/2023	750	13	7	<1
2023	103	4/13/2023	800	16	6	<1
2023	103	4/13/2023	810	27	7	1
2023	103	4/13/2023	820	18	8	1
2023	103	4/13/2023	830	17	8	1
2023	103	4/13/2023	845	26	11	3
2023	103	4/13/2023	850	B-1	52	2
2023	103	4/13/2023	900	R-2	14	1
2023	116	4/26/2023	705	25	47	3
2023	116	4/26/2023	710	2	15	1
2023	116	4/26/2023	715	23	15	3
2023	116	4/26/2023	720	3	6	2
2023	116	4/26/2023	725	4	9	2
2023	116	4/26/2023	730	13	9	1
2023	116	4/26/2023	740	5A	14	7
2023	116	4/26/2023	750	16	8	1
2023	116	4/26/2023	755	27	8	1
2023	116	4/26/2023	805	18	11	1
2023	116	4/26/2023	815	17	9	1
2023	116	4/26/2023	825	TBR	10	2
2023	116	4/26/2023	835	26	13	3
2023	116	4/26/2023	840	B-1	100	1
2023	116	4/26/2023	845	R-2	32	2
2023	121	5/1/2023	1030	25	78	6
2023	121	5/1/2023	1050	2	58	6
2023	121	5/1/2023	1220	4	20	4
2023	121	5/1/2023	1210	13	20	1
2023	121	5/1/2023	1150	5A	220	160
2023	122	5/2/2023	745	25	35	4
2023	122	5/2/2023	750	2	35	4
2023	122	5/2/2023	800	23	21	4
2023	122	5/2/2023	805	3	11	2
2023	122	5/2/2023	810	4	9	2
2023	122	5/2/2023	815	13	14	1
2023	122	5/2/2023	830	16	14	1
2023	122	5/2/2023	840	27	15	3
2023	122	5/2/2023	855	18	16	1
2023	122	5/2/2023	905	17	12	1
2023	122	5/2/2023	930	26	24	4
2023	122	5/2/2023	920	B-1	100	36
2023	122	5/2/2023	940	R-2	38	3
2023	128	5/8/2023	720	25	25	2
2023	128	5/8/2023	725	2	17	1
2023	128	5/8/2023	730	23	17	3

Year	Day	Date	Time	Location Site #	Total P ug/L	Ortho P mg/L
2023	128	5/8/2023	735	3	8	2
2023	128	5/8/2023	745	4	9	2
2023	128	5/8/2023	755	13	12	1
2023	128	5/8/2023	805	16	11	1
2023	128	5/8/2023	810	27	9	2
2023	128	5/8/2023	820	18	11	1
2023	128	5/8/2023	830	17	12	1
2023	128	5/8/2023	850	TBR	11	3
2023	128	5/8/2023	855	26	15	3
2023	128	5/8/2023	905	R-2	64	2
2023	142	5/22/2023	710	25	51	4
2023	142	5/22/2023	715	2	25	2
2023	142	5/22/2023	720	23	22	3
2023	142	5/22/2023	725	3	8	2
2023	142	5/22/2023	730	4	12	2
2023	142	5/22/2023	735	13	12	<1
2023	142	5/22/2023	745	5A	12	4
2023	142	5/22/2023	755	16	11	1
2023	142	5/22/2023	800	27	10	2
2023	142	5/22/2023	810	18	17	1
2023	142	5/22/2023	820	17	8	1
2023	142	5/22/2023	830	TBR	22	3
2023	142	5/22/2023	840	26	25	3
2023	142	5/22/2023	850	B-1	73	3
2023	142	5/22/2023	855	R-2	45	3
2023	158	6/7/2023	715	25	28	3
2023	158	6/7/2023	720	2	20	2
2023	158	6/7/2023	725	23	21	4
2023	158	6/7/2023	730	3	7	2
2023	158	6/7/2023	740	4	8	3
2023	158	6/7/2023	750	13	12	1
2023	158	6/7/2023	805	16	10	<1
2023	158	6/7/2023	810	27	8	2
2023	158	6/7/2023	825	18	13	2
2023	158	6/7/2023	830	17	13	1
2023	158	6/7/2023	845	TBR	18	2
2023	158	6/7/2023	855	26	20	3
2023	158	6/7/2023	900	R-2	35	3
2023	171	6/20/2023	720	25	29	87
2023	171	6/20/2023	725	2	20	2
2023	171	6/20/2023	730	23	29	6
2023	171	6/20/2023	740	3	6	3
2023	171	6/20/2023	745	4	11	3
2023	171	6/20/2023	755	13	11	1
2023	171	6/20/2023	805	16	9	<1
2023	171	6/20/2023	810	27	11	3
2023	171	6/20/2023	825	18	15	1
2023	171	6/20/2023	830	17	9	1
2023	171	6/20/2023	850	TBR	15	3
2023	171	6/20/2023	900	26	21	4
2023	171	6/20/2023	910	R-2	44	3

Year	Day	Date	Time	Location Site #	Total P ug/L	Ortho P mg/L
2023	192	7/11/2023	725	25	68	6
2023	192	7/11/2023	730	2	19	2
2023	192	7/11/2023	735	23	53	6
2023	192	7/11/2023	745	3	17	3
2023	192	7/11/2023	755	4	19	3
2023	192	7/11/2023	800	13	11	1
2023	192	7/11/2023	810	5A	42	16
2023	192	7/11/2023	820	16	8	<1
2023	192	7/11/2023	825	27	18	3
2023	192	7/11/2023	835	18	20	3
2023	192	7/11/2023	845	17	9	1
2023	192	7/11/2023	855	TBR	23	4
2023	192	7/11/2023	900	26	28	4
2023	192	7/11/2023	910	R-2	100	4
2023	207	7/26/2023	720	25	63	6
2023	207	7/26/2023	725	2	19	2
2023	207	7/26/2023	730	23	64	6
2023	207	7/26/2023	735	3	18	3
2023	207	7/26/2023	745	4	21	4
2023	207	7/26/2023	750	13	12	1
2023	207	7/26/2023	755	5A	55	34
2023	207	7/26/2023	810	16	10	1
2023	207	7/26/2023	815	27	20	3
2023	207	7/26/2023	825	18	22	2
2023	207	7/26/2023	835	17	9	1
2023	207	7/26/2023	850	TBR	28	5
2023	207	7/26/2023	900	26	31	3
2023	207	7/26/2023	905	B-1	140	6
2023	207	7/26/2023	915	R-2	90	4
2023	212	7/31/2023	730	25	38	5
2023	212	7/31/2023	735	2	25	2
2023	212	7/31/2023	740	23	33	5
2023	212	7/31/2023	745	3	10	3
2023	212	7/31/2023	750	4	12	3
2023	212	7/31/2023	755	13	11	5
2023	212	7/31/2023	800	5A	14	6
2023	212	7/31/2023	810	16	10	1
2023	212	7/31/2023	815	27	12	4
2023	212	7/31/2023	825	18	18	2
2023	212	7/31/2023	835	17	9	1
2023	212	7/31/2023	850	TBR	22	5
2023	212	7/31/2023	900	26	23	5
2023	212	7/31/2023	910	R-2	95	1
2023	221	8/9/2023	835	25	67	10
2023	221	8/9/2023	900	2	51	7
2023	221	8/9/2023	910	23	39	6
2023	221	8/9/2023	920	3	20	4
2023	221	8/9/2023	925	4	16	3
2023	221	8/9/2023	930	13	18	1
2023	221	8/9/2023	940	5A	77	42

Year	Day	Date	Time	Location Site #	Total P ug/L	Ortho P mg/L
2023	221	8/9/2023	955	16	18	1
2023	221	8/9/2023	1005	27	25	5
2023	221	8/9/2023	1020	18	25	3
2023	221	8/9/2023	1035	17	13	1
2023	221	8/9/2023	1125	TBR	24	2
2023	221	8/9/2023	1135	26	33	4
2023	221	8/9/2023	1145	B-1	190	78
2023	221	8/9/2023	1150	R-2	100	13
2023	243	8/31/2023	715	25	37	7
2023	243	8/31/2023	720	2	21	4
2023	243	8/31/2023	725	23	32	8
2023	243	8/31/2023	730	3	10	5
2023	243	8/31/2023	740	4	21	7
2023	243	8/31/2023	745	13	10	2
2023	243	8/31/2023	755	16	9	2
2023	243	8/31/2023	805	27	10	5
2023	243	8/31/2023	815	18	13	5
2023	243	8/31/2023	825	17	10	2
2023	243	8/31/2023	840	TBR	16	7
2023	243	8/31/2023	845	26	15	6
2023	243	8/31/2023	900	R-2	65	4

There are 15 routinely sampled tributary locations in the Lake Auburn watershed (see map for reference). They are listed in the Location Site # column. Sampling at each site depends on if there is water flowing in the tributary, so some weeks certain sites may be omitted, or others may be added. Water is collected at each site using a grab sample to test for total phosphorus and orthophosphorus.

Total phosphorus can vary greatly in tributary samples, often due to wet or dry periods of weather. The highlighted cells are elevated levels of total and orthophosphorus.

Please note: 5/1/23 was a major rain event that flooded Lake Shore Drive.

Sites B-1 and R-2 are part of the Blanchard Pond tributary system. Site 2 is the outlet of this system to the lake. Site 25 is the outlet of Townsend Brook to the lake. Site 5A is a stream that goes under Whitman Spring Road.

Phosphorus samples are collected by staff and then sent the State lab for analysis. Turnaround times for results can be over a month. These are all results we have received so far.

DATE	Secchi (m)
5/4/2023	4.4
5/9/2023	4.3
5/23/2023	5.1
6/1/2023	7.5
6/8/2023	7.5
6/12/2023	8.4
6/22/2023	10.6
6/29/2023	10.4
7/5/2023	10.5
7/12/2023	10.45
7/18/2023	11.1
7/27/2023	11.6
8/1/2023	10.5
8/10/2023	8.8
8/17/2023	9.2
8/22/2023	9.8
8/29/2023	6.6
9/6/2023	6.3
9/14/2023	5.5
9/20/2023	4.9
9/26/2023	5.8
10/3/2023	7
10/12/2023	6.9
10/18/2023	6.9
10/25/2023	7.5

Secchi disk readings are a measure of water transparency. The readings tell you how clear the water, and are measured by how far down in the water you can see a black and white disk. The measurement is taken in meters. Early in the year after ice-out, it's typical for the readings to be below 10 meters. The further we get into summer, it's typical to see readings of 10 meters or above. All readings reported here are from the deep hole sampling station.

Lake Auburn Watershed Commission
Adopted Budget
For the Fiscal Year 2024

	2019 Actual	2020 Actual	2021 Actual	2022 Actual	2022 Budget	2023 Budget	2023 Estimated Actual	2024 Budget	Percentage Change
Expenditures:									
Auburn Water District	5,398.28	6,755.35	5,191.00	5,945.74	6,000.00	6,000.00	6,000.00	12,000.00	100.00%
Lewiston Water Division	6,710.25	4,281.50	8,991.17	23,636.17	6,000.00	6,000.00	6,000.00	12,000.00	100.00%
Executive Administration	1,432.72	62.49	-	511.54	750.00	550.00	550.00	6,000.00	990.91%
Forestry	8,189.63	4,895.00	10,064.59	7,125.19	4,500.00	3,500.00	3,500.00	8,400.00	140.00%
Outside Services	3,325.00	3,325.00	3,435.00	1,850.00	3,325.00	3,325.00	3,325.00	6,000.00	80.45%
Sanitary Facilities	3,339.10	3,680.00	2,680.00	2,745.00	3,760.00	3,760.00	3,760.00	3,760.00	0.00%
Source Protection Management	(6,244.30)	111,806.99	41,198.99	29,418.40	63,250.00	63,150.00	63,150.00	63,000.00	-0.24%
Repairs to Property & Equipment	3,726.79	2,454.77	3,252.94	4,077.26	6,000.00	3,800.00	3,800.00	3,800.00	0.00%
Public Education General	1,566.48	17.00	2,371.28	-	1,775.00	1,775.00	1,775.00	1,775.00	0.00%
Public Ed. - Labor	19,358.22	11,975.44	11,902.33	24,284.33	27,620.00	30,515.00	30,515.00	67,600.00	121.53%
Public Ed. - Supplies	2,385.14	838.98	2,035.79	899.38	800.00	1,400.00	1,400.00	1,400.00	0.00%
Public Ed. - Events	1,036.96	-	189.49	570.81	2,000.00	2,000.00	2,000.00	2,000.00	0.00%
Public Ed. - Outside Services	(11.05)	838.69	-	1,184.00	500.00	2,400.00	2,400.00	4,900.00	104.17%
Public Ed. - Public Relations	2,475.58	1,079.49	498.52	1,852.88	1,500.00	2,800.00	2,800.00	2,800.00	0.00%
Public Ed. - Misc.	1,600.71	661.93	1,183.83	392.68	1,500.00	250.00	250.00	700.00	180.00%
Liability & D&O Insurance	11,605.00	11,446.08	12,075.47	10,958.05	11,650.00	12,000.00	11,700.00	10,990.00	-8.42%
Legal	7,938.00	127.50	6,454.50	9,427.50	4,000.00	10,500.00	10,500.00	8,000.00	-23.81%
Audit/Financial Services	6,291.25	6,441.26	6,595.26	7,191.25	6,695.00	7,395.00	6,295.62	6,791.00	-8.17%
Property Taxes	4,616.50	4,710.32	4,515.20	3,994.73	4,625.00	4,165.00	4,229.87	4,290.00	3.00%
Operational Supplies	460.34	2,201.62	1,999.73	755.39	1,000.00	1,000.00	1,000.00	1,000.00	0.00%
Miscellaneous	757.95	864.76	435.49	1,460.36	950.00	850.00	850.00	900.00	5.88%
Total Operating Expenditures	85,958.55	178,464.17	125,070.58	138,280.66	158,200.00	167,135.00	165,800.49	228,106.00	36.48%
Capital Expenditures:									
Forestry Management Plan					-	20,000.00	20,000.00	-	-100.00%
Management of Water - approved 3/29/23							47,100.00		
Pontoon Boat & Accessories - Funded over 2				-	25,000.00	25,000.00	25,000.00	-	-100.00%
								115,000.00	
Total Capital Expenditures	-	-	-	-	25,000.00	45,000.00	92,100.00	115,000.00	155.56%
Total Expenditures	**85,958.55**	**178,464.17**	**125,070.58**	**138,280.66**	**183,200.00**	**212,135.00**	**257,900.49**	**343,106.00**	61.74%
Revenues:									
Contributions -AWD	48,550.00	40,000.00	52,500.00	58,249.96	58,250.00	60,000.00	60,000.00	80,000.00	33.33%
Contributions - LWD	48,550.00	40,000.00	52,500.00	58,250.00	58,250.00	60,000.00	60,000.00	80,000.00	33.33%
Fund Balance Carryforward		94,807.97	-	-	50,665.00	88,100.00	88,100.00	180,406.00	104.77%
Gain on Sale of Assets	-	-	4,576.64	386.70	-	-	-		
Sale of Timber/Assets	53,647.30	-	93,763.92	29,309.55	14,000.00	2,000.00	2,625.00	2,000.00	0.00%
Intergovernmental	2,000.00	2,000.00	2,200.00	2,250.00	2,000.00	2,000.00	42,500.00	-	-100.00%
Interest	2 853.42	1,656.20	344.82	789.81	35.00	35.00	600.00	700.00	1900.00%
Total Revenues	**152,747.30**	**178,464.17**	**205,885.38**	**149,236.02**	**183,200.00**	**212,135.00**	**253,825.00**	**343,106.00**	61.74%
Surplus	**66,788.75**	**-**	**80,814.80**	**10,955.36**	**-**	**-**	**(4,075.49)**	**-**	
Total contributions from each entity:									
Operations	48,550.00	40,000.00	52,500.00	58,250.00	58,250.00	60,000.00	60,000.00	80,000.00	
Source Water Protection Sinking Fund	20,000.00	25,000.00	22,500.00	20,000.00	20,000.00	25,000.00	25,000.00	25,000.00	
	68,550.00	**65,000.00**	**75,000.00**	**78,250.00**	**78,250.00**	**85,000.00**	**85,000.00**	**105,000.00**	
								23.5%	
Water Withdrawal Revenue	1,528.21	7,282.68	4,421.45		387.00				
Accumulate Accumulative Balance	2,901.81	10,184.49	14,605.94		14,992.94				

Lake Auburn Watershed Commission Adopted Budget - DetailFor the Fiscal Year 2024

Budget Line Item	Amount Requested	Explanation for the 2024 Request
Auburn Water District	12,000	Routine maintenance, groundwork, trash pickup, erosion & drainage work, and maintenance and maintenance
Lewiston Water Division	12,000	Routine maintenance, groundwork, trash pickup, erosion & drainage work, and maintenance and maintenance
Executive Administration	6,000	Clerk's time for meetings, minutes, project contracts, policies, background research, and legal communications with the attorney
Forestry	8,400	Forestry management contractual services including property line marking and blazing, invasive species inventory and management, timber harvesting, etc. Forester review of timber harvest plans receivived by the City of Auburn occuring in the watershed.
Outside Services	6,000	Androscoggin Land Trust conservation easement monitoring and reviews of septic systems
Sanitary Facilities	3,760	GA Downing facilities $470/month x 8
Source Protection Management	63,000	Boat inspections $3,500 (matching grant); septic evaluations $2,000; identified projects $57,500
Repairs to Propertv & Equipment	3,800	Repairs to property & equipment $1,800; signs $500; and boat maintenance $1,500
Public Education	1,775	Contributions to partnership organizations; LSM $1,500 & Little Wilson Pond testing $275
Public Ed. - Labor	67,600	Education and Outreach Coordinator's salary ($25 x 40 hours) and benefits. Includes lake patrol for $18,000 that was previously under source protection.
Public Ed. - Supplies	1,400	Supplies and materials to support the Community Outreach Program.
Public Ed. - Events	2,000	Public education events for the community
Public Ed. - Outside Services	4,900	Contractual labor for technology and website ($200/month for Great Pond Design website management), website overhaul (2,500)
Public Ed. - Public Relations	2,800	Public education mailings, Constant Contact account, pamphlets, posters, etc. $1,500 for watershed calendar.
Public Ed. - Miscellaneous	700	Misc. program costs, mileage, dues, training, etc.
Liability & D & O Insurance	10,990	Hanover $10,445 x estimated 3% = 10,759 and Mount Vernon $529 x estimated 3% = 545
Legal	8,000	Routine legal consultations about ordinances, contracts, etc.
Audit/Financial Services	6,791	Annual Audit $5,445 and annual bookkeeping fee $1,346
Property Taxes	4,290	Town of Minot $2,200; City of Auburn $690; and Town of Turner $1,400
Operational Supplies	1,000	Buoys $700 and boat safety equipment $300
Miscellaneous	900	Central Maine Power for the boat launch $260; routine offices supplies, reports, and postage $500
TOTAL REQUEST	**228,106**	

Capital Request	Amount Requested	Explanation for the 2024 Request for Capital
Blanchard Pond Stream Restoration Project	115,000	Conceptual level cost for budgeting the construction of the Blanchard Pond Stream restoration in 2024 is $115k. This number includes the conceptual level Opinion of Probable Construction Cost and assumes Tighe & Bond will provide two weeks of part time field observation and final permit documentation. Actual cost will depend on contractor pricing.

Lake Auburn Watershed Commission Contribution History by Entity
10-year Trend & 5-year Projection

Year	Operating Contribution	Sinking Fund Contribution	Total Contribution
2014	87,500	125,000	212,500
2015	87,385	70,000	157,385
2016	78,125	60,000	138,125
2017	77,000	30,000	107,000
2018	75,000	25,000	100,000
2019	48,550	20,000	68,550
2020	40,000	25,000	65,000
2021	52,500	22,500	75,000
2022	58,250	20,000	78,250
2023	60,000	25,000	85,000
2024*	61,800	25,000	86,800
2025*	63,654	25,000	88,654
2026*	65,564	25,000	90,564
2027*	67,531	25,000	92,531
2028*	69,556	25,000	94,556

* Estimated operations assume a 3% annual increase