

Office of

**AUBURN WATER DISTRICT**

**Office Telephone # 784-6469**

The regular monthly meeting of the Trustees of the Auburn Water District will be held **at the office of the Auburn Water District, 268 Court Street, on Wednesday, November 16, 2022 at 4:00 P.M.**

**Regular Meeting AGENDA**

1. Executive Session in accordance with 1 M.S.R.A. § 405 (6) (E) to discuss legal matter
2. Approve Minutes of Regular Meeting of October 19, 2022
3. Financial Report Update - Tanya Dunn.
4. Ratify Payment of Bills
5. Public Comment
6. Activity Report/Project Update - Mike Broadbent
7. Old Business
8. Executive Session in accordance with 1 M.R.S.A. § 405(6)(A) to discuss personnel matter
9. Possible follow-up to executive session (item #8)
10. New Business
  - Water Quality Update
  - 2023 Budget - Second Draft
  - CEI Second Opinion on FBE Report
  - City Council Resolve - Elimination of Income Standard in the Ag Zone
  - Personnel Policy Amendment
  - Intake Extension Project
  - District Engineer Search
  - Alternate Water Source Committee - Report
11. Trustee Open Session
12. Adjourn Regular Meeting

Upcoming: Water Trustee Meeting, December 14, 2022 4:00PM

Joint Budget Workshop December 14, 2022 5:15PM -5:30PM

Public Hearing followed by budget adoption December 14, 2022 5:30PM

# Memo

To: Water & Sewerage District Trustees

From: Sid Hazelton, P.E., Superintendent

CC: Files

Date: 11/10/2022

Re: Discussion of November Agenda Items

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## Water Trustees

### Financial Report Highlights

Revenues are favorable \$147k. The variance in expenses is up to \$182k. Capital spent through October was \$511k. The month ended with \$3.1 million cash on hand.

### Water Quality Update

In accordance with recent data, the lake is mixed to around 19 meters. Secchi Disk readings are hovering around 4 meters. Turbidity is still holding steady at around 1. Dissolved oxygen at the lake bottom is near zero. Given the recent unseasonable warm temperatures, it looks like much needed lake turnover will occur later than normal.

### Project Update

The crews have been working to eliminate 6,000' of water main on Hotel Rd. We have 30 services that need to be removed from the main and we need to tie over several intersections. This work will continue in the summer of 2023. Winter hydrant maintenance has started, all hydrants need to be pumped and checked regularly to prevent freezing. We have had a couple of meetings with City engineering staff on 2023 project planning to refine our budget for 2023.

## CEI Second Opinion on FBE Report

The LAWPC hired CEI to offer a second opinion on the FBE report on Lake Auburn. Included in the packet are three draft documents that outline CEI's findings:

- Pier Review Memo Final Draft
- Pier Review Memo Background
- AWD Questions and Responses

These documents were discussed at the November 9 LAWPC meeting. The consultant will be contacted to clarify some items and consolidate the information into a final recommendation, and will be discussed at a LAWPC workshop on December 7 at 3:30PM at AVCOG.

## City Council Resolve – Elimination of Income Standard in the Ag Zone

In the packet is a copy of the City of Auburn Resolve that is being sent to the Planning Board on November 15 for their recommendation on adoption. I have highlighted a section that I believe needs to be stricken from the resolve. As I read it, it gives the Auburn Planning Board the authority to waive the current zoning regulations in the Ag Zone of the Watershed on a case- by-case basis.

## Sewer Trustees

### Financial Report Highlights

Revenues are favorable \$97k to budget, which is offsetting the \$87k variance in expenses. The E-3 Generator is on back order and expected to ship early next year, it will not be reflected in this year's capital expenses. Cash ended October at \$1.1 million.

### Project Update

Granite In-liner has starting to prep the mains for lining on Fairview and will have the work done in the next couple of weeks. We installed a new sewer manhole on Little Orchard Court. This is a dead-end main that we needed access to for maintenance and for future growth. We had to replace both of the pumps at the W-2 pump station. The failures were attributed to moisture that infiltrated the pumps through the power cords. We have reached out to the manufacture for an inquiry of a warranty as the pumps were only 5 years old. Mall area modeling work, we plan to have an update for the Trustees at the meeting.

### Cost Apportionment

Flows seemed to normalize for the month of October. As such, the board elected to keep the current apportionment in place. We are now on track to meet budget.

## Both Boards

### 2023 Budget – Second Draft

Included in both board packets is the second draft of the 2023 operational budget.

Water - the final LAWPC budget was approved with no changes at their meeting on November 9.

Sewer – the LAWPCA budget is scheduled to be approved at their next meeting on December 9. It includes a 1.7 % increase in their budget.

This draft includes a proposed equipment budget, as well as a list of capital items. At this time, I am not waiting for numbers for any items, nor anticipating changes to the budgets.

### Personnel Policy Amendment

There will be a request of both boards to consider a minor amendment to the Personnel Policy.

October 19, 2022

The regular monthly meeting of the Trustees of the Auburn Water District was held at 268 Court Street, Auburn, Maine on Wednesday, October 19, 2022 at 4:00pm.

Members present: Kevin Arel, Dan Bilodeau, Robert Cavanagh, Stephen Milks, President and Mayor's Representative, Jason Pawlina and Andrew Titus, Treasurer. Absent: Eric Gould. Also present: Sid Hazelton, Superintendent, Michael Broadbent, Assistant Superintendent and Tanya Dunn, Finance Manager.

#### **APPROVE MINUTES OF REGULAR MEETING of September 21, 2022**

On a motion of Andrew Titus, seconded by Dan Bilodeau, it was voted unanimously: **To accept the minutes of the Regular Meeting.**

#### **FINANCIAL REPORT UPDATE**

Metered sales are up 3% year to date, leaving revenues favorable \$90,000. The favorable revenues are helping to offset the variance in expenses, which is now up to \$177,000. Capital spent year to date is \$497,000. September ended with \$3 million cash on hand.

#### **RATIFY PAYMENT OF BILLS**

On a motion of Robert Cavanagh, seconded by Kevin Arel, it was unanimously voted: **To ratify payment of bills in the amount of \$493,892.70 as shown on the printout dated September 1, 2022 – September 30, 2022.**

#### **PUBLIC COMMENT**

Pam Rousseau was in attendance from the public. Pam asked about the Alternate Water Source Committee agenda item. Dan Bilodeau said the committee plans to kick off in the upcoming month and will have a directive charge for Board approval next month.

On motion of Andrew Titus, seconded by Kevin Arel, it was unanimously voted: **To suspend the rules to swap the order of agenda items 5 and 7.**

#### **President Milks declared the meeting in EXECUTIVE SESSION IN ACCORDANCE WITH 1 M.S.R.A. § 405 (6) (E) TO DISCUSS LEGAL MATTER**

The meeting was called to order at 4:47 p.m.

#### **President Milks declared the meeting in EXECUTIVE SESSION IN ACCORDANCE WITH 1 M.S.R.A. § 405 (6) (A) TO DISCUSS PERSONNEL MATTER**

The meeting was called to order at 5:06 p.m.

#### **ACTIVITY REPORT / PROJECT UPDATE**

The crew continues to work on main replacement projects. Willow and Ash Streets are both complete. Hotel Road will be next.

Demolition permits have been received for 21 South Goff St. and a property purchased by the Watershed Commission. Demolition of the buildings will take place after projects are completed for the season. The Watershed will be billed for the work done on their property.

The 555 Court Street development has not submitted pump station plans. When submitted, the plan will be sent to Wright- Pierce for peer review. The data will be plugged into the hydraulic model to ensure there will be no

October 19, 2022

adverse impact to current customers. As the District's Terms and Conditions are written, current customers can not be burdened with costs of new development.

The Comprehensive Environmental Inc. (CEI) report from October 29, 2009 titled 'Lake Auburn Watershed Septic Analysis' was handed out.

## **NEW BUSINESS**

### **Water Quality Update**

Water quality is holding steady with no improvement or decline. We are expecting the Lake to 'turn-over' soon which will improve quality.

If the water intake, from the Lake, was below the thermocline it could improve quality of the water entering the treatment plant. Board consensus was reached to explore costs to extend the intake to reach a depth of 50-60 feet.

### **2023 Budget – First Draft**

The 2023 budget assumes no growth in revenue. The results of the salary survey have been included. In expenses, there has been a significant increase in UV Plant operations due to increased chemical costs.

### **Alternate Water Source Committee – Report**

Covered in Public Comment

## **TRUSTEE OPEN SESSION**

As there were no comments, the Trustee Open Session was closed.

On a motion of Robert Cavanagh, seconded by Andrew Titus, it was unanimously voted: **To adjourn.**

Meeting adjourned at 5:47 pm.

Respectfully submitted,

Tanya Dunn

**AUBURN WATER DISTRICT  
OPERATING STATEMENT -TRUSTEES' REPORT  
TEN MONTHS ENDED OCTOBER 31, 2022**

	<b>OCTOBER</b>	<b>2022</b>	<b>Y-T-D OCTOBER 2022</b>		
	<b>YTD - 2021</b>	<b>BUDGET</b>	<b>ACTUAL</b>	<b>BUDGET</b>	<b>VARIANCE</b>
<b><u>REVENUES:</u></b>					
Water Sales	\$2,436,919	\$2,822,151	\$2,481,205	\$2,371,636	\$109,569
Rent income	61,836	74,838	65,474	62,365	3,109
Interest Income	8,344	10,134	10,715	8,445	2,270
Mdse. & Jobbing - NET	46,279	45,669	40,163	38,058	2,106
Hydrant Rental	681,484	817,781	681,484	681,484	0
Private Fire Prot.	369,666	438,047	373,149	365,039	8,110
Misc. Op. Revenue	65,679	81,738	90,179	68,115	22,064
<b>TOTAL REVENUES</b>	<b>3,670,208</b>	<b>4,290,358</b>	<b>3,742,369</b>	<b>3,595,142</b>	<b>147,228</b>
			<b>87.23%</b>	<b>83.33%</b>	<b>&lt; Standard</b>
<b><u>EXPENSES:</u></b>					
Payroll	650,902	873,909	790,936	726,837	64,099
Treatment:					
UV Treatment Plant	230,416	313,244	324,110	261,037	63,073
Chloramine Facility	4,625	5,749	15,919	4,791	11,128
Laboratory	29,786	49,658	30,139	41,382	(11,243)
Trans & Dist Maint:					
Maint of Mains	40,276	78,430	99,660	65,358	34,302
Dist System	115,702	100,099	84,836	83,416	1,421
Other	19,472	28,050	16,075	23,375	(7,300)
Administration:					
Employee Benefits	333,476	399,462	311,879	332,885	(21,006)
Legal & Accounting	19,216	30,000	68,492	25,000	43,492
Customer Billing	18,796	26,401	20,210	22,001	(1,791)
Insurances	46,213	65,587	52,674	54,656	(1,982)
Other	49,089	65,074	53,650	54,228	(578)
Vehicles	94,076	111,089	91,942	92,574	(632)
Gull Management	52,500	66,685	70,125	55,571	14,554
Lake Auburn Watershed	62,401	78,250	59,382	65,208	(5,827)
<b>SUB-TOTAL</b>	<b>1,766,947</b>	<b>2,291,687</b>	<b>2,090,029</b>	<b>1,908,319</b>	<b>181,711</b>
			<b>91.20%</b>	<b>83.33%</b>	<b>&lt; Standard</b>
Interest	105,963	101,939	110,377	84,949	25,428
<b>TOTAL EXPENSES</b>	<b>1,872,910</b>	<b>2,393,626</b>	<b>2,200,406</b>	<b>1,993,268</b>	<b>207,138</b>
Bonds - Principal Payments	786,916	547,446	530,346	456,205	74,141
<b>SURPLUS FROM OPERATIONS</b>	<b>1,010,382</b>	<b>1,349,286</b>	<b>1,011,616</b>	<b>1,145,669</b>	<b>(134,052)</b>



**AUBURN WATER DISTRICT  
BALANCE SHEET  
PERIOD ENDING - OCTOBER 31, 2022**

	10/31/2022	12/31/2021		10/31/2022	12/31/2021
<b>Property, Plant and Equipment:</b>			<b>Capitalization:</b>		
Plant in Service	40,152,283.59	40,066,872.04	Retained Earnings	17,014,159.18	15,694,344.58
Less: Accumulated Depreciation	(14,904,446.41)	(14,327,646.41)	Current Year Earnings	1,101,459.79	1,319,814.60
	25,247,837.18	25,739,225.63		18,115,618.97	17,014,159.18
Construction Work in Progress	524,289.42	18,161.23	<b>Bonds</b>	6,082,336.35	4,629,782.79
<b>Net Utility Plant</b>	25,772,126.60	25,757,386.86	<b>Total Capitalization</b>	24,197,955.32	21,643,941.97
<b>Current Assets:</b>			<b>Current Liabilities:</b>		
Cash & Working Funds	3,114,532.83	1,822,030.74	Accounts Payable	185,931.06	214,708.33
Accounts Receivable - Net	669,451.96	409,272.96	Customer Deposits	14,870.00	14,800.00
Prepayments	38,087.85	22,861.23	Accrued Interest	3,169.72	21,265.07
Inventory	152,681.41	138,661.47	Miscellaneous Liabilities	103,132.42	103,286.41
<b>Total Current Assets</b>	3,974,754.05	2,392,826.40	<b>Total Current Liabilities</b>	307,103.20	354,059.81
<b>Investment CD</b>	1,001,864.65	0.00	<b>Equipment Leases</b>	103,569.23	30,340.25
<b>Deferred Debits:</b>			<b>Contributions in Aid</b>	6,161,190.14	6,151,073.82
2014 Intake Cleaning	21,072.59	29,202.59			
<b>Total Assets</b>	30,769,817.89	28,179,415.85	<b>Total Equity Capital and Liabilities</b>	30,769,817.89	28,179,415.85

AUBURN WATER - FINANCIAL INFORMATION

Water Revenue - Metered Sales - Versus Prior Year					
Month	2022	2021	MTD Change	%	YTD Change
January	\$246,193.91	\$252,217.75	(\$6,023.84)	-2.39%	(\$6,023.84)
February	\$219,969.74	\$210,691.51	\$9,278.23	4.40%	\$3,254.39
March	\$228,351.56	\$227,308.28	\$1,043.28	0.46%	\$4,297.67
April	\$254,742.22	\$237,806.28	\$16,935.94	7.12%	\$21,233.61
May	\$221,958.48	\$215,350.00	\$6,608.48	3.07%	\$27,842.09
June	\$230,378.07	\$208,535.83	\$21,842.24	10.47%	\$49,684.33
July	\$279,993.32	\$286,169.38	(\$6,176.06)	-2.16%	\$43,508.27
August	\$251,928.21	\$246,802.71	\$5,125.50	2.08%	\$48,631.77
September	\$254,854.00	\$253,107.70	\$1,746.30	0.69%	\$50,378.07
October	\$292,716.30	\$298,927.59	(\$6,211.29)	-2.06%	\$44,166.78
November	\$0.00	\$227,045.76	(\$227,045.76)	-100.00%	(\$182,878.98)
December	\$0.00	\$235,870.22	(\$235,870.22)	-100.00%	(\$418,749.20)
	\$2,481,083.81	\$2,899,833.01			

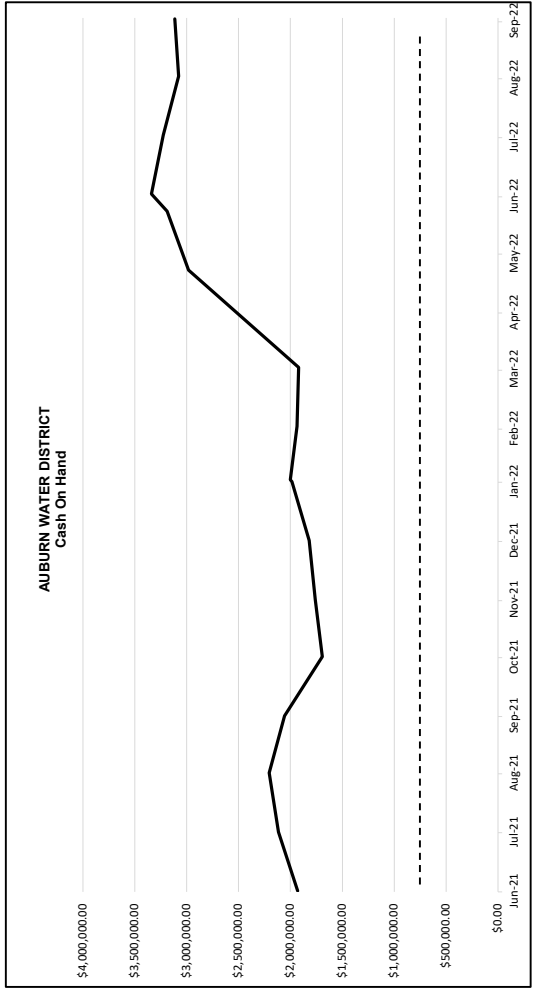
Water Gallons Sold - Metered					
Month	2022	2021	MTD Change	%	YTD Change
January	48,335,012	50,428,671	(2,093,659)	-4.15%	(2,093,659)
February	47,285,568	44,247,940	3,037,628	6.87%	943,969
March	49,240,840	49,898,332	(657,492)	-1.32%	286,477
April	50,878,980	45,162,744	5,716,236	12.66%	6,002,693
May	47,665,784	45,428,284	2,237,500	5.15%	8,340,193
June	50,645,584	45,149,280	5,496,304	12.17%	13,836,497
July	59,091,252	60,884,208	(1,792,956)	-2.94%	12,043,541
August	56,785,168	55,269,720	1,515,448	2.74%	13,558,989
September	58,112,868	57,190,584	922,284	1.61%	14,481,273
October	62,520,084	62,881,368	(361,284)	-0.57%	14,119,989
November	0	48,907,980	(48,907,980)	-100.00%	(34,787,991)
December	0	52,395,156	(52,395,156)	-100.00%	(67,183,147)
	530,661,120	617,844,267			

Water Total Capital Expenditures versus Budget			
Capital Projects - 2022	*Budget	*YTD Actual	Variance
2017 Volvo Excavator	\$15,980	\$0	(\$15,980)
Truck 31 - Large Dump	\$12,500	\$12,725	\$225
Clean-up Bucket for Excavator	\$5,000	\$5,800	\$800
Portable Generator	\$1,600	\$1,605	\$5
Truck 32 - 1 - Ton Dump	\$45,000	\$0	(\$45,000)
Compactor	\$32,000	\$28,270	(\$3,730)
3 Computers	\$2,500	\$2,836	\$336
Sit-Stand Work Station	\$2,000	\$1,125	(\$875)
Equipment Total	\$116,580	\$52,362	(\$64,218)
Loring Ave. - S. Main to Seventh	\$279,500	\$0	(\$279,500)
Maple Point - Manley to Poland	\$137,500	\$0	(\$137,500)
Fourth St. - Gill to Dunn	\$104,000	\$0	(\$104,000)
Fourth St. - Broad to Gill	\$104,000	\$0	(\$104,000)
Third St. - Broad to Dunn	\$140,000	\$114,131	(\$25,869)
Second St. - Broad to Dunn	\$97,500	\$0	(\$97,500)
Vernon Area Main Replacement	\$397,800	\$359,251	(\$38,549)
Dunn St. - Third to Riverside	\$67,600	\$0	(\$67,600)
Second St. - Brook to Dead End	\$45,500	\$0	(\$45,500)
Taylor Pond Meter/Backflow Vault	\$10,000	\$0	(\$10,000)
Brentwood Station	\$7,000	\$0	(\$7,000)
Willow St.		\$23,587	
Projects Total (includes benefit costs on labor)	\$1,390,400	\$496,970	(\$893,430)
Grand Total	\$1,506,980	\$549,332	(\$957,648)

Water Revenue - Metered Sales - Versus Budget					
Month	2022	BUDGET	MTD Change	%	YTD Change
January	\$246,193.91	\$245,461.23	\$732.68	0.30%	\$732.68
February	\$219,969.74	\$205,047.41	\$14,922.33	7.28%	\$15,655.01
March	\$228,351.56	\$221,219.05	\$7,132.51	3.22%	\$22,787.52
April	\$254,742.22	\$231,435.82	\$23,306.40	10.07%	\$46,093.92
May	\$221,958.48	\$209,581.11	\$12,377.37	5.91%	\$58,471.29
June	\$230,378.07	\$202,940.48	\$27,437.59	13.51%	\$85,899.88
July	\$279,993.32	\$278,503.35	\$1,489.97	0.53%	\$87,389.86
August	\$251,928.21	\$240,191.25	\$11,736.96	4.89%	\$99,124.82
September	\$254,854.00	\$246,327.34	\$8,526.66	3.46%	\$107,651.48
October	\$292,716.30	\$290,919.79	\$1,796.51	0.62%	\$109,447.99
November	\$0.00	\$220,963.56	(\$220,963.56)	-100.00%	(\$11,515.57)
December	\$0.00	\$229,551.62	(\$229,551.62)	-100.00%	(\$341,067.19)
	\$2,481,083.81	\$2,822,151.00			

Water Gross Payroll versus Budget					
Month	2022	Budget	MTD Change	%	YTD Change
January	\$94,554.62	\$75,293.85	\$19,260.77	25.58%	\$19,260.77
February	\$78,871.08	\$71,805.12	\$17,065.96	23.76%	\$36,326.73
March	\$95,043.00	\$77,817.13	\$17,225.87	22.14%	\$53,552.60
April	\$79,262.80	\$74,740.22	\$4,522.58	6.05%	\$58,075.19
May	\$77,606.71	\$68,847.16	\$8,759.55	12.73%	\$66,834.74
June	\$65,932.07	\$60,846.78	(\$5,085.71)	-8.36%	\$61,749.03
July	\$75,425.72	\$72,105.03	\$3,320.69	4.61%	\$55,069.72
August	\$77,978.08	\$77,190.92	\$787.16	1.02%	\$55,856.88
September	\$64,492.75	\$60,373.62	\$4,119.13	6.82%	\$60,000.00
October	\$88,242.05	\$77,817.44	\$10,424.61	13.40%	\$70,424.61
November	\$0.00	\$82,405.23	(\$82,405.23)	-100.00%	(\$11,533.62)
December	\$0.00	\$84,666.50	(\$84,666.50)	-100.00%	(\$96,200.12)
	\$797,606.88	\$873,909.00			

AUBURN WATER DISTRICT CUSTOMER ACCOUNT'S RECEIVABLE									
Aging	Current	30 day	60 day	90 day	120 day	Finance Chgs	Other	Totals	
October	121,408.37	35,694.91	5,323.83	11,994.12	9,740.13	1,542.93	3,361.99	189,066.28	
September	108,711.67	23,179.65	6,685.01	4,187.87	13,609.56	1,510.25	2,283.00	160,167.01	
August	90,416.93	25,041.08	4,730.59	5,910.44	11,836.96	1,425.47	2,414.67	141,776.14	
July	118,499.09	22,462.04	7,172.69	4,669.11	12,117.85	1,369.08	2,689.95	168,979.81	



**LEWISTON BILLS PAID**  
**10/31/2022**

DATE	VENDOR	INVOICE #	DESCRIPTION	Lewiston Amount	DEPT	Total Invoice
9/1/2022	Abuchon	5251	Key	3.16	OPS	6.32
9/1/2022	Harbor Freight	7964	Cable for Drain Tool	11.04	OPS	22.08
9/28/2022	HETL	137744	Perimeter Testing	510.00	LAB	1,020.00
9/30/2022	USA BlueBook	129088	Supplies	244.16	LAB	488.32
10/1/2022	Pine Tree Waste	2944952	Bulk Waste	57.34	OPS	114.67
10/4/2022	USA BlueBook	132268	Supplies	244.16	LAB	488.32
10/4/2022	Harcros	300169502	Sodium hydroxide	3,412.63	OPS	5,626.10
10/4/2022	GAC	V109513	Aqua Aide	9,411.16	OPS	15,247.67
10/5/2022	HETL	137745	In Lake Testing	510.00	LAB	1,020.00
10/5/2022	Computer Place	62556	Scada IT Support	30.00	OPS	60.00
10/6/2022	Computer Place	62557	UV IT Support	30.00	OPS	60.00
10/7/2022	Eastern Fire	F150194	Calibrate Sensor	72.50	OPS	145.00
10/7/2022	Firstlight	12511705	Oct-Scada Fiber-Chloramines	62.50	OPS	
10/7/2022	Firstlight	12511705	Oct-Scada Fiber-UV	62.50	OPS	
10/7/2022	Firstlight	12511705	Oct-Internet-Turner Rd	55.00	OPS	
10/7/2022	Firstlight	12511705	Oct-Phone/Internet Treatment Plant	71.32	OPS	
10/10/2022	HACH	13279803	Supplies	333.91	OPS	667.81
10/11/2022	Computer Place	62578	UV IT Support	30.00	OPS	60.00
10/11/2022	Dead River	55316	Tank #5 Propane	127.43	OPS	254.85
10/12/2022	HACH	13283281	Supplies	244.16	OPS	488.32
10/12/2022	HETL	139710	In Lake Testing	510.00	LAB	1,020.00
10/12/2022	Computer Place	62589	UV IT Support	61.04	OPS	122.08
10/14/2022	HACH	13287149	Supplies	30.00	OPS	60.00
10/14/2022	Computer Place	62617	Scada IT Support	775.58	OPS	1,162.20
10/14/2022	Harcros	300169646	Sodium hypochlorite-Chloramines	4,084.30	OPS	6,735.80
10/14/2022	Harcros	300169647	Sodium hypochlorite			
10/16/2022	US Cellular	538656580	Treatment Plant Mngr/Watershed Mngr			
10/18/2022	Erica Kidd	Expense	Mileage & Tolls	40.00	OPS	
10/18/2022	HETL	139887	Perimeter Testing	47.90	OPS	95.80
10/18/2022	HETL	139886	In Lake Testing	680.00	LAB	1,360.00
10/18/2022	VWR International	8811069043	Supplies	510.00	LAB	1,020.00
10/19/2022	HACH	13293540	Supplies	271.10	LAB	542.19
10/19/2022	VWR International	8811082928	Supplies	495.11	OPS	990.22
10/24/2022	ASCO Power Services Inc	1659691	Transfer Switch Repairs	2,831.50	OPS	5,663.00
10/24/2022	HACH	13299585	Supplies	76.72	OPS	153.44
10/24/2022	Hardy Diagnostics	2853065	Supplies	30.69	LAB	61.38
10/25/2022	Erica Kidd	Expense	Mileage, Etc	39.79	OPS	79.57
10/26/2022	Hardy Diagnostics	2854968	Supplies	33.76	LAB	67.52
10/26/2022	HACH	13307821	Supplies	408.49	OPS	816.97
10/26/2022	HACH	13304969	Supplies	227.65	OPS	455.30
10/26/2022	HACH	13305080	Supplies	481.60	LAB	963.20
10/27/2022	USA BlueBook	157320	Supplies	95.18	LAB	190.36
10/27/2022	USA BlueBook	15800	Supplies	768.38	LAB	1,536.76
10/27/2022	Harcros	300169789	Sodium hydroxide	5,150.13	OPS	8,490.56
10/28/2022	HACH	13310865	Supplies	87.01	LAB	174.02
10/30/2022	Bisson Enterprises/Jackie's	26506	Oct Cleaning	206.00	OPS	412.00
10/31/2022	Gilman	1077416	Ballasts	31.78	OPS	63.56
				<b>33,854.06</b>		
				<b>1142-400</b>		

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18699	10/13/2022	10	Secretary of State	8/31/2022	Void & Credit Chk18699 Misc Expense-T&D Ops	-70.00
						<b><u>-70.00</u></b>
18790	10/7/2022	10	Kenneth Blais	10/7/2022	Ref Tenant Dep Balance A/R - Customers Accts Rec	1.73
						<b><u>1.73</u></b>
18791	10/7/2022	9	Aroostook Fence Co.	9/16/2022	Sensing Wire Watershed Expenses	217.90
						<b><u>217.90</u></b>
18792	10/7/2022	9	Atlantic Environmental	10/3/2022	Asbestos Abatement 21 South Goff Property	3,000.00
						<b><u>3,000.00</u></b>
18793	10/7/2022	9	Steve J. Bell	9/30/2022	Sept Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18794	10/7/2022	9	Lindsay Bates	9/30/2022	Sept Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18795	10/7/2022	10	Budget Document Technology	9/27/2022	Oct Copier Rent Misc Expense-A&G Office	102.86
						<b><u>102.86</u></b>
18795	10/7/2022	10	Budget Document Technology	9/27/2022	A/R - Auburn Sewer	102.87
						<b><u>102.87</u></b>
18796	10/7/2022	9	Coastal Auto Parts	9/30/2022	A/R - Auburn Sewer	95.27
						<b><u>95.27</u></b>
18796	10/7/2022	9	Coastal Auto Parts	9/30/2022	Tool - Water Crew Supplies - T&D - Ops	48.99
						<b><u>48.99</u></b>
18796	10/7/2022	9	Coastal Auto Parts	9/30/2022	Misc Supplies Equipment Maintenance	95.27
						<b><u>95.27</u></b>
18797	10/7/2022	9	Constellation NewEnergy, Inc.	9/12/2022	Mill St Accrued Power	1.80
						<b><u>1.80</u></b>
18797	10/7/2022	10	Constellation NewEnergy, Inc.	9/27/2022	UV#2 Accrued Power	8,206.78
						<b><u>8,206.78</u></b>

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						<b><u>8,208.58</u></b>
18798	10/7/2022	9	The Computer Place	9/22/2022	IT Support-Scada Outside Services - A&G	15.00
18798	10/7/2022	9	The Computer Place	9/19/2022	A/R - Lewiston	30.00
18798	10/7/2022	9	The Computer Place	9/19/2022	A/R - Auburn Sewer	15.00
18798	10/7/2022	9	The Computer Place	9/30/2022	IT Support Outside Services - A&G	24.99
18798	10/7/2022	9	The Computer Place	9/30/2022	A/R - Auburn Sewer	25.00
18798	10/7/2022	9	The Computer Place	9/22/2022	A/R - Lewiston	30.00
18798	10/7/2022	9	The Computer Place	9/22/2022	A/R - Auburn Sewer	15.00
18798	10/7/2022	10	The Computer Place	10/1/2022	A/R - Auburn Sewer	324.13
18798	10/7/2022	10	The Computer Place	10/1/2022	IT Support Outside Services - A&G	324.12
18798	10/7/2022	9	The Computer Place	9/19/2022	IT Support-Scada Outside Services - A&G	15.00
18799	10/7/2022	10	Dig Safe System, Inc.	10/3/2022	Oct Ops Misc Expense-Mains	<b><u>818.24</u></b> 194.21
18799	10/7/2022	10	Dig Safe System, Inc.	10/3/2022	A/R - Auburn Sewer	194.21
18800	10/7/2022	10	G.A. Downing Co., Inc.	9/14/2022	Pump Septic Watershed Expenses	<b><u>388.42</u></b> 270.00
18801	10/7/2022	9	Dube Gravel Company, Inc.	9/24/2022	Supplies - T&D - Mnt	<b><u>270.00</u></b> 3,216.00

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18801	10/7/2022	9	Dube Gravel Company, Inc.	9/24/2022		2,032.00
					Pine, Pearl, Willow Main Repla	
18801	10/7/2022	9	Dube Gravel Company, Inc.	9/24/2022		1,536.00
					A/R - Auburn Sewer	
18801	10/7/2022	10	Dube Gravel Company, Inc.	9/14/2022		-270.00
					Corr Vendor	
					Watershed Expenses	
18801	10/7/2022	9	Dube Gravel Company, Inc.	9/14/2022		270.00
					Pump Septic 79 Pt.Pine	
					Watershed Expenses	
18801	10/7/2022	9	Dube Gravel Company, Inc.	9/24/2022		1,056.00
					Stone, Gravel, Etc	
					2022 Vernon Area Main Replace	
						<b><u>7,840.00</u></b>
18802	10/7/2022	9	Eaton Corporation	9/10/2022		9,454.50
					Replace Capacitors & Fans	
					UV Treatment Plant - O&M	
18802	10/7/2022	9	Eaton Corporation	9/10/2022		9,454.50
					A/R - Lewiston	
						<b><u>18,909.00</u></b>
18803	10/7/2022	8	Gagne & Sons	8/29/2022		62.34
					A/R - Auburn Sewer	
18803	10/7/2022	9	Gagne & Sons	9/7/2022		164.05
					Grade Stakes, Concrete	
					Watershed Expenses	
18803	10/7/2022	9	Gagne & Sons	9/15/2022		80.04
					Concrete Mix	
					Watershed Expenses	
18803	10/7/2022	8	Gagne & Sons	8/29/2022		62.33
					Measure Wheel	
					Supplies - T&D - Ops	
18803	10/7/2022	9	Gagne & Sons	9/8/2022		100.05
					Concrete Mix	
					Watershed Expenses	
						<b><u>468.81</u></b>
18804	10/7/2022	9	Gilman Electrical Dist.	9/1/2022		262.12
					Boat Launch Proj	
					Watershed Expenses	
18804	10/7/2022	9	Gilman Electrical Dist.	9/20/2022		29.62
					A/R - Auburn Sewer	

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18804	10/7/2022	9	Gilman Electrical Dist.	9/13/2022	Tape Supplies Supplies - T&D - Ops	67.24
18804	10/7/2022	9	Gilman Electrical Dist.	9/13/2022	A/R - Auburn Sewer	67.25
18804	10/7/2022	9	Gilman Electrical Dist.	9/20/2022	Tape Supplies Supplies - T&D - Ops	29.62
18804	10/7/2022	9	Gilman Electrical Dist.	9/29/2022	Harscrabble Electrical Supplies - Reservoirs	133.58
						<b><u>589.43</u></b>
18805	10/7/2022	9	Hach Company	9/23/2022	A/R - Lewiston	26.10
18805	10/7/2022	9	Hach Company	9/23/2022	Rust Remover UV Treatment Plant - O&M	26.10
18805	10/7/2022	9	Hach Company	9/12/2022	Supplies UV Treatment Plant - O&M	153.44
18805	10/7/2022	9	Hach Company	9/12/2022	A/R - Lewiston	153.44
18805	10/7/2022	9	Hach Company	9/15/2022	A/R - Lewiston	554.76
18805	10/7/2022	9	Hach Company	9/15/2022	Supplies UV Treatment Plant - O&M	554.76
						<b><u>1,468.60</u></b>
18806	10/7/2022	9	David Hamann	9/30/2022	Sept Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18807	10/7/2022	9	Harcros Chemicals, Inc.	9/8/2022	Sod Hypo Chemical Expense	670.80
18807	10/7/2022	9	Harcros Chemicals, Inc.	9/8/2022	Sod Hypo Chemical Expense	3,998.72
18807	10/7/2022	9	Harcros Chemicals, Inc.	9/16/2022	Sod Hydro Chemical Expense	6,145.77

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18807	10/7/2022	9	Harcros Chemicals, Inc.	9/12/2022	Sod Hydro Chemical Expense	1,889.17
						<b><u>12,704.46</u></b>
18808	10/7/2022	10	Sidney H. Hazelton	10/1/2022	Mileage Misc Expense-T&D Ops	175.00
18808	10/7/2022	10	Sidney H. Hazelton	10/1/2022		175.00
					A/R - Auburn Sewer	
						<b><u>350.00</u></b>
18809	10/7/2022	9	Cole Hayford	9/30/2022	Sept Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022	Boat Launch Watershed Expenses	109.09
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022	Supplies Watershed Expenses	94.61
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022		94.61
					A/R - Auburn Sewer	
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022		34.99
					A/R - Auburn Sewer	
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022	Misc Supplies UV Treatment Plant - O&M	43.74
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022		43.74
					A/R - Lewiston	
18810	10/7/2022	9	Home Depot Credit Services	9/25/2022	Shop Supplies Supplies - T&D - Ops	34.98
						<b><u>455.76</u></b>
18811	10/7/2022	9	MissionSquare	9/30/2022	304412 ICMA 457 Accrued - Deferred Comp	2,694.16
						<b><u>2,694.16</u></b>
18812	10/7/2022	9	MissionSquare	10/7/2022	109636 ICMA 401 Employee Benefits	4,531.15
						<b><u>4,531.15</u></b>



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18813	10/7/2022	9	MissionSquare	9/30/2022		962.62
					705328 Roth IRA Accrued - IRA/ICMA	
						<u>962.62</u>
18814	10/7/2022	9	K. L. Jack & Co., Inc.	9/8/2022		118.40
					Boat Launch Proj Watershed Expenses	
						<u>118.40</u>
18815	10/7/2022	10	Lake Auburn Watershed Comm.	10/1/2022		6,520.84
					Oct Pymt Watershed Expenses	
						<u>6,520.84</u>
18816	10/7/2022	9	City of Lewiston	9/13/2022		96.17
					UV Treatment Plant - O&M	
18816	10/7/2022	9	City of Lewiston	9/13/2022		118.39
					Insurance - Workers Comp	
18816	10/7/2022	9	City of Lewiston	9/13/2022		2,409.41
					A/R - Auburn Sewer	
18816	10/7/2022	9	City of Lewiston	9/13/2022		1,996.08
					Aug Scada Tech Labor - Stores	
18816	10/7/2022	9	City of Lewiston	9/13/2022		294.94
					Employee Benefits	
						<u>4,914.99</u>
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/28/2022		510.00
					A/R - Lewiston	
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/28/2022		510.00
					In Lake Testing Outside Services - Lab Tests	
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/22/2022		467.50
					A/R - Lewiston	
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/28/2022		510.00
					Perimeter Testing Outside Services - Lab Tests	
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/28/2022		510.00
					A/R - Lewiston	
18817	10/7/2022	9	Treasurer, State of ME-HETL	9/22/2022		467.50
					Perimeter Testing Outside Services - Lab Tests	
						<u>2,975.00</u>

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18818	10/7/2022	9	Craig Millett	9/30/2022	Sept Cell Telephone - Treatment	30.00
						<u>30.00</u>
18819	10/7/2022	9	Morin Excavating, Inc.	9/28/2022	Sticker, Etc TRUCK #42 (2006 Volvo)	26.34
18819	10/7/2022	9	Morin Excavating, Inc.	9/26/2022	Repair Left Mirror TRUCK #23 (2004 GMC DUMP)	25.00
						<u>51.34</u>
18820	10/7/2022	9	Murray's Truck Service	9/15/2022	Starter, Firewall, Hood Spring TRUCK #42 (2006 Volvo)	1,239.95
						<u>1,239.95</u>
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #48 (2020 CHEVY COL	303.77
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #42 (2006 Volvo)	281.37
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #41 (2016 CHVY SILVR	882.80
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #32 (2011 FORD F350)	553.94
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	A/R - Auburn Sewer	708.88
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	A/R - Auburn Sewer	44.36
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #45 (2019 CHVY SILVE	308.45
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	Rental Vehicles	141.98
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #47 (2019 FORD 3/4 TC	177.14
18821	10/7/2022	9	Ness Oil Co.	9/30/2022	TRUCK #38 (2015 FORD F250)	305.24

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18821	10/7/2022	9	Ness Oil Co.	9/30/2022		716.96
					A/R - Auburn Sewer	
18821	10/7/2022	9	Ness Oil Co.	9/30/2022		44.36
					Sept Fuel	
					Supplies - T&D - Ops	
18821	10/7/2022	9	Ness Oil Co.	9/30/2022		161.58
					A/R - Auburn Sewer	
18821	10/7/2022	9	Ness Oil Co.	9/30/2022		695.93
					TRUCK #50 (2022 VOLVO DUM	
18821	10/7/2022	9	Ness Oil Co.	9/30/2022		114.60
					TRUCK # 33 (2012 FORD TRUC	
						<b><u>5,441.36</u></b>
18823	10/7/2022	9	New England Truck Tire	9/26/2022		2,393.44
					Replace Steer Tires	
					TRUCK #42 (2006 Volvo)	
18823	10/7/2022	9	New England Truck Tire	9/27/2022		2,562.01
					Replaced Tires	
					TRUCK #42 (2006 Volvo)	
						<b><u>4,955.45</u></b>
18824	10/7/2022	9	Petro's	9/16/2022		118.33
					Calcium Flakes, Etc	
					Pine, Pearl, Willow Main Repla	
						<b><u>118.33</u></b>
18825	10/7/2022	9	E.J. Prescott, Inc.	9/16/2022		2,087.90
					Chgout	
					Expenses - Jobbing	
18825	10/7/2022	9	E.J. Prescott, Inc.	9/8/2022		1,566.75
					Chgout	
					Expenses - Jobbing	
18825	10/7/2022	9	E.J. Prescott, Inc.	9/12/2022		116.49
					Clamp	
					Supplies - Mains	
18825	10/7/2022	9	E.J. Prescott, Inc.	9/9/2022		187.98
					Saddle	
					Pine, Pearl, Willow Main Repla	
18825	10/7/2022	9	E.J. Prescott, Inc.	9/7/2022		506.94
					Glands	
					Inventory	
						<b><u>4,466.06</u></b>
18826	10/7/2022	10	David Reed	10/5/2022		33.72
					Cloth Allow	
					Employee Benefits	
						<b><u>33.72</u></b>

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18827	10/7/2022	9	Southworth-Milton	8/19/2022	500 HR PM TRUCK #49 (2020 CAT BACKH	1,309.72
						<b><u>1,309.72</u></b>
18828	10/7/2022	9	Spencer Group	9/27/2022	Merrow-Patching A/R - Auburn Sewer	2,452.80
18828	10/7/2022	9	Spencer Group	9/27/2022	Patching Pine, Pearl, Willow Main Repla	879.60
						<b><u>3,332.40</u></b>
18829	10/7/2022	9	Staples Credit Plan	9/27/2022	A/R - Auburn Sewer	101.25
18829	10/7/2022	9	Staples Credit Plan	9/27/2022	Supplies Supplies - A&G - Office	101.24
						<b><u>202.49</u></b>
18830	10/7/2022	9	Super Shoe Stores, Inc.	9/9/2022	Cloth Allow Employee Benefits	161.09
						<b><u>161.09</u></b>
18831	10/7/2022	9	Derek Thone	9/30/2022	Sept Cell Telephone - Treatment	30.00
18831	10/7/2022	10	Derek Thone	10/5/2022	Cloth Allow Employee Benefits	24.24
						<b><u>54.24</u></b>
18832	10/7/2022	9	Unifirst Corp	7/21/2022	Rug Maint UV Treatment Plant - O&M	90.81
18832	10/7/2022	9	Unifirst Corp	7/21/2022	A/R - Lewiston	90.81
18832	10/7/2022	9	Unifirst Corp	9/15/2022	Rug Maint UV Treatment Plant - O&M	100.31
18832	10/7/2022	9	Unifirst Corp	9/15/2022	A/R - Lewiston	100.32
						<b><u>382.25</u></b>
18833	10/7/2022	9	U.S. Cellular	9/16/2022	Misc Expense-T&D Ops	290.90

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18833	10/7/2022	9	U.S. Cellular	9/16/2022		40.00
					A/R - Lewiston	
18833	10/7/2022	9	U.S. Cellular	9/16/2022		30.00
					Sept Bill	
					Telephone - Treatment	
18833	10/7/2022	9	U.S. Cellular	9/16/2022		290.90
					A/R - Auburn Sewer	
18834	10/7/2022	9	United Way Of Andr.County	9/30/2022		<b><u>651.80</u></b>
					Emp Contrib	52.00
					United Way	
18834	10/7/2022	9	United Way Of Andr.County	9/30/2022		12.00
					A/R - Auburn Sewer	
18835	10/7/2022	9	USA Blue Book	9/12/2022		<b><u>64.00</u></b>
						193.04
					A/R - Lewiston	
18835	10/7/2022	9	USA Blue Book	9/6/2022		170.12
					Nitro Ammonia	
					UV Treatment Plant - O&M	
18835	10/7/2022	9	USA Blue Book	9/24/2022		32.98
					A/R - Lewiston	
18835	10/7/2022	9	USA Blue Book	9/6/2022		170.13
					A/R - Lewiston	
18835	10/7/2022	9	USA Blue Book	9/24/2022		32.97
					Rust Remover	
					UV Treatment Plant - O&M	
18835	10/7/2022	9	USA Blue Book	9/12/2022		193.03
					Supplies	
					UV Treatment Plant - O&M	
18836	10/7/2022	9	UPS	9/24/2022		<b><u>792.27</u></b>
						6.35
					CMP Gloves	
					Misc Expense-T&D Ops	
18836	10/7/2022	9	UPS	9/24/2022		6.36
					A/R - Auburn Sewer	
18837	10/7/2022	9	V W R International LLC	9/7/2022		<b><u>12.71</u></b>
						972.58
					Supplies	
					UV Treatment Plant - O&M	

<p align="center"><b>Auburn Water District</b>  <b>Accounts Payable Check Register</b>  <b>October 1, 2022 thru October 31, 2022</b></p>
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18837	10/7/2022	9	V W R International LLC	9/7/2022		972.58
					A/R - Lewiston	
						<u>1,945.16</u>
18838	10/14/2022	10	TJ Ferland	10/14/2022		127.24
					Refund Final Overpd	
					A/R - Customers Accts Rec	
						<u>127.24</u>
18839	10/14/2022	10	Estate of Jimmey Aube	10/14/2022		75.00
					Refund Final Overpd	
					A/R - Customers Accts Rec	
						<u>75.00</u>
18840	10/14/2022	10	Androscoggin Registry Of	10/14/2022		44.00
					Release Liens	
					Misc Expense-Collections	
						<u>44.00</u>
18841	10/14/2022	10	Petty Cash	10/7/2022		33.72
					Cloth Allow	
					Employee Benefits	
18841	10/14/2022	10	Petty Cash	10/7/2022		50.00
					Demo Permit-Goff	
					21 South Goff Property	
18841	10/14/2022	10	Petty Cash	10/7/2022		59.18
					Mileage Etc	
					A/R - Auburn Sewer	
18841	10/14/2022	10	Petty Cash	10/7/2022		16.11
					Mileage	
					Misc Expense-A&G Office	
18841	10/14/2022	10	Petty Cash	10/7/2022		34.63
					Mileage Etc	
					Misc Expense-T&D Ops	
18841	10/14/2022	10	Petty Cash	10/7/2022		10.96
					Supplies	
					Supplies - T&D - Ops	
18841	10/14/2022	10	Petty Cash	10/7/2022		50.00
					Demo Permit-79 Pine Pt	
					Watershed Expenses	
						<u>254.60</u>
18842	10/14/2022	10	Constellation NewEnergy, Inc.	10/6/2022		1.48
					Troy St	
					Accrued Power	
18842	10/14/2022	10	Constellation NewEnergy, Inc.	10/6/2022		5.74
					Tower Rd	
					Accrued Power	
18842	10/14/2022	10	Constellation NewEnergy, Inc.	10/5/2022		313.15
					268 Court St	
					Accrued Power	

<p align="center"><b>Auburn Water District</b>  <b>Accounts Payable Check Register</b>  <b>October 1, 2022 thru October 31, 2022</b></p>
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18842	10/14/2022	10	Constellation NewEnergy, Inc.	10/6/2022	E. Hardscrabble Accrued Power	147.68
						<b><u>468.05</u></b>
18843	10/14/2022	10	The Computer Place	10/5/2022	A/R - Lewiston	30.00
18843	10/14/2022	10	The Computer Place	10/6/2022	A/R - Lewiston	30.00
18843	10/14/2022	10	The Computer Place	10/6/2022	A/R - Auburn Sewer	15.00
18843	10/14/2022	10	The Computer Place	10/6/2022	UV IT Support Outside Services - A&G	15.00
18843	10/14/2022	10	The Computer Place	10/5/2022	A/R - Auburn Sewer	15.00
18843	10/14/2022	10	The Computer Place	10/5/2022	Scada IT Support Outside Services - A&G	15.00
						<b><u>120.00</u></b>
18844	10/14/2022	10	Davis-Ulmer Sprinkler Co Inc	7/28/2022	Backflow Tests Outside Services - T&D - Mnt	87.50
18844	10/14/2022	10	Davis-Ulmer Sprinkler Co Inc	10/7/2022	Calibrate Meter UV Treatment Plant - O&M	72.50
18844	10/14/2022	10	Davis-Ulmer Sprinkler Co Inc	10/7/2022	A/R - Lewiston	72.50
18844	10/14/2022	10	Davis-Ulmer Sprinkler Co Inc	7/28/2022	A/R - Auburn Sewer	87.50
						<b><u>320.00</u></b>
18845	10/14/2022	9	Goodscapes Lawn Care	9/1/2022	Lawn care Services Misc Expense-Landscaping	1,123.00
18845	10/14/2022	9	Goodscapes Lawn Care	9/1/2022	A/R - Auburn Sewer	1,123.00
						<b><u>2,246.00</u></b>
18846	10/14/2022	9	K. L. Jack & Co., Inc.	9/27/2022	Tool - Trk 47 Supplies - T&D - Ops	11.58

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18846	10/14/2022	9	K. L. Jack & Co., Inc.	9/22/2022	Boat Launch Watershed Expenses	103.50
						<b><u>115.08</u></b>
18847	10/14/2022	10	Treasurer, State of ME-HETL	10/5/2022	IN Lake Testing Outside Services - Lab Tests	510.00
18847	10/14/2022	10	Treasurer, State of ME-HETL	10/5/2022	A/R - Lewiston	510.00
						<b><u>1,020.00</u></b>
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/27/2022	A/R - Lewiston	33.70
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/27/2022	Toilet Paper UV Treatment Plant - O&M	33.70
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/22/2022	A/R - Auburn Sewer	37.50
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/22/2022	Trash Bags, Towels Supplies - T&D - Ops	37.50
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/22/2022	A/R - Auburn Sewer	17.50
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/22/2022	File Folders, Binders Supplies - A&G - Office	17.50
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/12/2022	Trash Bags Supplies - T&D - Ops	35.10
18848	10/14/2022	9	W. B. Mason Co., Inc.	9/12/2022	A/R - Auburn Sewer	35.10
						<b><u>247.60</u></b>
18849	10/14/2022	9	Northern Data Systems, Inc.	9/22/2022	Billing Outside Services - Customers	983.09
18849	10/14/2022	9	Northern Data Systems, Inc.	9/22/2022	A/R - Auburn Sewer	983.09
						<b><u>1,966.18</u></b>
18850	10/14/2022	9	Omni Services, Inc.	9/22/2022	Mill Hose Inserts Supplies - T&D - Ops	204.12



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18850	10/14/2022	9	Omni Services, Inc.	9/22/2022		204.12
					A/R - Auburn Sewer	
						<u>408.24</u>
18851	10/14/2022	10	Paul's Clothing & Shoe	10/5/2022		269.99
					Cloth Allow	
					Employee Benefits	
18851	10/14/2022	10	Paul's Clothing & Shoe	10/5/2022		249.99
					Cloth Allow	
					Employee Benefits	
						<u>519.98</u>
18852	10/14/2022	9	E.J. Prescott, Inc.	9/21/2022		4,712.35
					Chgout	
					Expenses - Jobbing	
18852	10/14/2022	9	E.J. Prescott, Inc.	9/21/2022		928.91
					Chgout	
					Expenses - Jobbing	
						<u>5,641.26</u>
18853	10/14/2022	9	Skelton, Taintor & Abbott	9/22/2022		199.50
					Legal thru 080422	
					Legal Expenses	
18853	10/14/2022	9	Skelton, Taintor & Abbott	9/22/2022		199.50
					A/R - Auburn Sewer	
18853	10/14/2022	9	Skelton, Taintor & Abbott	9/22/2022		68.75
					A/R - Auburn Sewer	
18853	10/14/2022	9	Skelton, Taintor & Abbott	9/22/2022		68.75
					Legal thru 080222	
					Legal Expenses	
18853	10/14/2022	9	Skelton, Taintor & Abbott	9/22/2022		627.00
					Legal thru 082922	
					Legal Expenses	
						<u>1,163.50</u>
18854	10/14/2022	10	UNITIL ME	9/30/2022		176.04
					A/R - Auburn Sewer	
18854	10/14/2022	10	UNITIL ME	9/30/2022		176.04
					Court St Nat'l Gas	
					Supplies - T&D - Ops	
						<u>352.08</u>
18855	10/14/2022	10	US Bank Corporate Trust Boston	9/16/2022		22,919.51
					2010 E	
					Accrued Interest	
18855	10/14/2022	10	US Bank Corporate Trust Boston	9/16/2022		2,872.17
					Accrued Interest	

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18855	10/14/2022	10	US Bank Corporate Trust Boston	9/16/2022		141,648.00
					Bonds - 2010UV - Principal	
18855	10/14/2022	10	US Bank Corporate Trust Boston	9/16/2022		65,107.63
					2010 D	
					Bonds - 2010ReFi - Principal	
						<b><u>232,547.31</u></b>
18856	10/21/2022	10	Androscoggin Registry Of	10/21/2022		96.00
					Place Liens	
					Misc Expense-Collections	
						<b><u>96.00</u></b>
18857	10/21/2022	9	Bell/Simons Companies	9/23/2022		828.00
					Boiler Feed Pump	
					Misc Expense-T&D Ops	
18857	10/21/2022	9	Bell/Simons Companies	9/23/2022		828.00
					A/R - Auburn Sewer	
						<b><u>1,656.00</u></b>
18858	10/21/2022	10	The Computer Place	10/12/2022		30.00
					A/R - Auburn Sewer	
18858	10/21/2022	10	The Computer Place	10/11/2022		30.00
					A/R - Lewiston	
18858	10/21/2022	10	The Computer Place	10/12/2022		30.00
					UV IT Support	
					Outside Services - A&G	
18858	10/21/2022	10	The Computer Place	10/14/2022		15.00
					Scada IT Support	
					Outside Services - A&G	
18858	10/21/2022	10	The Computer Place	10/11/2022		15.00
					A/R - Auburn Sewer	
18858	10/21/2022	10	The Computer Place	10/13/2022		30.00
					IT Support	
					Outside Services - A&G	
18858	10/21/2022	10	The Computer Place	10/14/2022		30.00
					A/R - Lewiston	
18858	10/21/2022	10	The Computer Place	10/14/2022		15.00
					A/R - Auburn Sewer	
18858	10/21/2022	10	The Computer Place	10/11/2022		15.00
					UV IT Support	
					Outside Services - A&G	

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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18858	10/21/2022	10	The Computer Place	10/13/2022		30.00
					A/R - Auburn Sewer	
18858	10/21/2022	10	The Computer Place	10/12/2022		60.00
					A/R - Lewiston	
						<u>300.00</u>
18859	10/21/2022	10	FirstLight	10/7/2022		219.39
					A/R - Auburn Sewer	
18859	10/21/2022	10	FirstLight	10/7/2022		62.50
					A/R - Lewiston	
18859	10/21/2022	10	FirstLight	10/7/2022		219.38
					Telephone-A&G Office	
18859	10/21/2022	10	FirstLight	10/7/2022		71.32
					A/R - Lewiston	
18859	10/21/2022	10	FirstLight	10/7/2022		71.32
					Telephone - Treatment	
18859	10/21/2022	10	FirstLight	10/7/2022		55.00
					A/R - Lewiston	
18859	10/21/2022	10	FirstLight	10/7/2022		62.50
					Chloramine Facility - O&M	
18859	10/21/2022	10	FirstLight	10/7/2022		62.50
					A/R - Lewiston	
18859	10/21/2022	10	FirstLight	10/7/2022		62.50
					UV Treatment Plant - O&M	
18859	10/21/2022	10	FirstLight	10/7/2022		55.00
					Oct Phone/Internet	
					Telephone-A&G Office	
						<u>941.41</u>
18860	10/21/2022	9	Granite State Analytical Svcs	10/2/2022		16.00
					Sept Testing	
					Outside Services - Lab Tests	
18860	10/21/2022	9	Granite State Analytical Svcs	10/2/2022		132.00
					Outside Services - Lab Tests	

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18860	10/21/2022	9	Granite State Analytical Svcs	10/2/2022		132.00
					A/R - Lewiston	
						<u>280.00</u>
18861	10/21/2022	11	Group Dynamic Inc	10/14/2022		64.00
					HRA - Nov	
					Employee Benefits	
						<u>64.00</u>
18862	10/21/2022	9	Harcros Chemicals, Inc.	9/26/2022		1,341.60
					Sod Hypo	
					Chemical Expense	
18862	10/21/2022	9	Harcros Chemicals, Inc.	9/26/2022		5,563.36
					Sod Hypo	
					Chemical Expense	
						<u>6,904.96</u>
18863	10/21/2022	10	Kennebec Equip. Rental	10/7/2022		495.00
					Blades Wet Asphalt	
					2022 Vernon Area Main Replace	
						<u>495.00</u>
18864	10/21/2022	10	Erica Kidd	10/18/2022		47.90
					Mileage & tolls	
					UV Treatment Plant - O&M	
18864	10/21/2022	10	Erica Kidd	10/18/2022		47.90
					A/R - Lewiston	
						<u>95.80</u>
18865	10/21/2022	9	Bisson Enterprises, Inc. DBA	9/30/2022		350.00
					Cleaning	
					Outside Services - T&D - Mnt	
18865	10/21/2022	9	Bisson Enterprises, Inc. DBA	9/30/2022		350.00
					A/R - Auburn Sewer	
18865	10/21/2022	9	Bisson Enterprises, Inc. DBA	9/30/2022		206.00
					Cleaning	
					UV Treatment Plant - O&M	
18865	10/21/2022	9	Bisson Enterprises, Inc. DBA	9/30/2022		206.00
					A/R - Lewiston	
						<u>1,112.00</u>
18866	10/21/2022	10	Intrado Interactive Services	9/30/2022		50.15
					A/R - Auburn Sewer	
18866	10/21/2022	10	Intrado Interactive Services	9/30/2022		50.15
					Auto Calls	
					Misc Expense-Collections	
						<u>100.30</u>

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18867	10/21/2022	10	Treasurer, State of ME-HETL	10/12/2022		510.00
					A/R - Lewiston	
18867	10/21/2022	10	Treasurer, State of ME-HETL	10/12/2022		510.00
					In Lake Testing	
					Outside Services - Lab Tests	
18867	10/21/2022	10	Treasurer, State of ME-HETL	9/28/2022		510.00
					A/R - Lewiston	
18867	10/21/2022	10	Treasurer, State of ME-HETL	9/28/2022		510.00
					Perimeter Testing	
					Outside Services - Lab Tests	
						<b><u>2,040.00</u></b>
18868	10/21/2022	10	Maine Municipal Assoc.	10/1/2022		3,038.85
					Worker Comp	
					Insurance - Workers Comp	
						<b><u>3,038.85</u></b>
18869	10/21/2022	11	Maine Municipal Emp.Hlth.	10/7/2022		50.40
					39020 - Nov	
					Employee Benefits	
18869	10/21/2022	11	Maine Municipal Emp.Hlth.	10/7/2022		1,034.89
					Accrued - Dental	
18869	10/21/2022	11	Maine Municipal Emp.Hlth.	10/7/2022		1,004.09
					Accrued - IPP Withheld	
18869	10/21/2022	11	Maine Municipal Emp.Hlth.	10/7/2022		100.40
					Accrued - Life Insurance	
						<b><u>2,189.78</u></b>
18870	10/21/2022	9	Maine Oxy-Acetylene Co.	9/26/2022		5,321.86
					Carbon Dioxide	
					Chemical Expense	
						<b><u>5,321.86</u></b>
18871	10/21/2022	10	McMaster-Carr Supply Co.	10/17/2022		100.81
					Cord	
					2022 Portable Generator	
						<b><u>100.81</u></b>
18872	10/21/2022	10	Petro's	9/30/2022		111.96
					Calcium Flakes	
					2022 Vernon Area Main Replace	
						<b><u>111.96</u></b>
18873	10/21/2022	10	Pine Tree Waste	10/1/2022		57.34
					A/R - Lewiston	

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18873	10/21/2022	10	Pine Tree Waste	10/1/2022	Bulk Waste UV Treatment Plant - O&M	57.33
18873	10/21/2022	10	Pine Tree Waste	10/1/2022	Bulk Waste Outside Services - T&D - Ops	104.51
18873	10/21/2022	10	Pine Tree Waste	10/1/2022	A/R - Auburn Sewer	104.52
18874	10/21/2022	10	Selco Plumbing and	8/15/2022	Hole Saw & Bit Supplies - T&D - Ops	<u>323.70</u> 14.63
18874	10/21/2022	10	Selco Plumbing and	10/6/2022	Supplies Supplies - Reservoirs	38.56
18875	10/21/2022	10	Thayer Limited Liability Compa	10/1/2022	A/R - Auburn Sewer	<u>53.19</u> 408.38
18875	10/21/2022	10	Thayer Limited Liability Compa	10/1/2022	Qtrly Maint Outside Services - T&D - Mnt	408.37
18876	10/21/2022	10	USA Blue Book	9/30/2022	A/R - Lewiston	<u>816.75</u> 244.16
18876	10/21/2022	10	USA Blue Book	9/30/2022	Supplies UV Treatment Plant - O&M	244.16
18877	10/21/2022	11	UNUM Life Insurance	10/17/2022	A/R - Auburn Sewer	<u>488.32</u> 100.85
18877	10/21/2022	11	UNUM Life Insurance	10/17/2022	Nov-Life Ins Employee Benefits	305.55
18878	10/21/2022	10	F. W. Webb Co.	9/20/2022	Base & Cover Sample Station Supplies - Mains	<u>406.40</u> 734.01
18879	10/28/2022	10	Joan Hoopes	10/28/2022	Refund Final Overpd A/R - Customers Accts Rec	<u>734.01</u> 48.27
						<u>48.27</u>

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18880	10/28/2022	10	Alexis Bellefleur	10/28/2022	Refund Credit Bal A/R - Customers Accts Rec	24.76
						<u>24.76</u>
18881	10/28/2022	10	City of Auburn	10/19/2022	Permits A/R - Auburn Sewer	1,440.00
18881	10/28/2022	10	City of Auburn	10/19/2022	Permits Misc Expense-Mains	1,360.00
						<u>2,800.00</u>
18882	10/28/2022	10	Steve J. Bell	10/31/2022	Oct Cell Telephone - Treatment	30.00
						<u>30.00</u>
18883	10/28/2022	10	Lindsay Bates	10/31/2022	Oct Cell Telephone - Treatment	30.00
						<u>30.00</u>
18884	10/28/2022	10	Budget Document Technology	10/4/2022	Maint Contract Misc Expense-A&G Office	182.29
18884	10/28/2022	10	Budget Document Technology	10/4/2022	A/R - Auburn Sewer	182.30
						<u>364.59</u>
18885	10/28/2022	10	Center Street Auto	10/17/2022	Insp Sticker TRUCK # 33 (2012 FORD TRUC	12.50
						<u>12.50</u>
18886	10/28/2022	10	Constellation NewEnergy, Inc.	10/14/2022	E. Hardscrabble Accrued Power	133.43
18886	10/28/2022	10	Constellation NewEnergy, Inc.	10/13/2022	S. Goff Accrued Power	9.91
18886	10/28/2022	10	Constellation NewEnergy, Inc.	10/11/2022	Mill St Accrued Power	1.31
						<u>144.65</u>
18887	10/28/2022	10	Dead River Company	10/11/2022	tank #5 propane Propane Exp - UV	127.42
18887	10/28/2022	10	Dead River Company	10/11/2022	A/R - Lewiston	127.43
						<u>254.85</u>

<b>Auburn Water District</b> <b>Accounts Payable Check Register</b> <b>October 1, 2022 thru October 31, 2022</b>
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18888	10/28/2022	10	General Alum New England Corp	10/4/2022	Aqua Aide Chemical Expense	15,247.67
						<b><u>15,247.67</u></b>
18889	10/28/2022	10	Grainger	10/3/2022	Electrical Gloves Supplies - Safety Items	116.74
18889	10/28/2022	10	Grainger	10/3/2022		116.75
					A/R - Auburn Sewer	
						<b><u>233.49</u></b>
18890	10/28/2022	10	David Hamann	10/31/2022	Oct Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18891	10/28/2022	10	Harcros Chemicals, Inc.	10/4/2022	Sod Hydro Chemical Expense	5,626.10
						<b><u>5,626.10</u></b>
18892	10/28/2022	10	Cole Hayford	10/31/2022	Oct Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18893	10/28/2022	10	Kele Inc.	10/7/2022	Heat Control Misc Expense-T&D Ops	134.24
18893	10/28/2022	10	Kele Inc.	10/7/2022		134.24
					A/R - Auburn Sewer	
						<b><u>268.48</u></b>
18894	10/28/2022	10	Erica Kidd	10/28/2022	Mileage, Etc A/R - Lewiston	39.79
18894	10/28/2022	10	Erica Kidd	10/28/2022	Mileage, Etc UV Treatment Plant - O&M	39.78
						<b><u>79.57</u></b>
18895	10/28/2022	10	Treasurer, State of ME-HETL	10/18/2022		680.00
					A/R - Lewiston	
18895	10/28/2022	10	Treasurer, State of ME-HETL	10/18/2022	perimeter testing Outside Services - Lab Tests	680.00
18895	10/28/2022	10	Treasurer, State of ME-HETL	10/18/2022		510.00
					A/R - Lewiston	



<p align="center"><b>Auburn Water District</b>  <b>Accounts Payable Check Register</b>  <b>October 1, 2022 thru October 31, 2022</b></p>
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18895	10/28/2022	10	Treasurer, State of ME-HETL	10/18/2022	In Lake testing Outside Services - Lab Tests	510.00
						<b><u>2,380.00</u></b>
18896	10/28/2022	10	Maine Water Utilities Assoc.	10/21/2022	Training Misc Expense-T&D Ops	60.00
18896	10/28/2022	10	Maine Water Utilities Assoc.	10/21/2022	Training Misc Expense-T&D Ops	60.00
						<b><u>120.00</u></b>
18897	10/28/2022	10	Craig Millett	10/31/2022	Oct Cell Telephone - Treatment	30.00
						<b><u>30.00</u></b>
18898	10/28/2022	10	Northern Data Systems, Inc.	10/19/2022	BUSA Query Tool Outside Services - A&G	512.50
18898	10/28/2022	10	Northern Data Systems, Inc.	10/19/2022	A/R - Auburn Sewer	1,240.21
18898	10/28/2022	10	Northern Data Systems, Inc.	10/19/2022	Billing Outside Services - Customers	1,240.20
18898	10/28/2022	10	Northern Data Systems, Inc.	10/19/2022	BUSA Query Tool A/R - Auburn Sewer	512.50
						<b><u>3,505.41</u></b>
18899	10/28/2022	10	E.J. Prescott, Inc.	10/6/2022	PVC, Gasket, Etc Inventory	2,486.28
18899	10/28/2022	10	E.J. Prescott, Inc.	10/5/2022	chg out Expenses - Jobbing	296.30
18899	10/28/2022	10	E.J. Prescott, Inc.	10/6/2022	DI Pipe-Boat Launch Watershed Expenses	875.80
						<b><u>3,658.38</u></b>
18900	10/28/2022	10	Skelton, Taintor & Abbott	10/19/2022	Legal thru 092922 Legal Expenses	456.00
						<b><u>456.00</u></b>
18901	10/28/2022	10	Super Shoe Stores, Inc.	10/14/2022	Cloth Allow Employee Benefits	147.58
						<b><u>147.58</u></b>

<p style="text-align: center;"><b>Auburn Water District</b>  <b>Accounts Payable Check Register</b>  <b>October 1, 2022 thru October 31, 2022</b></p>
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<u>Check</u>	<u>Date</u>	<u>Per</u>	<u>Vendor</u>	<u>Inv Date</u>	<u>Reference</u>	<u>Amount</u>
18902	10/28/2022	10	Derek Thone	10/31/2022		30.00
					Oct Cell Telephone - Treatment	
						<u>30.00</u>
18903	10/28/2022	10	USA Blue Book	10/4/2022		244.16
					Supplies UV Treatment Plant - O&M	
18903	10/28/2022	10	USA Blue Book	10/4/2022		244.16
					A/R - Lewiston	
						<u>488.32</u>
<u><b>Grand Total</b></u>						<u><b>415,495.53</b></u>

# AUBURN WATER DISTRICT

## MONTHLY ACTIVITY REPORT

### October 2022

### MAINS

Location	Hrs.	Comments	Leak Check				OK	Misc.	New
			PT/Cl <sub>2</sub>	Leak	On Owner				
Willow Street	32	Main replacement							1
Vernon area main replacement	241	Replaced the main on Ashe Street							1
539 Lewiston Jct Rd	4	Made new service tap							1
2424 Hotel Rd	4	Made new service tap							1
<b>Total Hours</b>	281								
<b>Monthly Totals</b>	4		0	0	0	0	0	0	4
<b>2021 Monthly Totals</b>	6		0	2	0	0	1	3	
<b>YTD Totals</b>	56		0	20	3	3	12	18	
<b>2021 YTD Totals</b>	43		0	15	1	0	12	15	

### GATES

Location	Ck'd	Comments	Adjust	Leak	New	Misc.
Lewiston Junction Rd	35	Raised Gates	1			
Academy	4	patch pavement around gates				1
<b>Monthly Totals</b>	2		1	0	0	1
<b>2021 Monthly Totals</b>	2		2	0	0	0
<b>YTD Totals</b>	28		23	0	0	5
<b>2021 YTD Totals</b>	33		25	0	5	3

## HYDRANTS

Location	Hrs.	Comments	Broken	Cap	Misc.	New	Frozen
Oak Hill Rd	2	Removed hydrant meter			1		
Private Hydrants	7	service private hydrants			1		
Fall hydrant flushing	90	Flush all dead-end mains			1		
Winter hydrant maintenance	4	check all hydrants			1		
Center Street	6	Repaired hydrant	1				
Auburn hts	2	set and remove hydrant meter			1		
Airport	2	removed hydrant meter			1		
Cimino Dr	2	Removed Hydrant meter			1		
<b>Total Hours</b>	115						
<b>Monthly Totals</b>	8		1	0	7	0	0
<b>2021 Monthly Totals</b>	3		0	0	3	0	0
<b>YTD Totals</b>	50		10	0	40	0	0
<b>2021 YTD Totals</b>	48		11	0	37	0	0

## NEW SERVICES

Location	No.	Comments	No Meter	Meter	Meter Size
160 Cascades Drive	1	Activate sprinkler main	1		6"
<b>Monthly Totals</b>	1		1		
<b>2021 Monthly Totals</b>	0		0	1	
<b>YTD Totals</b>	24		6	18	
<b>2021 YTD Totals</b>	0		1	12	

## SERVICES

Location	Hrs.	Comments	Leak Check			Frozen	Box	Misc.
			OK	Leak	On Owner			
555 Court Street	22	Chlorinate and test new main			1			
481 Washington Street	2	Replace missing MXU			1			
21 South Goff Street	11	abandon water service			1			
160 Cascades	2	gps new gates	1					
51 Grandview	3	Investigate water hammer, ok			1			
461 Court Street	2	Low water pressure call, ok			1			
50 Harvard	6	repaired service box	1					
481 Washington Street	4	Lowered service box					1	
Edward Little	6	repaired service box					1	
51 Grandview	4	Raised service box					1	
39 Shepley	2	Repaired service box					1	
2 Carroll Ave	22	Replaced box and rod					1	
103 High Street	16	Dug and replace curb stop					1	
12 Newbury	22	Service leak, street side		1				
<b>Monthly Totals</b>	14		2	1	5	0	6	0
<b>2021 Monthly Totals</b>	9		0	1	4	0	1	3
<b>YTD Totals</b>	135		10	3	75	0	37	10
<b>2021 YTD Totals</b>	85		7	7	42	0	15	14

## METERS

Activity	Comments	Test/ Repair	Changed	Misc.	Read Hours	Special Reads	Delinquent	
							Notify	Turn off
Test meters								
Test meters								
Test meters								
Test meters								
Test meters		13						
Repair MXU.'s.			10					
Meters In/out			17					
Dead								
Frozen								
Deactivate Service			11					
Activate Service			2					
Temporary Meter								
Turn off & on for repairs				2				
Reading Meters					24.0			
Final Reads	Ownership Transfer					39		
Recheck Readings	High or low reading.					2		
Red Tags	Notify for non-payment.						29	
Turn off for non-payment	(12) reinstated)							13
<b>Monthly Totals</b>		13	40	2	24	41	29	13
<b>2021 Monthly Totals</b>		30	45	10	20.5	50	10	13
<b>YTD Totals</b>		50	218	61	228	419	208	146
<b>2021 YTD Totals</b>		84	223	42	222	404	192	164

## STATION CHECKS

Location	hrs.	Comments
Poland Tank	4	replaced outside faucet
Poland Tank	52	drained and re-filled tank 5
Hardscrabble Reservoir	4	gathered data for project planning.
Hardscrabble Reservoir	28	Drained and re-filled tanks 3
Goff Hill	6	work on altitude valve
<b>Monthly Totals</b>	5	
<b>2021 Monthly Totals</b>	3	
<b>YTD Totals</b>	30	
<b>2021 YTD Totals</b>	30	

## WATER QUALITY CALLS

Location	Comments	Dirty	Color	Odor	Taste	Misc.
<b>Monthly Totals</b>		0	0	0	0	0
<b>2021 Monthly Totals</b>		0	1	0	0	0
<b>YTD Totals</b>		0	0	2	0	1
<b>2021 YTD Totals</b>		0	3	0	0	1

## LABORATORY

Month	Dist. Sys. Tests	Temp (°C)	Avg. NaOH	Avg. Cl	Avg. FL	Avg. Turb.	SWTR Tests
		Water	gal/MG	mg/l	mg/l	(ntu)	
January	47	3.0	27.28	3.01	0.69	0.42	31
February	44	1.7	27.32	2.91	0.69	0.36	28
March	51	2.5	27.30	2.87	0.70	0.43	31
April	46	4.6	27.22	2.82	0.69	0.70	30
May	51	8.0	27.11	2.83	0.68	0.64	31
June	46	18.4	27.17	2.75	0.66	0.47	30
July	47	22.1	27.13	2.69	0.66	0.44	31
August	57	26.7	26.38	2.75	0.67	0.95	31
September	46	24.6	25.38	2.83	0.68	1.22	30
October	47	17.4	24.79	2.88	0.71	1.11	31
November							
December							
YTD Avg	48		26.71	2.83	0.68	0.67	
2021 Avg	48		27.18	3.01	0.76	0.52	
YTD Totals	482						304
2021 YTD	476						306

## LAKE AUBURN

Month	No. Patrols	Withdrawals *			Elevations **					
		AWD	LWD	Total	1st	High	Yr.	Low	Yr.	2021
January	10	2.29	3.49	5.78	260.92	261.40	1974	257.20	2001	261.37
February	12	2.43	3.46	5.89	260.86	261.70	1996	257.10	2002	261.13
March	10	2.29	3.38	5.67	216.29	261.41	2010	257.40	2002	260.96
April	15	2.33	3.39	5.72	261.42	262.40	1953	258.20	2002	261.42
May	12	2.47	3.59	6.06	261.00	261.53	2017	258.78	2007	261.25
June	15	2.58	3.88	6.46	260.61	261.80	2003	259.49	2007	260.76
July	15	2.75	4.27	7.02	260.29	261.70	2013	258.75	1960	260.18
August	12	2.69	4.19	6.88	259.99	261.10	1981	258.00	1999	260.67
September	8	2.44	4.42	6.86	259.87	260.92	2013	257.40	1999	260.25
October	12	2.59	3.98	6.57	259.85	261.10	1981	257.55	1952	260.10
November										
December										
Avg. Monthly	12	2.49	3.81	6.29	October		AWD		LWD	
							39%		61%	
YTD Totals	121	24.86	38.05	62.91	2022 YTD Avg		40%		60%	
2021 YTD Totals	167	23.72	38.88	62.6	2021 YTD Avg		38%		62%	

\* Average Daily Withdrawals MGD    \*\* Elevation Above Sea Level

## WEATHER\*

Month	Precipitation				Temperature			
	Snowfall(in.)	Total (in.)	Normal Precip.	Days of Precip.	Max (°F)	Min (°F)	Avg- (°F)	Dep. From norm
January		1.38		8	44	-13	18	
February	28.0	2.56		8	64	-2	26	
March	8.0	3.02		10	68	2	35	
April	0.0	4.80		15	65	28	46	
May	0.0	1.63		6	91	30	58	
June	0.0	3.22		10	86	46	64	
July	0.0	4.98		7	92	55	72	
August	0.0	2.73		11	92	56	71	
September	0.0	3.56		9	83	60	39	
October	0.0	7.16		11	75	29	52	
November								
December								
YTD Totals	36.0	35.0	0.0	95.0				
2021 Totals	16.6	24.8	3.2	87				

## DIG SAFE

Month	Total	Contractors	MDOT	AHD	School Dept.	Lewiston Water	Consolidated comm.	AWD	CMP	ASD	GAS	MTA
January	63	36	0	0	1	0	0	7	8	0	11	0
February	66	46	1	0	0	0	0	9	9	0	1	0
March	91	58	0	1	0	0	0	6	7	2	16	1
April	162	105	5	18	0	0	0	9	7	0	17	1
May	155	94	1	34	0	0	0	3	6	1	15	1
June	118	78	0	24	0	0	0	1	7	2	4	2
July	127	71	1	26	1	0	0	1	7	1	16	3
August	135	68	1	40	1	1	0	8	8	1	6	1
September	92	51	1	17	0	3	0	3	3	0	11	3
October	95	57	3	9	0	0	0	7	5	1	10	3
November												
December												
YTD Totals	1104	664	13	169	3	4	0	54	67	8	107	15
2021 Totals	1249	757	7	230	1	0	3	56	104	2	82	7



## **DUTY FOREMAN CALLS**

(Overtime)

Districts	Total	High/Low Pressure	Water Quality	Alarms	Service Issue	Leak	Misc.	Locates	Hydrants	Meter	Fire Calls
Sewerage District	4			0	3	0	0	1	0	0	0
Water District	5	0	0	0	2	0	1	1	0	0	1
<b>Monthly Totals</b>	9	0	0	0	5	0	1	2	0	0	1
<b>2021 Monthly Totals</b>	7	0	0	0	2	1	2	2	0	0	0
<b>YTD Totals</b>	72	0	0	0	31	7	9	13	9	0	3
<b>2021 YTD Totals</b>	63	0	1	0	22	11	8	10	3	1	7

## **OTHER ACTIVITIES**

1. Lakeshore Drive, car in the lake. No release of fluids
2. Watershed, respond to accident where car went into the lake
3. Garage door failure, rear entrance.
4. Remove oil from 21 South Goff Street
5. clean, grease and service backhoe
6. Worked SCAD design for water facilities
7. Watershed, finish work on boat launch gates.
- 8.

## **Poland Spring Inn Booster Station**

- 1 Check station operation
- 2



# MEMORANDUM

TO: File

FROM: Rebecca Balke and Eileen Pannetier, Comprehensive Environmental Inc.

SUBJECT: **Peer Review of FB Environmental Associates – Background Information**

JOB NUMBER: 222-5

DATE: **October 17, 2022**

The Lake Auburn Watershed Protection Commission requested CEI to perform a peer review of a recent study and technical memorandum prepared by FB Environmental Associates (FBE) that evaluated local regulatory scenarios and their impact on the water quality of Lake Auburn. The purpose of the review is to evaluate the conclusions drawn as they pertain to development and water quality impacts on Lake Auburn.

The following documents were reviewed by CEI as part of this evaluation:

- A Regulatory, Environmental, and Economic Analysis of Water Supply Protection in Auburn, Maine prepared by FB Environmental Associates, Horsely Witten Group and the University of Maine, dated October 2021.
- Lake Auburn Model Technical Memorandum addressed to Eric Cousens, City of Auburn, prepared by Laura Diemer, FB Environmental Associates, dated August 1, 2022.
- Memo addressed to Eric Cousens, John Blaise prepared by Sid Hazelton, P.E., Superintendent of AWD, dated August 8, 2022.
- Lake Auburn Watershed Management Plan prepared by CEI, dated April 19, 2010.
- Lake Auburn Diagnostic Watershed Study prepared by CEI, dated March 13, 2013.

## Background

Lake Auburn is the sole public water supply for over 39,000 consumers residing in Auburn, Lewiston, and a portion of Poland. Due to its long history of excellent water quality, Lake Auburn's water supply has been granted a 'Filtration Avoidance' waiver by the US Environmental Protection Agency (EPA) for nearly 30 years, bypassing certain treatment requirements under federal drinking water law and saving the need for a costly filtration plant, estimated at a capital cost of \$35-\$45 million.

Lake Auburn has been faced with declining water quality over the last 10 years, reaching a tipping point circa 2010 where key environmental thresholds were reached or passed. Specifically, levels of phosphorus, a key nutrient for the growth of aquatic algae, rose above 10 parts per billion and elevated the risk of algae blooms. This was addressed through the application of alum in 2019 to reduce high internal phosphorus loads from the bottom sediments in the lake that had accumulated over the last several decades from discharges from the watershed. This provides some time to address phosphorus inputs from the watershed through watershed management efforts.



# MEMORANDUM

Based on this history, FBE was commissioned by the City of Auburn, Maine to provide a comprehensive analysis of the regulatory, environmental, and economic benefits and costs for scenarios that will maximize long-term public water supply protection of Lake Auburn, to guide future management decisions. Key findings from this study, completed in October 2021, included:

- Lake Auburn is nearing its assimilative capacity for nutrient load (even with the partial alum treatment) and cannot handle much more additional nutrient load without diminishing water quality and its associated benefits. FBE found no net environmental economic, or social benefit supporting expansion of development in the Lake Auburn watershed.
- More development cannot be allowed in the Auburn portion of the watershed even with low impact development (LID) requirements implemented in Auburn. Even if reduced development through conservation or other means is achieved in the headwater towns, any additional development in Auburn has an outsized negative impact since its drainage area goes directly to the lake.
- It was recommended to revise the septic system requirements of the Lake Auburn Watershed Overlay District Ordinance to incorporate the Maine Subsurface Wastewater Disposal Rules, including provisions that allow for mounded leach fields and other State-approved alternative designs where there is not a native, in-situ, 36-inch vertical separation between the bottom of the organic horizon and the bedrock, water table, or other restrictive layer. FBE recognized that this would allow more areas to be developed with the potential for over 100 new homes in the watershed over existing ordinances, however, stated that restrictions on developable land are better left to base and resource protection zoning than to septic design standards.
- Update the Lake Auburn Watershed Overlay District Ordinance to reflect the revised watershed boundary, reducing the existing watershed boundary by 148 acres in the Gracelawn Road area. This was based on groundwater flow studies around the sand and gravel operations and groundwater monitoring data around the former City of Auburn landfill which groundwater to flow away from Lake Auburn.

At the conclusion of the study, the City of Auburn requested FBE to evaluate proposed ordinance changes, in the City of Auburn only, for their potential effects on land use and development in the Lake Auburn watershed and associated impacts to lake water quality. FBE presented its analysis and findings in the Lake Auburn Model Technical Memorandum addressed to Eric Cousens, City of Auburn, dated August 1, 2022. A summary of the proposed ordinance changes evaluated, included:

- an increased agricultural buffer strip from 50 feet to 100 feet – this does not change the number of building lots, rather reduces phosphorus inputs by converting existing tilled agricultural land to open space, thus reducing phosphorus loads;
- allowing septic systems in soils with a minimum of 12” of soil over a restrictive layer vs. 36” and vs. no restrictions;
- prohibiting the siting of septic systems within 400 feet of the high-water line where soils are profiled as gravel outwash or stratified drift as shown in Table 4D (profiles 5, 6, and



# MEMORANDUM

some of 11) of Chapter 24 – this showed the entire 400-foot buffer as restricted from development, reducing the number of buildable lots by 23 from the “Business as Usual” model (baseline buildout analysis considering under existing ordinances). FBE stated that this new model run likely underestimated new building potential as physical field application of the Table 4D rules would likely be less restrictive but there is no way of knowing the extent of the difference without field evaluations by a Licensed Site Evaluator. For comparison purposes, they removed the 23 homes predicted under the “Baseline as Usual” buildout scenario to estimate the reduction in buildings between the two scenarios.

- Rural Residential (RR) was rezoned to Low Density County Residential (LDCR), increasing the lot size from 1 to 3 acres.
- while not a zoning change, FBE also made adjustments to the buildout assumptions that they claimed more accurately apply existing ordinances. Specifically, the model updated assumed no development in the Agriculture and Resource Protection (AG) zone due to the restrictive standards existing for development in this zone. This removed 928 acres of buildable area and 74 projected buildings compared to the “Business as Usual” buildout scenario included in the October 2021 study.
- reducing the threshold where a phosphorus control plan (PCP) is required from 575 square feet to 200 square feet, essentially capturing accessory dwelling units, as primary households were already required to prepare a PCP. FBE considered its LID buildout assumptions to be nearly equivalent to requiring a PCP, which was supported by the load estimates associated with PCP restrictions vs. LID restrictions (e.g., and the numbers do support this (e.g., the load estimated with the application of LID was similar to the load allowed under the ordinance and PCP requirements).

Based on this analysis, FBE concluded that the ordinance changes directly reduced the total buildable area by 27 acres and the number of projected new buildings by 58 (after adjusting for the “Business as Usual” scenario to also remove development in the AG), indicating that the expansion of buildable area with the lifting of the septic system siting restriction (changing from 36” to 12”) was effectively offset by the reduction of buildable area with the rezoning of RR to LDCR (changing from 1-acre to 3-acre minimum lot size).

FBE also noted a phosphorus load reduction of 6 kg/yr compared to the “Business as Usual + LID” scenario included in the October 2021 study, however, did identify that there were limitations to directly comparing the results of the “Business as Usual” scenario to the 2022 model update. FBE did not remodel the “Business as Usual + LID” scenario presented in the October 2021 report to show the phosphorus reduction associated with no future development in the AG zone, thus the load reduction is expected to be less than 6 kg/yr.



# MEMORANDUM

## **CEI Peer Review Evaluation**

CEI performed a peer review of the FBE study and subsequent technical memorandum to evaluate the assumptions used to estimate buildout conditions and associated loads under various buildout scenarios and the conclusions drawn from these assumptions as they pertain to the protection of Lake Auburn. This was a qualitative analysis and did not involve any modeling.

## **Gracelawn Road Area Boundary Change**

FBE recommended that 148 acres of the watershed in the Gracelawn Road area be removed from the watershed. This was based on hydrogeologic studies of the sand and gravel operations and former City of Auburn landfill along Gracelawn Road, which showed groundwater to flow away from Lake Auburn. CEI did not review the referenced hydrogeologic studies as part of this evaluation, only the information provided in the October 2021 FBE study, which includes Figure 3-1 showing the mapped groundwater contours taken from one of the hydrogeologic studies. The map does appear to support that groundwater in the area is mounded, with the majority flowing away from the lake. However, CEI cautions the City from discounting this area from the watershed entirely, particularly under a future development scenario. Depending on how the sand and gravel pit is restored and developed, the area could contribute to Lake Auburn. This requires a more detailed evaluation of potential development scenarios and their impact on localized groundwater and surface water runoff.

## **Buildout Assumptions**

The FBE buildout analysis included in the October 2021 study assumes a worst-case buildout scenario based on the allowable development for the zone. The method used to estimate potential development by FBE is as follows:

- 1) FBE identified and subtracted land unavailable for development due to physical constraints, including environmental restrictions (e.g., steep slopes, existing buildings, wetlands, resource protection zones, hydric soils, and conserved land), zoning restrictions (e.g., shoreland zoning, street ROWs, minimum lot sizes, and building setbacks), and practical design considerations (e.g., lot layout inefficiencies). FBE applied an efficiency factor of 66% for all zones based on prior experience.
- 2) The remaining buildable land was subdivided to the smallest units allowed under current zoning and a point representing a building was placed in each unit.
- 3) LAWPC-owned lands were considered to be protected from development indefinitely (in the "Business as Usual" and "Max Development – LAWPC Lands Remain Protected" buildout scenarios).
- 4) County level soil data was used to restrict development from areas with less than 36 inches to groundwater or some restrictive layer where septic systems are not allowed, as well as from areas within sandy soils within 300 feet of the Lake Auburn shoreline.
- 5) Lakes and ponds were given a 100-foot setback.
- 6) Other waterbodies, streams and wetlands were given a 75-foot setback.



# MEMORANDUM

CEI is in agreement with the buildout assumptions applied in the October 2021 evaluation. However, in the updated modeling analysis presented in the August 1, 2022 memo, FBE assumed no additional buildings would be allowed in the AG zone under existing and proposed ordinance changes due to restrictions to development in this zone. CEI assumed this was due to the agricultural income requirements to develop in this zone combined with the observed declining agricultural trends in the watershed.

To better understand each of the buildout scenarios and the impact on future development, CEI created a summary table (Table 1 at the end of this memorandum) of existing and projected increases in buildings under three key buildout scenarios, including:

1. “Business as Usual” – this buildout reflects the potential number of additional homes under the existing zoning regulations and assumed future development will occur in the AG zone based on current zoning densities.
2. “Max Development – LAWPC Lands Remain Protected” – this buildout removes the development restrictions associated with septic systems on land with less than 36 inches to groundwater and on land with sandy soils within 300 feet of the shoreline. It also included rezoning of 51 parcels (59 buildable acres) from AG and RR to General Business (GB) and Neighborhood Business (NB).
3. “2022 Ordinance Changes Baseline Buildout” – this buildout incorporates the proposed 2022 ordinance changes outlined under the Background section above and assumes no new development will occur in the AG zone.

Although agricultural land use has been declining in the watershed, it is unlikely that no additional development will occur in the AG zone. CEI believes that FBE’s original assumptions of 74 homes under existing zoning regulations and 101 homes with relaxed septic regulations is more realistic than no new development. Even if no new agriculture is proposed in the AG zone in the future, as has been suggested, it seems to reason that some development would still be allowed, and therefore should not be discounted in any future development scenario. Without language specifically prohibiting further development in the AG zone, there is always a possibility for more buildings.

To allow for a more representative comparison between scenarios, adjustments were made to remove the village rezoning impacts from the “Max Development – LAWPC Lands Remain Protected” scenario so that this scenario represented existing zoning ordinances with relaxed septic system requirements. Further adjustments were made to include the same assumptions for future development of the AG zone in all three cases, including no development in the AG zone as assumed in FBE’s 2022 model update and some development in the AG zone as assumed in FBE’s October 2021 buildout scenarios. These are presented in Tables 2 and 3 (at the end of this memorandum) respectively.



# MEMORANDUM

Under the assumption that no development would occur in the AG zone, the “2022 Ordinance Changes Baseline Buildout” showed a reduction of 57 buildings from the “Business as Usual” scenario. Under the assumption that development would occur in the AG zone, a reduction of 30 buildings was demonstrated. In both cases, the proposed 2022 zoning changes showed that rezoning the RR to LDCR would offset the buildable land created through relaxation of the septic requirements, but less so when development in the AG occurs.

## **LID Assumptions**

CEI reviewed the LID assumptions used by FBE to reduce phosphorus loads from the residential development that does occur in the watershed. We found these assumptions to be in line with the reductions that would be achieved with a phosphorus control plan under the Phosphorus Control Ordinance. CEI used similar phosphorus load reductions in its 2010 buildout analysis.

While the phosphorus control requirements do limit the amount of area that can be developed, this only needs to be demonstrated at the time of development and it is not uncommon for homeowners to disturb additional areas over the years. This would require continued monitoring and enforcement in any scenario.

## **Relaxing Septic Restrictions**

In its October 2021 study, FBE recommended that the City of Auburn update the septic system regulations contained in the Lake Auburn Watershed Overlay District Ordinance to align with the State Plumbing Code requirements with an increase in depth to groundwater, bedrock or other restrictive layers of 36 inches, rather than the shallower depths allowed by the less protective tiers in the State code. FBE noted that the State code was last updated in 2015 to require a depth of between 12-24 inches of native soil below the leach field. Prior to this update, the requirement was as little as 9 inches in many cases. FBE also noted that the Maine requirements are less stringent than other New England states. The recommendation was presented as a simple approach to revising the language to maintain both the greater depth to groundwater requirements but also allows for alternative onsite septic disposal approaches that can improve phosphorus control from septic systems. It would also allow projects in the watershed to use innovative and alternative designs in place of a traditional septic system leach field, including drip irrigation and proprietary devices. FBE recognized that such a change could increase development potential by over 100 homes in Auburn and suggested that changes to zoning densities be used to control the amount of development. FBE then modeled proposed 2022 ordinance changes to demonstrate that density changes could offset the increase in buildable areas presented with an update to the septic regulations.



# MEMORANDUM

This is not the first-time modification of the septic ordinance has come up. CEI performed a Lake Auburn Watershed Septic System Analysis in October 2009 to evaluate whether the septic design criteria should be modified consistent with the state's less stringent criteria. The key findings of the evaluation were:

- 1) Other New England States require 3+ feet of vertical separation and at least 2 feet is needed – the soils beneath a leach field serve to filter pollutants from the wastewater. The greater the vertical distance through the soil, the greater the treatment. Most studies reveal a minimum of 24" vertical separation for adequate pollutant removal, regardless of soil type.
- 2) The Lake Auburn watershed has coarse soils – The geology of the Lake Auburn watershed is characterized by coarse soils and some gravel, unlike the lodgement (basal) tills found in much of Maine. These coarse materials do not filter pollutants as well as finer materials and may require greater vertical separation distances to treat.
- 3) Phosphorus, an important pollutant of Lake Auburn, can get to the lake if septic systems are too close – Some studies have found long-term migration of phosphorus in the groundwater zone, with phosphorus above background levels detected up to 250 feet away from the septic system. Nitrate travels rapidly away from septic systems.
- 4) More lenient septic requirements increases phosphorus loads to Lake Auburn – Both failing and non-failing septic systems can contribute phosphorus and other pollutants to the Lake. Allowing for more lenient septic design requirements within the watershed will allow for the placement of septic systems where they are not currently allowed. This also results in an increase in impervious area in the watershed and increased phosphorus loadings from stormwater runoff.
- 5) Changes to the Lake Auburn Watershed Overlay District (LAO) ordinance may put the filtration waiver at risk – The LAO and other watershed control programs in place at the time the filtration waiver was granted were key factors in granting the waiver and changes to these programs, particularly changes that allow for more growth and net loadings to the Lake, could put the District at risk for losing that waiver.

FBE confirmed that Maine state septic requirements continue to be less stringent than other states, despite the recent change to require 12-24" of native soil rather than 9". The State made the requirements more stringent for a reason and its not unreasonable to consider this could be tightened further in the future as well.

FBE also mentioned the watershed's sand and gravel aquifer and concern that the existing ordinance has led to the preferential siting of some septic systems on deep formations of sand and gravel aquifer that are not appropriate for septic systems without the importation of suitable reactive soils that the recommended ordinance revisions would allow. CEI agrees that coarse sand and gravels do not filter as well as fine materials and amendment of these soils may be appropriate, but does not have to be tied to a relaxation of the existing depth restrictions.





# MEMORANDUM

Phosphorus loads still remain a concern, both from septic systems located close to the lake and from the associated development of the site. While the increase in buildable areas associated with a relaxed septic regulation can be offset with other zoning regulations to control density, the City should be aware that alternative septic designs, such as mounded systems do require more consideration and care during installation and to ensure they are maintained to continue functioning properly and to prevent breakouts. This is something that will not show up in the models, but can present an increased risk to the lake. Additionally, considering that systems closest to the lake pose the greatest risk of passing contaminants such as nutrient, pathogens, and viruses, consideration should be given to prohibiting systems within a certain distance to surface waters in the watershed, such as the 300-foot buffer. This removes some of the uncertainty of the models in the most critical areas of the watershed.

Finally, an extremely important consideration is the filtration waiver and whether loosening existing restrictions could jeopardize that waiver. Other means of protecting the watershed that do not loosen existing restrictions should be considered.

## **Summary and Conclusions**

The following summarizes the key findings from this evaluation:

1. FBE stated that Lake Auburn is nearing its assimilative capacity for nutrient load (even with the partial alum treatment) and cannot handle much more additional nutrient load without diminishing water quality and its associated benefits. FBE found no net environmental economic, or social benefit supporting expansion of development in the Lake Auburn watershed. CEI agrees with this conclusion.
2. FBE stated in its 2021 study that more development cannot be allowed in the Auburn portion of the watershed even with low impact development (LID) requirements implemented in Auburn. Even if reduced development through conservation or other means is achieved in the headwater towns, any additional development in Auburn has an outsized negative impact since its drainage area goes directly to the lake. CEI agrees with this assessment.
3. CEI cautions the City from discounting the 148-acre Gracelawn Road area from the watershed entirely, particularly under a future development scenario. Depending on how the sand and gravel pit is restored and developed, the mounding could be eliminated with the groundwater flows returning to their more natural regional flow pattern where the area could contribute to Lake Auburn. This requires a more detailed evaluation of potential development scenarios and their impact on localized groundwater and surface water runoff.
4. CEI agrees with the buildout assumptions used by FBE in its October 2021 study, however, in its 2022 model update, FBE assumed that no additional development would occur in the AG zone. Although agricultural land use has been declining in the watershed, it is unlikely that no additional development will occur in the AG zone. Unless development is strictly prohibited in the zoning ordinance, some development should be expected and included in each of the buildout scenarios, similar to FBE's October 2021 study.



# MEMORANDUM

5. Modeling of the proposed 2022 zoning changes showed that rezoning the RR to LDCR would offset the buildable land created through relaxation of the septic requirements. However, the number of potential buildings is likely underestimated in the 400-foot setback from water bodies considered in the updated model. Considering systems closest to the lake pose the greatest risk of passing contaminants such as nutrient, pathogens, and viruses, consideration should be given to prohibiting systems within a certain distance to surface waters in the watershed. This removes some of the uncertainty of the models in the most critical areas of the watershed.
6. While the additional buildable land associated with a relaxed septic regulation can be offset with revised zoning densities, it does raise other concerns:
  - a. The filtration waiver was based on protection measures in place when the waiver was granted. Why risk jeopardizing the waiver by loosening these restrictions?
  - b. Relaxing the septic system regulations opens the door for future development in the AG district. If the desired outcome of the proposed 2022 ordinance changes is a reduction in potential developable sites and better treatment of septic systems, there are other ways to achieve the same goal without relaxing the septic requirements and without creating potential new buildable areas. CEI recommends that the following alternatives be evaluated:
    - i. Maintain the existing depth restrictions, but allow for amendment of sandy soils to provide better treatment. This prevents expansion of buildable areas while improving the treatment capabilities of septic systems in sandy soils. Why introduce new buildable areas at all if the focus is to reduce development;
    - ii. Allow only one septic system per lot to avoid clustering;
    - iii. Prohibit development within the 300-foot buffer of waters considering septic systems closest to the lake pose the greatest risk of passing contaminants such as nutrients, pathogens, and viruses. This removes some of the uncertainty of the models in the most critical areas of the watershed;
    - iv. Continue with zoning to reduce the density of development (e.g., RR to LDCR).



# MEMORANDUM

**Table 1. Existing and Potential New Buildings for Various Buildout Scenarios in Auburn, Maine as Presented in FBE Reports**

Development Scenario:	Existing	Business as Usual	Max Development – LAWPC Lands Remain Protected	2022 Ordinance Changes Baseline Buildout <sup>1</sup>
Assumptions:		Existing ordinances.	Removed septic restrictions. Includes rezoning 51 parcels from AG and RR to NB and GB.	Proposed 2022 ordinance changes. No future development in AG.
Agriculture and Resource Protection (AG)	77	74	101	0
General Business (GB)	2	0	44	0
Low Density Country Residential (LDCR)	47	16	24	79
New Business (NB)	0	0	130	
Rural Residential (RR)	218	143	279	0
Suburban Residential (SR)	75	6	9	6
Total	419	239	587	85

<sup>1</sup>FBE updated its buildout assumptions for the AG zone in its 2022 modeling update. These updates assumed no new development would occur in the AG zone due to the restrictive zoning. Updates were not made to the “Business as Usual” scenario to reflect this, but were discussed as limitation for comparing the phosphorus loads between the two scenarios.



# MEMORANDUM

**Table 2. Existing and Potential New Buildings for Various Buildout Scenarios in Auburn, Maine Adjusted for Comparison – No Development in AG<sup>1</sup>**

Development Scenario:	Existing	Business as Usual	Max Development – LAWPC Lands Remain Protected	2022 Ordinance Changes Baseline Buildout
Assumptions:		Existing ordinances. Adjusted to remove buildings from AG for comparison with 2022.	Removed septic restrictions. Adjusted to remove buildings from AG, GB and NB for comparison with 2022.	Proposed 2022 ordinance changes. No future development in AG.
Agriculture and Resource Protection (AG)	77	<del>(74)</del> 0	<del>(41)</del> 0	0
General Business (GB)	2	0	<del>(44)</del> 0	0
Low Density Country Residential (LDCR)	47	16	24	79
New Business (NB)	0	0	<del>(43)</del> 0	
Rural Residential (RR)	218	143	279	0
Suburban Residential (SR)	75	6	9	6
Additional Adjustments <sup>2</sup>	--	-23	-23	--
Total <sup>3</sup>	419	<del>(239)</del> 142	<del>(587)</del> 289	85

<sup>1</sup>To allow for a more representative comparison between buildout scenarios where no development is assumed to occur in the AG zone, development in AG was removed from all buildout scenarios and the proposed village district rezoning in “Max Development – LAWPC Lands Remain Protected” to convert 59 acres of AG and RR zones to GB and NB zones was removed. Doing so illustrates the projected increase in development from existing conditions, to buildout conditions under existing zoning, to buildout conditions under existing zoning with relaxed septic system requirements, to buildout conditions under the 2022 proposed zoning. Values removed are shown in gray strikethrough with those added shown in bold black font.

<sup>2</sup>There were 23 projected new buildings identified within the 300-foot buffer under the “Business as Usual” and “Max Development – LAWPC Lands Remain Protected” that the 2022 ordinance changes conservatively excluded due to the limitations of using the Table 4D soil profiles. These were removed from the two 2021 buildout scenarios.

<sup>3</sup>**Assuming no further development in the AG zone, the 2022 ordinance changes directly reduced the total buildable area by 27 acres and the number of projected new buildings by 57 in comparison to the “Business as Usual” scenario (142-85=57).** The results show that the rezoning of RR to LDCR offsets the additional building lots allowed from removing the septic restrictions.



# MEMORANDUM

**Table 3. Existing and Potential New Buildings for Various Buildout Scenarios in Auburn, Maine Adjusted for Comparison – Includes Development in AG<sup>1</sup>**

Development Scenario:	Existing	Business as Usual	Max Development – LAWPC Lands Remain Protected	2022 Ordinance Changes Baseline Buildout
Assumptions:		Existing ordinances.	Removed septic restrictions. Adjusted to remove buildings from GB and NB for comparison with 2022.	Proposed 2022 ordinance changes. No future development in GR. Adjusted to add buildings to AG.
Agriculture and Resource Protection (AG)	77	74	101	<del>(4)</del> 101
General Business (GB)	2	0	<del>(44)</del> 0	0
Low Density Country Residential (LDCR)	47	16	24	79
New Business (NB)	0	0	<del>(130)</del> 0	
Rural Residential (RR)	218	143	279	0
Suburban Residential (SR)	75	6	9	6
Additional Adjustment <sup>2</sup>	--	-23	-23	--
Total <sup>3</sup>	419	<del>(239)</del> 216	<del>(587)</del> 390	(85) 186

<sup>1</sup>To allow for a more representative comparison between buildout scenarios where development is assumed to occur in the AG zone, potential development in the AG zone was added to the “2022 Ordinance Changes Baseline Buildout”. For simplicity purposes, it was assumed to be the same as that predicted for the “Max Development – LAWPC Lands Remain Protected” scenario that also considered the removal of septic restrictions. The proposed village district rezoning in “Max Development – LAWPC Lands Remain Protected” to convert 59 acres of AG and RR zones to GB and NB zones was also removed. Doing so illustrates the projected increase in development from existing conditions, to buildout conditions under existing zoning, to buildout conditions with relaxed septic system requirements, to buildout conditions under the 2022 proposed zoning. Values removed are shown in gray strikeout with those added shown in bold black font.

<sup>2</sup>There were 23 projected new buildings identified within the 300-foot buffer under the “Business as Usual” and “Max Development – LAWPC Lands Remain Protected” that the 2022 ordinance changes conservatively excluded due to the limitations of using the Table 4D soil profiles. These were removed from the two 2021 buildout scenarios.

<sup>3</sup>FBE’s October 2021 study predicted an additional 174 buildings in Auburn if the septic restrictions are relaxed (390-216=174). This matches closely with the 176 additional buildings estimated in the 2010 CEI buildout with relaxed septic system requirements (Scenario 2). **Assuming further development in the AG zone can occur, the 2022 ordinance changes directly reduced the total number of projected new buildings by 30 in comparison to the “Business as Usual” scenario (216-186=30).** The results show that the rezoning of RR to LDCR offsets the additional building lots allowed from removing the septic restrictions, but to a lesser degree when development in the AG zone is considered.



# MEMORANDUM

TO: Erica Kidd, Watershed Manager, Lake Auburn Watershed  
Protection Commission, Maine

FROM: Rebecca Balke and Eileen Pannetier, Comprehensive  
Environmental Inc.

SUBJECT: **Peer Review of FB Environmental Associates A  
Regulatory, Environmental, and Economic Analysis of  
Water Supply Protection in Auburn, Maine dated October  
2021 and the supplemental Lake Auburn Model Technical  
Memorandum dated August 1, 2022**

JOB NUMBER: 222-5

DATE: **October 17, 2022**

The Lake Auburn Watershed Protection Commission requested CEI to perform a peer review of a recent study and technical memorandum prepared by FB Environmental Associates (FBE) that evaluated local regulatory scenarios and their impact on the water quality of Lake Auburn. The purpose of the review is to evaluate the conclusions drawn as they pertain to development and water quality impacts on Lake Auburn.

The following documents were reviewed by CEI as part of this evaluation:

- A Regulatory, Environmental, and Economic Analysis of Water Supply Protection in Auburn, Maine prepared by FB Environmental Associates, Horsely Witten Group and the University of Maine, dated October 2021.
- Lake Auburn Model Technical Memorandum addressed to Eric Cousens, City of Auburn, prepared by Laura Diemer, FB Environmental Associates, dated August 1, 2022.
- Memo addressed to Eric Cousens, John Blaise prepared by Sid Hazelton, P.E., Superintendent of AWD, dated August 8, 2022.
- Lake Auburn Watershed Management Plan prepared by CEI, dated April 19, 2010.
- Lake Auburn Diagnostic Watershed Study prepared by CEI, dated March 13, 2013.

CEI performed a peer review of the FBE study and subsequent technical memorandum to evaluate the assumptions used to estimate buildout conditions and associated loads under various buildout scenarios and the conclusions drawn from these assumptions as they pertain to the protection of Lake Auburn. This was a qualitative analysis of the information provided and did not involve any modeling.

## CEI Review and Findings

In considering the following findings, CEI would like to reiterate that FBE's 2021 study concluded that Lake Auburn is nearing its assimilative capacity for nutrient load (even with the partial alum treatment) and cannot bear additional nutrient loads without diminishing water quality and its associated benefits. FBE found no net environmental economic, or social benefit supporting expansion of development in the Lake Auburn watershed. FBE also concluded that even if reduced



# MEMORANDUM

development through conservation or other means is achieved in the headwater towns, any additional development in Auburn has an outsized negative impact since its drainage area goes directly to the lake. CEI agrees with these findings.

## **Proposed Zoning Changes<sup>i</sup>**

The Auburn Office of Planning & Permitting prefaced that the approval of the proposed septic requirements must coincide with the adoption of the zoning change that reduces the housing density as this would offset the increase in buildable lots in the watershed allowed with relaxed septic requirements. It also argued that the existing septic requirements encourage people interested in building a home within the watershed boundary to sell easements to their suitable soil site, clustering wastewater disposal systems in a relatively small area where very little wastewater treatment occurs and that it would be better to allow septic systems to be installed on finer textured soils, even if the seasonal groundwater table is shallower than 36 inches.

CEI does not understand what the purpose of the revised septic change is. It is presented as a way to improve treatment of new septic systems by preventing clustering and allowing them to take advantage of the finer textured surface soils. The increased buildable area from the septic systems is then proposed to be offset with changes in zoning density in the RR district, and assuming no new development will occur in the AG district. This was shown to result in less potential development than would occur under the existing zoning regulations. CEI has the following comments and recommendations regarding the proposed zoning changes:

1. It was difficult to compare the various buildout scenarios and their impacts on the lake, as some of the buildout assumptions changed from the 2021 to 2022 study, yet the phosphorus load analysis was not updated to reflect these changes and true differences in loads. The change in phosphorus load and impact on the lake should consistently reflect final assumptions for comparison. All buildout analysis should be updated to show phosphorus loads using consistent assumptions.
2. The final analysis ignores potential development in the AG district, including the increased buildable area from the revised septic regulations. It is unlikely that no additional development will occur in the AG district, even given the existing restrictions on development and the suggestion of changes to prevent new agriculture in the watershed. There is nothing preventing future development from occurring in this district and relaxing the septic system requirements increases the potential buildable area in this district.
3. Relaxing the septic system regulations opens the door for future development in the AG district. If the desired outcome of the proposed 2022 ordinance changes is a reduction in potential developable sites and better treatment of septic systems, there are other ways to achieve the same goal without relaxing the septic requirements and without creating potential new buildable areas. CEI recommends that the following alternatives be evaluated:
  - a. Maintain the existing depth restrictions, but allow for amendment of sandy soils to provide better treatment. This prevents expansion of buildable areas while



# MEMORANDUM

- improving the treatment capabilities of septic systems in sandy soils. Why introduce new buildable areas at all if the focus is to reduce development;
- b. Allow only one septic system per lot to avoid clustering;
- c. Prohibit development within the 300-foot buffer of waters considering septic systems closest to the lake pose the greatest risk of passing contaminants such as nutrients, pathogens, and viruses. This removes some of the uncertainty of the models in the most critical areas of the watershed;
- d. Continue with zoning to reduce the density of development (e.g., RR to LDCR).

## **Gracelawn Road Area Boundary Change**

CEI did not review the referenced hydrogeologic studies as part of this evaluation. The only information provided was in the October 2021 FBE study, which includes Figure 3-1 showing the mapped groundwater contours taken from one of the hydrogeologic studies. The map does appear to support that groundwater in the area is artificially mounded as a result of the gravel pit and landfill, with the majority flowing away from the lake. However, CEI cautions the City from discounting this area from the watershed entirely, particularly under a future development scenario. Depending on how the sand and gravel pit is restored and developed, the mounding could be eliminated with the groundwater flows returning to their more natural regional flow pattern where the area could contribute to Lake Auburn. This requires a more detailed evaluation of potential development scenarios and their impact on both localized groundwater and surface water runoff.

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<sup>1</sup> Following is a summary of proposed zoning changes to modify the septic system requirements and decrease zoning density:

- a. Relaxing septic system requirements to allow for septic systems where there is less than 12 inches to the limiting factor (e.g., seasonal groundwater table, bedrock, or other impervious layer) and with at least 24 inches of suitable natural soil or fill material below the bottom of the disposal field to result in a 36-inch separation between the bottom of the disposal field and the limiting factor.
- b. Defining sandy or gravelly soil as sand or gravel outwash or stratified drift as shown on table 4D (profiles 5 or 6 and some 11) of the State of Maine Subsurface Wastewater Disposal Rules 10-144 Chapter 241 and prohibiting installation of septic system in these soils within 400 feet to the normal high-water mark (vs. 300-feet).
- c. Rezoning the Rural Residential (RR) district to Low Density County Residential (LDCR) district, increasing the lot size from 1 to 3 acres and decreasing the potential number of homes that can be developed.
- d. While not a proposed ordinance change, FBE made adjustments in its assumptions for the Agriculture and Resource Protection (AG) zone in its August 1, 2022 memorandum to assume no new development would occur in the AG zone due to the existing restrictive standards. The October 11, 2022 memorandum from the City of Auburn Office of Planning & Permitting regarding the Public Hearing and map amendments from RR to LDCR also mentioned that “Modifying the Agriculture and Resource Protection Zone within the Lake Auburn Watershed Overlay District to prevent new agriculture would protect forested area and prevent additional phosphorus loading.”





# City Council Resolve

## IN CITY COUNCIL

**Whereas** the City of Auburn is experiencing tremendous demand upon existing housing stock causing values to significantly increase.

**Whereas** the City of Auburn, State of Maine and most parts of the United States is experiencing a significant housing shortage.

**Whereas** the City of Auburn has over 20,000 acres of under or undeveloped land, with a significant percentage serviced by some infrastructure such as roads, trash, police, and fire protection, which is on average more served than similar rural communities.

**Whereas** there are certain impediments that are restricting natural growth of homes on this privately held land within the Agriculture and Resource Protection Zone or within an arbitrary residential strip of 300' in depth.

**Whereas** the City of Auburn Planning Department has received numerous requests to petition to Planning Board to change zoning in order to construct a residence, these numerous requests must be heard but will produce a significant burden upon staff and Planning Bboard.

**Whereas** the 2018 third party Cross Roads study of the viability of our rural land recommended elimination of the income standard as a condition to build a residence.

**Whereas** the income standard was not repealed but modified from 50% of a family's income to 30% of an individual's income being derived from agriculture activities as a condition to build a residence in 2019 without any increase in number of new farms created.

**Whereas** the Comprehensive plan of 2021 states "it is understood that agriculture and forestry may not be profitable in some areas of the city and the existing Agriculture and Resource Protection zoning, in some cases, eliminates the economic use of private land."

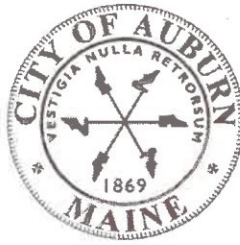
**Whereas** LD 2003 allows the building of 2 units on a parcel located in an area that allows residences. This State law supersedes local ordinance and will be in effect in July of 2023.

**Whereas** the Lake Auburn Watershed requires conservation measures to protect Lake Auburn and therefore the greater good supersedes the individual's economic benefits unless those within the watershed petition the Planning Board directly for a zone change and can

**Richard Whiting**, Ward One  
**Joseph Morin**, Ward Four  
**Belinda A. Gerry**, At Large

**Ryan Hawes**, Ward Two  
**Leroy G. Walker**, Ward Five  
**Jason J. Levesque**, Mayor

**Stephen G. Milks**, Ward Three  
**Dana Staples**, At Large  
**Phillip L. Crowell, Jr.**, City Manager



## City Council Resolve

demonstrate that any development will not negatively impact the regions primary source of drinking water.

**Therefore, be it resolved that** the City Council directs the Planning Board after consultation from the Sustainability and Natural Resource Management Board to provide an opinion and deliver recommendations to the City Council no later than March 20, 2023 ~~December 15<sup>th</sup>, 2022~~, on whether or not to eliminate the income standard and the current strip zoning limitations in all areas outside of the Lake Auburn Watershed overlay.

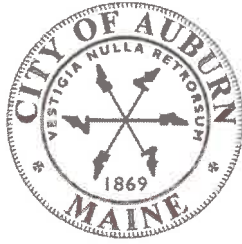
Passage on 9/6/2022 as amended, 5-3 (Councilors Gerry, Whiting, and Staples opposed).

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**Richard Whiting**, Ward One  
**Joseph Morin**, Ward Four  
**Belinda A. Gerry**, At Large

**Ryan Hawes**, Ward Two  
**Leroy G. Walker**, Ward Five  
**Jason J. Levesque**, Mayor

**Stephen G. Milks**, Ward Three  
**Dana Staples**, At Large  
**Phillip L. Crowell, Jr.**, City Manager



**Order 151-11072022**

# City Council Order

## IN CITY COUNCIL

**Whereas** City of Auburn Council passed resolve 06-09062022.

**Whereas** the City of Auburn Council intended the resolve to begin an ordinance text amendment process that would deliver a Planning Board recommendation back to Council by March 20, 2023, however, actual text to be considered was not included in the resolve.

**Therefore, be it ordered that** the City Council directs the Planning Board after consultation from the Sustainability and Natural Resource Management Board to provide an opinion and deliver recommendations to the City Council no later than March 20, 2023, on whether or not to eliminate the income standard and the current strip zoning limitations in all areas outside of the Lake Auburn Watershed overlay as an ordinance text amendment considering the attached proposed text changes.

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**Richard Whiting**, Ward One  
**Joseph Morin**, Ward Four  
**Belinda A. Gerry**, At Large

**Ryan Hawes**, Ward Two  
**Leroy G. Walker**, Ward Five  
**Jason J. Levesque**, Mayor

**Stephen G. Milks**, Ward Three  
**Dana Staples**, At Large  
**Phillip L. Crowell, Jr.**, City Manager

PART II - CODE OF ORDINANCES  
Chapter 60 - ZONING  
ARTICLE XII. - ENVIRONMENTAL REGULATIONS  
DIVISION 4. LAKE AUBURN WATERSHED OVERLAY DISTRICT

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***DIVISION 4. LAKE AUBURN WATERSHED OVERLAY DISTRICT***

**Sec. 60-950. Purpose.**

The Lake Auburn Watershed District is intended to maintain safe and healthful environmental conditions; prevent and control water pollution; protect spawning ground for fish, aquatic life, bird and other wildlife habitats; control building sites; provide visual and physical points of access to waters and natural beauty; and protect and maintain the present quality and volume of potable water supplied from the Lake Auburn Watershed to the population of the Auburn-Lewiston area.

(Ord. of 9-21-2009, § 5.3A)

**Sec. 60-951. Boundaries and definitions.**

The Lake Auburn Watershed District is that section of the city in which surface and subsurface waters ultimately flow or drain into Lake Auburn as such section is delineated on a watershed map and survey by the city water district on file in the office of the city water district, the city department of planning and permitting services and the city clerk. The Lake Auburn Watershed District shall be superimposed over underlying districts within such section. Permitted uses in the underlying districts shall continue subject to compliance with the provisions of the Lake Auburn Watershed District.

(Ord. of 9-21-2009, § 5.3B)

**Sec. 60-952. Use and environmental regulations.**

- (a) *Agricultural uses.* All uses of land for chicken farms, cattle farms, horse farms, egg farms, piggeries, sheep farms, stables, crop farming and other agricultural purposes shall be subject to the approval of the city water district. Such approval shall be granted upon a showing that such uses will not cause groundwater contamination or contaminate or disturb the normal course of surface water runoff.
- (b) ~~New Residential dwellings in the agriculture and resource protection zoning district are prohibited in the Lake Auburn Watershed. Notwithstanding subsections 60-145(a)(1), 60-145(b)(18) and 60-146(1)(c), one family detached dwellings are only permitted in the Lake Auburn Watershed District on parcels containing no less than ten acres, provided that the dwelling is accessory to farming operations and subject to the following restriction: at least 50 percent of the total annual household income of the farm occupants living in the farm residence will be derived from farm uses.~~

# **AUBURN WATER DISTRICT 2023 BUDGET**

**DRAFT - November 10, 2022**

**Trustees:**

**Stephen Milks, President and Mayor's Rep  
Andrew Titus, Treasurer  
Kevin Arei  
Dan Bilodeau  
Robert Cavanagh  
Eric Gould  
Jason Pawlina**

**Officers:**

**Sid Hazelton, Superintendent  
Mike Broadbent, Asst Superintendent  
Tanya Dunn, Financial Manager**



## AUBURN WATER DISTRICT

## 2023 Budget

	Actual 2020	Actual 2021	Budget 2022	PROJECTED 2022	BUDGET 2023	Notes
Residential	\$1,742,626	\$1,773,960	\$1,736,945	\$1,787,551	\$1,787,551	Assumes 0% increase from Growth/Usage
Commercial	\$543,610	\$595,196	\$576,052	\$591,918	\$591,918	Assumes 0% increase from Growth/Usage
Industrial	\$325,059	\$344,289	\$332,464	\$374,211	\$374,211	Assumes 0% increase from Growth/Usage
Public Authorities	\$164,433	\$170,828	\$161,338	\$179,676	\$179,676	Assumes 0% increase from Growth/Usage
Seasonal	\$14,607	\$15,560	\$15,354	\$18,087	\$18,087	Assumes 0% increase from Growth/Usage
<b>Total Metered Water Sales</b>	<b>\$2,790,334</b>	<b>\$2,899,833</b>	<b>\$2,822,151</b>	<b>\$2,951,442</b>	<b>\$2,951,442</b>	<b>0.0%</b>
Rents from Property	73,720	74,309	74,838	77,014	80,424	Rent on Towers (Cell) at Current rates
Interest Income	11,093	13,295	10,134	11,554	11,554	Interest Income, Finance Fees
Merchandise & Jobbing, Net	57,500	63,937	45,669	46,000	55,812	Shown NET starting 2017, 3yr avg
Public Fire Protection	765,075	749,633	817,781	817,782	817,781	Public Hydrant Charges including Poland
Private Fire Protection	427,480	444,743	438,047	444,027	444,027	Private Fire Customers
Other Revenues	89,018	76,959	81,738	94,031	96,852	ASD meter reads, LWD Motive Water, Misc Fees
<b>Total Revenues</b>	<b>\$4,214,220</b>	<b>\$4,322,709</b>	<b>\$4,290,359</b>	<b>\$4,441,850</b>	<b>\$4,457,892</b>	<b>0.4%</b>
<b>Payroll</b>	<b>852,135</b>	<b>803,683</b>	<b>873,909</b>	<b>927,844</b>	<b>1,039,534</b>	Implement Salary Survey, Retention Bonus
Employee Benefits	380,844	431,243	399,462	385,304	433,071	See Schedule - Includes 0% increase in health
UV Treatment Plant	292,122	273,842	313,244	368,440	398,760	See Backup Schedule
Chloramine Facility	4,706	6,148	5,749	17,327	17,704	See Backup Schedule
Laboratory	36,583	23,592	49,658	41,810	42,756	See Backup Schedule
Transmission/Distribution	164,243	209,662	206,579	239,523	241,028	See Backup Schedule
Administration	180,865	155,490	187,063	216,694	224,678	See Backup Schedule
Vehicle Maintenance	86,748	116,597	111,089	106,947	117,826	See Vehicle Details
Gull Management	74,029	86,230	66,685	63,320	63,320	50% shared cost with Lewiston
Watershed Protection	58,618	74,550	78,250	73,383	85,000	See Watershed Budget
Interest Payments	133,503	125,215	101,939	127,171	152,195	See Debt Schedules
<b>Total Expenses</b>	<b>\$2,264,395</b>	<b>\$2,306,250</b>	<b>\$2,393,627</b>	<b>\$2,567,763</b>	<b>\$2,815,872</b>	<b>9.7%</b>
<b>Net from Operations</b>	<b>\$1,949,825</b>	<b>\$2,016,459</b>	<b>\$1,896,732</b>	<b>\$1,874,087</b>	<b>\$1,642,020</b>	
Bond Payments - Principal	774,655	786,916	547,446	547,446	753,709	See Debt Schedules
<b>Surplus from Operations</b>	<b>\$1,175,170</b>	<b>\$1,229,542</b>	<b>\$1,349,285</b>	<b>\$1,326,640</b>	<b>\$888,311</b>	
General Equipment	110,747	59,567	116,580	116,580	115,599	See Equipment Details
Capital Projects	245,496	800,688	1,390,400	1,390,400	660,280	See Capital Details
<b>Change in Cash after Capital</b>	<b>\$818,926</b>	<b>\$369,287</b>	<b>(\$157,695)</b>	<b>(\$180,340)</b>	<b>\$112,432</b>	
<b>Total Expenses</b>	<b>3,149,797</b>	<b>3,152,734</b>	<b>3,057,653</b>	<b>3,231,789</b>	<b>3,685,180</b>	Total Expenses, Bond Payments, General Equipment

## AUBURN WATER DISTRICT

## 2023 Budget

UV TREATMENT PLANT					Notes	
	Actual 2020	Actual 2021	Budget 2022	PROJECTED 2022	BUDGET 2023	
Treatment Chemicals	\$85,953	\$118,072	\$97,074	\$123,241		167,701 Chlorine, Fluoride, Polyphosphate, CO2 - (Net of Lewiston)-Using Current Prices
Power	85,080	60,675	107,900	113,282		113,282 Electricity for pumping water, UV Power & Pumps (Net of Lewiston)
Contracted Maintenance	102,284	80,097	89,489	112,282		98,221 Repairs, Gilman, Eaton Services, Chlorine Analyzers, Ph Conductivity Probe, Calgon (3 y
Materials & Supplies	6,556	2,976	5,861	5,520		5,018 Analyzer Reagents, Buffers, Seals, Etc - 3yr avg
Propane	12,248	12,021	12,920	14,115		14,539 Propane at UV Treatment Plant
<b>TOTAL:</b>	<b>\$292,122</b>	<b>\$273,842</b>	<b>\$313,244</b>	<b>\$368,440</b>	<b>\$398,760</b>	
<b>CHLORAMINE FACILITY</b>						
Power	2,656	3,024	3,116	4,762		4,762 Electricity for pumping water
Propane	348	518	500	942		970 Propane at Chloramine Facility
All Other	1,702	2,606	2,133	11,623		11,972 Supplies, Maintenance, Oxford Networks
<b>TOTAL:</b>	<b>\$4,706</b>	<b>\$6,148</b>	<b>\$5,749</b>	<b>\$17,327</b>	<b>\$17,704</b>	
<b>LAB</b>						
Contracted Services	26,675	21,283	35,000	34,131		35,000 Contracted Lab Work, HETL, Bates College
Supplies	9,908	2,309	14,658	7,679		7,756 HACH, Idexx, VWR Supplies for Internal Lab - 3yr avg
<b>TOTAL:</b>	<b>\$36,583</b>	<b>\$23,592</b>	<b>\$49,658</b>	<b>\$41,810</b>	<b>\$42,756</b>	
<b>TRANSMISSION/ DISTRIBUTION</b>						
Maint of Mains	\$43,365	\$43,239	\$78,430	\$112,732		\$100,000 Materials & Supplies, Paving, Dig Safe, Misc (3 year avg)
Dist System - Power	12,767	13,811	13,758	19,621		\$19,621 Power - Court Street, Reservoirs
Dist System - Fuel, Misc	26,138	53,810	30,292	29,337		36,428 Propane for Buildings - Utiliti, Other Misc Maint (3 year avg)
Dist System - Services	6,411	17,357	11,094	15,050		15,200 All materials for repairs & maintenance of services
Dist System - Meters	2,402	3,313	4,595	4,191		4,233 All materials for repairs & maintenance of meters
Dist System - Hydrants	10,844	20,273	11,526	9,834		13,650 All materials for repairs & maintenance of hydrants
Dist System - All Other	1,718	7,510	5,622	3,559		4,263 Cell Phones, ROWs, Other Misc, GIS License w/City
Dist System - Dues & Training	22,514	28,780	23,212	22,656		24,650 Assoc. Dues, Training & Subscriptions. (3 year avg)
Other - Misc	27,787	10,436	15,440	11,949		12,308 SCADA, GIS, WO System Maint, Phone, Mowing
Other - Building Maint	10,298	11,134	12,610	10,594		10,675 Office (Blisson), Repairs (Thayer), Sprinklers, Trash
<b>TOTAL:</b>	<b>\$164,243</b>	<b>\$209,662</b>	<b>\$206,579</b>	<b>\$239,523</b>	<b>\$241,028</b>	

## AUBURN WATER DISTRICT

## 2023 Budget

	Actual 2020	Actual 2021	BUDGET 2022	PROJECTED 2022	BUDGET 2023	Notes
<b>ADMINISTRATION</b>						
Employer FICA Payments	75,039	77,721	82,988	87,855	98,160	Wages x 7.65%
Unemployment Insurance	54	934	1,118	180	181	Maine Municipal
MSRS Retirement	10,738	11,506	11,521	12,686	12,813	ME-PERS
ICMA (401 Plan) Retirement	58,037	50,448	52,656	58,077	63,594	6% rate for participants
Misc. & Clothing Allowance	10,560	6,843	9,250	9,250	9,250	Clothing, Misc, Training
Shared EE w/Lewiston	3,388	2,796	2,803	2,636	2,715	LWD SCADA Tech
Health Insurance	260,344	239,409	292,681	263,232	295,455	0% Increase, HRA Account at 37% of exposure & UNUM Life
Billed TO Lewiston	(40,554)	41,587	(41,449)	(48,612)	(49,098)	Watershed Manager, AWD SCADA, UV Plant Manager
Billed TO ASD	(14,807)	0	(12,106)	0	0	Billed to Auburn Sewer Monthly - 2021 Charged charge out process
<b>Sub-Total EE Benefits</b>	<b>362,800</b>	<b>431,243</b>	<b>399,462</b>	<b>385,304</b>	<b>433,071</b>	
Legal & Audit	16,983	22,525	30,000	62,577	70,000	Audit (RHR Smith), Legal
Customer Billing & Accounting	24,856	20,838	26,401	26,749	27,016	NDS - Software, Postage & Bills, Bad Debts
Vehicle Insurance	10,632	10,704	10,733	10,958	11,287	Automobile Insurance, all vehicles/ MMA
Liability & Property Insurance	16,036	16,446	16,984	15,158	15,613	Liability, Fire, & Umbrella Insurance/MMA
Workmen's Compensation	29,130	12,548	26,125	25,004	22,228	Net of Reimbursements, Dividends - 3yr avg
Other Insurances	14,422	11,930	11,745	13,591	13,999	Directors & Officers Insurance/ MMA
Regulatory Expenses	26,903	26,222	27,603	28,681	29,541	MPUC, Public Advocate & DWP Annual Fees
Electricity	1,860	1,734	1,903	1,817	1,871	Power for Office Building
Supplies	5,185	3,549	4,887	1,771	1,824	Paper, computer supplies, & forms
Machine Maintenance & Lease	1,009	1,849	2,139	1,403	1,445	Contracts for computer/copier/fax/postage
Telephone	3,030	3,440	3,584	3,389	3,490	Office telephone lines/internet
Miscellaneous	30,818	23,704	24,959	25,595	26,363	Other Misc, Bank Fees, Answering Service, Dues, System Assessment & Studies,
<b>TOTAL:</b>	<b>\$543,665</b>	<b>\$586,732</b>	<b>\$586,525</b>	<b>\$601,998</b>	<b>\$657,749</b>	



## AUBURN WATER DISTRICT

## 2023 Budget

<u>BONDS &amp; NOTES</u>	<u>Actual</u>	<u>Actual</u>	<u>BUDGET</u>	<u>Projected</u>	<u>BUDGET</u>	<u>Projected</u>	<u>Projected</u>	<u>Projected</u>
	2020	2021	2022	2022	2023	2024	2025	2026
Principal	\$774,655	\$786,916	\$547,446	\$547,446	\$753,709	\$759,291	\$765,238	\$709,464
Interest	\$133,503	\$137,189	\$101,939	\$127,171	\$152,195	\$138,855	\$125,283	\$110,590
<b>TOTAL:</b>	<b>\$908,158</b>	<b>\$924,106</b>	<b>\$649,386</b>	<b>\$674,618</b>	<b>\$905,904</b>	<b>\$898,146</b>	<b>\$890,521</b>	<b>\$820,054</b>

CURRENT BONDED INDEBTEDNESS:

<u>Issue Date</u>	<u>Balance</u>	<u>Principal</u>	<u>Interest</u>	<u>Term</u>	<u>Interest</u>	<u>Notes</u>
1-Dec-07	\$188,673	\$36,552	\$4,981	20 years	1.59%	Little Androscooggin River 24" Main
18-Jun-08	\$163,245	\$26,369	\$3,288	20 years	1.25%	Clean & Line Mains
20-May-09	\$770,413	\$118,525	\$5,926	20 years	0.00%	UV Phase I, Phase II Design, Rehab Mains
20-May-09	\$372,371	\$57,288	\$2,864	20 years	0.00%	UV Phase I, Phase II Design, Rehab Mains
28-Oct-10	\$1,291,274	\$145,328	\$40,857	20 years	4.50%	UV Phase II & Meter Replacement
28-Oct-10	\$192,323	\$65,108	\$4,442	15 years	1.00%	Refinance Old Bonds (1994, 1998, 2005)
10-Dec-10	\$159,008	\$19,191	\$2,629	20 years	1.00%	Chloramination Facility
23-Apr-14	\$660,880	\$45,957	\$23,419	20 years	4.08%	Main Replacements, Lake Treatment Study
9-Aug-19	\$242,336	\$39,392	\$4,953	10 years	1.00%	Alum Treatment, General Improvements
19-May-22	\$2,000,000	\$200,000	\$58,320	10 years	3.02%	Capital Work, General Improvements
<b>TOTAL CURRENT BONDS:</b>	<b>\$6,040,521</b>	<b>\$753,709</b>	<b>\$151,680</b>			

## AUBURN WATER DISTRICT - LONG TERM DEBT PAYMENT SCHEDULE

Year	2008 (a)		2008 (b)		2009 (a)		2009 (b)		2010-ROFI		2010-Chloramines		2010-UV-Memrs		2014-A-Lake or T&D		2019-Alum		2022-T&D Upgrades		TOTAL	
	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest
2002																						
2003																						
2004																						
2005																						
2006																						
2007	28,842.00	8,879.50	0.00	1,895.86	8,750.00	437.50	8,750.00	437.50														
2008	29,300.00	12,232.72	22,160.00	7,525.18	17,500.00	875.00	17,500.00	875.00	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2009	29,768.00	11,766.34	22,437.00	7,246.35	17,500.00	875.00	17,500.00	875.00	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2010	30,241.00	11,292.41	22,718.00	6,964.07	17,500.00	875.00	17,500.00	875.00	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2011	30,722.00	10,810.64	23,002.00	6,678.23	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2012	31,212.00	10,321.88	23,289.00	6,388.79	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2013	31,706.00	9,824.69	23,580.00	6,095.75	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2014	32,213.00	9,320.15	23,875.00	5,799.07	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2015	32,710.00	8,807.32	24,174.00	5,488.70	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2016	33,210.00	8,293.36	24,474.00	5,184.49	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2017	33,710.00	7,757.00	24,769.00	4,888.58	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2018	34,210.00	7,216.30	25,061.00	4,574.73	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2019	34,710.00	6,673.05	25,353.00	4,259.05	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2020	35,210.00	6,118.08	25,644.00	3,939.42	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2021	35,710.00	5,554.21	25,933.00	3,615.75	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2022	36,210.00	4,981.44	26,222.00	3,293.03	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2023	36,710.00	4,408.54	26,511.00	2,968.30	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2024	37,210.00	3,836.55	26,800.00	2,643.32	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2025	37,710.00	3,260.35	27,089.00	2,318.19	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2026	38,210.00	2,687.86	27,378.00	1,993.80	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2027	38,710.00	2,111.86	27,667.00	1,669.39	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2028	39,210.00	1,537.86	27,956.00	1,344.52	118,525.00	5,928.20	57,287.76	2,864.38	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2029	39,710.00	957.09	28,244.00	1,019.13	58,262.50	2,903.13	28,844.20	1,432.18	238,107.63	57,193.24	17,030.74	4,034.35	108,835.00	77,995.19	40,900.65	26,474.72	38,233.00	8,018.33	20,000.00	58,320.00	182,271.00	33,504.80
2030																						
2031																						
2032																						
2033																						
2034																						
TOTAL	673,000.00	153,859.04	500,000.00	85,726.73	2,189,450.00	108,422.88	1,086,160.00	53,308.84	1,963,814.43	265,286.36	375,000.00	80,641.02	2,800,000.00	937,053.11	1,000,000.00	43,351.48	2,000,000.00	380,824.00	10,646,084.27	3,559,124.50	20,205,622.93	

	2020 Actual	2021 Actual	2022 Budget	Estimated 2022	2023 Budget
<b>Expenditures:</b>					
Auburn Water District	6,755.35	5,191.00	6,000.00	5,575.00	6,000.00
Lewiston Water Division	4,281.50	8,991.17	6,000.00	6,000.00	6,000.00
Executive Administration	62.49	0.00	750.00	0.00	550.00
Source Protection Management	111,806.99	41,198.99	63,250.00	30,495.00	63,150.00
Forestry	4,895.00	10,064.59	4,500.00	7,050.00	3,500.00
Outside Services	3,325.00	3,435.00	3,325.00	3,325.00	3,325.00
Sanitary Facilities	3,680.00	2,680.00	3,760.00	3,095.00	3,760.00
Repairs to Property & Equipment	2,454.77	3,252.94	6,000.00	4,625.58	3,800.00
Public Education	15,411.53	18,181.24	35,695.00	29,639.00	41,140.00
Insurances	11,446.08	12,075.47	11,650.00	11,645.00	12,000.00
Legal	127.50	6,454.50	4,000.00	12,000.00	10,500.00
Audit/Financial Services	6,441.26	6,595.26	6,695.00	7,190.00	7,395.00
Property Taxes	4,710.32	4,515.20	4,625.00	3,995.00	4,165.00
Operational Supplies	2,201.62	1,999.73	1,000.00	625.00	1,000.00
Interest Expense	-	0.00	0.00	0.00	0.00
Depreciation/Amortization Expense	-	0.00	0.00	0.00	0.00
Miscellaneous	864.76	435.49	950.00	685.00	850.00
<b>Total Operating Expenditures</b>	<b>178,464.17</b>	<b>125,070.58</b>	<b>158,200.00</b>	<b>125,944.58</b>	<b>167,135.00</b>
<b>Capital Expenditures:</b>					
Forestry Management Plan					20,000.00
Pontoon Boat & Accessories - Year 1 of 2			25,000.00		25,000.00
<b>Total Capital Expenditures</b>	<b>-</b>	<b>-</b>	<b>25,000.00</b>	<b>-</b>	<b>45,000.00</b>
<b>Total Expenditures</b>	<b>178,464.17</b>	<b>125,070.58</b>	<b>183,200.00</b>	<b>125,944.58</b>	<b>212,135.00</b>
<b>Revenues:</b>					
Contributions - AWD	40,000.00	52,500.00	58,250.00	58,250.00	60,000.00
Contributions - LWD	40,000.00	52,500.00	58,250.00	58,250.00	60,000.00
Fund Balance Carryforward	94,807.97	-	50,665.00	-	88,100.00
Sale of Timber/Assets	-	98,340.56	14,000.00	28,563.00	2,000.00
Intergovernmental	2,000.00	2,200.00	2,000.00	2,250.00	2,000.00
Interest	1,656.20	344.82	35.00	35.00	35.00
All Other Misc	-	-	-	-	-
<b>Total Revenues</b>	<b>178,464.17</b>	<b>205,885.38</b>	<b>183,200.00</b>	<b>147,348.00</b>	<b>212,135.00</b>
<b>Surplus</b>	<b>0.00</b>	<b>80,814.80</b>	<b>0.00</b>	<b>21,403.42</b>	<b>0.00</b>
<b>Total contributions from each entity:</b>					
Operations	40,000.00	52,500.00	58,250.00	58,250.00	60,000.00
Source Water Protection Sinking F	25,000.00	22,500.00	20,000.00	20,000.00	25,000.00
	<b>65,000.00</b>	<b>75,000.00</b>	<b>78,250.00</b>	<b>78,250.00</b>	<b>85,000.00</b>
					<b>8.63%</b>
Water Withdrawal Revenue	7,282.68	4,421.45	4,000.00	387.00	-
Accumulative Balance	10,184.49	14,605.94	18,184.49	14,992.94	14,992.94

# Payroll Summary

AUBURN WATER DISTRICT		2022	2022	2023
		Budget	Projected	PROPOSED
Base Salaries & Wages		929,892	1,086,920	1,126,081
Overtime (based on historical)		49,210	65,162	71,411
Stand-By Duty Pay		31,507	47,232	51,762
Temporary/Summer Help		11,588	5,267	5,267
Potential Discretionary Step Increases in Pay Plan		8,219	0	7,780
Reimbursement from LWD for Watershed Mgr		(38,063)	(37,752)	(39,759)
Reimbursement from LWD for SCADA Tech		(27,958)	(35,449)	(41,371)
Reimbursement from LWD for UV Plant Mgr		(46,125)	(41,653)	(49,785)
Payment to LWD for SCADA Tech		10,200	17,020	23,310
COLA		56,244	0	0
Retainer Bonus		54,400	0	34,000
Potential Retirement Pay-out		0	0	20,838
<b>TOTAL:</b>		<b>\$1,039,114</b>	<b>\$1,106,746</b>	<b>\$1,209,534</b>

AUBURN SEWERAGE DISTRICT		2022	2022	2023
		Budget	Projected	PROPOSED
Base Salaries & Wages		445,945	442,479	518,120
Overtime (based on historical)		7,097	11,116	12,182
Stand-By Duty Pay		9,200	7,730	8,472
Temporary/Summer Help		3,909	140	140
Potential Discretionary Step Increases in Pay Plan		3,079	0	3,141
Payment to LWD for SCADA Tech		10,200	17,020	23,310
COLA		26,567	0	0
Retainer Bonus		25,600	0	16,000
Potential Retirement Pay-out		0	0	20,838
<b>TOTAL:</b>		<b>\$531,597</b>	<b>\$478,485</b>	<b>\$602,202</b>
<b>Combined Water &amp; Sewer =</b>		<b>\$1,570,711</b>	<b>\$1,585,232</b>	<b>\$1,811,736</b>

Allocation of Gross Labor:

Water	\$1,209,534
To Projects	(100,000)
To Jobbing	(25,000)
To Vehicles	(30,000)
To Watershed	(15,000)
Net to Payroll	\$1,039,534

Allocation of Gross Labor:

Sewer	\$602,202
To Projects	(75,000)
To Jobbing	(1,000)
Net to Payroll	\$526,202

66.76%

33.24%

# Health Insurance Summary

CURRENT (2021) Health Insurance Cost									
PLAN = PPO-2000									
Employee	District	Plan	Monthly Total Premium	Monthly Employee Cost	Monthly District Cost	Monthly Total Premium	Monthly Employee Cost	Monthly District Cost	Monthly Life District Cost
1 AWD	1 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$18.00
2 AWD	2 AWD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$17.00
3 AWD	3 AWD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$21.00
4 AWD	4 AWD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
5 AWD	5 AWD	Emp & Sp.	\$1,489.44	\$223.42	\$1,266.02	\$1,489.44	\$223.42	\$1,266.02	\$21.00
6 AWD	6 AWD	Opted Out	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.00
7 AWD	7 AWD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$34.00
8 AWD	8 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$32.00
9 AWD	9 AWD	Emp & Sp.	\$1,489.44	\$223.42	\$1,266.02	\$1,489.44	\$223.42	\$1,266.02	\$20.00
10 AWD	10 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$25.00
11 AWD	11 AWD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$21.00
12 AWD	12 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$34.00
13 AWD	13 AWD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$25.00
14 AWD	14 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$17.00
15 AWD	15 AWD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$20.00
16 AWD	16 AWD	Emp & Child	\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$15.00
17 AWD	17 AWD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
18 ASD	1 ASD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$12.00
19 ASD	2 ASD	Emp & Sp.	\$1,489.44	\$221.30	\$968.14	\$1,489.44	\$221.30	\$968.14	\$21.00
20 ASD	3 ASD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$16.00
21 ASD	4 ASD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$16.00
22 ASD	5 ASD	EE	\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
23 ASD	6 ASD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$35.00
24 ASD	7 ASD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$20.00
25	8 ASD	Family	\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$18.00
MONTHLY EXPENSE:			\$37,970.16	\$5,993.41	\$31,976.75	\$37,970.16	\$5,993.41	\$31,976.75	
ANNUAL EXPENSE:			\$455,641.92	\$71,920.94	\$383,720.98	\$455,641.92	\$71,920.94	\$383,720.98	
			ASD Annual share:	37.6%	\$144,426.73	ASD Annual share:	38.1%	\$149,349.39	
			AWD Annual Share:	62.4%	\$239,294.24	AWD Annual Share:	61.9%	\$243,686.24	
			TOTAL:		\$383,720.98	TOTAL:		\$393,535.63	
PROJECTED (2022) Cost with Cross/Anthem Balance Funded									
PLAN = PPO-2000									
100.00%									
			Monthly Total Premium	Monthly Employee Cost	Monthly District Cost	Monthly Total Premium	Monthly Employee Cost	Monthly District Cost	Monthly Life District Cost
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$18.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$17.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$21.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
			\$1,489.44	\$223.42	\$1,266.02	\$1,489.44	\$223.42	\$1,266.02	\$21.00
			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$34.00
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$32.00
			\$1,489.44	\$223.42	\$1,266.02	\$1,489.44	\$223.42	\$1,266.02	\$20.00
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$25.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$21.00
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$34.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$25.00
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$17.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$20.00
			\$1,378.23	\$206.73	\$1,171.50	\$1,378.23	\$206.73	\$1,171.50	\$15.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
			\$1,489.44	\$221.30	\$968.14	\$1,489.44	\$221.30	\$968.14	\$12.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$21.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$16.00
			\$748.15	\$112.22	\$635.93	\$748.15	\$112.22	\$635.93	\$16.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$35.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$20.00
			\$2,304.84	\$345.73	\$1,959.11	\$2,304.84	\$345.73	\$1,959.11	\$18.00
			\$37,970.16	\$5,993.41	\$31,976.75	\$37,970.16	\$5,993.41	\$31,976.75	
			\$455,641.92	\$71,920.94	\$383,720.98	\$455,641.92	\$71,920.94	\$383,720.98	
			ASD Annual share:	37.6%	\$144,426.73	ASD Annual share:	38.1%	\$149,349.39	
			AWD Annual Share:	62.4%	\$239,294.24	AWD Annual Share:	61.9%	\$243,686.24	
			TOTAL:		\$383,720.98	TOTAL:		\$393,535.63	
Set Up HRA Account									
			6 Single (EE)		\$5,000.00			\$30,000.00	
			10 Emp/Sp/Child		\$10,000.00			\$100,000.00	
			9 Family		\$10,000.00			\$90,000.00	
			HRA Fees - AWD		\$1,364.00			\$1,364.00	
			HRA Fees - ASD		\$836.00			\$836.00	
			Total =		\$22,200.00			\$222,200.00	
Worst Case - 100% Utilization									
								\$222,200.00	
								\$393,535.63	
								\$615,735.63	
ASD Cost: 38.1%									
								\$234,458.08	
								\$381,277.55	
								\$615,735.63	
TOTAL PLAN COST:									
								\$30,995.26	
								\$50,404.74	
								\$81,400.00	
Estimates based on 37% HRA Utilization									
								\$181,680.65	
								\$295,454.98	
								\$477,135.63	
TOTAL PLAN COST:									
								\$181,680.65	
								\$295,454.98	
								\$477,135.63	
2020 PPO 2000 Plan - Actual									
			ASD Annual share:	36.4%	\$148,946.94				
			AWD Annual Share:	63.6%	\$260,343.59				
			TOTAL:		\$409,290.53				
2021 Balance Funded Plan - Actual									
			ASD Annual share:	35.7%	\$150,868.03				
			AWD Annual Share:	64.3%	\$271,465.18				
			TOTAL:		\$422,333.21				
2022 Balance Funded Plan - Forecast									
			ASD Annual share:	34.8%	\$147,050.68				
			AWD Annual Share:	65.2%	\$275,278.28				
			TOTAL:		\$422,328.96				
2023 Balance Funded - Budget									
			ASD Annual share:	36.1%	\$181,680.65				
			AWD Annual Share:	61.9%	\$295,454.98				
			TOTAL:		\$477,135.63				

Recommendation  
for 2023



11/10/2022

## AUBURN WATER DISTRICT AUBURN SEWERAGE DISTRICT 2023 Budget

	Actual 2020	Actual 2021	BUDGET 2022	Projected 2022	BUDGET 2023	Notes
<b>VEHICLES: WATER</b>						
Unit # 23, 2004 GMC 8 cy Dump Truck	3,774	3,774	2,841	4,600	4,646	Gas & Maintenance
Unit # 30, 2008 JD Backhoe-TRADED 2021	761	0	2,607	0	0	Gas & Maintenance
Unit # 32, 2011 Ford F-350 P/U	5,026	10,100	9,980	11,033	11,144	Gas & Maintenance
Unit # 33, 2012 Ford Service Truck	1,009	1,820	1,627	1,167	1,332	Gas & Maintenance
Unit # 34, 2004 Dump-TRADED 2022	4,794	11,892	9,741	0	0	Gas & Maintenance
Unit # 36, 2013 Ford 150 P/U	1,741	1,158	1,288	1,256	1,385	Gas & Maintenance
Unit # 38, 2015 Ford 250 P/U	6,474	3,889	5,101	4,811	5,058	Gas & Maintenance
Unit # 39, 2015 Ford 250 P/U	4,278	4,512	4,788	6,996	7,066	Gas & Maintenance
2013 JCB 409B Mini-Loader	3,120	15,625	3,252	2,124	6,956	Gas & Maintenance
Unit # 41, 2016 Chevy Silverado Service	4,179	5,335	6,243	7,781	7,859	Gas & Maintenance
Unit # 42, 2006 Volvo Dump Truck	4,978	20,782	13,176	22,892	23,121	Gas & Maintenance
Unit # 44, 2017 Volvo Excavator	3,463	5,239	3,800	2,497	3,733	Gas & Maintenance
Unit # 45, 2019 Chevy Silverado	2,866	3,743	3,800	4,367	4,410	Gas & Maintenance
Unit # 46, 2019 Ford F150	132	81	3,800	1,367	1,380	Gas & Maintenance
Unit # 47, 2019 Ford F250	2,945	3,496	3,800	3,867	3,905	Gas & Maintenance
Unit # 48, 2020 Chevy Colorado	225	3,518	3,800	3,867	3,905	Gas & Maintenance
Unit # 49, 2020 Cat Backhoe	761	390	2,607	1,424	1,438	Gas & Maintenance
Unit # 50, 2022 Volvo Dump Truck	0	0	0	5,333	5,387	Gas & Maintenance
All Other Miscellaneous Transportation	-1,591	-1,687	-2,060	-4,903	-4,900	Trailers, Tools, Tax Refunds
Labor on Vehicles & Equipment	36,930	22,930	30,206	26,469	30,000	In-House Work on Equip
<b>TOTAL:</b>	<b>\$85,866</b>	<b>\$116,597</b>	<b>\$110,396</b>	<b>\$106,947</b>	<b>\$117,826</b>	

	Actual 2020	Actual 2021	BUDGET 2022	Projected 2022	BUDGET 2023	Notes
<b>VEHICLES: SEWER</b>						
Unit #35, 2013 Vacuum Truck	14,233	10,611	13,064	17,100	17,271	Gas & Maintenance
Unit #37, 2015 GMC Sierra	2,748	5,400	3,797	4,716	4,763	Gas & Maintenance
Unit #40, Ford F350 P/U	2,678	5,250	4,774	6,726	6,794	Gas & Maintenance
All Other Vehicle Related	96	50	69	43	63	Durand Flusher/Other
<b>TOTAL:</b>	<b>\$19,754</b>	<b>\$21,311</b>	<b>\$21,705</b>	<b>\$28,585</b>	<b>\$28,890</b>	

**AUBURN WATER DISTRICT  
AUBURN SEWERAGE DISTRICT  
2023 Equipment Budget**

<b>Equipment Budget</b>	<b>BUDGET COST</b>	<b>AWD SHARE</b>	<b>ASD SHARE</b>	<b>Notes</b>
<b><u>Vehicles, Equipment</u></b>				
2017 Volvo Excavator	\$31,960	\$15,980	\$15,980	Payment 5 of 5
Truck 31 - Large Dump	\$25,000	\$12,500	\$12,500	Payment 2 of 7
Battery Replacement UPS Unit UV Plant	\$45,020	\$22,510		1/2 LWD
Sampling Probes	\$18,350	\$9,175		1/2 LWD-Handheld Sond, Perimeter Sampling Probe
Chlorine Analyzer-Chloramines	\$11,668	\$5,834		1/2 LWD-CL17sc and Controller
Freeze Machine	\$4,000	\$4,000		Replace existing
GPS Unit	\$10,000	\$5,000	\$5,000	
Locator	\$4,000	\$2,000	\$2,000	Additional Unit
Shop Tools	\$6,170	\$2,600	\$3,570	Hydrant Pump, Valve Setter, ASD Fiberglass Poles, Manhole Lifter
Washington St. Pump Station Design	\$40,000		\$40,000	Study to Rebuild Station
PLC Upgrade	\$3,000	\$1,500	\$1,500	Upgrades to SCADA
	<b>\$199,168</b>	<b>\$81,099</b>	<b>\$80,550</b>	
<b><u>Office &amp; Administrative</u></b>				
4 Computers	\$5,000	\$2,500	\$2,500	Upgrade 4 Computers
Ergonomic Office Furniture	\$6,000	\$3,000	\$3,000	Sit-Stand Station
Work Order System	\$37,500	\$18,750	\$18,750	Module of Billing Software
UV Plant Building Improvements	\$8,500	\$4,250		1/2 LWD-Masonry Work
Equipment Garage Design	\$12,000	\$6,000	\$6,000	
	<b>\$69,000</b>	<b>\$34,500</b>	<b>\$24,250</b>	
	<b>\$268,168</b>	<b>\$115,599</b>	<b>\$104,800</b>	

# AUBURN WATER DISTRICT AUBURN SEWERAGE DISTRICT

## Capital Projects Summary

### 2023 Project Capital Improvement Projects (not budgeted in regular O&M)

#### Water District Projects

	<u>Main Replacement FT</u>	<u>BUDGET COST</u>	<u>Notes</u>
Hotel Rd. - Minot to Merrow	5300	\$212,000	Eliminating - MDOT Project
East Side of Taylor Pond - Est Shore-Waterview	2500	\$75,000	4" Main Replacement
Second St. - Broad-Dunn	720	\$93,600	8" Main Replacement - City Project
Parker St. - Summer-Turner	500	\$65,000	6" to 8" Upsize Main Replacement - City Project
Second St. - Brook-Dead End	286	\$37,180	2.25" to 2" Downsize Main Replacement - City Project
Blake St. - Summer-Turner	250	\$32,500	8" Main Replacement - City Project
Frenchs Ln. - Turner-Whitney	250	\$32,500	8" Main Replacement - City Project
Rowe St. - Winter-Summer	250	\$32,500	8" Main Replacement - City Project
Hardscrabble Check Valves	250	\$50,000	8" Main Replacement - City Project
Poland Booster Chlorine Analyzer		\$15,000	Replacement
Hardscabble Booster Chlorine Analyzer		\$15,000	Install CL17 System
		\$15,000	Install CL17 System

MILEAGE TOTAL: 1.90

WATER TOTALS: \$660,280

IH = In-house labor

#### Sewer District Projects

	<u>Main Replacement FT</u>	<u>BUDGET COST</u>	<u>Notes</u>
Davis Ave. - Lake-Dead End	1155	\$51,975	Line
Second St. - Roak-Brook	1000	\$45,000	Line
Hampton Ave. - Russell-Goodrich	570	\$25,650	Line
High St. - Academy-Elm	240	\$10,800	Line
TBD	3000	\$135,000	Line
Shepley St.	650	\$130,000	24" to 15" Downsize Main Replacement
Martindale Rd.	100	\$13,000	Eliminate Sag
Replace Generator Cables		\$25,000	Portable Generator Hookups at PS's

MILEAGE TOTAL: 1.27

SEWER TOTALS: \$436,425