

## Pentwater Lake Water Quality Testing Budget

<u>Item</u>	<u>PLIB cost for Testing in Year, Paid following year</u>			
	<u>2023</u>	<u>2024 est</u>	<u>2024 Actual</u>	<u>2025</u>
MICorps	\$308	\$258	\$258	
- Secchi Disk (2024 only - \$50)				
- Secchi Disk Transparency				
- Spring Total Phosphorus				
- Summer Total Phosphorus				
- Score the Shore				
- Chlorophyll				
- Final Report (online)				
- Dissolved Oxygen				
Annis Water Resources Institute	\$2,340	\$3,300	\$4,200	mistake in estimate (\$900)
- Monthly water samples (8 tests, 6 sites, sampled for 5 months)				
- Chloride, Sulfates, Nitrate-Nitrogen, Ammonia-Nitrogen, Total Kjeldahl Nitrogen, Soluble Reactive Phosphorus, Total Phosphorus, E. coli				
Special E. coli testing				
- Extra E. coli testing with Molecular Source Tracking	\$610		\$150	added human marker test (\$150)
- Extra E. coli testing on Village Creek/Charlies Marina		\$250	\$250	
<b>Total</b>	<b>\$3,208</b>	<b>\$3,808</b>	<b>\$4,858</b>	<b>same</b>

Note: First AWRI testing price increase in 10 years

Note: PLIB paid 1/16/24

### Options for 2024

- mistake in estimate and human marker testing covered by PLA

### Options for 2025

- Remove one sample site (\$700)
- Marker testing covered by PLA or Village (\$150)
- Extra Village Creek E.coli testing covered by PLA or Village (\$250)  
(above treatment facility, facility output, around treatment ponds, top of 2nd ave. Clymer, 2nd, 5th, 6th.)

### Village Creek E.coli samples for 2024

	May	June	July	August	September
Charlies Marina	3	2	1	3	1
Sixth Street	548	2420	1120	1046	345
Clymer Street	291	308	1414	1203	411
		no human marker			

Test results: >300 limited human contact, > 1000 no human contact, 2420 maximum

**Pentwater Lake Report 5/15/2024**

Sample #	Station	Cl mg/L	SO <sub>4</sub> mg/L	NO <sub>3</sub> -N mg/L	NH <sub>3</sub> -N mg/L	TKN-N mg/L	SRP-P mg/L	TP-P mg/L	E. coli #/100mL
68615	PL-02 Big Bayou	21	12	0.65	0.03	0.60	<0.005	0.017	4
68616	PL-04 Mid Lake	18	12	0.68	0.02	0.45	<0.005	0.014	2
68617	PL-07 N. Branch Monroe	19	11	0.79	<0.01	0.47	0.005	0.017	88
68618	PL-07A N. Branch Hammett	22	10	0.76	<0.01	0.45	0.007	0.021	65
68619	PL-08 S. Branch Flynn	30	11	0.88	0.03	0.68	<0.005	0.016	88
68620	Village Creek Clymer	126	8	1.33	0.02	0.82	<0.005	0.048	345

**Pentwater Lake Report 6/12/2024**

Sample #	Station	Cl mg/L	SO <sub>4</sub> mg/L	NO <sub>3</sub> -N mg/L	NH <sub>3</sub> -N mg/L	TKN-N mg/L	SRP-P mg/L	TP-P mg/L	E. coli #/100mL
69048	PL-02 Big Bayou Launch	14	9	0.41	0.01	0.57	0.006	0.022	2
69049	PL-04 Lake St. Launch	20	13	0.54	<0.01	0.47	0.006	0.011	2
69050	PL-07A N. Branch Hammett	15	11	0.90	<0.01	0.26	0.011	0.017	152
69051	PL-07 N. Branch Monroe	17	13	0.83	<0.01	0.29	0.009	0.017	179
69052	PL-08 S. Branch Flynn	18	10	0.91	0.03	1.16	0.006	0.016	65
69053	Village Creek -Clymer	157	10	0.86	0.04	1.20	0.009	0.120	308

**Pentwater Lake Report 7/17/2024**

Sample #	Station	Cl mg/L	SO <sub>4</sub> mg/L	NO <sub>3</sub> -N mg/L	NH <sub>3</sub> -N mg/L	TKN-N mg/L	SRP-P mg/L	TP-P mg/L	E. coli #/100mL
69587	PL-02 Big Bayou Launch	17	11	0.43	0.02	0.85	<0.005	0.033	< 1
69588	PL-04 Lake St. Launch	17	11	0.44	0.04	0.74	<0.005	0.030	< 1
69589	PL-07A N. Branch Hammett	16	11	0.95	<0.01	0.50	0.008	0.022	236
69590	PL-07 N. Branch Monroe	16	12	0.93	<0.01	0.50	0.006	0.019	291
69591	PL-08 S. Branch Flynn	22	12	1.33	0.03	0.64	0.005	0.018	91
69592	Village Creek -Clymer	161	13	3.51	0.04	1.42	0.005	0.089	1414

**Pentwater Lake Report 8/14/2024**

Sample #	Station	Cl mg/L	SO <sub>4</sub> mg/L	NO <sub>3</sub> -N mg/L	NH <sub>3</sub> -N mg/L	TKN-N mg/L	SRP-P mg/L	TP-P mg/L	E. coli #/100mL
70137	PL-02 Big Bayou Launch	19	13	0.29	0.04	0.40	<0.005	0.019	1
70138	PL-04 Lake St. Launch	18	12	0.29	0.06	0.50	<0.005	0.017	< 1
70139	PL-07A N. Branch Hammett	15	12	1.03	<0.01	0.33	0.009	0.013	160
70140	PL-07 N. Branch Monroe	17	13	1.01	<0.01	0.23	0.007	0.014	248
70141	PL-08 S. Branch Flynn	21	12	0.85	0.02	0.68	0.006	0.012	58
70142	Village Creek -Clymer	207	13	2.07	<0.01	1.06	0.008	0.018	1203

**Pentwater Lake Report 9/12/2024**

Sample #	Station	Cl mg/L	SO <sub>4</sub> mg/L	NO <sub>3</sub> -N mg/L	NH <sub>3</sub> -N mg/L	TKN-N mg/L	SRP-P mg/L	TP-P mg/L	E. coli #/100mL
70533	PL-02 Big Bayou Launch	20	14	0.18	<0.01	0.92	<0.005	0.034	1
70534	PL-04 Lake St. Launch	19	14	0.18	<0.01	0.75	0.005	0.029	<1
70535	PL-07A N. Branch Hammett	15	16	1.04	<0.01	0.34	0.008	0.014	291
70536	PL-07 N. Branch Monroe	17	13	1.02	<0.01	0.35	0.008	0.010	228
70537	PL-08 S. Branch Flynn	26	15	0.88	<0.01	0.61	<0.005	0.017	49
70538	Village Creek -Clymer	208	12	3.02	<0.01	1.11	0.009	0.062	411