

Watson Lake Water Testing Data Log

Jeremy Cordova Environmental Project Manager

Instruments used: HANNA HI 96706 for Phosphorus

City of Prescott, AZ CIP: 2208-008: Watson Lake Improvements

In-Situ Aqua Troll 500 (all else)

Sample Number (below, format is Date/Number)	Sample Location	Date (D/M/Y)	Time (PMT)	Turbidity (NTU)	pH (SI)	pH mV (mV)	ORP (mV)	Actual Conductivity	Specific Conductivity (uS/cm)	Salinity (PSU)	Resistivity (ohms/cm)	Total Dissolved Solids (ppt)	RDO (mg/L)	Dissolved Oxygen (%)	Oxygen partial pressure (Torr)	Water Temp (C)	Depth below surface (ft)	Phosphorus (mg/l = ppm)	Secchi Disk Depth (ft)	Active HAB	Weather conditions
10224-1	Southern circulator	10/2/2024	10am		9.2												1	0.5			
10224-2	Northern circulator	10/2/2024	10:30am		9.2												1	0.1		No	full sun
10224-3	N Boat launch	10/2/2024	11:15am		9.2												1				
10424-1	S Boat Launch	10/4/2024	9:33am	14.7	8.7	-121	206	428	431	0.23	2335	0.28	7.97	104	131	19	2.4				
10424-2	S Boat Launch	10/4/2024	9:37 AM	18.2	8.4	-101	129	399	407	0.21	2502	0.26	4.2	74	68	19	6.5	0.1			
10424-3	S Boat Launch	10/4/2024	9:46 AM	9.5	8.4	-100	136	433	443	0.23	2304	0.28	5.8	75	94	18.9	6.5			Yes	Full sun, no recent rain
10424-4	N Boat launch	10/4/2024	10:12am	7.06	9.1	-143	149	434	427	0.229	2301	0.27	10	135	169	20.8	1.6				
10424-5	N Boat launch	10/4/2024	10:15am	6	9.2	-148	146	422	419	0.225	2366	0.27	11.2	150	188	20.4	3.4	0.1			
10424-6	N Boat launch	10/4/2024	10:17 AM	10.5	9.2	-148	144	430	425	0.228	323	0.27	10.9	146	183	20.6	2.3				
101124-1	S Boat Launch	10/11/2024	10:09 AM	17.1	8.4	-106.9	368.2	426.8	432.7	0.233	2342	0.28	7.3	95	119.5	19.3	1.3				
101124-2	S Boat Launch	10/11/2024	10:09 AM	3.73	8.5	-108.9	349.2	423.9	435	0.234	2358	0.28	7.31	94	118.3	18.6	2.7	0.1			
101124-3	S Boat Launch	10/11/2024	10:10 AM	7.7	8.5	-108	326.6	421.2	436.3	0.235	2375	0.28	7.39	94	118.5	18.2	5			Yes	full sun, little to no clouds. Warm clear day
101124-4	N Boat launch	10/11/2024	10:35 AM	5.5	8.8	-126.8	232	420	419.3	0.225	2380	0.27	6.54	86	108.6	20.1	1.1				
101124-5	N Boat launch	10/11/2024	10:37 AM	1.5	8.8	-127.9	229.3	417.1	418.7	0.225	2397	0.27	6.45	85	106.5	19.8	2.4	0			
101124-6	N Boat launch	10/11/2024	10:39 AM	26.5	8.9	-134.2	222	410.7	416.7	0.224	2434	0.27	7.56	98	123.7	19.2	4				
102324-1	S Boat Launch	10/23/2024	12:03 PM	29.2	8.5	-113.8	133	424.8	446.2	0.241	2353	0.29	7.57	95	119.7	17.5	1.3				
102324-2	S Boat Launch	10/23/2024	12:03 PM	4.7	8.6	-117.7	135.6	417.8	448.4	0.24	2393	0.29	7.39	90.8	114.4	16.4	3.8	0.1			
102324-3	S Boat Launch	10/23/2024	12:04 PM	2.29	8.7	-120.9	135.7	408.5	442.5	0.24	2447	0.28	8.51	103.6	130.6	15.9	4.3			Yes	Warm sunny clear day
102324-4	N Boat launch	10/23/2024	12:20 PM	56.2	8.9	-132.7	146	399.5	412.9	0.22	2503	0.26	8.06	103.1	129.6	18.3	1.9				
102324-5	N Boat launch	10/23/2024	12:21 PM	7.1	8.9	-132.3	142	391.6	414.1	0.22	2553.5	0.27	8.44	105.3	132.5	17.1	3.1	0			
102324-6	N Boat launch	10/23/2024	12:22 PM	1.6	8.9	-132.5	141.9	398.1	424.4	0.22	2511.9	0.28	8.31	102.8	129.5	16.7	2.9				
11824-1	S Boat Launch	11/8/2024	12:06 PM	2.41	8.48	-75.1	292.4	356.2	437.7	0.24	2807.5	0.285	8.76	94.1	118.9	10.2	1.51				
11824-2	S Boat Launch	11/8/2024	12:07 PM	2.1	8.52	-76.8	294.3	354.7	439.1	0.24	2819.1	0.285	8.42	89.8	113.6	9.9	2.7	0.1			
11824-3	S Boat Launch	11/8/2024	12:07 PM	4.9	8.51	-76.7	295.2	351.8	439.2	0.24	2842.5	0.285	8.21	87	110.1	9.6	5.1			No	Sunny, chilly, and clear day
11824-4	N Boat launch	11/8/2024	11:46 AM	1.8	8.43	-72.8	391.8	369.3	434.7	0.24	2708	0.286	7.95	89.2	112.6	12.1	2.01				
11824-5	N Boat launch	11/8/2024	11:47 AM	19.6	8.53	-78.07	351.7	366.5	437	0.24	2728.8	0.285	8.3	92.4	116.7	11.5	2.65	0			
11824-6	N Boat launch	11/8/2024	11:48 AM	0.56	8.56	-79.6	350	365.9	439.3	0.24	2732.4	0.285	8.5	93.5	118.2	11.3	1.6				
121124-1	S Boat Launch	12/11/2024	12:37	20.5	7.8	-52.3	345.5	327.7	489.2	0.234	3050.9	0.317	8.76	88.1	112.2	7.7	3.7	0.1	3.2	No	Sunny, chilly, some clouds
121124-2	N Boat launch	12/11/2024	12:51	0.45	8.1	-71.6	296.7	333.8	502.4	0.24	2995.7	0.326	9.49	94.7	120.6	7.4	3.2	0.2			
11525-1	S Boat launch	1/15/2025	13:12	22.75	8.1	-68.4	315.7	313.6	502.5	0.239	3188.3	0.327	9.99	94.4	120.5	5.3	3.3	0.3	1.5		
11525-2	S Boat Launch	1/15/2025	13:13	33.1	8.3	-80.95	306.6	314.1	516.5	0.244	3183.6	0.336	10.9	101.3	129.3	4.5	4.66			no	sunny, clear, cold
11525-3	N Boat launch	1/15/2025	13:33	0.026	8.3	-78.7	219.5	323.6	516	0.245	3090.3	0.3354	10.3	97.6	124.5	5.5	1.7	0.2	2.5		

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11824-P1	S Boat Launch	11/8/2024	12:30pm																~8 ft	2.4	0.1
11824-1D				4.3	8.5	-73.6	295.6	354.2	433.2	0.24	2823.1	0.99	0.281	8.5	91.6	115.8	10.45	0.17	1	0.3	
11824-2D				3.3	8.5	-77.7	95.1	354.3	435.4	0.237	2822	0.99	0.283	8.4	90.3	114	10.2	0.63	2	0.6	
11824-3D				5.8	8.5	-78.3	295.3	351.4	435.2	0.237	2845.9	0.99	0.283	8.3	88.5	110.8	9.9	1.1	3	0.9	
11824-4D				15.1	8.4	-73.3	296.7	348.9	439.5	0.24	2865.4	0.99	0.285	8.2	85.8	108.4	9.2	1.5	4	1.2	
11824-5D				21.9	8.4	-68.4	297.8	345.9	441.2	0.24	2890.2	0.99	0.286	7.9	82.5	104.4	8.7	2	5.2	1.6	
11824-6D				43.7	8.2	-61.2	299.3	344.3	445.5	0.24	2904.2	1	0.29	7.6	79	100	8.1	2.8	7	2.1	
	N Boat Launch	11/8/2024	12:45pm																~32ft	9.8	
11824-8D				4.2	8.7	-88.9	301.8	363.5	434.5	0.24	2750.4	0.99	0.28	8.8	96.9	122.4	11.5	0.47	1.7	0.5	0.1
11824-9D				0.67	8.6	-83.5	301.3	361.8	435.5	0.23	2763.9	0.99	0.28	8.4	92.7	117	11.1	0.85	2.5	0.8	
11824-10D				1.2	8.6	-82.8	301.3	361.1	436.3	0.23	2769	0.99	0.28	8.2	89.8	113.4	10.9	1.5	4.1	1.2	
11824-11D				2.6	8.6	-82.2	301.4	357.3	435	0.23	2798.9	0.99	0.28	7.9	86.7	109.5	10.6	2.5	6.5	2.0	
11824-12D				2.3	8.6	-81.5	301.5	359.9	436.6	0.23	2801.3	0.99	0.28	7.8	84.8	107.1	10.4	3.3	8	2.4	
11824-13D				1.8	8.6	-80.9	301.4	356.4	437.1	0.23	2803.7	0.99	0.28	7.7	82.9	104.7	10.3	4.1	10	3.0	
11824-14D				4.3	8.6	-80.6	301.4	356.4	437.5	0.23	2803.5	0.99	0.28	7.6	82.2	103.8	10.3	4.9	12	3.7	
11824-15D				2.1	8.6	-80.6	300.5	356.7	437.9	0.24	2803.6	0.99	0.28	7.5	81	102.3	10.3	6	14.4	4.4	
11824-16D				2.3	8.6	-80.1	299.9	356.6	437.9	0.24	2804.5	0.99	0.28	7.4	80.4	101.6	10.3	7.2	17.3	5.3	
11824-17D				6.6	8.6	-80.9	299.2	356.7	437.8	0.24	2803.6	0.99	0.28	7.4	80	101.1	10.3	8.5	20	6.1	
11824-18D				1.9	8.6	-80.6	299	356.6	437.8	0.24	2803.9	0.99	0.28	7.4	80	101.2	10.3	9.5	22.5	6.9	
11824-19D				2.4	8.6	-80.5	298.7	356.6	437.9	0.24	2804.2	0.99	0.28	7.4	79.9	101.1	10.3	10.9	25.8	7.9	
11824-20D	5.3	8.5	-80.6	297.9	356.5	437.9	0.24	2804.4	0.99	0.28	7.4	79.5	100.5	10.3	12.2	28.8	8.8				
11824-21D	2	8.6	-80.3	297.7	356.6	437.9	0.24	2804.3	0.99	0.28	7.4	79.4	100.4	10.3	13	30.6	9.3				
11824-22D	2.8	8.6	-79.8	297.4	356.6	438	0.24	2803.7	0.99	0.28	7.4	79.1	100	10.3	13.8	32	9.8				
11824-23D	0	7.6	-23.9	-72.4	470.4	574.7	0.31	2125.8	0.99	0.37	5.5	59.8	75.6	10.5	14	32.8	10.0	0	0	0	