

	ANC		CHL-A		CL		CONDUCTIVITY	
DEFINITION	Acid Neutralizing Capacity: Historically, NH waters have low ANC because of prevailing granite bedrock, which means NH surface waters are vulnerable to effects of acid precipitation.		Chlorophyll-A: A pigment found in plants as an indication of the algae abundance.		Chloride Ion: Typically found in some surface waters and ground waters. Elevated chloride levels can be toxic to fresh water aquatic life. NH has adopted acute and chronic chloride criteria of 860 and 230 mg/l respectively.		Conductivity is a numerical expression of the ability of water to carry electrical current. NH waters traditionally had low values.	
	ANC (mg/l)	Category	CHL-A ug/l	Category	Mg/liter	Category		
	<0	Acidified	0-5	Good	130>	Chronic		
	0-2	Extremely vulnerable	5.1-15	More than desirable				
	2.1-10	Moderately vulnerable	15<	Nuisance amount				
	10.1-25	Low vulnerability						
	>25	Not vulnerable						
	Our Range		Our Range	3.96-7.12	Our Range	14.1-16	Our Range	30-118
	Tested at Deep Spot (3 meters)		Tested at Deep Spot (5 meters)		Tested at deep spot and inlets		Tested at deep spot and inlets	
TESTING DATA	Month	Reading	Month	Reading	Month	Reading	Month	Reading
	June 2023	5.1	June 2023	5.9	June 2023	14.5 (39.7 at horse farm)	June 2023	84 (118 at horse farm)
	July 2023	5.3	July 2023	3.96	July 2023	18.6	July 2023	74 (92 at 28 inlet)
	August 2023	5.7	August 2023	7.12	August 2023	14.1 (23.1 at horse farm)	August 2023	68 (117 at horse farm)
	September 2023	NA	September 2023	NA	September 2023	NA	September 2023	NA
	June 2024	5.1	June 2024	5.66	June 2024	16 (20.9 at 28 inlet)	June 2024	61
	July 2024		July 2024	2.68	July 2024	21.4(35.1 atHorse Farm)	July 2024	58.4 (100 at Horse Farm)
	August 2024	5.4	August 2024	3.7	August 2024	19	August 2024	86.4. (100 at Horse Farm)NA
	September 2024	6.0	September 2024	5.51	September 2024	17.2	September 2024	65.7(125.4 atHorse Farm)
	May 2025	5.2	May 2025	5.52	May 2025	16.5	May 2025	41.5 (100.9 at Horse Farm)
	June 2025		June 2025		June 2025		June 2025	
	July 2025		July 2025		July 2025		July 2025	
	August 2025		August 2025		August 2025		August 2025	
	September 2025		September 2025		September 2025		September 2025	
	June 2026		June 2026		June 2026		June 2026	
	July 2026		July 2026		July 2026		July 2026	
	August 2026		August 2026		August 2026		August 2026	
	September 2026		September 2026		September 2026		September 2026	
COMMENT								

	E.Coli		PH		TP		TURBIDITY	
DEFINITION	E.Coli is a normal component of the large intestines in humans and other warm-blooded animals. E.Coli I sued as an indicator organism for bacteriological monitoring because it is easily cultured and it's presence in the water in defined amounts indicates that sewage may be present.		pH is a measure of the acidity on a logarithmic scale, 0-14. Lake pH is important to the survival and reproduction of fish and other aquatic life. A pH below 5.5 severely limits the growth and reproduction of fish.		Total phosphorus: TP is the most important water quality parameter measured in our lakes. It is the nutrient that limits algae's ability to grow and reproduce. Phosphorus around a lake typically include septic systems, animal waste, lawn fertilizer, road and construction erosion and natural wetlands.		Turbidity in the water is cause by suspended matter, clay, silt and algae that cause light to be scattered and absorbed, not transmitted in straight lines through water.	
	Counts/100 ml	Category	pH units	Category	TP ug/l	Category	NTUs	Category
	88<	Bad	<5	Acidified	1-10	Low (Good)	<0.1	Minimum
			5.0-5.4	Critical	11-20	Average	22.0	Maximum
			5.5-6.5	Endangered	21-40	High	1.0	Median
			6.1-8.0	Satisfactory	40<	Excessive		
	Our Range	2<10	Our Range	6.12-7.07	Our Range	9.2-40	Our Range	.92-4.85
	Tested all beaches		Tested at deep spot and inlets		Tested at deep spot and inlets		Tested at deep spot and inlets	
TESTING DATA	Month	Reading	Month	Reading	Month	Reading	Month	Reading
	June 2023	NA	June 2023	7.07	June 2023	9.2 (40.6 at 28 inlet)	June 2023	1.42 (4.85 at 28 inlet)
	July 2023	NA	July 2023	6.9	July 2023	11.8 (37.3 at horse farm)	July 2023	0.92 (3.33 in 7.5 meter deep spot)
	August 2023	NA	August 2023	6.75	August 2023	13 (35.9 at 8.5 meters deep spot)	August 2023	0.94 (4.18 at horse farm)
	September 2023	NA	September 2023	NA	September 2023	NA	September 2023	NA
	June 2024	NA	June 2024	6.45	June 2024	12	June 2024	1.03
	July 2024	NA	July 2024	6.96	July 2024	6.4	July 2024	0.5
	August 2024	NA	August 2024	6.74	August 2024	8.8	August 2024	0.69
	September 2024		September 2024	6.78	September 2024	9.6 (50 at bottom 0f deep end)	September 2024	0.95
	May 2025	NA	May 2025	6.45	May 2025	14.4	May 2025	1.19
	June 2025		June 2025		June 2025		June 2025	
	July 2025		July 2025		July 2025		July 2025	
	August 2025		August 2025		August 2025		August 2025	
	September 2025		September 2025		September 2025		September 2025	
	June 2026		June 2026		June 2026		June 2026	
	July 2026		July 2026		July 2026		July 2026	
	August 2026		August 2026		August 2026		August 2026	
	September 2026		September 2026		September 2026		September 2026	
COMMENT								

