



Volunteer Lake Assessment Program Individual Lake Reports

CONNER POND, OSSIPEE, NH

MORPHOMETRIC DATA

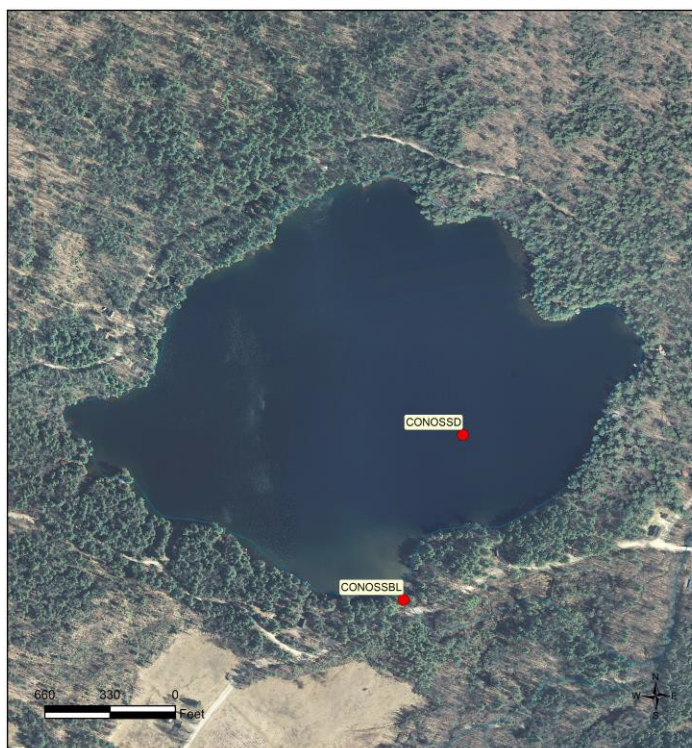
Watershed Area (Ac.):	545	Max. Depth (m):	19.2	Flushing Rate (yr¹)	0.4	Year	Trophic class	
Surface Area (Ac.):	87	Mean Depth (m):	9	P Retention Coef:		1982	OLIGOTROPHIC	
Shore Length (m):	2,300	Volume (m³):	3,163,500	Elevation (ft):	899	2002	OLIGOTROPHIC	

TROPIC CLASSIFICATION
KNOWN EXOTIC SPECIES

The Waterbody Report Card tables are generated from the DRAFT 2020 305(b) report on the status of N.H. waters, and are based on data collected from 2010-2019. Detailed waterbody assessment and report card information can be found at [NHDES' Water Quality Assessment Website](#).

Designated Use	Parameter	Category	Comments
Aquatic Life	Phosphorus (Total)	Encouraging	Limited data for this parameter predicts water quality standards or thresholds are being met; however more data are necessary to fully assess the parameter.
	pH	Slightly Bad	Data periodically exceed water quality standards or thresholds for this parameter by a small margin.
	Oxygen, Dissolved	Very Good	All sampling data meet water quality standards or thresholds for this parameter.
	Dissolved oxygen satura	Very Good	All sampling data meet water quality standards or thresholds for this parameter.
	Chlorophyll-a	Very Good	Sampling data is 50 percent better than the water quality standards or thresholds for this parameter.
Primary Contact Recreation	Escherichia coli	Very Good	All sampling data meet water quality standards or thresholds for this parameter.
	Chlorophyll-a	Very Good	All sampling data meet water quality standards or thresholds for this parameter.

VLAP SAMPLE STATION MAP: This map depicts the location of routine sampling stations discussed on page two of the report.



CONNER POND
OSSIPEE
VOLUNTEER LAKE ASSESSMENT PROGRAM

STATIONID	STATION NAME
CONOSSD	DEEP SPOT
CONOSSBL	BOAT LAUNCH

Source: The data layers are derived from NHDES data and are under constant revision. NHDES is not responsible for the use or interpretation of this information. Not intended for legal use. NHDES Watershed Management Bureau. Date: 2/17/2021





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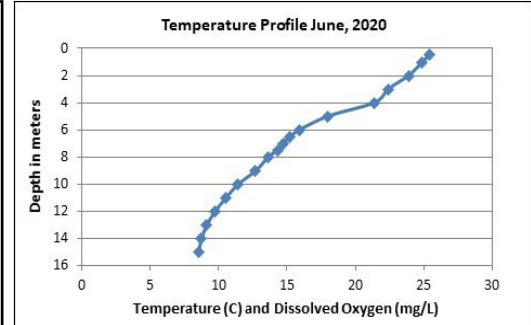
Conner Pond, Ossipee

2020 Data Summary

Recommended Actions: Great job with continued monitoring in 2020! Pond quality remains representative of oligotrophic, or high quality, conditions. If possible, increase monitoring frequency to once per month, typically June, July and August, to better track seasonal and annual variations in water quality over time. Continue tracking apparent color to assess the relationship between water clarity (transparency) and apparent color which measures dissolved organic matter that imparts a tea color to the water. Consider joining the NHLAKES' Lake Host Program to inspect boats for Aquatic Invasive Species (AIS), such as Variable milfoil, and to educate boaters on the Clean, Drain, Dry initiative to prevent transportation and spread of AIS. For more information contact info@nhlakes.org. Keep up the great work!

Observations (Refer to Table 1 and Historical Deep Spot Data Graphics)

- ◆ **Chlorophyll-a:** Chlorophyll level was within a very low range in June, decreased slightly from 2019, and was much less than the state median and the threshold for oligotrophic lakes. Historical trend analysis indicates stable, yet variable, chlorophyll levels since monitoring began.
- ◆ **Conductivity/Chloride:** Epilimnetic (upper water layer), Metalimnetic (middle water layer) and Hypolimnetic (lower water layer) conductivity levels remained within a low range for NH lakes and were much less than the state median. Epilimnetic chloride level was also very low and less than the state median. Historical trend analysis indicates stable, yet variable, epilimnetic conductivity levels since monitoring began.
- ◆ **Color:** Apparent color measured in the epilimnion indicates the water was clear with little to no tea, or brown, coloring.
- ◆ **Total Phosphorus:** Epilimnetic, Metalimnetic and Hypolimnetic phosphorus levels were within a very low range in June. Epilimnetic phosphorus level remained stable with 2019 and was much less than the state median and the threshold for oligotrophic lakes. Historical trend analysis indicates relatively stable epilimnetic phosphorus levels since monitoring began.
- ◆ **Transparency:** Transparency measured with (VS) and without (NVS) the viewscope was very high (good) in June, increased (improved) from 2019, was much higher (better) than the state median, and was the best measured since monitoring began. Historical trend analysis indicates relatively stable NVS transparency since monitoring began.
- ◆ **Turbidity:** Epilimnetic, Metalimnetic and Hypolimnetic turbidity levels were within a very low range in June.
- ◆ **pH:** Epilimnetic pH level was within the desirable range 6.5-8.0 units and historical trend analysis indicates stable, yet variable, epilimnetic pH levels since monitoring began. Metalimnetic and Hypolimnetic pH levels were slightly less than desirable.



Station Name	Table 1. 2020 Average Water Quality Data for CONNER POND - OSSIEE									
	Alk. (mg/L)	Chlor-a (ug/L)	Chloride (mg/L)	Color (pcu)	Cond. (us/cm)	Total P (ug/L)	Trans. (m)		Turb. (ntu)	pH
							NVS	VS		
Epilimnion	3.3	0.27	3	20	12.8	3	12.70	13.35	0.08	6.56
Metalimnion					13.2	5			0.08	6.34
Hypolimnion					13.1	3			0.16	6.21

NH Median Values: Median values for specific parameters generated from historic lake monitoring data.

Alkalinity: 4.5 mg/L
Chlorophyll-a: 4.39 ug/L
Conductivity: 42.3 uS/cm
Chloride: 5 mg/L
Total Phosphorus: 11 ug/L
Transparency: 3.3 m
pH: 6.6

NH Water Quality Standards: Numeric criteria for specific parameters. Results exceeding criteria are considered a water quality violation.

Chloride: > 230 mg/L (chronic)
E. coli: > 88 cts/100 mL – public beach
E. coli: > 406 cts/100 mL – surface waters
Turbidity: > 10 NTU above natural level
pH: between 6.5-8.0 (unless naturally occurring)

Historical Water Quality Trend Analysis

Parameter	Trend	Explanation	Parameter	Trend	Explanation
Conductivity	Stable	Trend not significant; data highly variable.	Chlorophyll-a	Stable	Trend not significant; data highly variable.
pH (epilimnion)	Stable	Trend not significant; data highly variable.	Transparency	Stable	Trend not significant; data moderately variable.
			Phosphorus (epilimnion)	Stable	Trend not significant; data moderately variable.

