



VOLUNTEER LAKE ASSESSMENT PROGRAM INDIVIDUAL LAKE REPORTS

SNAKE RIVER, NEW HAMPTON, NH

2012 DATA SUMMARY

OBSERVATIONS AND RECOMMENDATIONS (Refer to Table 1 and Historical Data Graphic)

- ♣ **CONDUCTIVITY/CHLORIDE:** Conductivity was slightly lower at the upstream Site 4 station leaving Winona Lake and was stable at all downstream stations. Historical trend analysis indicates conductivity has significantly decreased (improved) since monitoring began. We hope to see this continue!
- ♣ **TOTAL PHOSPHORUS:** Phosphorus levels were lower at the upstream stations Sites 4 and 3 and increased slightly at Sites 1, 2 and 5. In general phosphorus levels were average and decreased from the slightly elevated levels measured in 2008 and 2009. Historical trend analysis indicates a relatively stable phosphorus level since monitoring began.
- ♣ **TURBIDITY:** Turbidity levels were low at all stations. Historical data indicates a relatively stable turbidity.
- ♣ **PH:** pH levels were fairly stable from upstream to downstream. pH tends to fluctuate annually due to wetland contributions, water levels, flow and plant abundance.
- ♣ **RECOMMENDED ACTIONS:** Increase monitoring frequency to three sample events per summer to better assess summer water quality and historical trends. Continue chloride monitoring to develop a baseline data set. Keep up the great work!

Station Name	Table 1. 2012 Average Water Quality Data for SNAKE RIVER				
	Chloride	Cond.	Total P	Turb.	pH
	mg/l	uS/cm	ug/l	ntu	
Snake Riversite 1	11	73.2	11	0.62	6.88
Snake Riversite 2	11	75.6	12	0.80	6.87
Snake Riversite 3	11	72.2	8	0.68	6.54
Snake Riversite 4	9	64.7	6	0.79	6.76
Snake Riversite 5	11	72.5	10	0.71	6.84

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

Alkalinity: 4.9 mg/L

Chlorophyll-a: 4.58 mg/m³

Conductivity: 40.0 uS/cm

Chloride: 4 mg/L

Total Phosphorus: 12 ug/L

Transparency: 3.2 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)

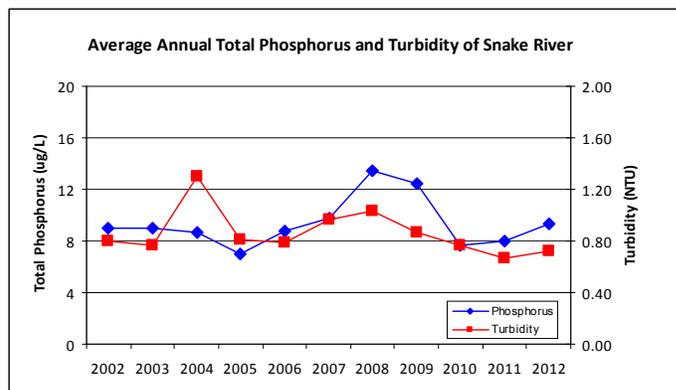
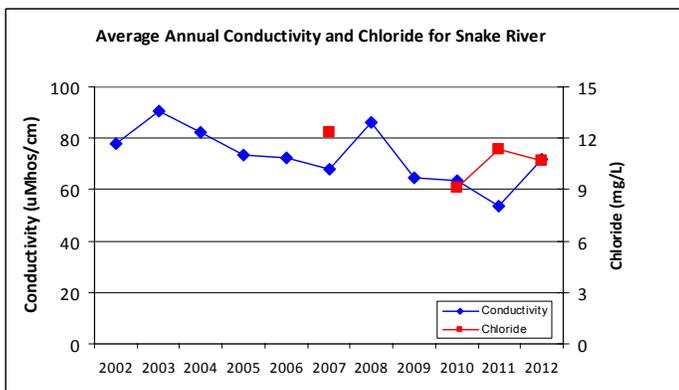
E. coli: > 88 cts/100 mL – public beach

E. coli: > 406 cts/100 mL – surface waters

Turbidity: > 10 NTU above natural level

pH: 6.5-8.0 (unless naturally occurring)

HISTORICAL WATER QUALITY TREND ANALYSIS



This report was generated by the NH DES Volunteer Lake Assessment Program (VLAP). For more information contact:
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