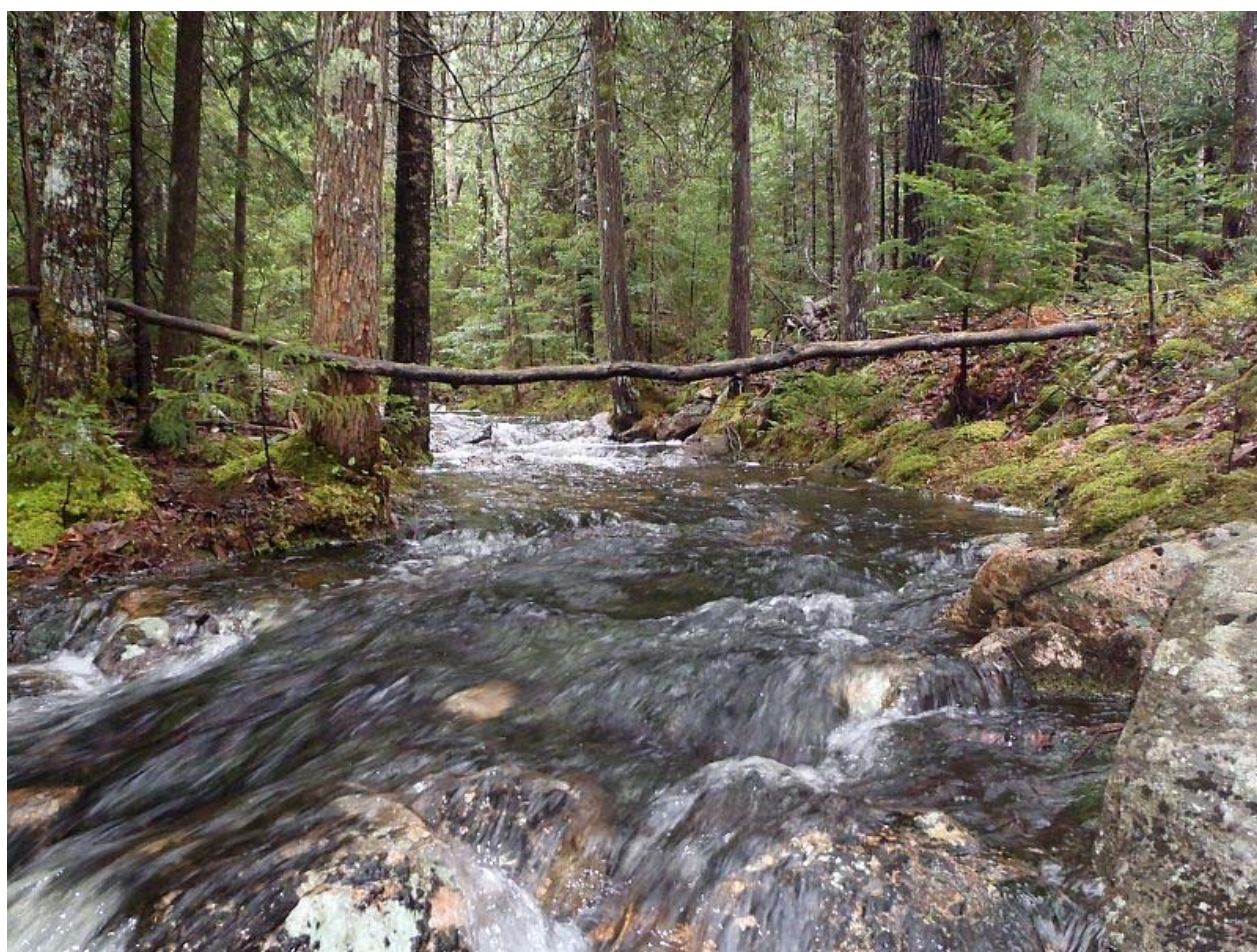




Water Quality Monitoring at Acadia National Park

Northeast Temperate Network 2012 Summary Report

Natural Resource Data Series NPS/NETN/NRDS—2013/481



ON THE COVER

Sargent Brook, May 2012

Photograph by: Beth Arsenaault

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May 2013

U.S. Department of the Interior
National Park Service
Natural Resource Stewardship and Science
Fort Collins, Colorado

The National Park Service, Natural Resource Stewardship and Science office in Fort Collins, Colorado, publishes a range of reports that address natural resource topics. These reports are of interest and applicability to a broad audience in the National Park Service and others in natural resource management, including scientists, conservation and environmental constituencies, and the public.

The Natural Resource Data Series is intended for the timely release of basic data sets and data summaries. Care has been taken to assure accuracy of raw data values, but a thorough analysis and interpretation of the data has not been completed. Consequently, the initial analyses of data in this report are provisional and subject to change.

All manuscripts in the series receive the appropriate level of peer review to ensure that the information is scientifically credible, technically accurate, appropriately written for the intended audience, and designed and published in a professional manner.

This report received informal peer review by subject-matter experts who were not directly involved in the collection, analysis, or reporting of the data.

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Introduction

This report on the water quality of Acadia National Park (ACAD) generated by the Northeast Temperate Network (NETN) Water Quality Monitoring Program includes data gathered in the 2012 monitoring season and displays these results in graphic form, accompanied by a brief interpretation. Appendix A contains data collected in 2012 in tabular form.

The vital signs for freshwater bodies included in the NETN Freshwater Monitoring Protocol (Lombard et al. 2006) are water chemistry, nutrient enrichment, water quantity, and the detection of invasive plant species. These metrics were chosen to address the NPS Inventory and Monitoring Program objective to detect change in the status of physical, chemical, or biological attributes of the ecosystem.

The NETN freshwater monitoring protocol calls for a total of 37 ACAD lakes and streams to be sampled monthly from May through October, with 11 sites monitored annually and the remainder visited on a 2 year (streams) or 3 year (lakes) rotating schedule. Lakes were not monitored in May of 2012, due to administrative issues. Park staff measure physical and in-situ water chemistry parameters during each monthly visit, and periodically gather water samples for analysis at the University of Maine's (UMO) Sawyer Environmental Chemistry Research Laboratory. Additionally, stage height (water level) is recorded weekly at 17 lakes during the open-water season. All monitoring data are incorporated into a series of comprehensive databases that ultimately feed the U.S. Environmental Protection Agency's (EPA) "STORET" data system, the repository for all NPS water quality and quantity data.

Sampling Sites

Acadia National Park lakes and streams that are monitored by NETN are mapped in Figure 1. Eight lake sites are sampled annually, while nine additional lakes are monitored as part of a rotating design in which each lake is sampled every 3rd year. A total of eleven lakes are monitored each year. Three continuous-record stream sites (with stream stage gages that collect data automatically) are sampled annually, and sixteen partial-record stream sites (monthly stream flow data collection) are sampled using a rotating design where each site is sampled every other year. Beginning in 2011, one partial-record site (Stanley Brook) is sampled annually. A maximum of nine partial-record sites and three continuous-record stream sites are sampled each year. The lake and stream sites monitored in 2012 are listed in Tables 1 and 2 respectively.

Two changes were made to the rotation assignments of the partial record stream sites in 2011 which affected the sites sampled in 2012. Monitoring of Man O'War Brook (ACMOWB, USGS station 01022880, 44.31833 °N, 68.31667 °W) was discontinued in 2011 when the fire road used for vehicle access to the site became impassable and was not scheduled for repair. To balance the rotation schedule and spatial coverage of the monitoring site panels, Lurvey Spring Brook (which is in an adjoining watershed to Man O'War) was moved from the Year 1 panel (scheduled to be sampled in 2012) the Year 2 panel, and Stanley Brook was switched to permanent (annual) monitoring status. Concerns about potential threats from residential development in the Stanley Brook watershed made it a good candidate for annual sampling.



Figure 1. NETN lake and stream monitoring sites at Acadia National Park.

Table 1. 2012 lake monitoring sites at Acadia National Park.

Name	NETN Site Code	Latitude	Longitude
<i>Annual sites</i>			
Bubble Pond	ACBUBL	44.3450646	-68.2388551
Eagle Lake	ACEAGL	44.3635138	-68.2504239
Echo Lake	ACECHO	44.3270197	-68.3377142
Jordan Pond	ACJORD	44.3311101	-68.2552632
Long Pond	ACLONG	44.3275187	-68.3633332
Seal Cove Pond	ACSEAL	44.3014677	-68.3971887
Upper Hadlock Pond	ACUHAD	44.3213604	-68.2874398
Witch Hole Pond	ACWHOL	44.4000095	-68.2429494
<i>Rotating sites</i>			
Aunt Bettys Pond	ACANTB	44.3703798	-68.2746688
Bear Brook Pond	ACBRBK	44.3611398	-68.1952562
Lower Breakneck Pond	ACLBRK	44.3907602	-68.2578634

Table 2. 2012 stream monitoring sites at Acadia National Park.

Name	NETN Site Code	USGS Station #	Latitude	Longitude
<i>Permanent continuous-record sites</i>				
Cadillac Brook	ACCADS	01022835	44.3445581	-68.2170000
Hadlock Brook	ACHADB	01022860	44.3316667	-68.2800000
Otter Creek	ACOTRC	01022840	44.3327778	-68.2072222
<i>Permanent partial-record site</i>				
Stanley Brook	ACSTNL	01022850	44.3055560	-68.2430560
<i>Rotating partial-record sites</i>				
Aunt Bettys Pond Inlet (Gilmore Meadow outlet)	ACABIN	01022869	44.3651158	-68.2724119
Breakneck Brook	ACBRKB	01022825	44.4112283	-68.2520432
Heath Brook	ACHTHB	01022895	44.2778152	-68.3681668
Hunters Brook	ACHNTR	01022845	44.3093889	-68.2223611
Jordan Stream (Jordan Pond outlet)	ACJRDO	01022852	44.3197167	-68.2558037
Kebo Brook	ACKEBO	01022829	44.3724114	-68.2218469
Marshall Brook	ACMRSL	01022890	44.2747414	-68.3515049
Sargent Brook	ACSGTB	10228665	44.3502939	-68.2902003

Methods

Detailed descriptions of all monitoring methods are found in the original protocol (Lombard et al. 2006) and the most recent protocol update (Gawley et al. In Prep). Monthly sampling parameters included in-situ water quality measures (pH, specific conductance, temperature, and dissolved oxygen) determined with a YSI 600XL sonde, Secchi transparency or light penetration (lake sites only), weather, stream flow (discharge), and stream and lake stage. In May (streams only), June (lakes only) and August (both streams and lakes), water samples were obtained and analyzed for acid neutralizing capacity (ANC), color, and nutrients (including total nitrogen, nitrate, and total phosphorus). Beginning in 2012, dissolved organic carbon (DOC), sulfate, and chloride were added to the analyte list, and total dissolved phosphorus, soluble reactive phosphorus, and total dissolved nitrogen were removed as analytes.

The lake sampling procedure entails collecting all in-situ measurements and water samples from the deep hole (or center, in the case of lakes with uniform bathymetry) of the lake. Nutrient chemistry parameters are analyzed from a series of epilimnion core samples (4-10 meter depth) integrated in a churn splitter if the lake is stratified, or a half-meter grab sample if the lake is unstratified.

Stream discharge was measured using U.S. Geological Survey protocols (Rantz et al. 1982), employing a measuring tape, wading rod, and SonTek FlowTracker or a Price Pygmy current meter to measure a particular cross-sectional area of the stream and the velocity of the water at that cross section.

In-situ stream water chemical and physical measurements and water samples were collected within 5 meters of the location of the discharge measurement. Sonde measurements were taken in the main stream flow with care taken that the sonde was not resting directly on the stream bottom. Grab samples were obtained by submerging the sample bottle directly in the stream with a gloved hand.

Water Quality Standards

Maine Statutes, Title 38, Sections 464, 465, and 465-A define the classification program and water quality standards for Maine waters (Maine State Government 2011, 2007a, 2007b). Existing in-stream water uses and the level of water quality necessary to protect those existing uses must be maintained and protected. All waters in national parks are considered outstanding national resource waters (ONRW) in Maine. The water quality of ONRW must be maintained and protected. Class AA is the highest classification and its standards are applied to waters that are outstanding natural resources.

“Class AA waters must be of such quality that they are suitable for the designated uses of drinking water after disinfection, fishing, agriculture, recreation in and on the water, navigation, and as habitat for fish and other aquatic life. The habitat must be characterized as free-flowing and natural. The aquatic life, DO [Dissolved Oxygen], and bacteria content of Class AA waters shall be as naturally occur” (Maine State Government 2007a). No quantitative criteria are given for AA waters, but the DO content of Class A waters (the next lowest classification) “shall be not less than 7 parts per million or 75 percent of saturation, whichever is higher”.

Great ponds (more than 10 acres in size) and smaller natural ponds and lakes are all classified as Class GPA waters. “Class GPA waters must be of such quality that they are suitable for the designated uses of drinking water after disinfection, recreation in and on the water, fishing, agriculture, industrial process and cooling water supply, hydroelectric power generation, navigation, and as habitat for fish and other aquatic life. The habitat must be characterized as natural” (Maine State Government 2007b).

“Class GPA waters shall be described by their trophic state based on measures of the chlorophyll *a* content, Secchi Disk Depth (SD), total phosphorus content, and other appropriate criteria.”

Water quality standards for Maine indicate that class GPA waters “shall have a stable or decreasing trophic state, subject only to natural fluctuations, and shall be free of culturally induced algal blooms” (Maine State Government 2007b). Bloom conditions are defined as SD measurements of less than 2 meters in lakes having color less than 30 standard platinum units (SPU). Lakes that chronically (more than 5 of the past 10 years) show algal blooms are not in attainment of state water quality standards.

EPA Ecoregion 8 water quality criteria (Table 3; U.S. Environmental Protection Agency 2000a, 2000b) are also used as a benchmark in this report. EPA water quality criteria for nutrients help translate narrative criteria within State or Tribal water quality standards by establishing values for causal variables (e.g., total nitrogen and total phosphorus) and response variables (e.g., turbidity and chlorophyll *a*). Causal variables are necessary to provide sufficient protection of designated uses before impairment occurs and to maintain downstream uses. Early response variables are necessary to provide warning signs of possible impairment and to integrate the effects of variable and potentially unmeasured nutrient loads.

Table 3. EPA Ecoregion 8 nutrient criteria.

Nutrient Criteria	Streams	Lakes
Total Phosphorus	10 µg/L	8 µg/L
Total Nitrogen	0.38 mg/L	0.24 mg/L
Chlorophyll <i>a</i>	0.63 µg/L	2.43 µg/L
Secchi disk depth	N/A	4.93 m

These criteria were developed specifically for Ecoregion 8 (which includes the entire states of Maine, New Hampshire, and Vermont) and are designed to represent conditions of surface waters that are minimally impacted by human activities and thus protect against the adverse effects of nutrient over-enrichment from cultural eutrophication. The values are EPA’s scientific recommendations regarding ambient concentrations of nutrients that protect aquatic resource quality. They do not have any regulatory impact or meaning.

For lakes (waterbodies greater than 10 acres and with mean water residence time of 14 or more days; U.S. Environmental Protection Agency 2000a), the criteria were established based on the lower 25th percentile of lakes that EPA found data for. This percentile of all lakes is expected to approximately correspond to the 75th percentile of reference (undisturbed) lakes. In other words, 75% of lakes in the ecoregion do not meet the criteria, nor do roughly 25% of reference lakes. For streams and rivers, a parallel approach was used to establish the nutrient criteria (U.S. Environmental Protection Agency 2000b).

Results

Monitoring results for 2012 are displayed in scatter-plot graphs showing all data for each site for a given parameter. The scatter plots of 2012 data are overlaid on box plots representing the overall range and distribution of data values collected from 2006 through 2012 for the specified parameter and site (Appendix A contains all data in tabular form). A box plot (Figure 2) is a summary plot that graphs data as a box representing statistical values. The boundary of the box closest to zero indicates the 25th percentile, a line within the box marks the median, and the boundary of the box farthest from zero indicates the 75th percentile. Whiskers (error bars) above and below the box indicate the 90th and 10th percentiles respectively. Outliers are displayed as black filled circles. At least nine data points are required to compute the 5th, 10th, 90th and 95th percentiles. If a percentile point is unable to be computed, that set of points is not drawn. If EPA or other water quality criteria exist for a particular parameter they are displayed on the graphs as specification lines.

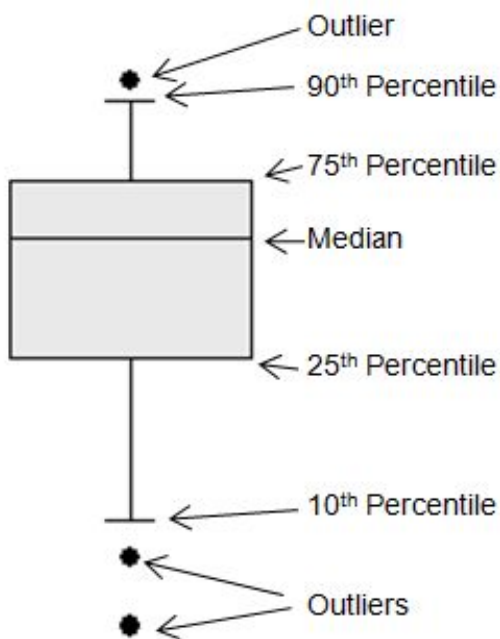


Figure 2. Explanation of box plot graph

Water Quality

Measures of water quality include specific conductance, pH, water temperature, dissolved oxygen (DO), acid neutralizing capacity (ANC), and apparent color. Assessment of water quality data aids in the interpretation of the biotic condition and ecological processes of surface water resources.

Specific Conductance

Specific conductance (shown for lakes in Figure 3 and streams in Figure 4) is a measure of the ability of water to carry an electrical current, and is directly related to the level of dissolved ions in the water. An increase in specific conductance can be an indicator of pollutants in the water. Naturally occurring values range from less than 20 to more than 1,000 microsiemens per centimeter ($\mu\text{S}/\text{cm}$). Specific conductance values from 2012 were within the appropriate range for low ionic strength waters, and lake values were generally within the range shown on the box plot. In August, Aunt Bettys Pond was monitored from the shore at the stage monitoring site due to high winds. Collecting the sonde measurements and water sample in shallow water close to the carriage road may explain the higher specific conductance value for this sampling event. August stream values were high in most streams, likely due to low stream flow, and elevated values in July and August samples from Marshall Brook may also reflect a signal from upstream road construction occurring during this time period.

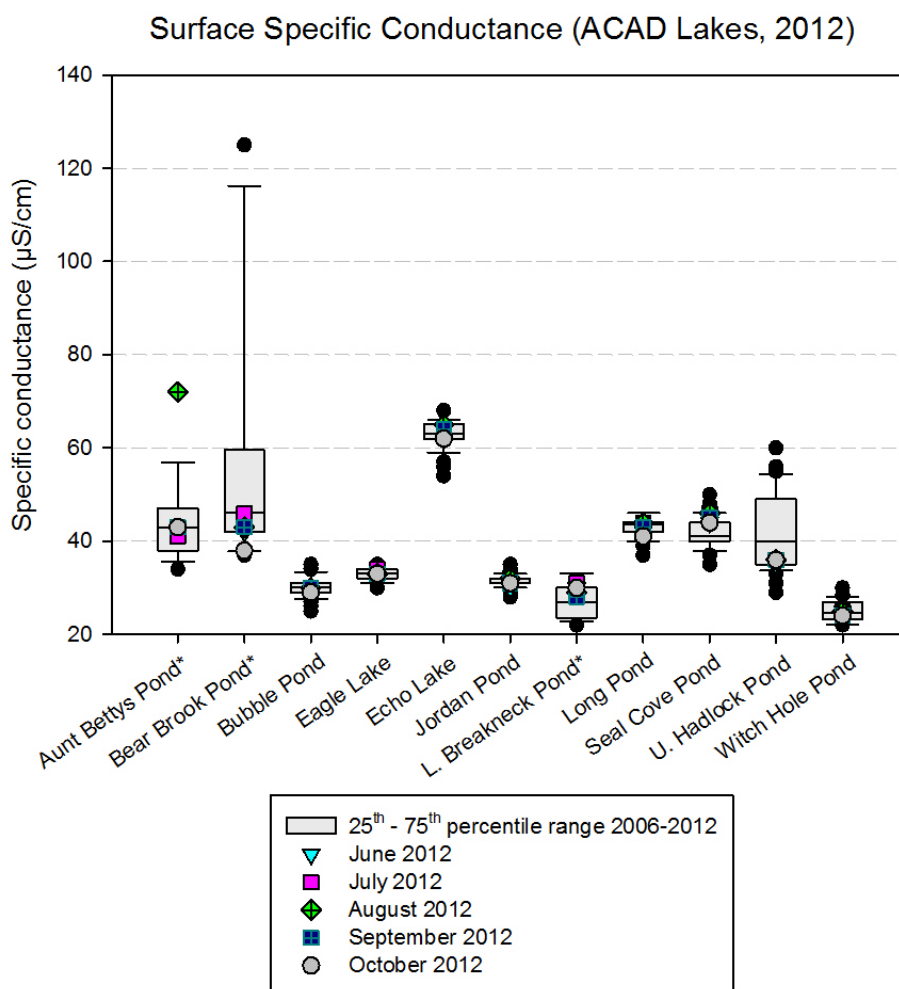


Figure 3. Lake specific conductance from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

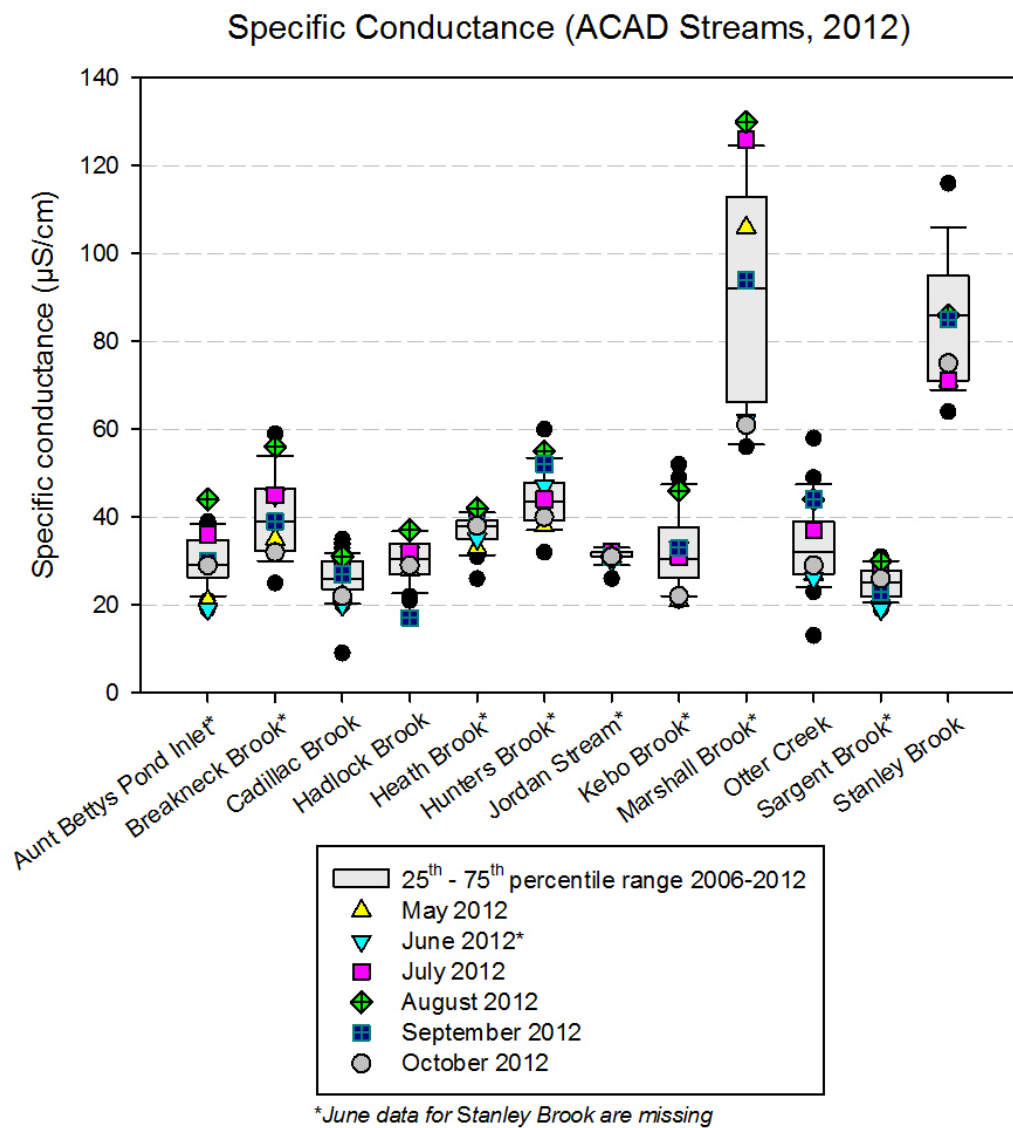


Figure 4. Stream specific conductance from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

pH Level

The pH of a water body reflects how acidic or basic the water is, measured on a scale of 1 to 14, with 7 being neutral. Acid waters are below 7, and alkaline waters are above 7. A one unit change in pH represents a 10-fold change in acidity or alkalinity. Maine has no numeric water quality standard for pH, but standards of most northeast states indicate that a pH between 6.5 and 8.0 is within the acceptable range. Most lake pH values from the 2012 monitoring season (Figure 5) were slightly acidic, which is typical of poorly-buffered, unproductive Maine waters. Some of the smaller lakes (Aunt Bettys Pond, Lower Breakneck Pond, and Witch Hole Pond) with pH values in the lower range are rimmed by wetlands, which contribute natural acidity to the system.

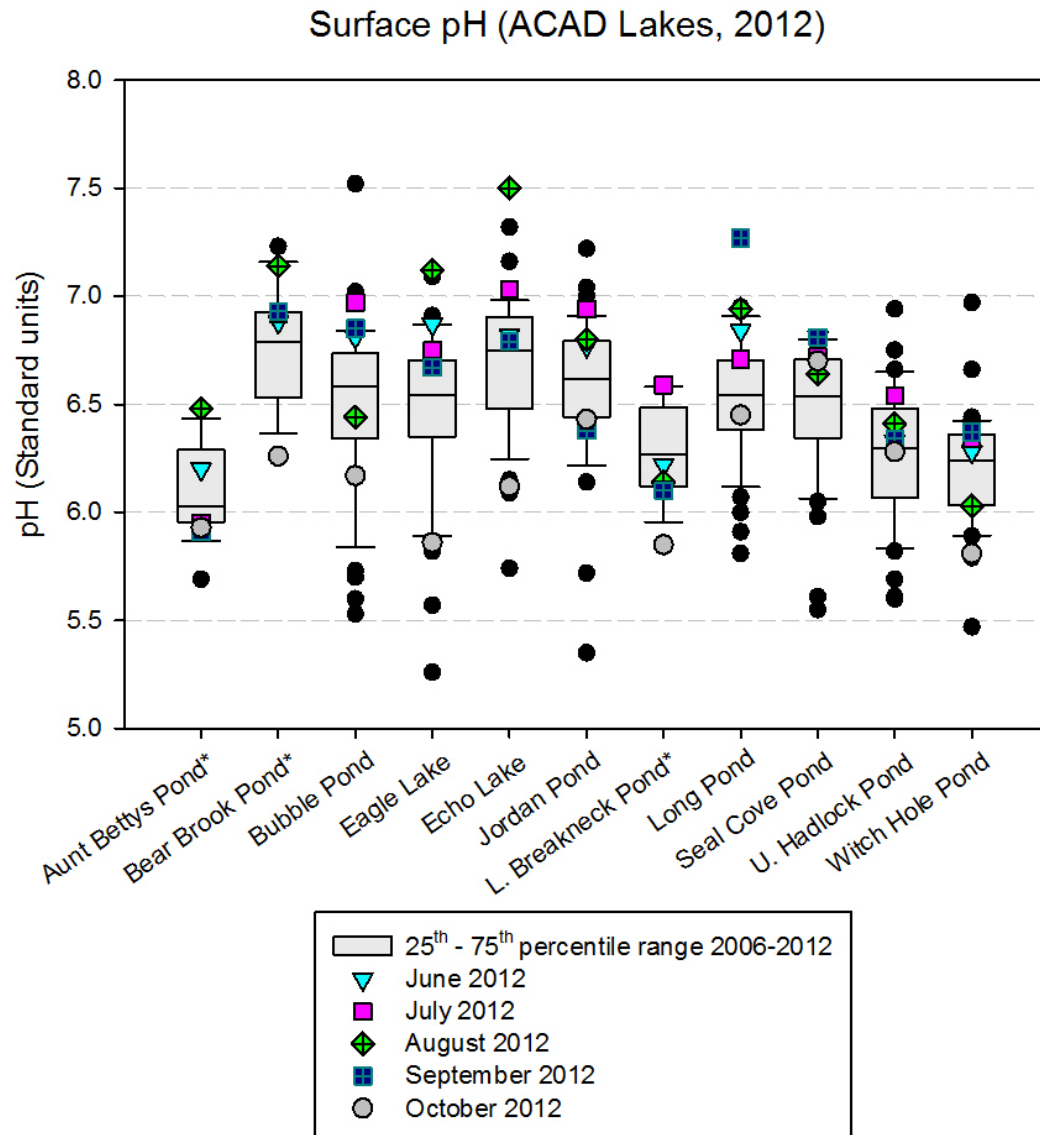


Figure 5. Lake pH from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

The majority of stream pH measurements in 2012 (Figure 6) were also slightly acidic. Heath Brook and Aunt Bettys Pond Inlet are downstream of wetlands that contribute organic acidity and in turn lower stream pH. Cadillac Brook is a high-elevation stream site, susceptible to episodic acidification from acid deposition due to the minimal buffering of the granite bedrock and thin soils. Sargent Brook is sampled at a lower elevation than Cadillac Brook, though their two watersheds are similar.

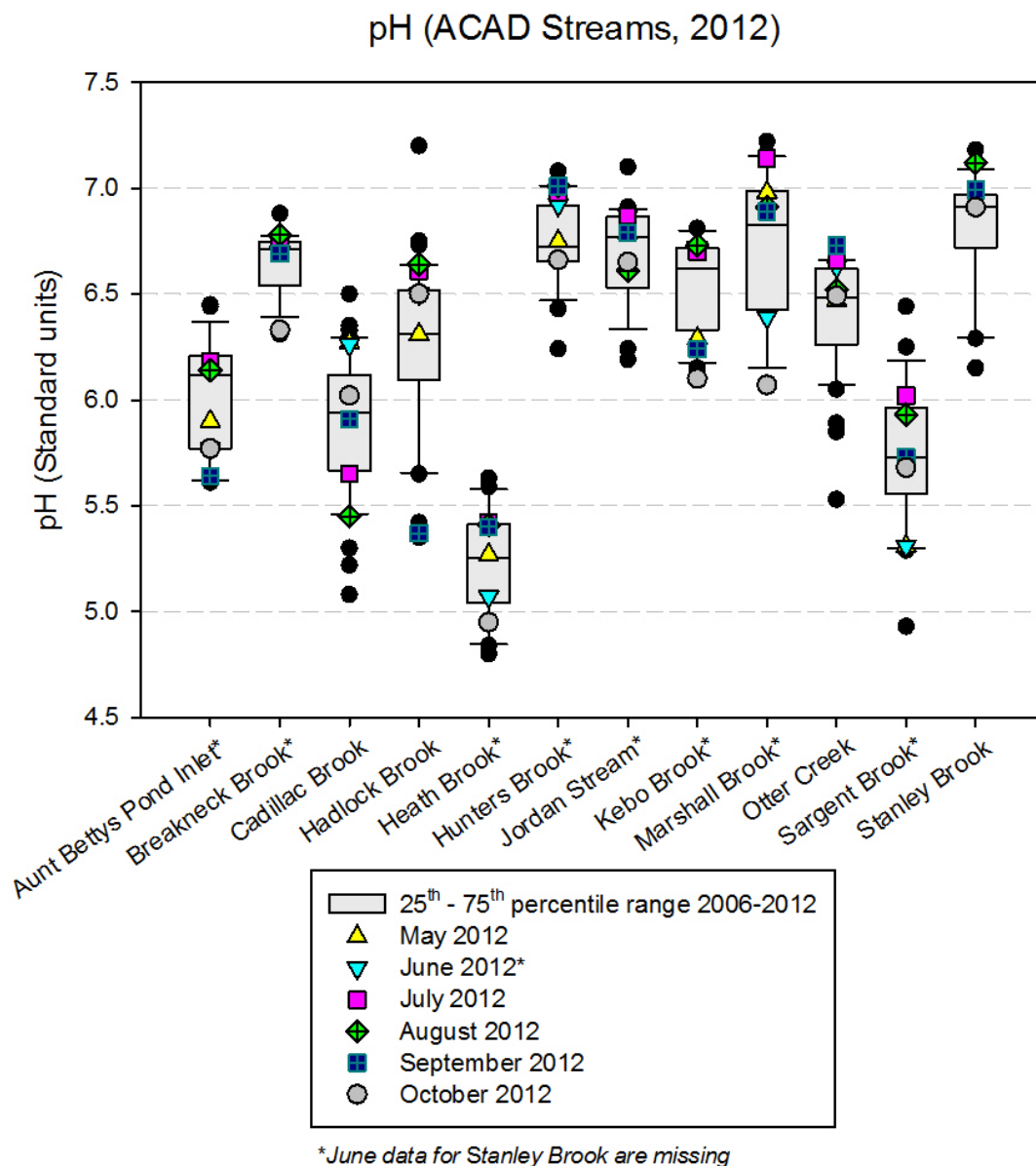


Figure 6. Stream pH from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Temperature

Temperature can affect water chemistry and biology. For example, the amount of oxygen that water can hold is directly related to the temperature of the water. The higher the temperature, the less oxygen water can hold, which can be observed in both diel (day and night) and seasonal shifts. Oxygen will naturally decline during the summer months as water temperatures rise. Temperature can also determine the kinds of plants and animals found in a lake, pond or stream. Certain species of fish, insects, and algae will predominate during the cooler temperatures of the spring and fall, yet be less visible and/or abundant during the warmer temperatures of summer. Many July and August lake and stream water temperatures (Figures 7 and 8) were in the upper range of variability in 2012, reflecting the contributions of high air temperature and solar radiation. Several May stream temperature values were in the lower range of the historic NETN monitoring data from Acadia.

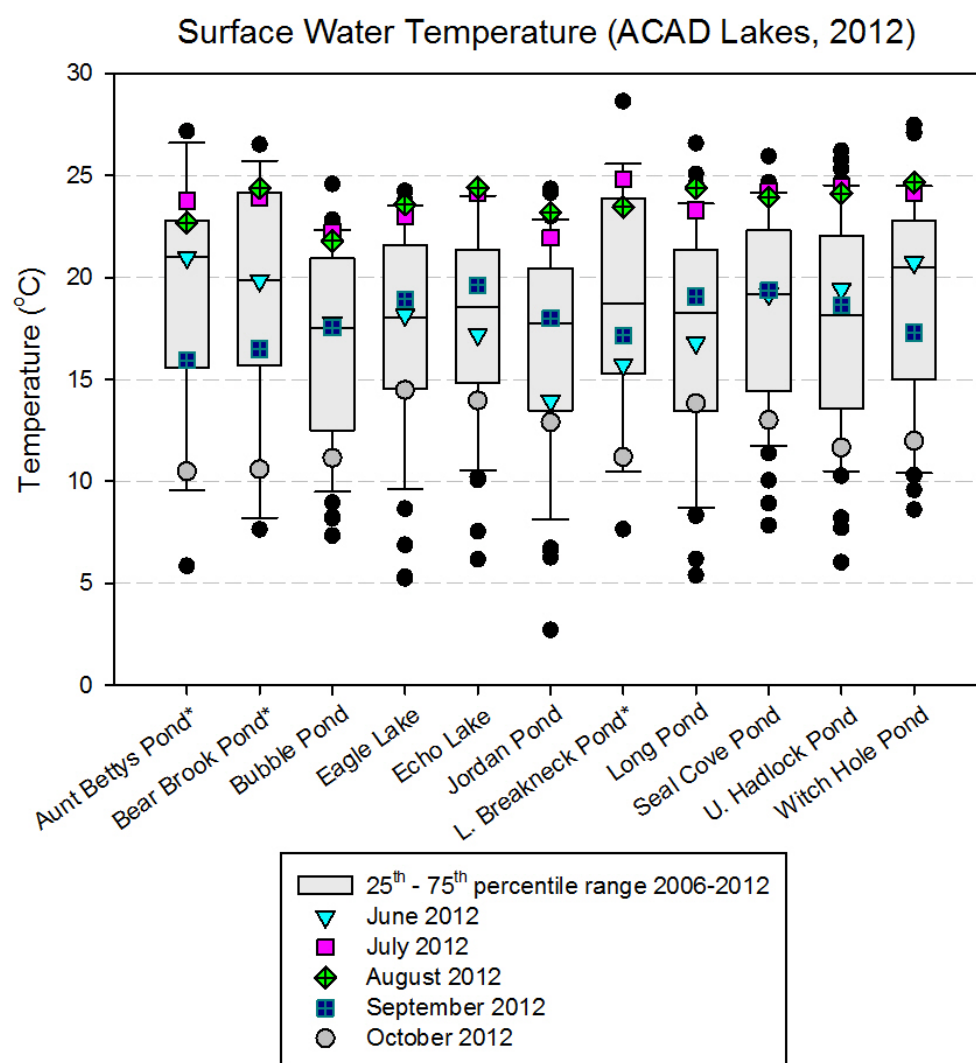


Figure 7. Lake water temperature (surface) from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

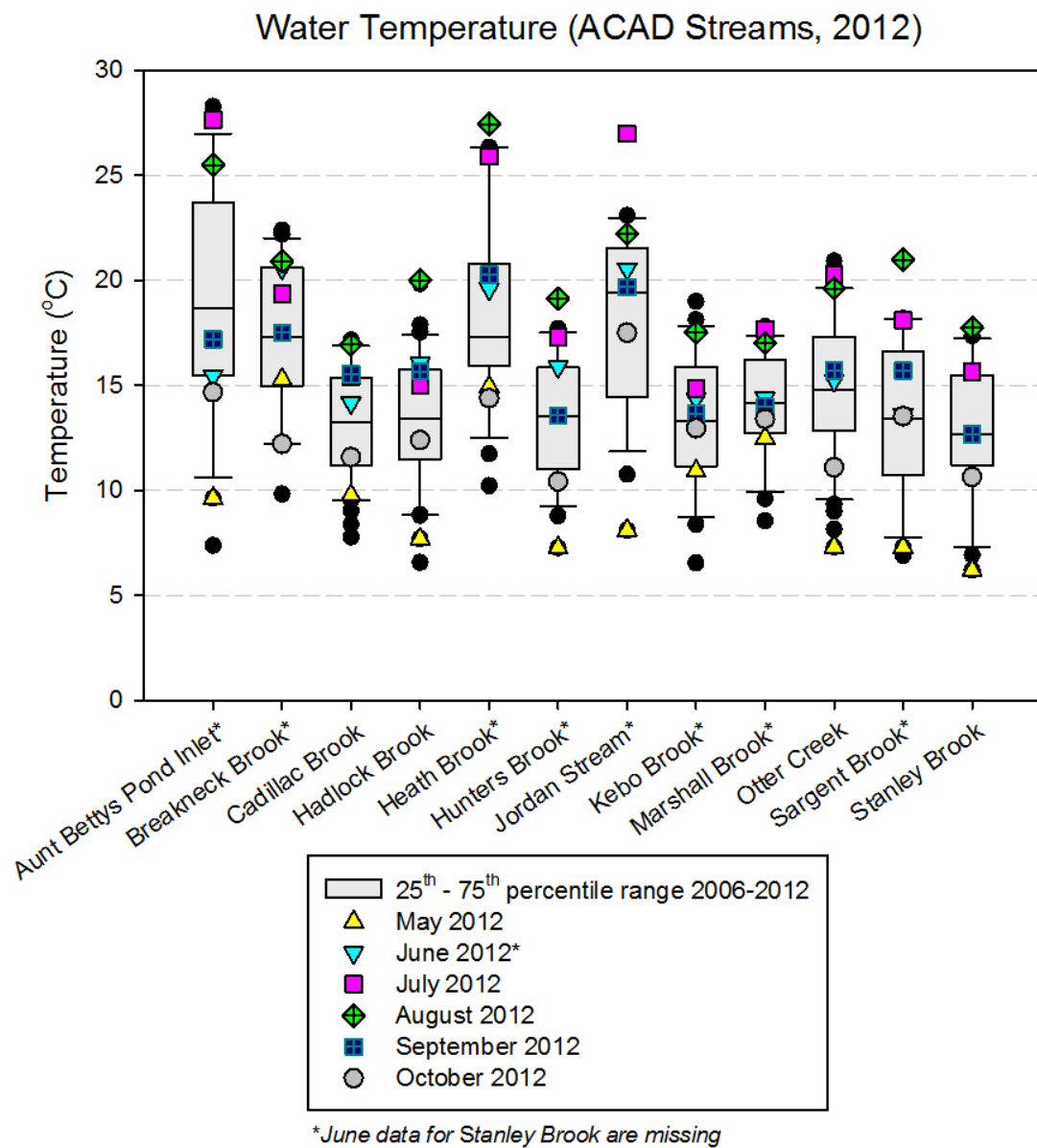


Figure 8. Stream water temperature (surface) from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Dissolved Oxygen

Dissolved oxygen (DO) is a critical indicator of water quality because aquatic life generally needs DO concentrations at or above 5 mg/L to thrive. Low oxygen can directly kill or stress organisms such that they will not be able to successfully reproduce or grow. Water with less than 1 mg/L of oxygen is considered anoxic (no oxygen present). The surface layers of all ACAD lakes monitored in 2012 were well oxygenated (Figure 9) although mid-summer DO profiles of some of the shallow, more productive lakes showed some moderate oxygen depletion at lower depth. This is a common occurrence as water temperatures rise and temperature stratification inhibits oxygen replenishment to deeper waters. The complete profile data are provided in Table A2 in Appendix A.

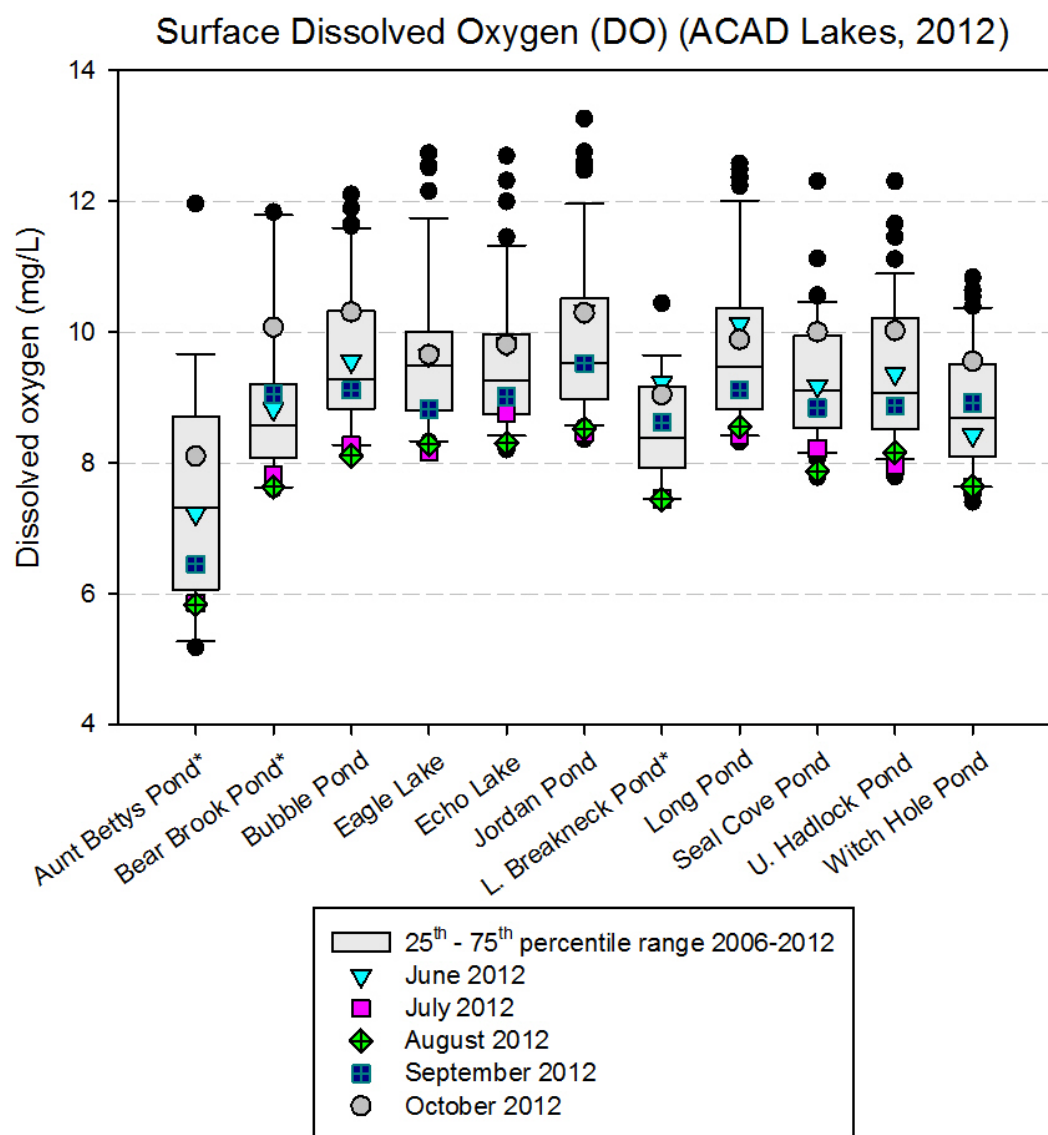


Figure 9. Lake dissolved oxygen (surface) from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Although Maine has no numerical dissolved oxygen minimum standards for Class AA streams, which includes all streams in Acadia, the DO content of Class A waters (the next lowest classification) is required to be above 7 mg/L. Most of the 2012 stream DO measurements (Figure 10) were above this standard, with only a few summer measurements falling below 7 mg/L. There was either very low stream flow or high temperature during the monitoring events with lower DO concentrations.

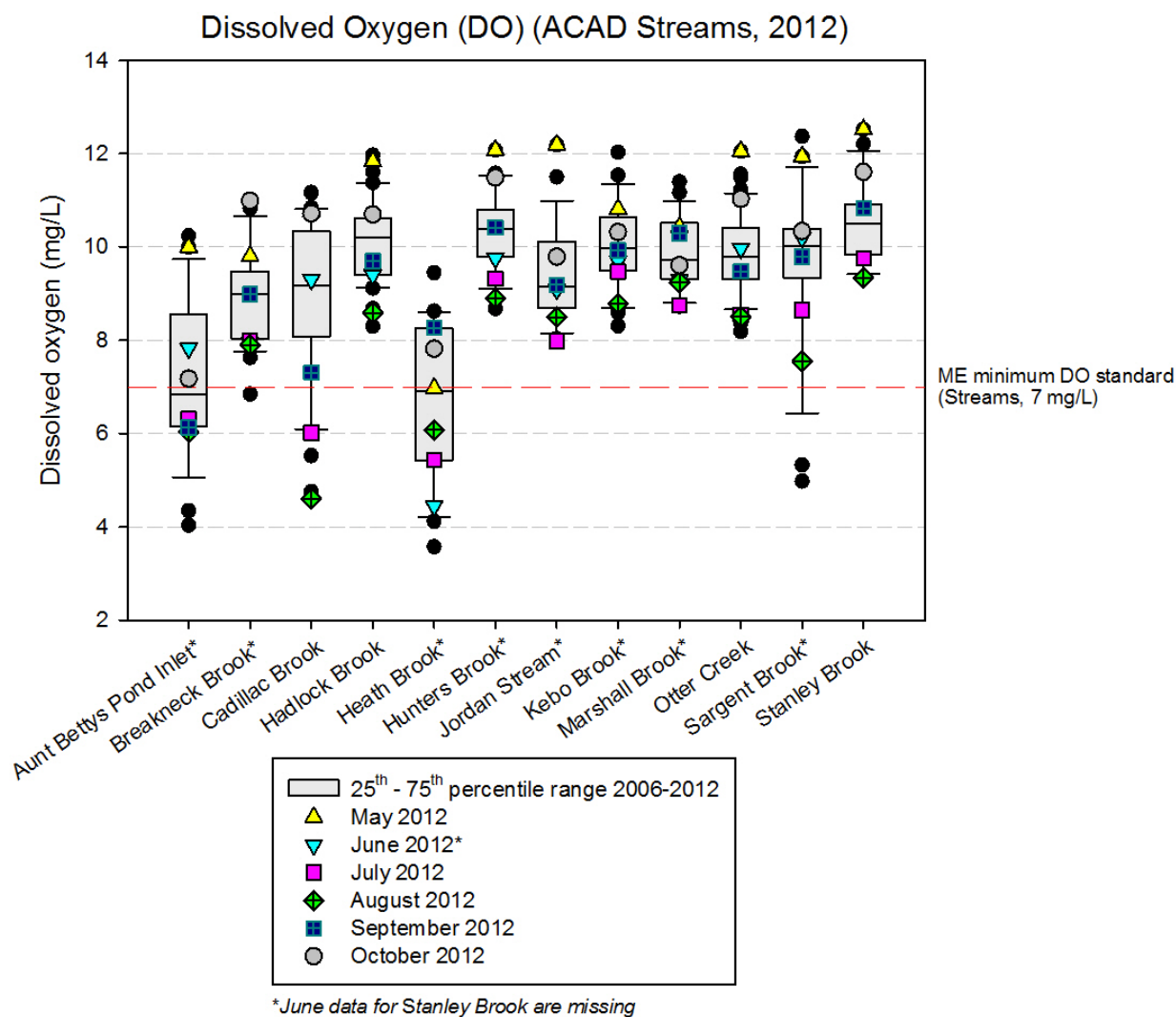


Figure 10. Stream dissolved oxygen (surface) from 2012 YSI sonde in-situ measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Acid Neutralizing Capacity

Acid neutralizing capacity (ANC) is also known as alkalinity, or buffering capacity. It is due primarily to the presence of naturally available bicarbonate, carbonate, and hydroxide ions, with bicarbonate being the major form. Most states do not have numerical criteria for ANC in their water-quality standards. ANC values greater than 100 $\mu\text{eq/L}$ are considered well-buffered, while values less than zero typify acidic waters (Stoddard et al. 2003). Acadia surface waters are generally poorly buffered, a result of chemically-resistant granite bedrock, thin (or absent) soils, and steep slopes with rapid runoff (Kahl et al. 2000). Despite this characterization, acid neutralizing capacities measured in many of the August 2012 samples (Figures 11 and 12) were some of the highest in NETN monitoring history at Acadia. In both lakes and streams, spring 2012 ANC measurements followed the typical seasonal pattern of being lower than summer values. This is likely due to the contribution of episodic acidification from spring snowmelt and runoff.

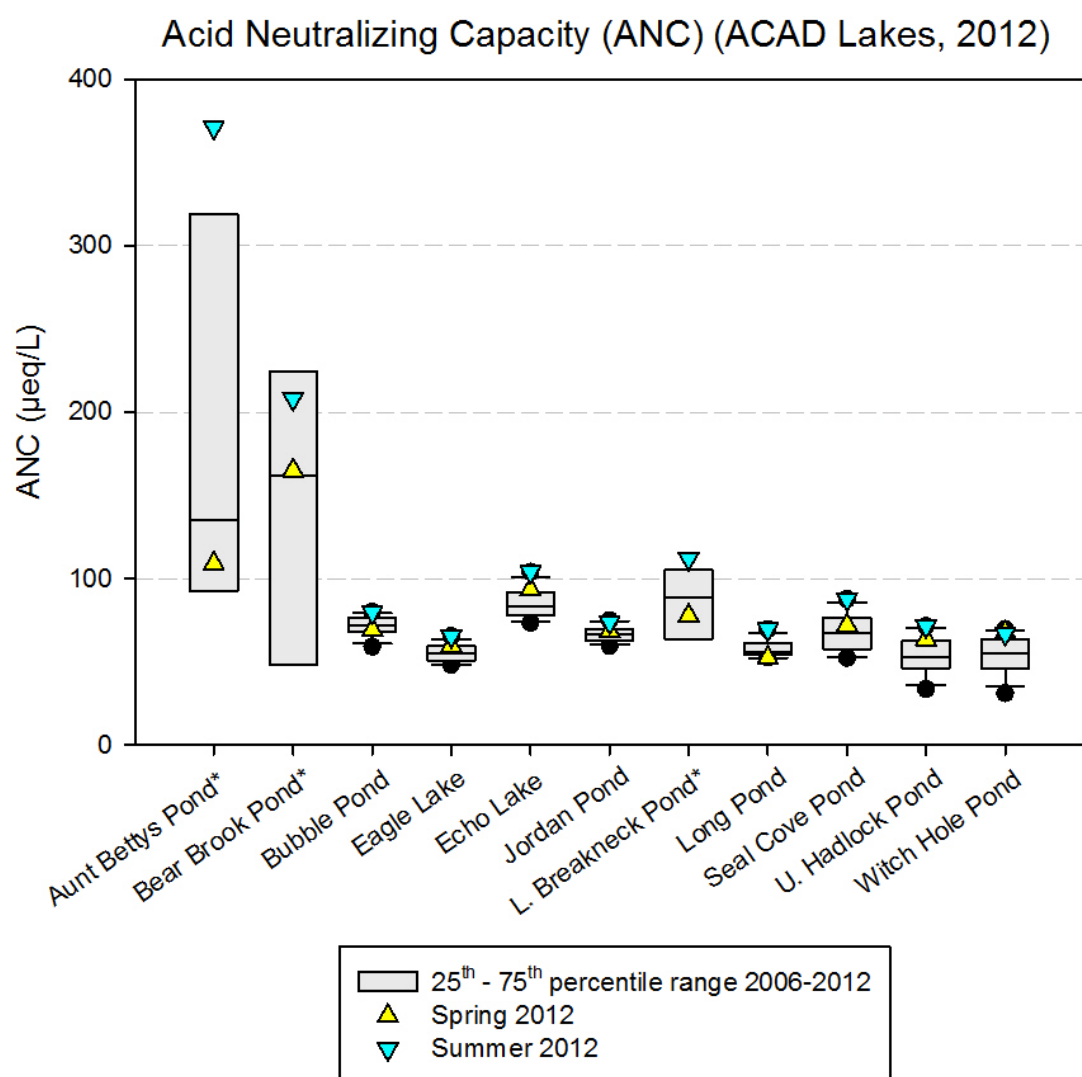


Figure 11. Lake acid neutralizing capacity from 2012 spring and summer water samples overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Stream ANC (Figure 12) exhibited much greater seasonal variability than lake ANC values, and many of the summer (August) stream ANC measurements were considerably higher than those from the lakes. The higher elevation streams (Cadillac, Hadlock, and Sargent Brooks) had the lowest ANC values, along with Heath Brook which drains a large, naturally acidic wetland.

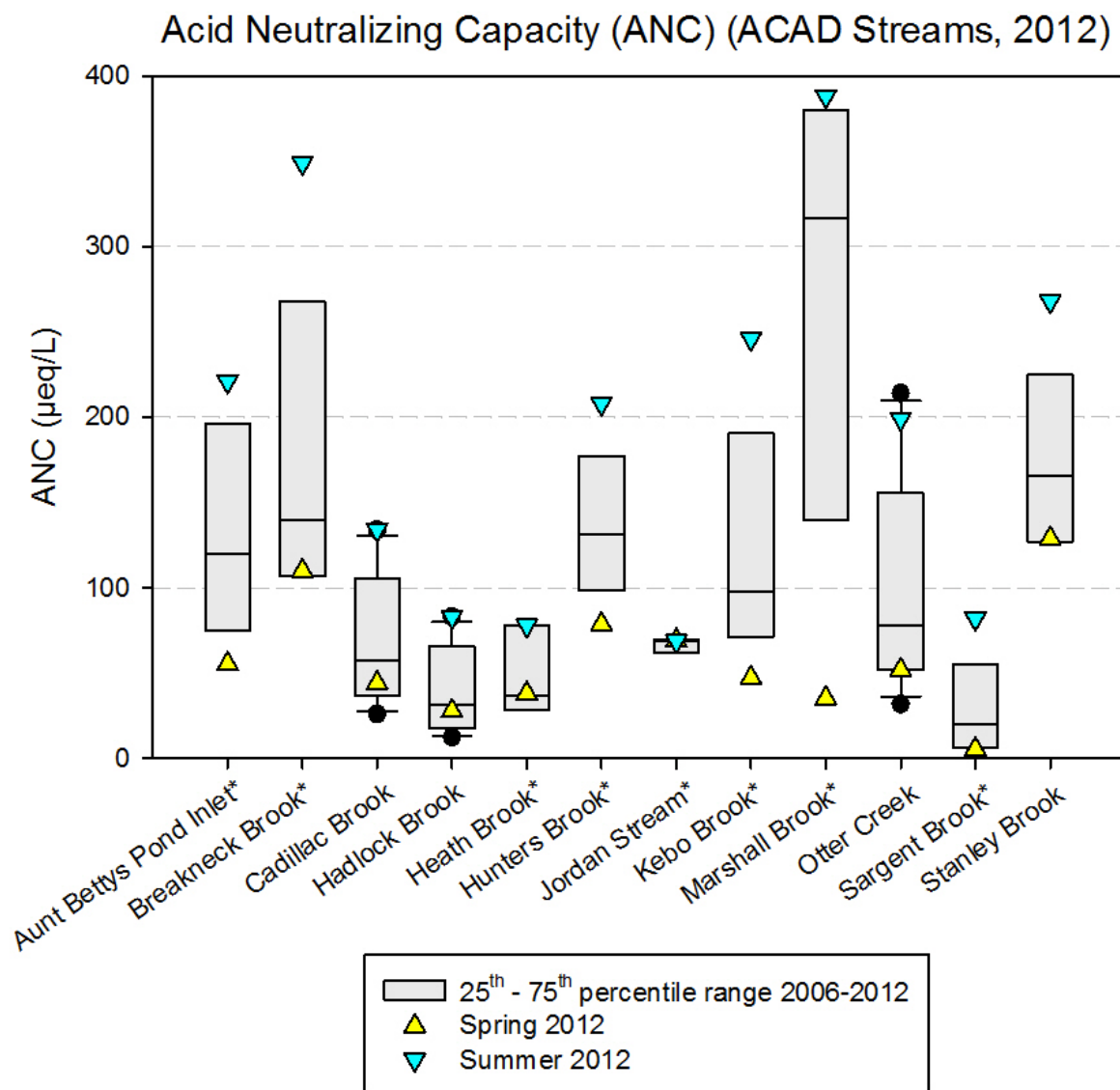


Figure 12. Stream acid neutralizing capacity from 2012 spring and summer water samples overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Apparent Color

Color in pond and stream water is caused by natural metallic ions, humus and peat materials, plankton, weeds, and industrial wastes. Color is reported in Platinum-Cobalt (Pt-Co) units (PCU). Apparent color (the measurement method utilized by NETN) is determined on original samples without filtration. Color can be a rough indicator for organic acidity.

Water bodies with apparent color values greater than 25 PCU are considered to be highly colored, and often exhibit reduced water clarity and high phosphorus concentrations. Values of color are usually not included in water quality standards, except to note that they should be as naturally occurs.

Color values from the larger, deeper Acadia lakes were low, both in 2012 samples and in the 2006 to 2012 data (Figure 13). The shallower, more productive lakes were moderately to highly colored and historic measurements were more variable. This generally reflects the contribution of dissolved organic carbon (DOC) and other organic acidity. Direct measurements of both lake and stream DOC began in 2012 and are graphed in the following section.

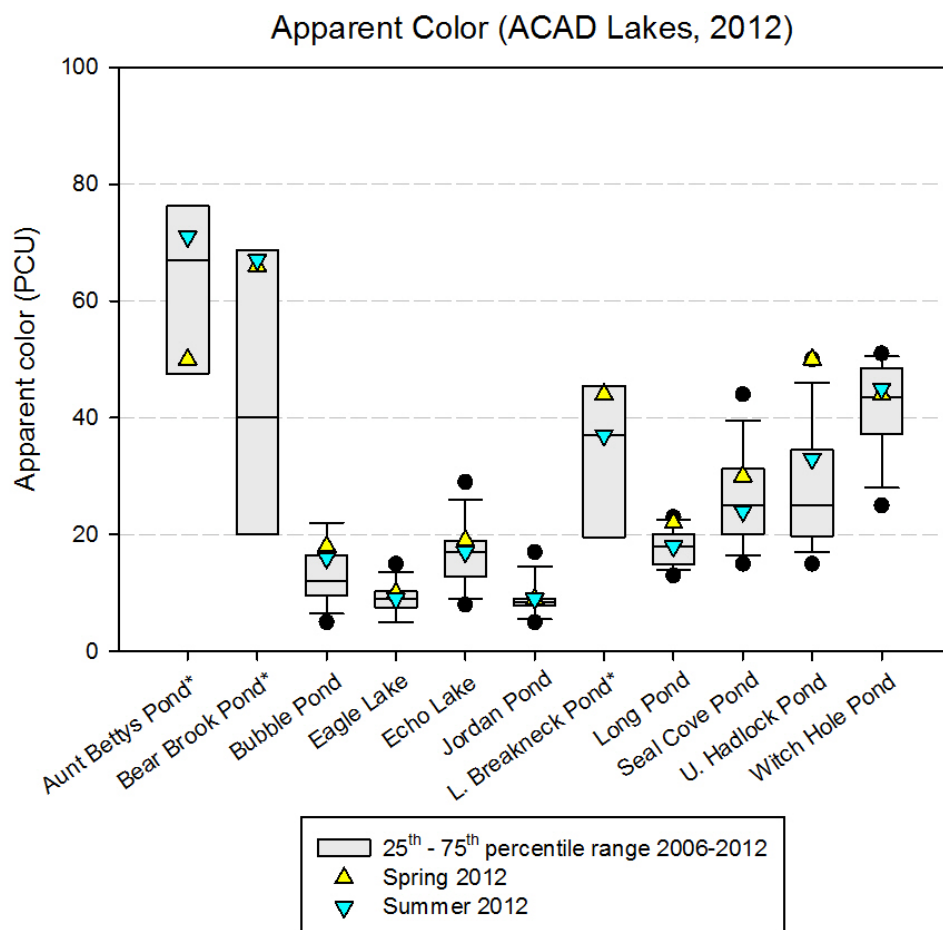


Figure 13. Lake apparent color from 2012 spring and summer water samples overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Stream apparent color values (Figure 14) were generally low, with the exception of Heath Brook and Marshall Brook. Upstream wetlands likely influence the color levels of these streams, and Marshall Brook values may also reflect input from upstream road construction. The more moderately elevated values in Aunt Bettys Pond Inlet and Stanley Brook could be the effect of runoff and sediment input to the systems from the adjacent carriage road and erosion from the upstream watershed, respectively.

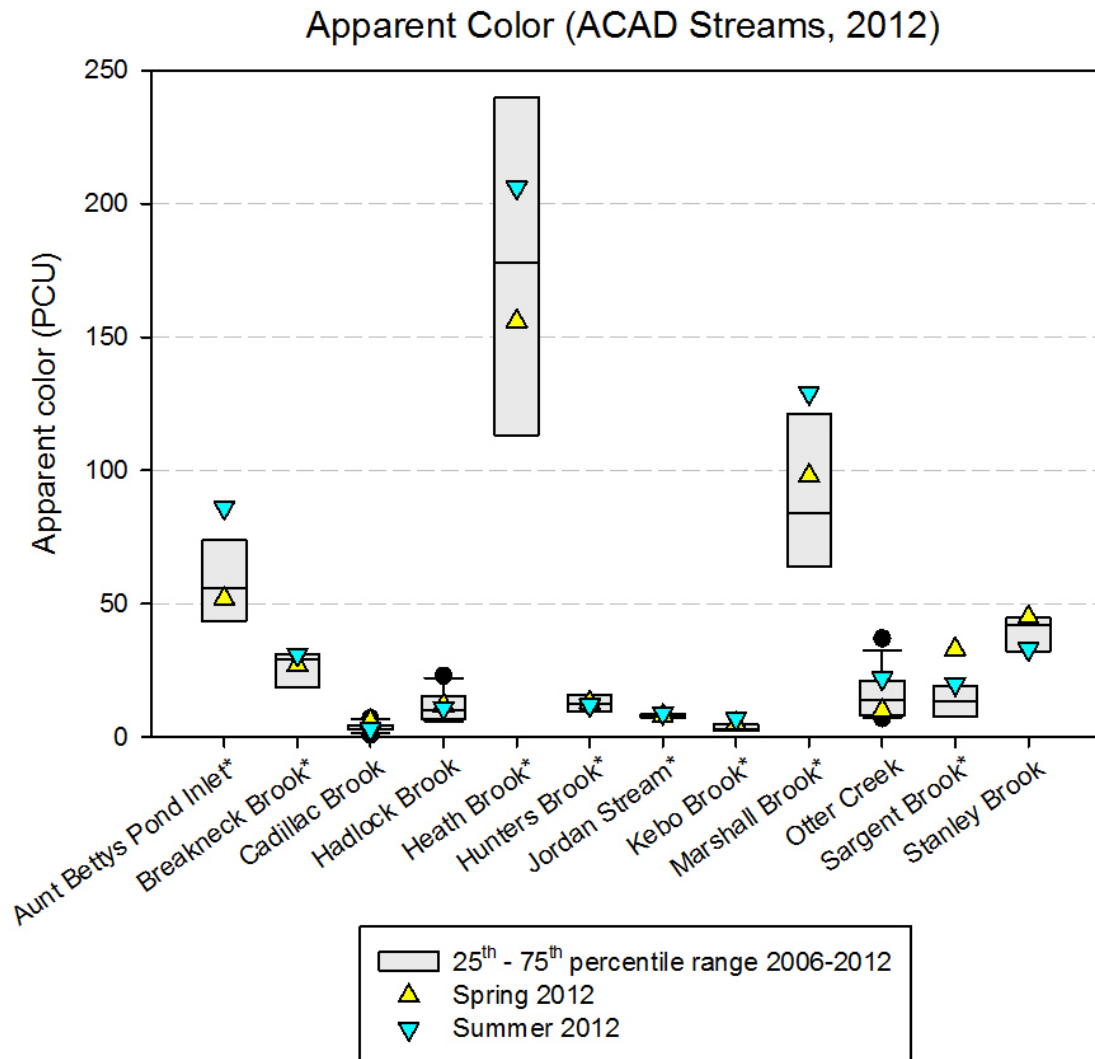


Figure 14. Stream apparent color from 2012 spring and summer water samples overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Dissolved Organic Carbon

Measurement of dissolved organic carbon by NETN began in 2012. Carbon is a nutrient required for biological processes. Sources of organic carbon in water include humic substances from plant and soil organic matter, wetland peat deposits, and atmospheric deposition. Certain forms of DOC can contribute to “tea” color in water, which can affect light attenuation. DOC is also an important part of the energy balance and acid-base chemistry in many freshwater systems. It also affects the transport (solubility and bioavailability) of metals, including mercury, in aquatic systems.

DOC values from Acadia lakes (Figure 15) were closely related to lake apparent color values. As expected, the deeper, less productive lakes had lower DOC concentrations in addition to lower apparent color values.

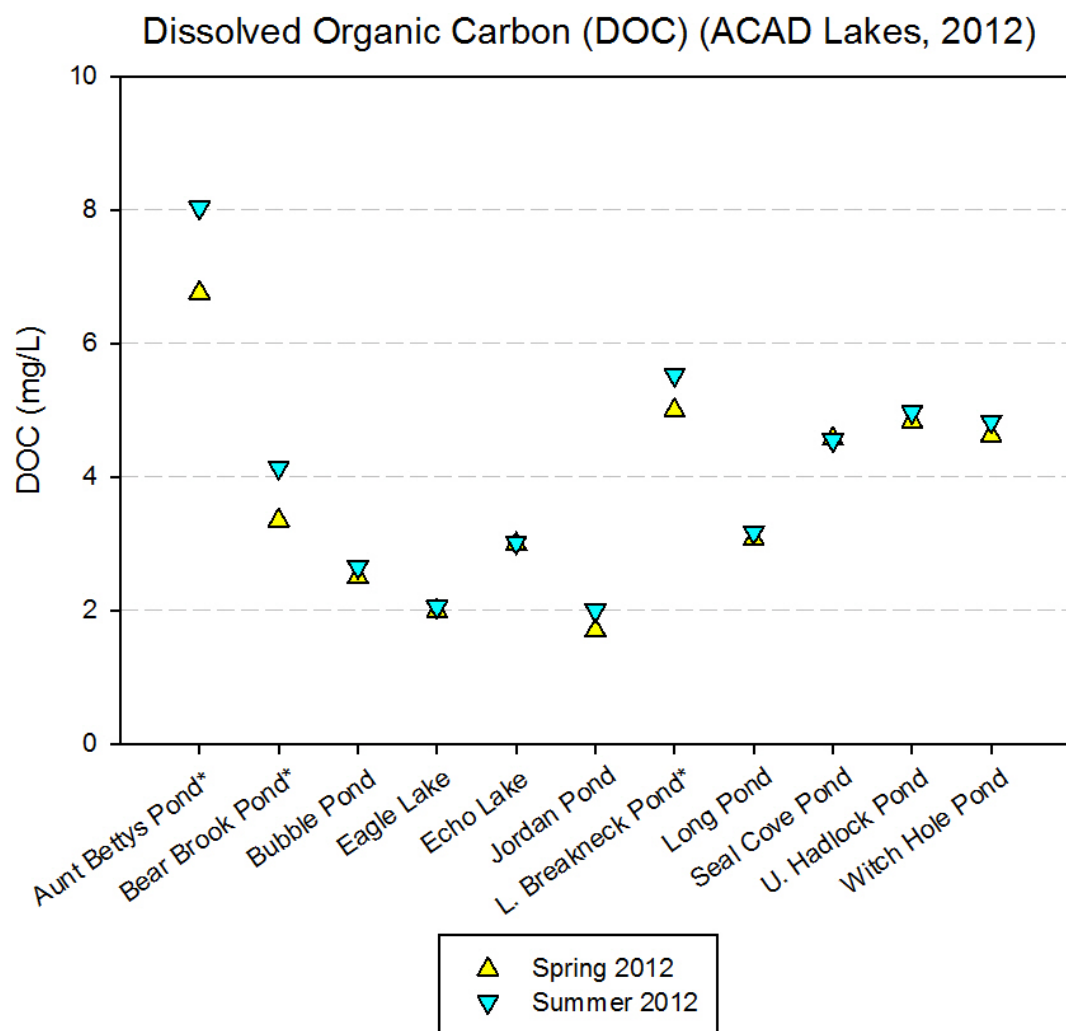


Figure 15. Lake dissolved organic carbon (DOC) from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

DOC values from Acadia streams (Figure 16) were similar to lake DOC values. Heath Brook and Marshall Brook were the notable exceptions, exhibiting the highest DOC levels of all the 2012 samples. Both of these streams also had higher color values, and drain wetlands that contribute organic acidity.

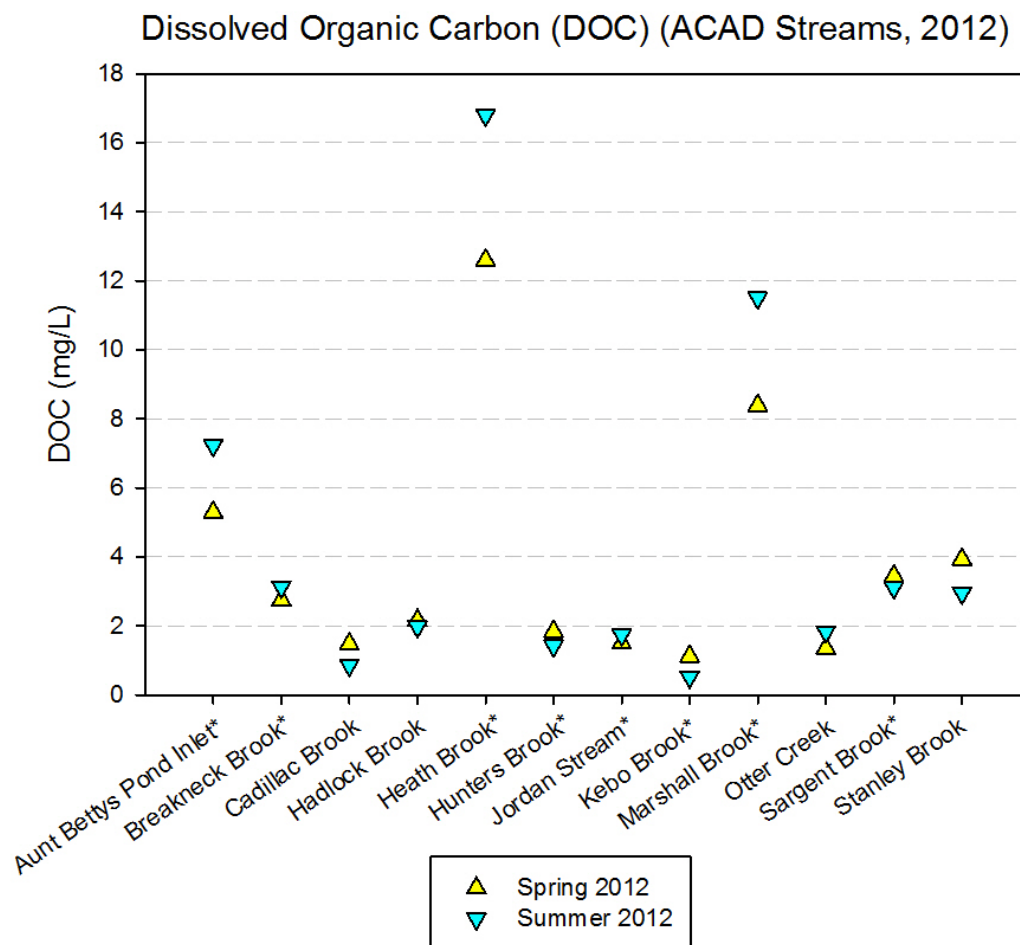


Figure 16. Stream dissolved organic carbon (DOC) from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

Transparency

Transparency measurements can provide simple and affordable assessments of pond and lake productivity. Variation in precipitation is one of the major factors contributing to annual shifts in transparency. Often during drier conditions lakes and ponds will become clearer due to lower runoff of nutrient and soil inputs. In contrast, decreased transparency readings can often be attributed to the effects of high levels of spring and fall precipitation, as well as the cumulative effects of a high rainfall year.

2012 Secchi disk transparency measurements (Figure 17) in the majority of the lakes were distributed close to historical values for NETN monitoring at Acadia, with the exception of two July values: a high value of 12.83 m in Eagle Lake and a low value of 3.6 m in Seal Cove Pond.

In August, Aunt Bettys Pond was monitored from the shore at the stage monitoring site due to high winds and transparency was not measured. Transparency depths in the smaller more productive lakes were frequently greater than the water depth, and the clarity of these lakes can be better assessed using a radiation sensor to obtain light penetration profiles.

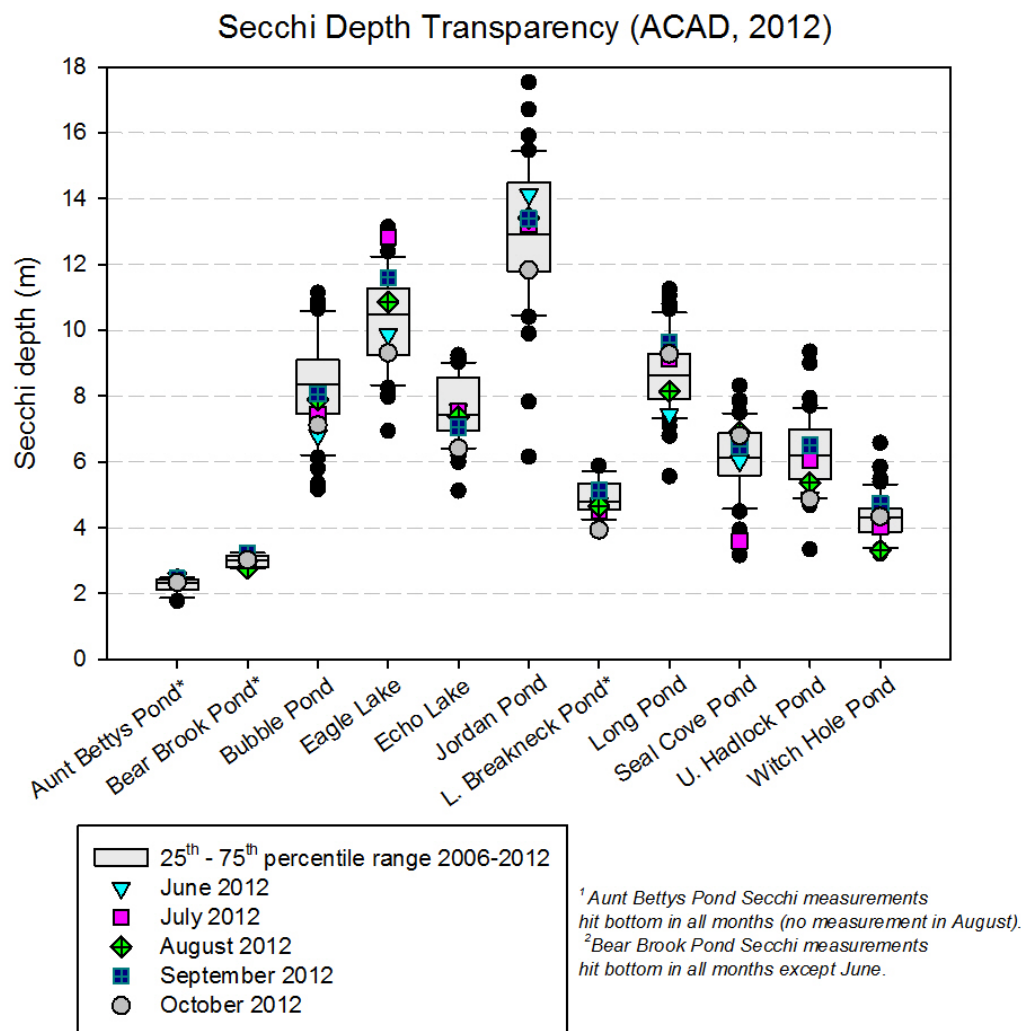


Figure 17. Secchi disk transparency from 2012 monthly measurements overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Light Penetration Profiles

Light penetration profiles can tell us much about the conditions affecting lakes and ponds. Nearly all the energy that drives and controls lake processes is derived from solar energy, which is converted to chemical energy via photosynthesis. This chemical energy is then transported to other areas of the ecosystem as various forms of organic matter. Solar energy, absorbed by the lake and dissipated as heat, plays a large role in defining a lake's thermal structure, stratification, and circulation patterns. These factors in turn affect nutrient cycling and the distribution of dissolved gasses. By understanding the quantity and behavior of the light entering a lake system, we can learn more about how the light is utilized in the system (Wetzel and Likens 2000). Light

penetration profiles are used to measure light attenuation in Jordan Pond (since this pond's clarity is of special interest to park managers and researchers) and the Acadia lakes that are too shallow for use of a Secchi disk.

A light penetration profile is obtained using two solar radiation sensors and a datalogger to determine photosynthetically available radiation or "PAR". One of the sensors is lowered into the water column on a weighted lowering frame, while the second sensor ("deck cell") is left on the surface to record ambient light. The datalogger records and processes readings from both sensors, dividing the measurement of light reaching any given depth by the measurement of ambient light, to yield a percentage. Measurements are taken at one-meter increments of the water column until the light penetration drops below 1%. Graphs of 2012 light penetration profiles are found in Figures 18 through 20. Intermittent datalogger failures precluded obtaining profiles at Aunt Bettys and Bear Brook Ponds in September and October. Full profile data from measurements made in 2012 are listed in Table A6 in Appendix A.

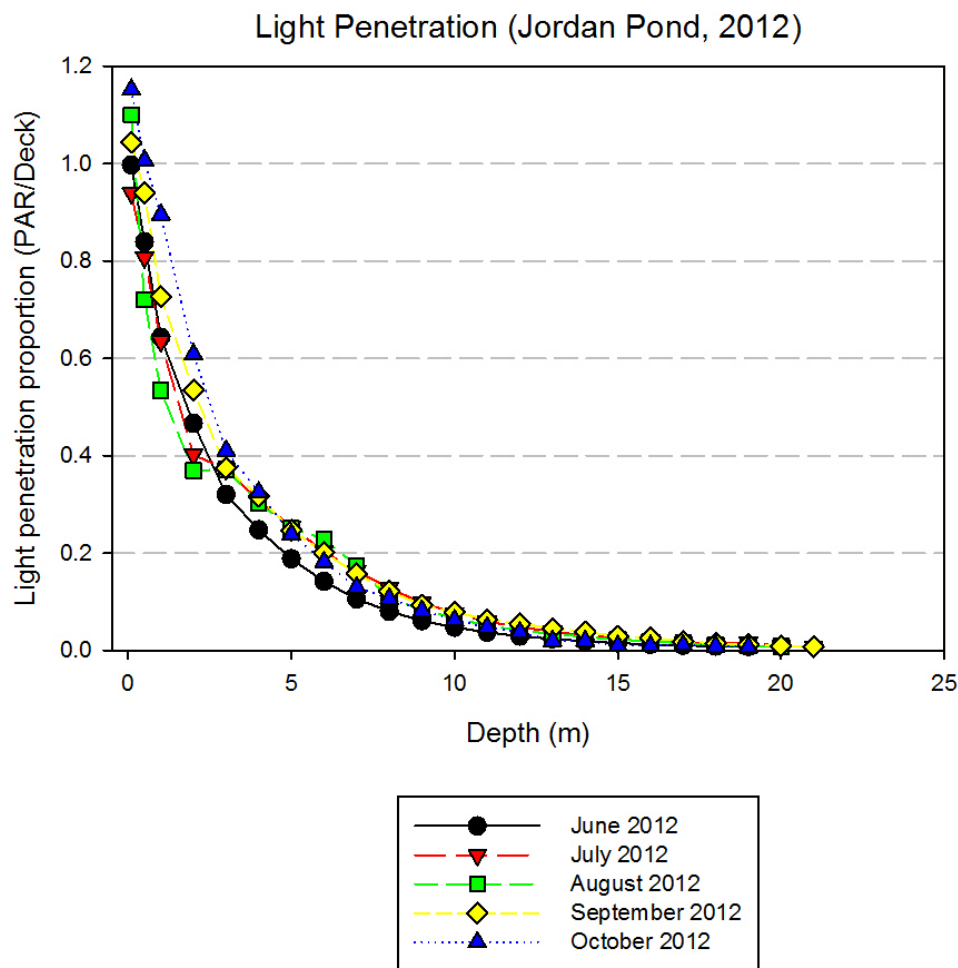


Figure 18. Light penetration profiles from Jordan Pond.

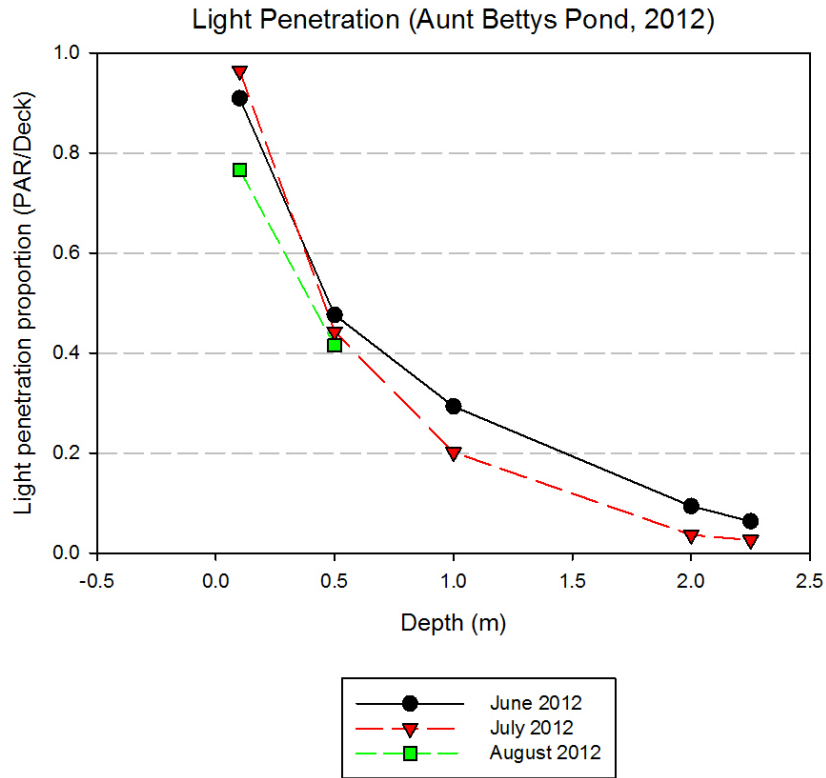


Figure 19. Light penetration profiles from Aunt Bettys Pond.

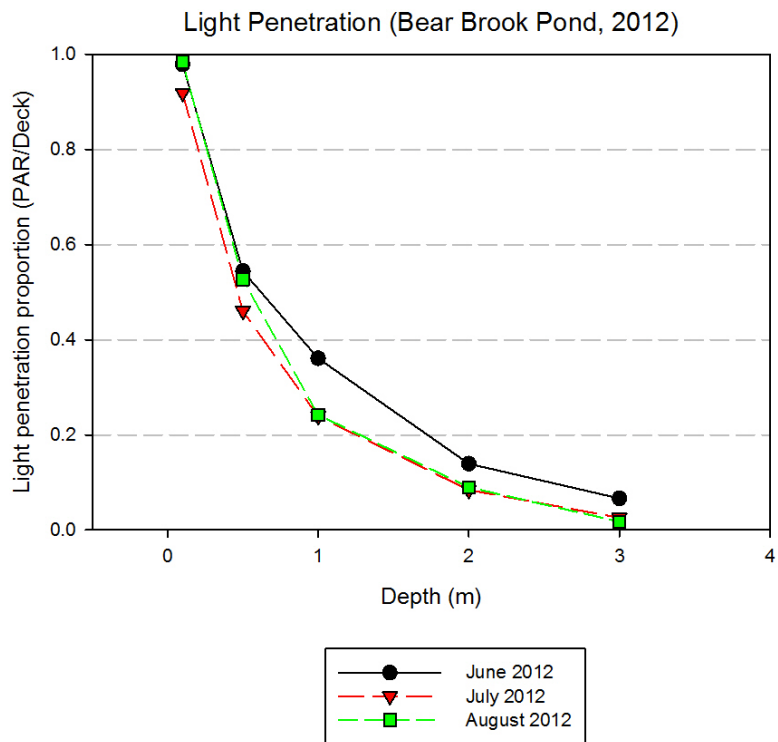


Figure 20. Light penetration profiles from Bear Brook Pond.

Turbidity

Turbidity is the measure of the relative clarity of a liquid. It is measured by passing light through a water sample to determine how much light is scattered, and the results are reported in nephelometric turbidity units (NTU). Turbidity is caused by suspended matter or impurities that interfere with the clarity of the water. These impurities may include clay, silt, finely divided inorganic and organic matter, soluble colored organic compounds, and plankton and other microscopic organisms. In natural waters, turbidity is often used as an indicator of water quality and productivity. Turbidity is measured in the field using an electronic meter.

Turbidity in the water can create aesthetic, ecological, and health issues. Turbid water may indicate runoff from construction, roads, agriculture or other types of pollution. Suspended sediment can carry nutrients and pesticides throughout the water system. Suspended particles near the surface absorb additional heat from sunlight, raising the water temperature. High turbidity levels can reduce the amount of light reaching lower depths of lakes and streams, which can inhibit growth of submerged aquatic plants, and can interfere with the ability of fish gills to absorb dissolved oxygen. Turbidity values measured in Acadia streams during 2012 (Figure 21), the first year of NETN turbidity testing, were all less than 2.5 NTU, in the low range of dry-weather turbidity of surface waters (U.S. Environmental Protection Agency 1999).

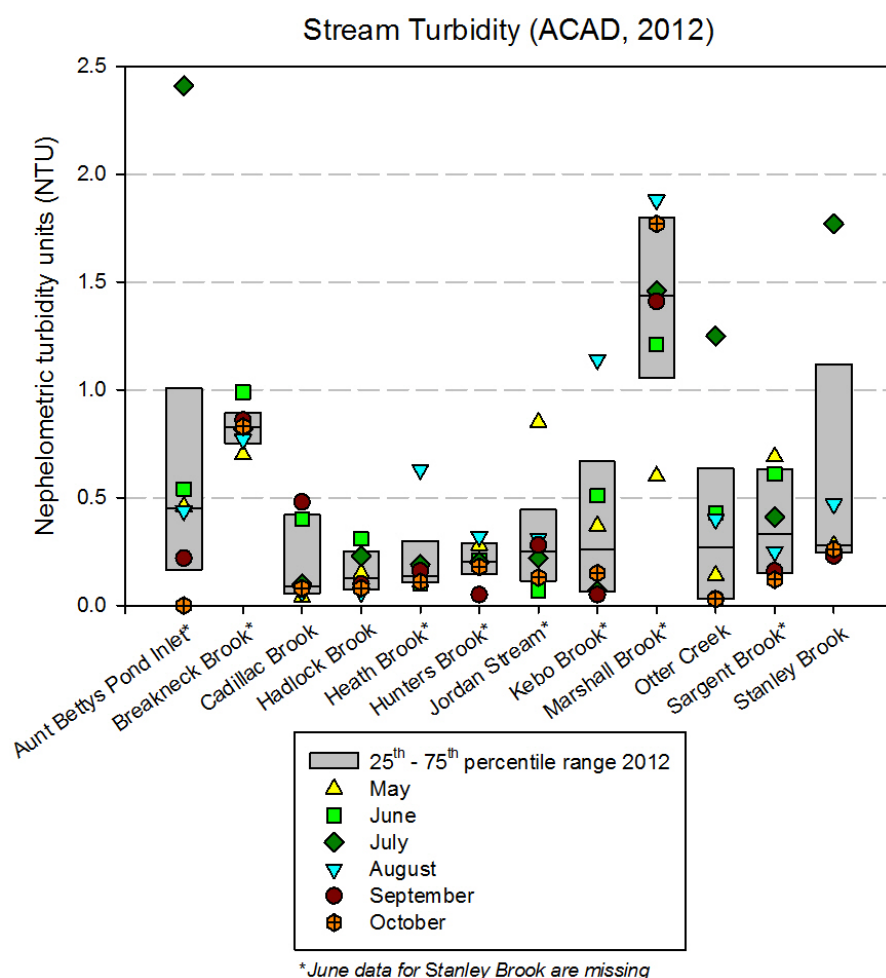


Figure 21. Stream turbidity from 2012 monthly measurements. The data are overlaid on a box plot of measurements taken in 2012.

Nutrient Enrichment

Nutrient enrichment and the acceleration of eutrophication have been identified in most NETN parks as one of the stressors of greatest concern. Total phosphorus and several forms of nitrogen are measured to give managers information regarding the trophic status and productivity of freshwater systems.

Phosphorus

Phosphorus (P) is one of the major nutrients needed for plant growth. It is generally present in small amounts in natural systems and limits the plant growth in streams and ponds. Total phosphorus (TP) is a measure of both inorganic and organic forms of phosphorus, and is the common water quality standard or criteria metric. Although several forms of phosphorus were tested individually since 2006, tests for total dissolved phosphorus (TDP) and soluble reactive phosphorus (SRP) were discontinued in 2012

In 2012, most TP concentrations in lakes (Figure 22) were low, and the majority were below the EPA Ecoregion 8 criterion of 8 µg/L for lakes and ponds. As described above (“Water Quality Standards”), the EPA criteria do not have any regulatory meaning.

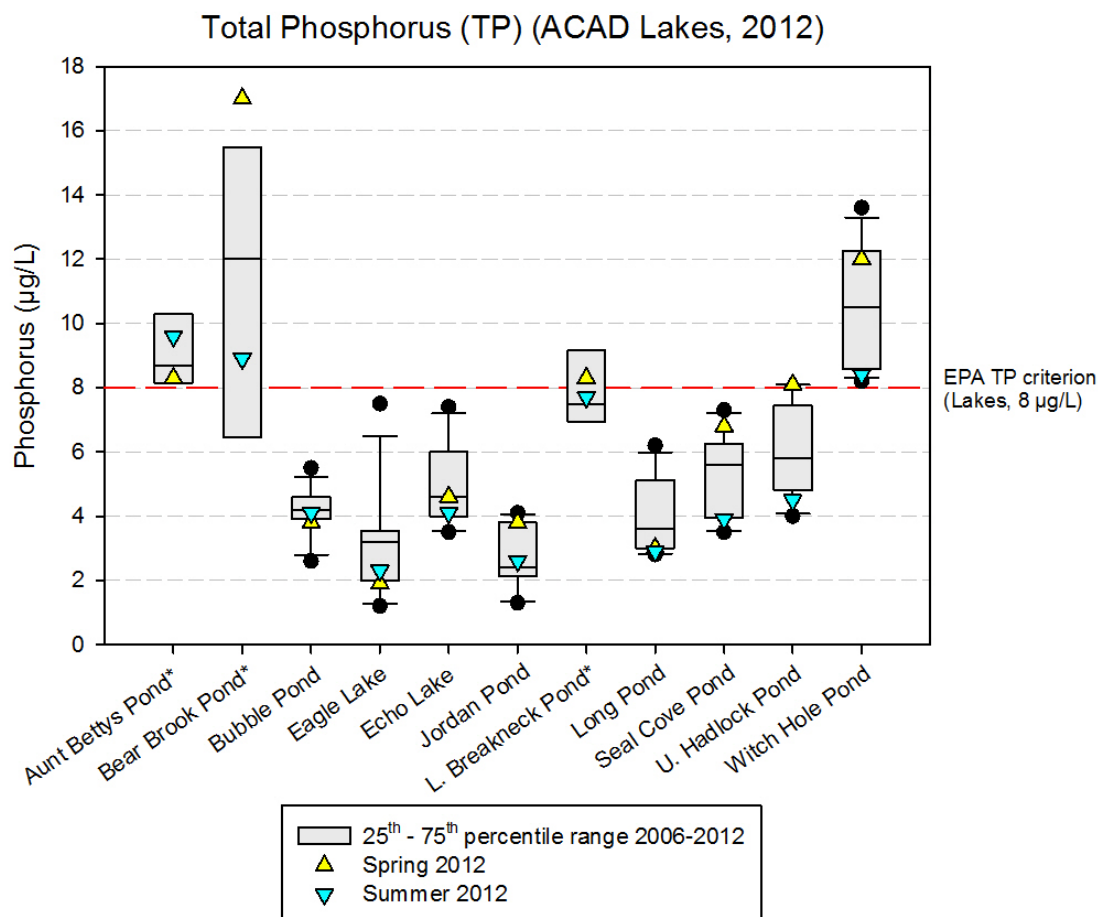


Figure 22. Lake total phosphorus (TP) from 2012 spring and summer water samples. The data are overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only. There is no numeric Maine state water quality TP standard.

Total phosphorus concentrations in streams (Figure 23) were also generally low in 2012. Most TP values were below the EPA Ecoregion 8 criterion of 10 µg/L for streams. The high summer TP values from Aunt Bettys Pond Inlet and Heath Brook may be a result of particles of road dust in the water sample. Both streams cross under unpaved roads, and the surface of the streams and roadside vegetation are often heavily coated with road dust during dry periods of heavier road use. Upstream road construction work may have contributed to the higher August value from Marshall Brook.

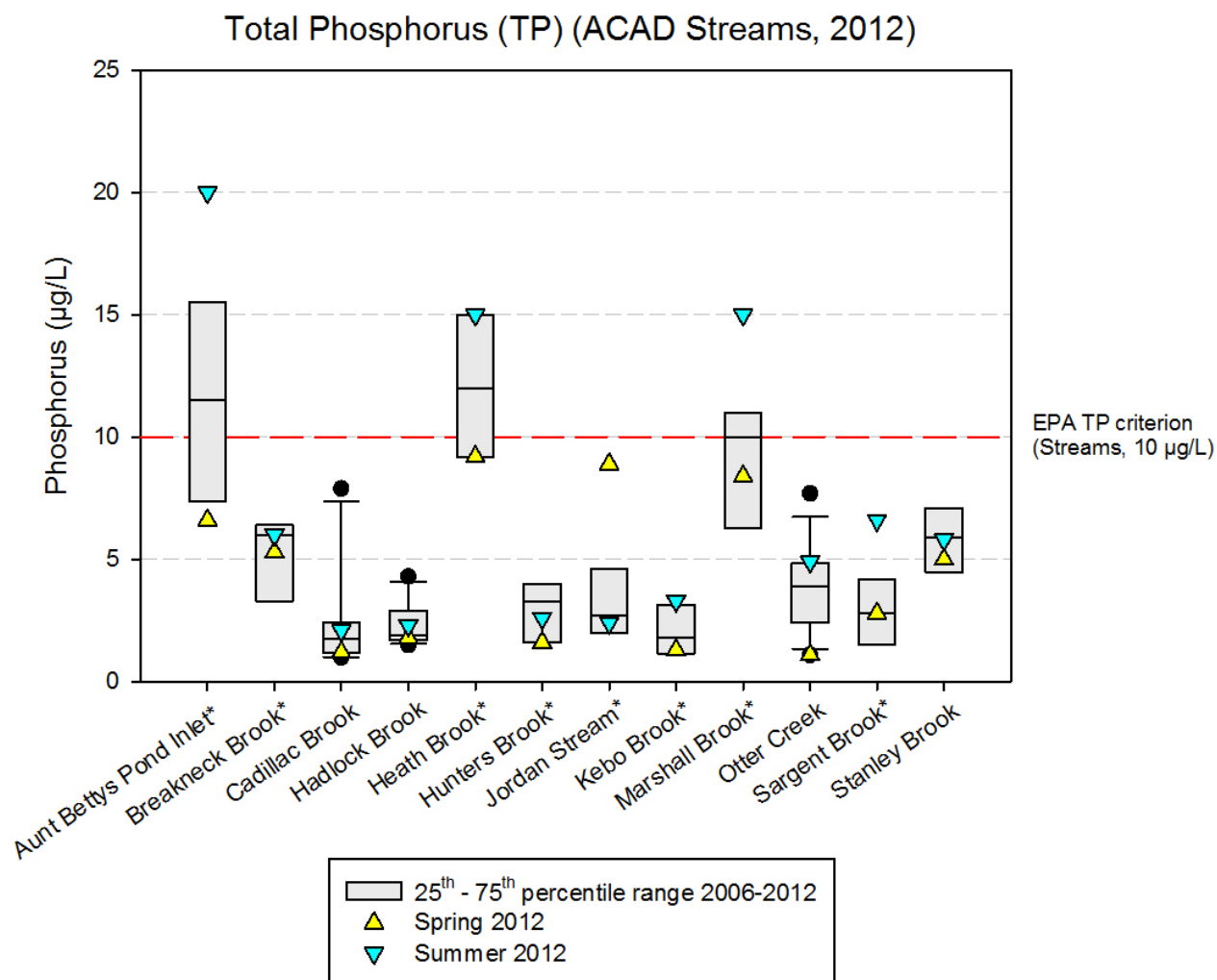


Figure 23. Stream total phosphorus (TP) from 2012 spring and summer water samples. The data are overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only. There is no numeric Maine state water quality TP standard.

Nitrogen

Total nitrogen (TN) is a measure of all forms of nitrogen (organic and inorganic). Nitrogen is an essential plant element and is often the limiting nutrient in marine waters, and it can also limit some freshwater systems. The importance of nitrogen in the aquatic environment varies according to the relative amounts of the forms of nitrogen present, including nitrate, nitrite, and ammonia. Nitrate (NO_3) is the most oxidized and stable form of nitrogen in a water body, and is the primary form of nitrogen used by plants as a nutrient. Nitrite (NO_2) is an unstable form of nitrogen that is either rapidly oxidized to nitrate (nitrification) or reduced to nitrogen gas (denitrification). This form of nitrogen can also be used as a source of nutrients for plants. Ammonia (NH_3) is generated by bacteria as a decomposition product of nitrogenous organic compounds, and is also readily assimilated by plants. Results of NO_3 , NO_2 , and NH_3 tests are all reported as the concentrations of the N component of these compounds, expressed in mg/L.

Results for 2012 tests for total nitrogen in lakes are shown in Figure 24. Lake TN measurements were in the low range, with most values near or below the EPA Ecoregion 8 criterion of 0.24 mg/L (for lakes), although as with TP this criterion does not have regulatory meaning. Nitrate results for lakes were very low, with most values below the method reporting limit of 0.01 mg/L. Concentrations of nitrite and ammonia in lake samples were all below the method reporting limit.

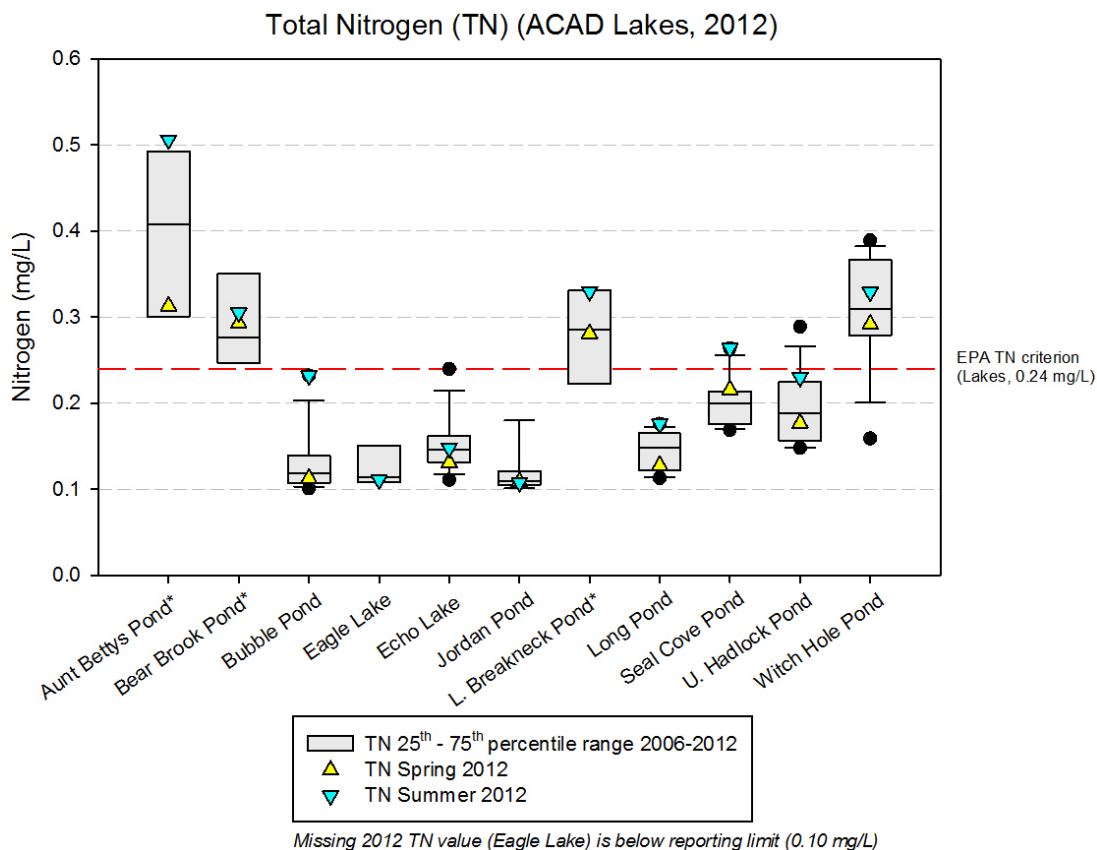


Figure 24. Lake total nitrogen (TN) from 2012 spring and summer water samples. The data are overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Stream TN measurements (Figure 25) were also low, with most values well below the EPA Ecoregion 8 criterion of 0.38 mg/L (for streams). Stream $\text{NO}_3\text{-N}$ values were higher than those of lakes, but still in the low range, with several results below the method reporting limit. As with lakes, concentrations of nitrite and ammonia in Acadia stream samples were all below the method reporting limit.

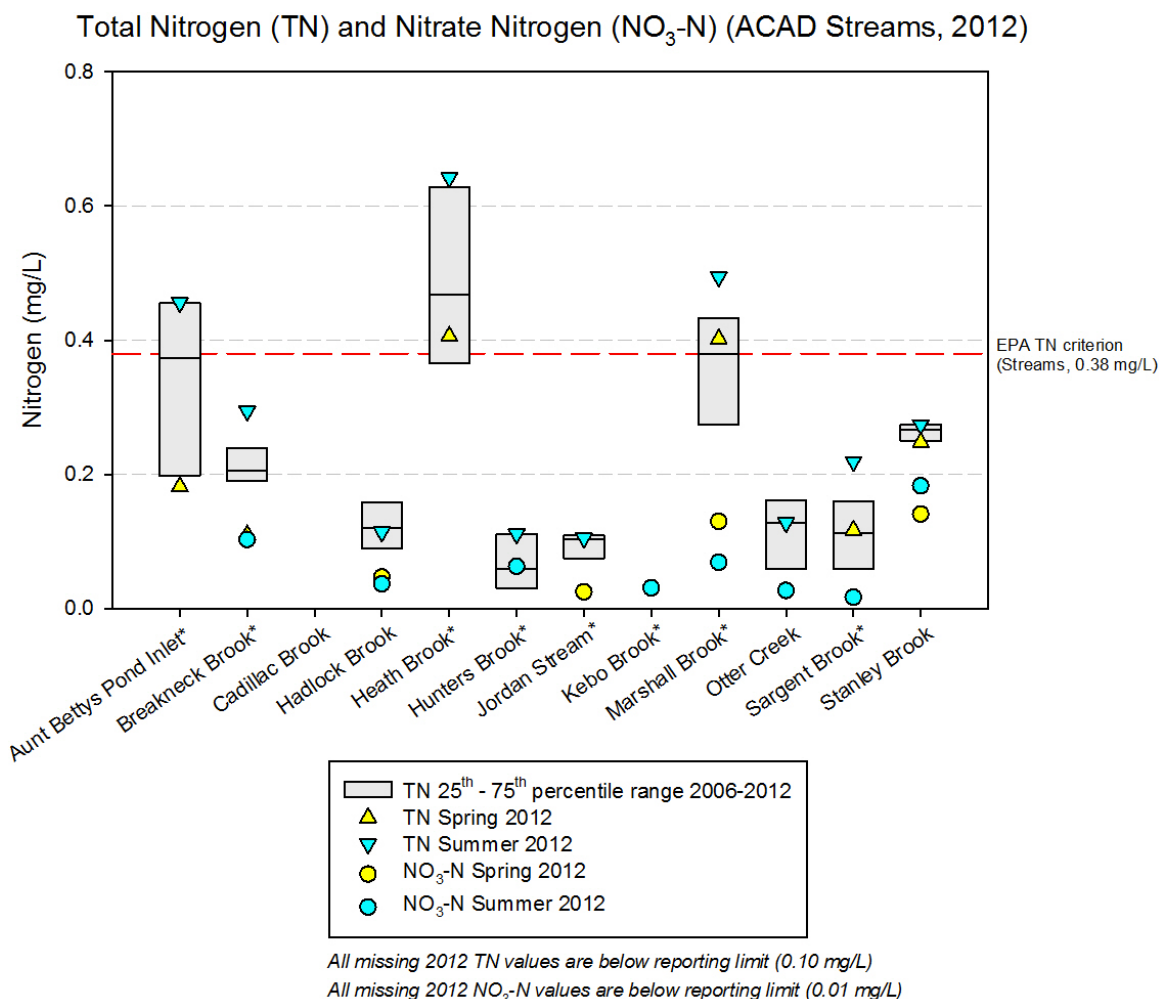


Figure 25. Stream total nitrogen (TN) and the nitrogen component of nitrate ($\text{NO}_3\text{-N}$) from 2012 spring and summer water samples. The data are overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating partial-record sites with data from 2006, 2008, 2010, and 2012 only.

Chlorophyll *a*

The amount of chlorophyll *a* in a water sample is a measure of the concentration of suspended phytoplankton and can be used as an indicator of algal biomass and thus of water quality. Chlorophyll *a* is responsible for photosynthesis and is found in various forms within the living cells of algae, phytoplankton, and other plant matter of water environments. Like other biological response variables, chlorophyll *a* tends to integrate the stresses of various parameters over time, and thus is often an important nutrient-stress parameter to measure.

Chlorophyll *a* concentrations in ACAD lakes were low in 2012 (Figure 26), which indicates relatively low algal productivity. Although the moderately elevated TP and TN concentrations in the June samples from Bear Brook Pond and Witch Hole Pond suggest that these ponds may have been experiencing a moderate increase in nutrient input, the low chlorophyll *a* values in these samples suggest that the nutrient inputs did not produce major algal blooms.

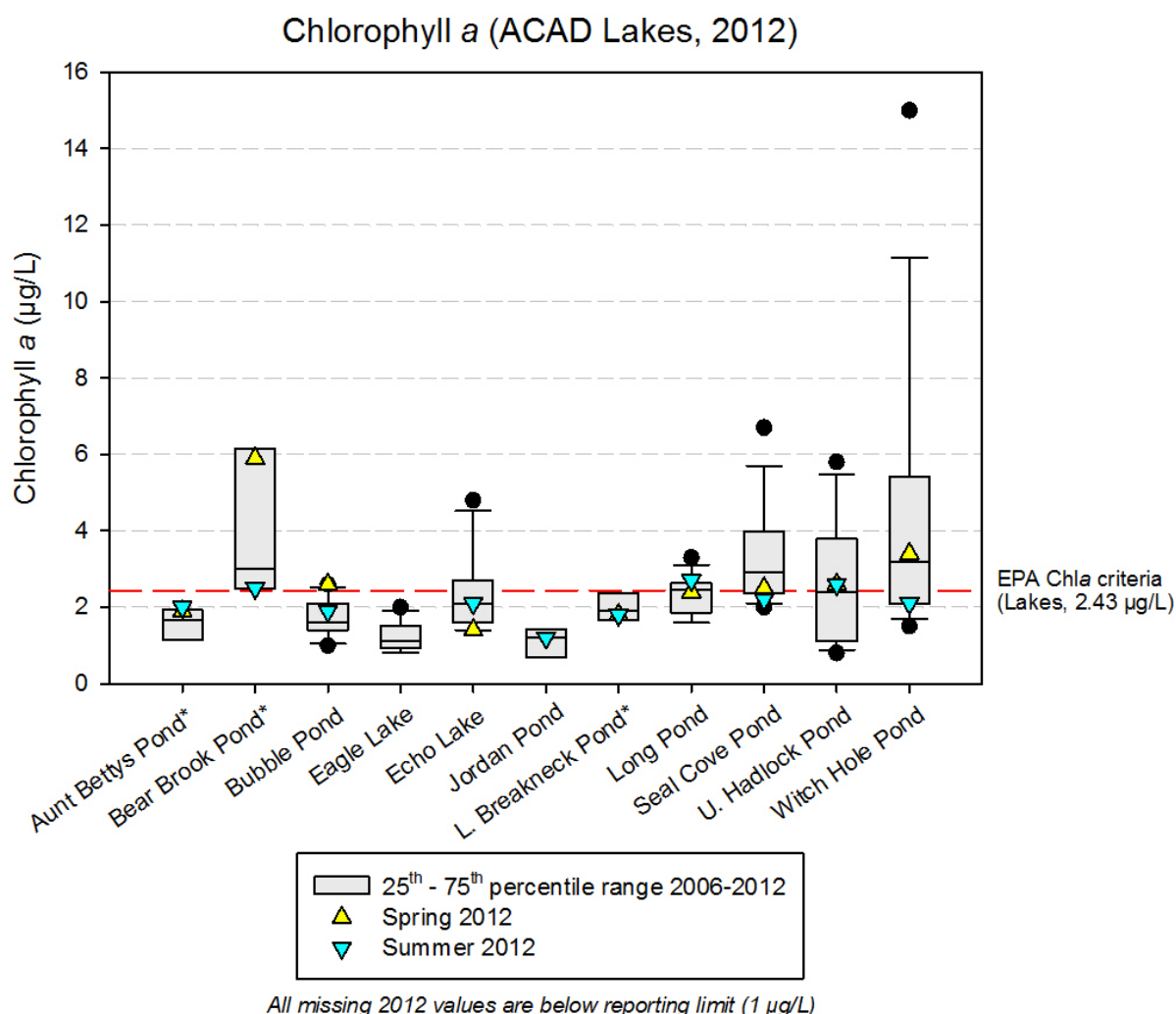


Figure 26. Lake chlorophyll *a* from 2012 spring and summer water samples. The data are overlaid on a box plot of measurements taken from 2006-2012. Sites marked with an asterisk (*) are rotating sites with data from 2006, 2009, and 2012 only.

Other Analytes

Chloride

Chloride is one of the major negatively-charged ions in fresh water systems. The chloride content of natural surface waters will depend to a great extent on the geology of the area. Concentrations are generally greater in lakes that are in proximity to marine regions. Another source of chloride is road run-off from de-icing materials. Chloride is important in terms of metabolic processes, as it influences osmotic salinity balance and ion exchange.

Chloride concentrations in ACAD lakes were in the low to moderate range in 2012 (Figure 27). Although Echo Lake chloride levels were considerably higher than all of the other lakes, these values were well within the range of historic test results (mean= 326.4 $\mu\text{eq/L}$, 10th percentile= 248.9 $\mu\text{eq/L}$, 90th percentile= 380.2 $\mu\text{eq/L}$) from Acadia's lake acidification sampling program. Echo Lake is located adjacent to a major roadway, and run-off of salts from winter road treatment is a possible explanation for elevated chloride concentrations.

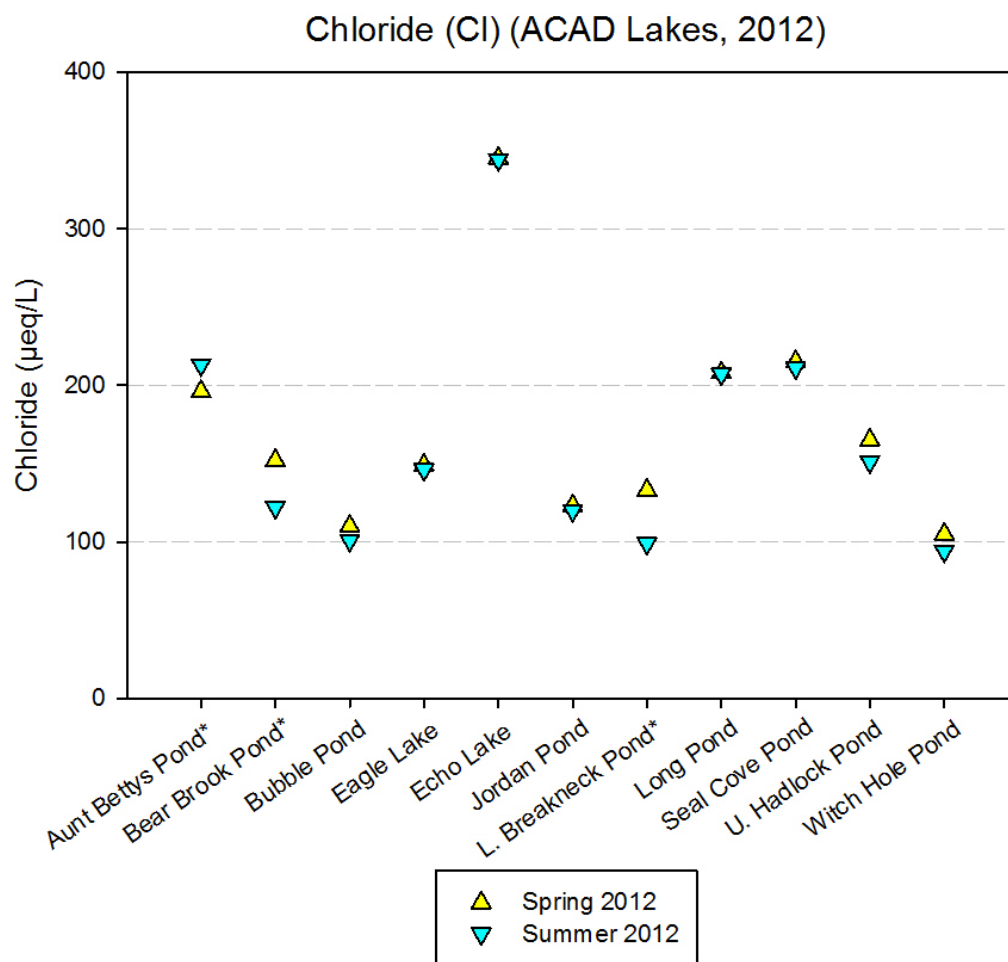


Figure 27. Lake chloride from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

Chloride concentrations in ACAD streams were in a similar range to lake values (Figure 28), with two significant outliers. Marshall Brook and Stanley Brook levels were both significantly higher than all of the other streams, but were within the range of historic test results (Marshall mean = 619.9 $\mu\text{eq/L}$, 10th percentile= 292.3 $\mu\text{eq/L}$, 90th percentile= 985.7 $\mu\text{eq/L}$; Stanley mean= 305.3 $\mu\text{eq/L}$, 10th percentile= 211.4 $\mu\text{eq/L}$, 90th percentile= 436.4 $\mu\text{eq/L}$) from research projects conducted from the 1980s through 2000.

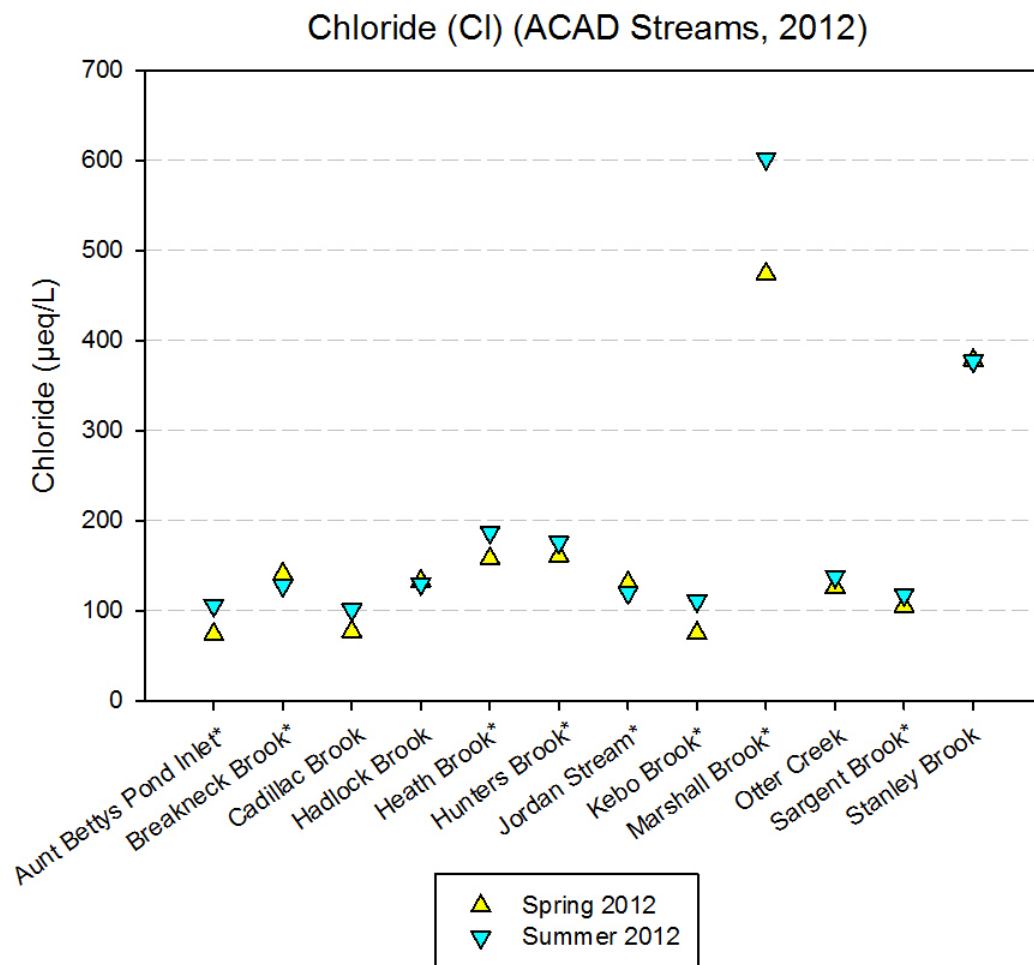


Figure 28. Stream chloride from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

Sulfate

Sulfate is found in most natural waters, originating from watershed geology, soils, and precipitation. Sulfate can play a major role in acidification of lakes and streams. Sulfate concentrations in sensitive Maine lakes have declined significantly since 1982, in part due to the 1995 implementation of Phase I controls of the Clean Air Act Amendments and in part to other long-term pollution reduction efforts (Kahl 1999).

Sulfate concentrations in ACAD lakes were low in 2012 (Figure 29) and lower than many of the test results from Acadia's lake acidification sampling program (all ACAD lakes mean = 141.0 $\mu\text{eq/L}$, 10th percentile= 52.9 $\mu\text{eq/L}$, 90th percentile= 217.3 $\mu\text{eq/L}$).

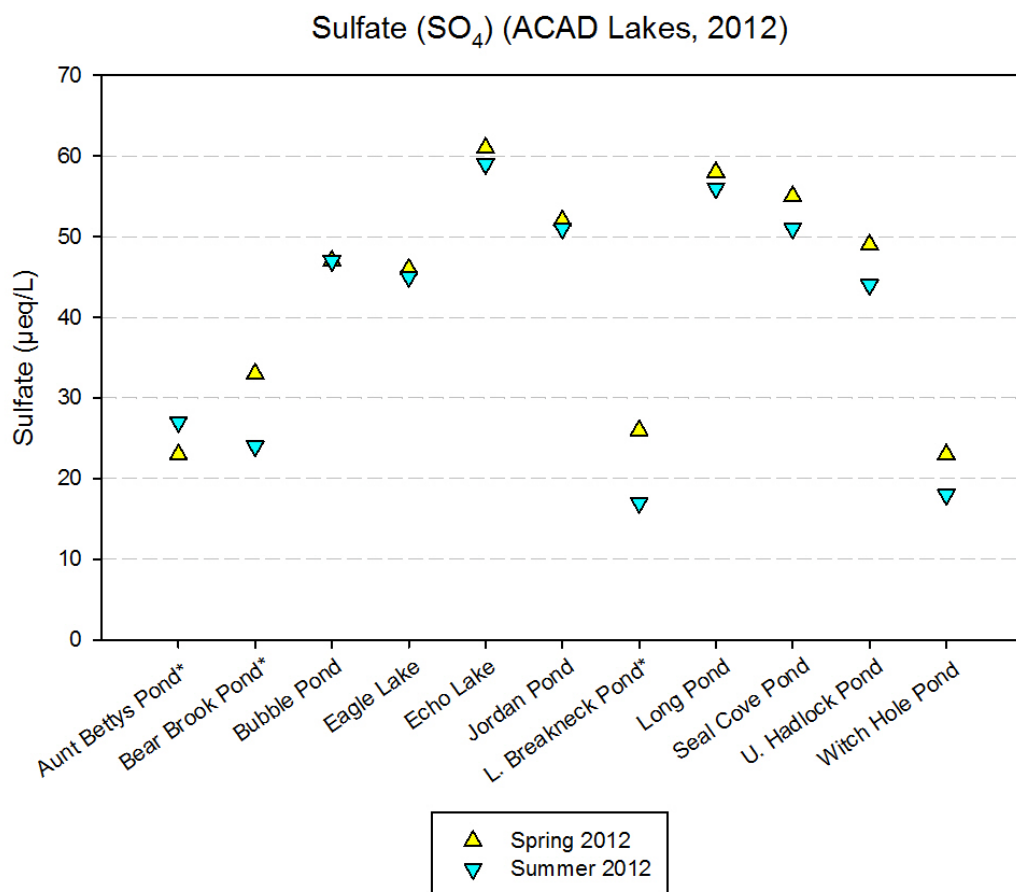


Figure 29. Lake sulfate from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

Although slightly higher than lake values, sulfate concentrations in ACAD streams were also relatively low (Figure 30).

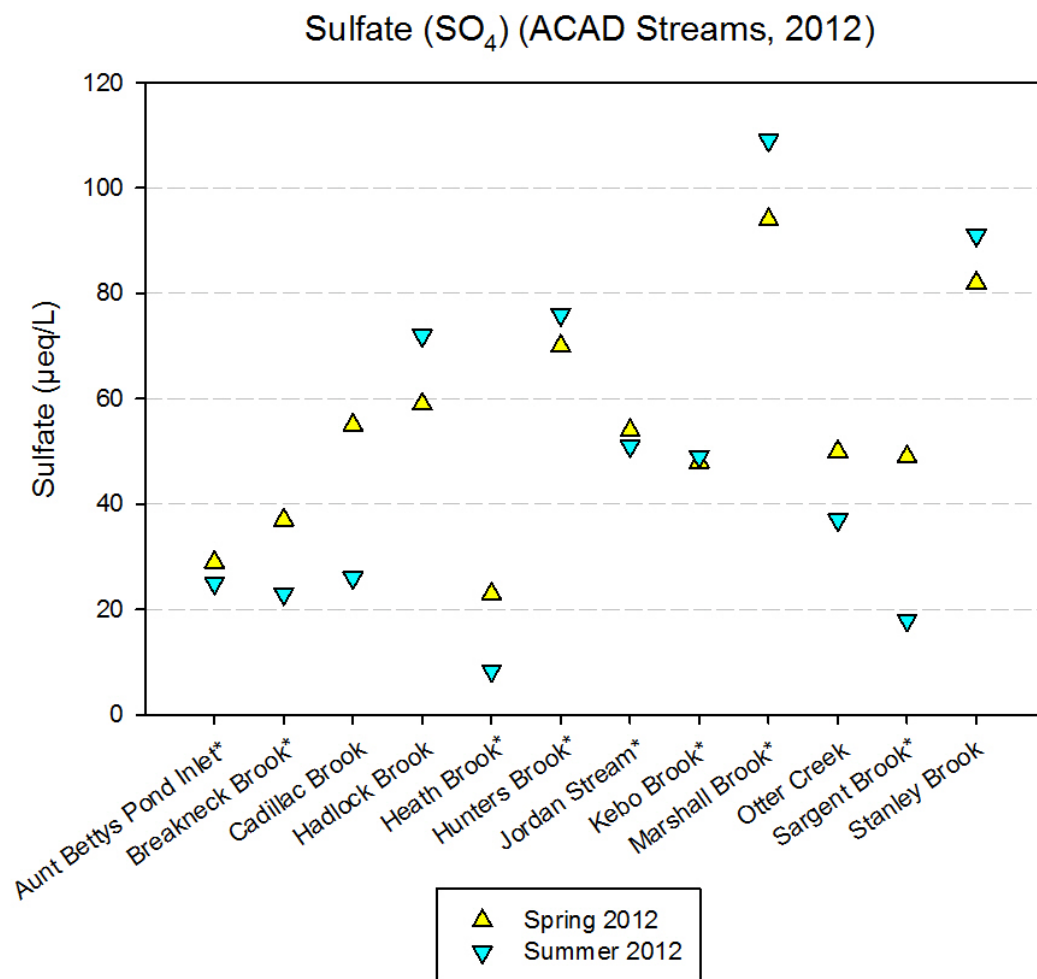


Figure 30. Stream sulfate from 2012 spring and summer water samples. Sites marked with an asterisk (*) are rotating sites.

Water Quantity

Stream Discharge

Monthly stream discharge measurements (Figure 31), taken with a current meter and wading rod, can be used to calculate loading of nutrient chemical constituents (flow times concentration), and also provides a record of variations in stream flow. Stream stage (height of water) measurements can be paired with discharge values and over time a stage to discharge relationship can be calculated. Once this relationship is established, investigators can interpolate the stream discharge from the stage measurement alone. Numerous discharge measurements at all ranges of streamflow are required to establish and maintain an accurate stage to discharge relationship. Although most streams in Acadia have relatively low flow, measurements in 2012 followed the expected seasonal pattern. Several discharge measurements were in the higher range in May and June, and flow decreased to minimal levels in July, August, and September with some higher measurements in October.

NETN staff continue to review discharge and stage measurement methodology and quality assurance/quality control procedures in order to enhance the quality and utility of the water quantity data. Stage to discharge relationship graphs will be produced once sufficient data are collected.

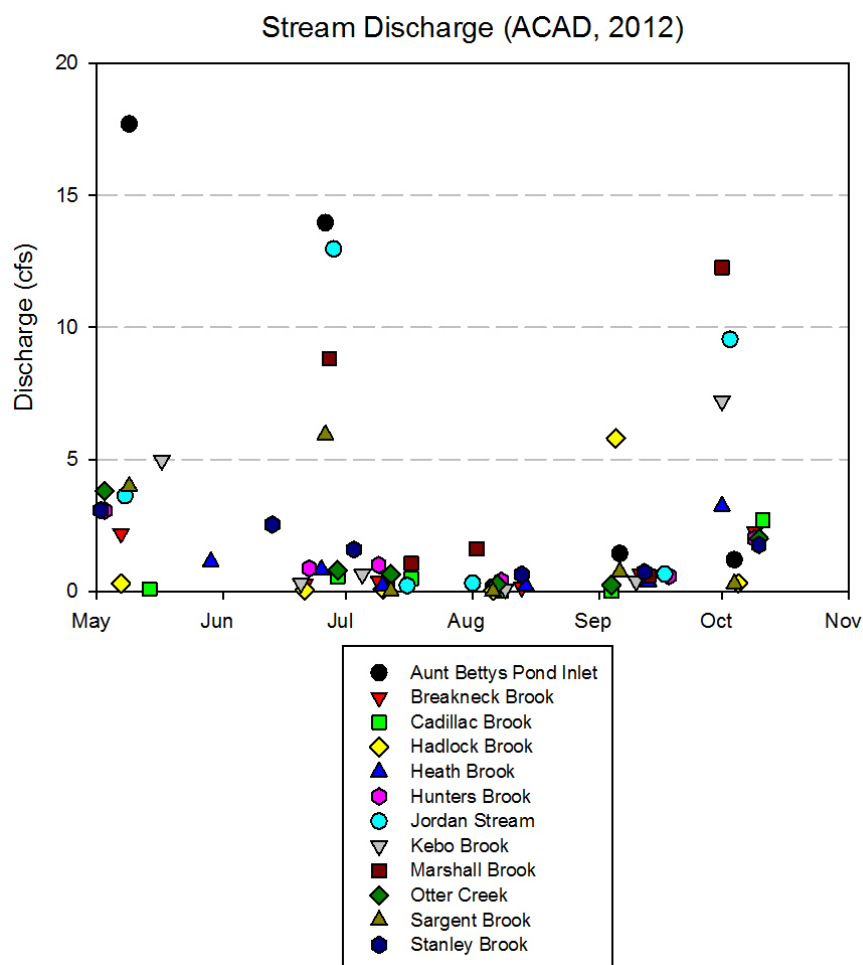


Figure 31. Monthly stream discharge measurements from partial and continuous record sites.

The Otter Creek continuous-record streamflow gage (USGS station 01022840) was installed by USGS in 2006 and is maintained as an index of streamflow at ACAD because of the extent of the stream resources in ACAD. This gage provides detailed streamflow information about one stream in the park, allowing for estimates of loads of constituents at this site, and also provides data to make estimates of streamflow at hydrologically similar ungaged sites or partial-record sites. Figure 32 is a graph of the continuous discharge measurements at Otter Creek for the 2012 calendar year. Real-time data for this site are available at http://waterdata.usgs.gov/me/nwis/dv/?site_no=01022840&PARAMeter_cd=00060,00065.

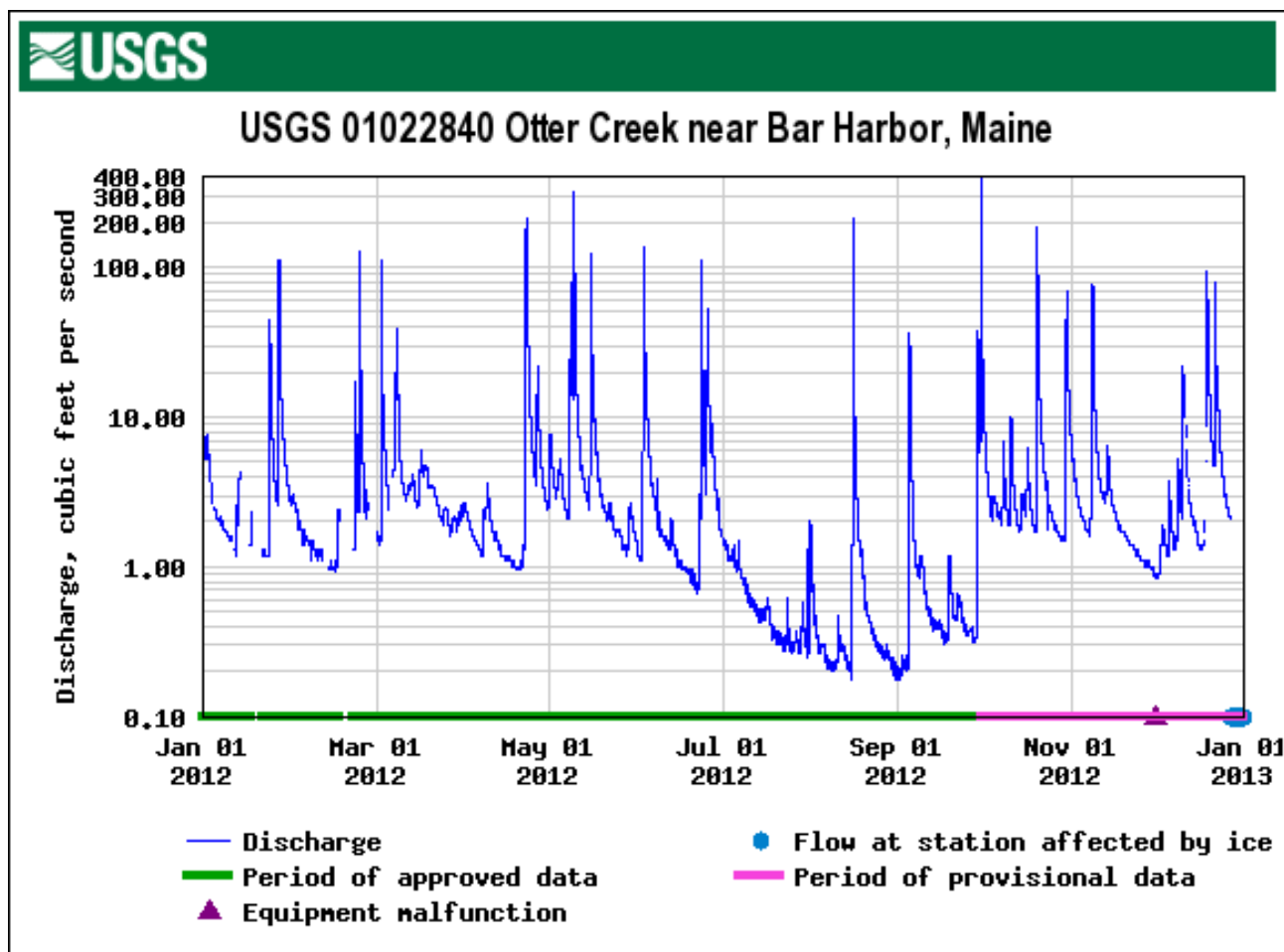


Figure 32. Daily mean discharge from the Otter Creek continuous record site for calendar year 2012.

Stream and Lake Stage

Monthly (stream) and weekly (lake and pond) stage measurements were taken by measuring to the water surface from a fixed datum point. Stream stage was measured during regular monthly monitoring visits to the rotating partial record sites, and the data (stage and discharge) from these visits in 2012 are listed in Table A4 in Appendix A. Discharge and stage were measured continuously, year-round, at the Otter Creek site, and stream stage was measured continuously throughout the ice-free season at the Cadillac Brook and Hadlock Brook permanent record sites. Daily mean stream stage values at these permanent record sites from the 2012 monitoring season are graphed in Figure 33. The automated stream level data logger at Cadillac Brook failed from 3 August through 7 August 2012, so the data record for this site is incomplete.

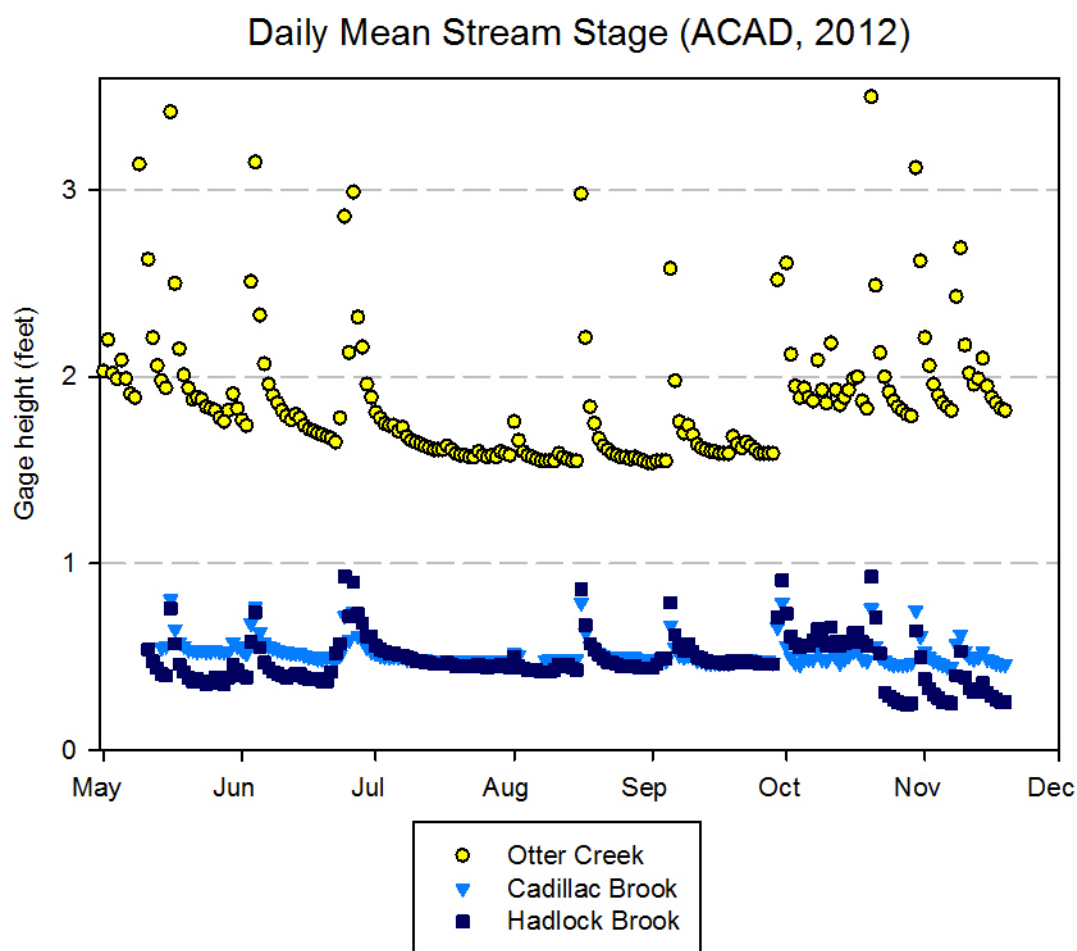


Figure 33. Daily mean stream stage measured in 2012 at NETN permanent record stream monitoring sites in Acadia NP.

Lake stage was measured weekly at all NETN lake monitoring sites throughout the ice-free season. Weekly lake stage data for the 2012 monitoring season is displayed in Figure 34.

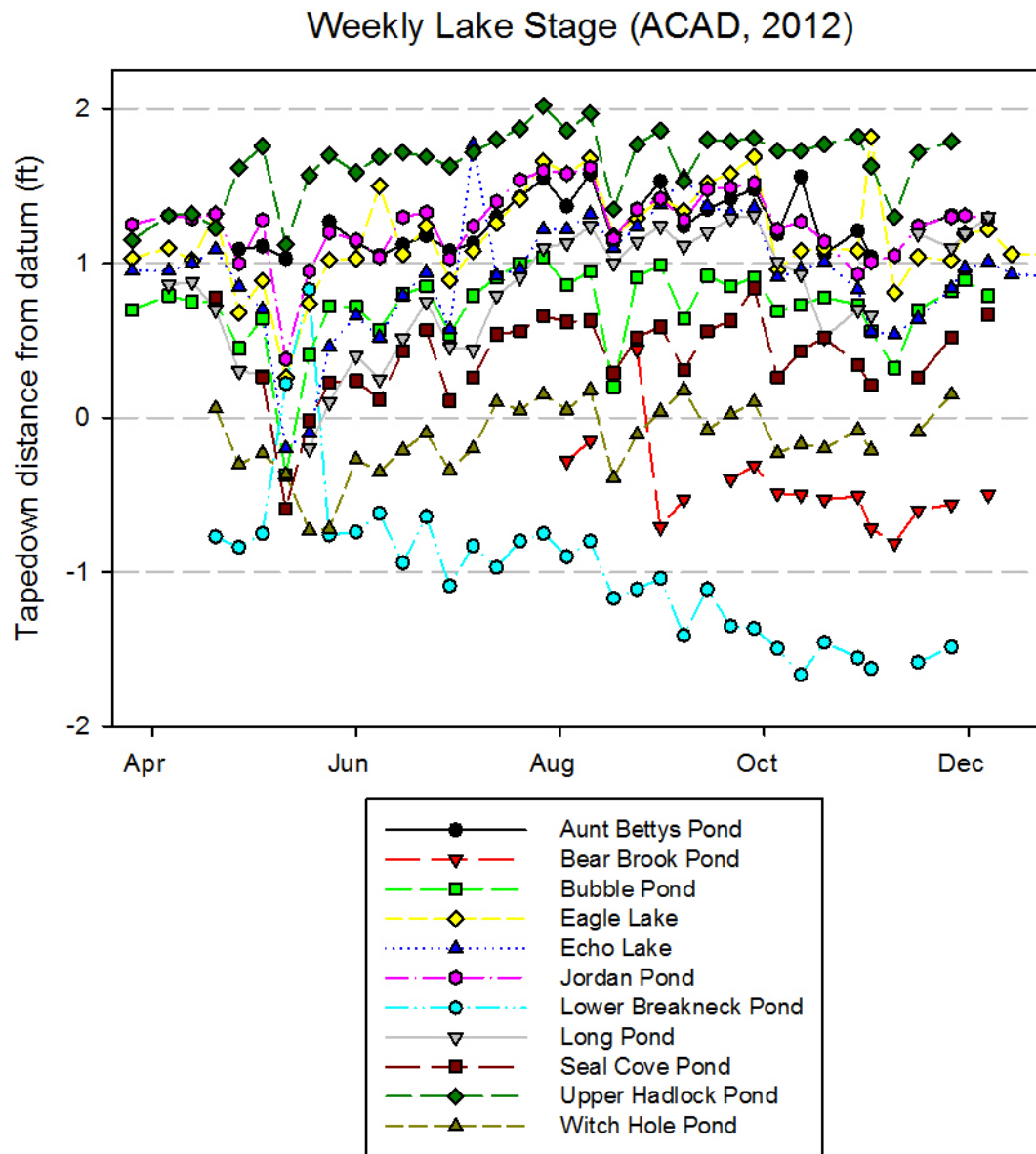


Figure 34. Weekly lake stage measured in 2012 at NETN monitoring sites in Acadia NP.

Invasive Aquatic Plants

NETN's methods for invasive aquatic plant monitoring were adapted from the Maine Center for Invasive Aquatic Plants (MCIAP), a division of the Maine Volunteer Lake Monitoring Program (VLMP). In Acadia, investigators utilize a Level 1 survey, which concentrates on areas of public access and other areas of concentrated boat traffic. Boat launch survey areas extend horizontally along the shoreline at least 100 meters (~300 ft) on either side of the boat launch area, and offshore along the entire length to the depth at which rooted plants are no longer observed (the outermost extent of the littoral zone.) Detailed survey instructions can be found in the NETN protocol (Lombard et al. 2006) and in the MCIAP manual (Maine Center for Invasive Aquatic Plants 2011).

The primary targets of the invasive plant surveys were the 11 plants currently listed by the MCIAP (Table 4). Monitoring is conducted by Acadia National Park staff and volunteers who have received MCIAP training in survey methods and plant identification. The *Maine Field Guide to Invasive Aquatic Plants and their Common Native Look Alikes* (Maine Center for Invasive Aquatic Plants 2007) is used to aid identification in the field, and suspect plants can be sent to the MCIAP for expert identification.

In 2012, invasive aquatic plant monitoring was conducted at Eagle Lake, Echo Lake, Jordan Pond, Long Pond, Seal Cove Pond, and Upper Hadlock Pond. Results indicated that target invasive aquatic plants do not currently exist at any of the sites monitored in Acadia.

Table 4. Maine Center for Invasive Aquatic Plants species of concern.

Common name	Latin name
European Frogbit	<i>Hydrocharis morsus-ranae</i>
Water Chestnut	<i>Trapa natans</i>
Yellow Floating Heart	<i>Nymphoides peltata</i>
Eurasian Water Milfoil	<i>Myriophyllum spicatum</i>
Variable Water Milfoil	<i>Myriophyllum heterophyllum</i>
Parrot Feather	<i>Myriophyllum aquaticum</i>
Fanwort	<i>Cabomba caroliniana</i>
Hydrilla	<i>Hydrilla verticillata</i>
Brazilian Elodea	<i>Egeria densa</i>
European Naiad	<i>Najas minor</i>
Curly-Leaved Pondweed	<i>Potamogeton crispus</i>

During future visits to all NETN parks, monitoring crews will be increasingly attentive for the presence of Didymo (*Didymosphenia geminata*), also known as “rock snot”, a highly invasive alga that has recently invaded the northern reaches of the Connecticut River in New Hampshire and in the White River and Battenkill River in Vermont. This species has a great potential to alter habitats and displace native species, and is of great concern to officials in regions where infestations have been established.

Didymo can easily be spread by waders and potentially by water monitoring equipment and other gear that touches the bottoms of streams in infested areas. Just one cell of the alga breaking off

and drifting downstream can spread the alga. Enhanced equipment cleaning and decontamination procedures are being included in the latest NETN monitoring protocol revision (Gawley et al. In Prep).

Since non-native, invasive plants have recently been detected with increasing frequency in New England lakes and ponds, it has become crucial to closely monitor the status of park waters. The early detection of an infestation can make eradication or control more feasible, and it can lead to efforts that reduce the spread of the plant to neighboring water bodies. Designating the early detection of these plants as a NETN vital sign and the ongoing partnership with state and local monitoring and eradication efforts are highly effective prevention strategies.

Summary

The majority of the 2012 water quality parameters for the lakes and streams monitored in Acadia National Park are within state standards, and most are very close to EPA Ecoregion 8 criteria, where applicable. Nearly all of the values were within the ranges of historic NETN monitoring data from ACAD, with the notable exceptions (also noted in 2011) being slightly higher summer ANC and pH measurements, which may reflect a reduction of acid deposition effects.

Apparent color and transparency measurements indicated that Acadia waters remained clear, and there were no major runoff or sediment loading events detected by 2012 monitoring data. Nutrient levels (phosphorus and nitrogen) remained low in 2012, and chlorophyll *a* measurements suggested that most lakes retained their minimally to moderately productive status. The slightly elevated summer nutrient and chlorophyll values in Aunt Bettys, Bear Brook, and Witch Hole Ponds are not a major concern in these small, naturally productive lakes, although future test results must be carefully interpreted to ensure that nutrient enrichment from anthropogenic sources is not becoming a chronic problem. Levels of specific conductance, apparent color, DOC, ANC, and TP in Marshall Brook were all relatively high during summer samples, and these elevated values were likely a result of sediment input from a substantial road construction project.

Monthly streamflow measurements from partial record sites and continuous-record streamflow gage data have been effective at tracking water quantity in the park and will aid the quantification and interpretation of other water quality data such as the estimation of nutrient loads. Weekly lake stage measurements have continued to build on a 14 year data history documenting the dynamics of lake water levels. Continued review of and refinements to stage measurement techniques, site selection, and QA/QC methodology; as well as the increased use of continuous dataloggers, will enhance the quality and utility of the water quantity data.

Several additional monitoring activities not included in this report complement the core NETN parameters. Water samples were collected from the eight permanent Acadia NETN lake sites (as well as two additional lakes) in April and October and were analyzed for acid-base chemistry parameters. Results from 2012 were similar to those of the past several years, and suggest that the Clean Air Act and its subsequent revisions appear to be effective in reducing the effects of acid deposition.

Rapid hydro-geomorphic assessment evaluations of stream characteristics were conducted in July at each stream in the yearly rotation. These evaluations provide a qualitative assessment of conditions upstream and influencing the stream discharge and sampling site. This information supports stream discharge, in situ chemistry, and nutrient sampling analyses, and supplements observations of obvious changes in stream characteristics that are noted on monthly stream data forms. The NETN assessment techniques were adapted from the EPA Rapid Bioassessment protocol (Barbour et al. 1999), and were implemented utilizing a standard operating procedure (SOP) that was completed in December 2011.

ACAD staff also sampled benthic macroinvertebrates in five streams Breakneck Brook (the first time this site was sampled), Duck Brook, Heath Brook, Kebo Brook, and Stanley Brook) in August 2012, as part of an annual monitoring program conducted in cooperation with the Maine

Department of Environmental Protection (MDEP). Products of this activity include identification of all collected organisms to the species level, voucher specimens, and analysis of taxonomic diversity and richness. A MDEP modeling program determines a stream water quality classification rating based on the taxonomic data. Taxonomic and deterministic modeling results from 2012 have not yet been delivered to park biologists.

Monitoring under the NETN protocol continues to build on the historic water quality monitoring by park staff and other agencies to provide critical baseline information on the chemical and physical status of the water resources at Acadia National Park. Changes implemented in the 2012 monitoring season have expanded the scope and usefulness of the monitoring data. These changes include taking monthly stream turbidity measurements and the addition of sulfate, chloride, and dissolved organic carbon (DOC) analyses to the spring and summer water chemistry testing. As more data are collected, our ability to detect changes outside this natural range of variability will increase, which in turn will more clearly indicate the status of the vital signs of water quality, nutrient enrichment, water quantity, and the detection of invasive plant species.

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Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012.

Table A1. YSI sonde in-situ stream water quality measurements collected at ACAD.

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Aunt Bettys Pond Inlet	ACABIN	5/9/2012	0.2	9.61	10.00	5.90	21
Aunt Bettys Pond Inlet	ACABIN	6/26/2012	0.4	15.44	7.83	5.77	19
Aunt Bettys Pond Inlet	ACABIN	7/11/2012	0.4	27.64	6.31	6.18	36
Aunt Bettys Pond Inlet	ACABIN	8/6/2012	-0.1	25.50	6.04	6.14	44
Aunt Bettys Pond Inlet	ACABIN	9/6/2012	0.2	17.19	6.13	5.64	30
Aunt Bettys Pond Inlet	ACABIN	10/4/2012	0.2	14.66	7.18	5.77	29
Breakneck Brook	ACBRKB	5/7/2012	0.2	15.29	9.81	6.75	35
Breakneck Brook	ACBRKB	6/21/2012	-0.1	20.58	7.95	6.74	45
Breakneck Brook	ACBRKB	7/9/2012	0.2	19.34	7.99	6.72	45
Breakneck Brook	ACBRKB	8/13/2012	0.0	20.89	7.90	6.78	56
Breakneck Brook	ACBRKB	9/11/2012	0.1	17.50	8.99	6.69	39
Breakneck Brook	ACBRKB	10/9/2012	0.3	12.20	10.99	6.33	32
Cadillac Brook	ACCADS	5/14/2012	0.1	9.77	10.76	6.27	22
Cadillac Brook	ACCADS	6/29/2012	0.1	14.15	9.73	6.33	20
Cadillac Brook	ACCADS	6/29/2012	0.1	14.16	9.30	6.26	20
Cadillac Brook	ACCADS	7/17/2012	0.1	15.40	6.02	5.65	28
Cadillac Brook	ACCADS	8/8/2012	-0.1	16.94	4.61	5.45	31
Cadillac Brook	ACCADS	9/4/2012	0.1	15.53	7.31	5.91	27
Cadillac Brook	ACCADS	10/11/2012	-0.1	11.57	10.72	6.02	22
Hadlock Brook	ACHADB	5/7/2012	0.0	7.69	11.84	6.31	28
Hadlock Brook	ACHADB	6/21/2012	-0.2	16.03	9.40	6.50	32
Hadlock Brook	ACHADB	7/10/2012	0.1	15.01	9.64	6.61	32
Hadlock Brook	ACHADB	8/6/2012	-0.2	20.00	8.59	6.64	37
Hadlock Brook	ACHADB	9/5/2012	-0.1	15.66	9.70	5.37	17
Hadlock Brook	ACHADB	10/5/2012	-0.1	12.38	10.70	6.50	29
Heath Brook	ACHTHB	5/29/2012	0.0	14.93	6.98	5.27	33
Heath Brook	ACHTHB	6/25/2012	0.0	19.58	4.45	5.07	35
Heath Brook	ACHTHB	7/10/2012	0.2	25.90	5.43	5.42	39
Heath Brook	ACHTHB	8/14/2012	-0.1	27.43	6.08	5.41	42
Heath Brook	ACHTHB	9/13/2012	0.1	20.26	8.27	5.40	38
Heath Brook	ACHTHB	10/1/2012	-0.1	14.37	7.82	4.95	38
Hunters Brook	ACHNTR	5/3/2012	0.1	7.26	12.08	6.75	38
Hunters Brook	ACHNTR	6/22/2012	0.0	15.88	9.76	6.92	47
Hunters Brook	ACHNTR	7/9/2012	0.3	17.29	9.32	6.98	44
Hunters Brook	ACHNTR	8/8/2012	0.0	19.13	8.90	7.01	55
Hunters Brook	ACHNTR	9/18/2012	0.1	13.56	10.42	7.01	52
Hunters Brook	ACHNTR	10/9/2012	0.2	10.41	11.49	6.66	40
Jordan Stream	ACJRDO	5/8/2012	0.0	8.10	12.19	6.79	31
Jordan Stream	ACJRDO	6/28/2012	0.2	20.53	9.09	6.87	30
Jordan Stream	ACJRDO	7/16/2012	0.1	26.97	7.98	6.87	32
Jordan Stream	ACJRDO	8/1/2012	-0.1	22.22	8.50	6.61	31
Jordan Stream	ACJRDO	8/1/2012	-0.1	21.56	8.04	6.19	32
Jordan Stream	ACJRDO	9/17/2012	-0.1	19.67	9.19	6.79	31
Jordan Stream	ACJRDO	10/3/2012	0.1	17.50	9.79	6.65	31
Kebo Brook	ACKEBO	5/17/2012	0.1	10.92	10.82	6.29	21
Kebo Brook	ACKEBO	6/20/2012	0.0	14.36	9.70	6.72	33
Kebo Brook	ACKEBO	7/5/2012	0.2	14.83	9.47	6.70	31
Kebo Brook	ACKEBO	8/9/2012	0.0	17.52	8.79	6.73	46
Kebo Brook	ACKEBO	9/10/2012	0.1	13.66	9.93	6.24	33

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A1. YSI sonde in-situ stream water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Kebo Brook	ACKEBO	10/1/2012	-0.2	12.95	10.32	6.10	22
Marshall Brook	ACMRSL	5/30/2012	0.0	12.49	10.43	6.98	106
Marshall Brook	ACMRSL	6/27/2012	0.2	14.38	9.30	6.39	62
Marshall Brook	ACMRSL	7/17/2012	0.2	17.67	8.75	7.14	126
Marshall Brook	ACMRSL	8/2/2012	0.0	17.01	9.24	6.91	130
Marshall Brook	ACMRSL	9/13/2012	0.1	13.97	10.30	6.89	94
Marshall Brook	ACMRSL	10/1/2012	-0.1	13.39	9.61	6.07	61
Otter Creek	ACOTRC	5/3/2012	0.3	7.30	12.05	6.47	27
Otter Creek	ACOTRC	6/29/2012	0.3	15.23	9.97	6.63	26
Otter Creek	ACOTRC	7/12/2012	0.3	20.26	8.55	6.66	37
Otter Creek	ACOTRC	8/7/2012	0.1	19.61	8.51	6.52	44
Otter Creek	ACOTRC	9/4/2012	0.2	15.68	9.48	6.73	44
Otter Creek	ACOTRC	10/10/2012	0.2	11.09	11.03	6.49	29
Sargent Brook	ACSGTB	5/9/2012	0.0	7.28	11.94	5.31	22
Sargent Brook	ACSGTB	6/26/2012	0.1	13.62	10.20	5.31	19
Sargent Brook	ACSGTB	7/12/2012	0.3	18.11	8.65	6.02	28
Sargent Brook	ACSGTB	8/6/2012	-0.1	20.98	7.55	5.93	30
Sargent Brook	ACSGTB	9/6/2012	0.1	15.70	9.79	5.73	23
Sargent Brook	ACSGTB	10/4/2012	0.1	13.52	10.34	5.68	26
Stanley Brook	ACSTNL	5/2/2012	0.2	6.19	12.52	6.94	71
Stanley Brook	ACSTNL	7/3/2012	0.4	15.63	9.76	6.99	71
Stanley Brook	ACSTNL	8/13/2012	0.1	17.74	9.34	7.12	86
Stanley Brook	ACSTNL	9/12/2012	0.2	12.67	10.83	6.99	85
Stanley Brook	ACSTNL	10/10/2012	0.1	10.63	11.61	6.91	75

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD.

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Aunt Bettys Pond	ACANTB	6/18/2012	0.0	20.99	7.22	6.20	42
Aunt Bettys Pond	ACANTB	6/18/2012	0.5	20.42	6.97	6.16	43
Aunt Bettys Pond	ACANTB	6/18/2012	1.0	19.57	5.99	5.98	42
Aunt Bettys Pond	ACANTB	6/18/2012	2.0	15.45	6.93	5.71	31
Aunt Bettys Pond	ACANTB	6/18/2012	2.4	14.75	6.34	5.91	40
Aunt Bettys Pond	ACANTB	7/24/2012	0.0	23.75	5.86	5.95	41
Aunt Bettys Pond	ACANTB	7/24/2012	1.0	22.01	1.37	5.59	40
Aunt Bettys Pond	ACANTB	7/24/2012	2.0	18.35	0.13	5.70	52
Aunt Bettys Pond	ACANTB	7/24/2012	2.2	17.57	0.04	5.81	72
Aunt Bettys Pond	ACANTB	8/30/2012	0.0	22.68	5.83	6.48	72
Aunt Bettys Pond	ACANTB	8/30/2012	0.5	18.83	4.30	6.38	74
Aunt Bettys Pond	ACANTB	9/27/2012	0.0	15.94	6.45	5.91	43
Aunt Bettys Pond	ACANTB	9/27/2012	1.0	15.91	6.49	5.89	43
Aunt Bettys Pond	ACANTB	9/27/2012	2.0	15.45	4.09	5.69	42
Aunt Bettys Pond	ACANTB	9/27/2012	2.3	15.43	0.69	5.91	72
Aunt Bettys Pond	ACANTB	10/26/2012	0.0	10.49	8.10	5.93	43
Aunt Bettys Pond	ACANTB	10/26/2012	1.0	8.18	7.70	5.74	36
Aunt Bettys Pond	ACANTB	10/26/2012	2.0	8.10	7.98	5.74	36
Bear Brook Pond	ACBRBK	6/14/2012	0.0	19.84	8.82	6.88	42
Bear Brook Pond	ACBRBK	6/14/2012	1.0	19.59	8.79	6.88	42
Bear Brook Pond	ACBRBK	6/14/2012	2.0	18.42	8.80	6.81	41
Bear Brook Pond	ACBRBK	6/14/2012	2.5	16.86	6.53	6.39	42
Bear Brook Pond	ACBRBK	6/14/2012	2.9	15.53	4.17	6.33	44
Bear Brook Pond	ACBRBK	7/25/2012	0.0	23.90	7.81	6.92	46
Bear Brook Pond	ACBRBK	7/25/2012	1.0	23.62	7.76	6.89	45
Bear Brook Pond	ACBRBK	7/25/2012	2.1	22.19	6.72	6.66	46
Bear Brook Pond	ACBRBK	7/25/2012	3.0	21.47	3.86	6.39	49
Bear Brook Pond	ACBRBK	7/25/2012	3.3	20.30	0.47	6.62	88
Bear Brook Pond	ACBRBK	8/27/2012	0.0	24.37	7.63	7.14	43
Bear Brook Pond	ACBRBK	8/27/2012	1.0	24.21	7.58	6.95	43
Bear Brook Pond	ACBRBK	8/27/2012	2.0	22.04	2.10	6.18	39
Bear Brook Pond	ACBRBK	8/27/2012	2.5	21.25	1.13	6.08	40
Bear Brook Pond	ACBRBK	9/28/2012	0.0	16.49	9.05	6.93	43
Bear Brook Pond	ACBRBK	9/28/2012	1.0	16.34	9.04	6.90	43
Bear Brook Pond	ACBRBK	9/28/2012	2.0	15.91	9.03	6.90	43
Bear Brook Pond	ACBRBK	9/28/2012	3.0	15.82	9.04	6.88	43
Bear Brook Pond	ACBRBK	9/28/2012	3.2	15.93	0.73	6.39	50
Bear Brook Pond	ACBRBK	10/26/2012	0.0	10.59	10.07	6.26	38
Bear Brook Pond	ACBRBK	10/26/2012	1.0	10.33	9.89	6.29	37
Bear Brook Pond	ACBRBK	10/26/2012	2.0	10.21	9.84	6.30	38
Bear Brook Pond	ACBRBK	10/26/2012	2.7	10.08	9.65	6.27	38
Bubble Pond	ACBUBL	6/19/2012	0.0	17.77	9.55	6.81	29
Bubble Pond	ACBUBL	6/19/2012	1.0	17.76	9.56	6.84	29
Bubble Pond	ACBUBL	6/19/2012	2.0	17.76	9.55	6.85	29
Bubble Pond	ACBUBL	6/19/2012	3.0	17.75	9.56	6.85	29
Bubble Pond	ACBUBL	6/19/2012	4.0	17.62	9.58	6.85	29
Bubble Pond	ACBUBL	6/19/2012	5.0	17.31	9.69	6.84	29
Bubble Pond	ACBUBL	6/19/2012	6.0	16.40	9.63	6.74	29
Bubble Pond	ACBUBL	6/19/2012	7.0	15.61	9.30	6.51	29
Bubble Pond	ACBUBL	6/19/2012	8.0	14.64	8.99	6.38	29
Bubble Pond	ACBUBL	6/19/2012	9.0	13.84	8.36	6.21	29
Bubble Pond	ACBUBL	6/19/2012	10.0	13.53	8.22	6.18	29
Bubble Pond	ACBUBL	6/19/2012	11.0	13.40	7.88	6.15	30
Bubble Pond	ACBUBL	6/19/2012	11.9	13.19	2.25	5.97	31

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Bubble Pond	ACBUBL	7/26/2012	0.0	22.22	8.27	6.97	30
Bubble Pond	ACBUBL	7/26/2012	1.0	22.23	8.21	6.89	30
Bubble Pond	ACBUBL	7/26/2012	2.0	22.22	8.21	6.87	30
Bubble Pond	ACBUBL	7/26/2012	3.0	22.22	8.20	6.87	30
Bubble Pond	ACBUBL	7/26/2012	4.0	22.22	8.19	6.86	30
Bubble Pond	ACBUBL	7/26/2012	5.0	22.19	8.13	6.85	30
Bubble Pond	ACBUBL	7/26/2012	6.0	22.13	8.11	6.84	30
Bubble Pond	ACBUBL	7/26/2012	7.0	19.99	8.28	6.48	31
Bubble Pond	ACBUBL	7/26/2012	8.0	16.30	7.88	6.19	31
Bubble Pond	ACBUBL	7/26/2012	9.0	15.35	5.80	5.95	31
Bubble Pond	ACBUBL	7/26/2012	10.0	14.93	4.35	5.85	31
Bubble Pond	ACBUBL	7/26/2012	11.0	14.67	3.66	5.83	32
Bubble Pond	ACBUBL	7/26/2012	12.0	14.45	2.59	5.87	33
Bubble Pond	ACBUBL	8/30/2012	0.0	21.78	8.11	6.44	30
Bubble Pond	ACBUBL	8/30/2012	1.0	21.80	8.09	6.55	30
Bubble Pond	ACBUBL	8/30/2012	2.0	21.78	8.07	6.57	30
Bubble Pond	ACBUBL	8/30/2012	3.0	21.77	8.05	6.58	30
Bubble Pond	ACBUBL	8/30/2012	4.0	21.71	8.03	6.59	30
Bubble Pond	ACBUBL	8/30/2012	5.0	21.68	8.04	6.62	30
Bubble Pond	ACBUBL	8/30/2012	6.0	21.62	8.05	6.63	30
Bubble Pond	ACBUBL	8/30/2012	7.1	21.58	8.07	6.63	30
Bubble Pond	ACBUBL	8/30/2012	8.0	21.48	7.96	6.57	30
Bubble Pond	ACBUBL	8/30/2012	9.1	16.76	1.42	5.77	33
Bubble Pond	ACBUBL	8/30/2012	10.0	15.53	0.42	5.76	35
Bubble Pond	ACBUBL	8/30/2012	11.0	15.03	0.05	5.94	40
Bubble Pond	ACBUBL	8/30/2012	11.4	14.91	0.05	6.15	63
Bubble Pond	ACBUBL	9/21/2012	0.0	17.54	9.11	6.85	30
Bubble Pond	ACBUBL	9/21/2012	1.0	17.56	9.11	6.78	30
Bubble Pond	ACBUBL	9/21/2012	2.0	17.55	9.09	6.76	30
Bubble Pond	ACBUBL	9/21/2012	3.0	17.54	9.08	6.75	30
Bubble Pond	ACBUBL	9/21/2012	4.0	17.53	9.06	6.74	30
Bubble Pond	ACBUBL	9/21/2012	5.0	17.51	9.06	6.72	30
Bubble Pond	ACBUBL	9/21/2012	6.0	17.49	9.02	6.71	30
Bubble Pond	ACBUBL	9/21/2012	7.0	17.48	9.00	6.71	30
Bubble Pond	ACBUBL	9/21/2012	8.0	17.45	8.95	6.67	30
Bubble Pond	ACBUBL	9/21/2012	9.0	17.39	8.90	6.66	30
Bubble Pond	ACBUBL	9/21/2012	10.0	17.38	8.87	6.64	30
Bubble Pond	ACBUBL	9/21/2012	11.0	17.36	8.88	6.63	30
Bubble Pond	ACBUBL	9/21/2012	12.0	17.37	8.87	6.64	30
Bubble Pond	ACBUBL	9/21/2012	12.7	17.08	2.18	6.32	51
Bubble Pond	ACBUBL	10/25/2012	0.0	11.15	10.30	6.17	29
Bubble Pond	ACBUBL	10/25/2012	1.0	11.15	10.28	6.27	29
Bubble Pond	ACBUBL	10/25/2012	2.0	11.11	10.26	6.29	29
Bubble Pond	ACBUBL	10/25/2012	3.0	11.10	10.25	6.30	29
Bubble Pond	ACBUBL	10/25/2012	4.0	11.08	10.26	6.30	29
Bubble Pond	ACBUBL	10/25/2012	5.0	11.07	10.25	6.31	29
Bubble Pond	ACBUBL	10/25/2012	6.0	11.06	10.25	6.32	29
Bubble Pond	ACBUBL	10/25/2012	7.0	11.05	10.23	6.33	29
Bubble Pond	ACBUBL	10/25/2012	8.0	11.06	10.23	6.34	29
Bubble Pond	ACBUBL	10/25/2012	9.0	11.05	10.24	6.34	29
Bubble Pond	ACBUBL	10/25/2012	10.0	11.01	10.24	6.34	29
Bubble Pond	ACBUBL	10/25/2012	11.0	10.97	10.23	6.34	29
Bubble Pond	ACBUBL	10/25/2012	12.0	10.97	10.23	6.34	29
Bubble Pond	ACBUBL	10/25/2012	12.4	11.07	4.33	6.13	37

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Eagle Lake	ACEAGL	6/18/2012	0.0	18.15	9.64	6.87	32
Eagle Lake	ACEAGL	6/18/2012	1.0	18.15	9.67	6.85	32
Eagle Lake	ACEAGL	6/18/2012	2.0	18.09	9.68	6.85	32
Eagle Lake	ACEAGL	6/18/2012	3.0	18.01	9.67	6.84	32
Eagle Lake	ACEAGL	6/18/2012	4.0	17.89	9.67	6.84	32
Eagle Lake	ACEAGL	6/18/2012	5.0	17.86	9.67	6.83	32
Eagle Lake	ACEAGL	6/18/2012	6.0	17.84	9.66	6.83	32
Eagle Lake	ACEAGL	6/18/2012	7.0	17.79	9.67	6.83	32
Eagle Lake	ACEAGL	6/18/2012	8.0	16.33	9.93	6.79	32
Eagle Lake	ACEAGL	6/18/2012	9.0	16.32	9.92	6.79	32
Eagle Lake	ACEAGL	6/18/2012	10.0	15.83	10.02	6.77	32
Eagle Lake	ACEAGL	6/18/2012	11.0	14.92	10.11	6.70	32
Eagle Lake	ACEAGL	6/18/2012	12.0	13.93	10.13	6.58	32
Eagle Lake	ACEAGL	6/18/2012	13.0	12.76	10.09	6.44	32
Eagle Lake	ACEAGL	6/18/2012	14.0	12.01	9.88	6.32	32
Eagle Lake	ACEAGL	6/18/2012	15.0	11.86	9.76	6.27	32
Eagle Lake	ACEAGL	6/18/2012	16.0	11.79	9.72	6.25	32
Eagle Lake	ACEAGL	6/18/2012	17.0	11.74	9.69	6.22	32
Eagle Lake	ACEAGL	6/18/2012	18.0	11.73	9.67	6.21	32
Eagle Lake	ACEAGL	6/18/2012	19.0	11.72	9.66	6.21	32
Eagle Lake	ACEAGL	6/18/2012	20.0	11.67	9.64	6.20	32
Eagle Lake	ACEAGL	6/18/2012	21.0	11.64	9.59	6.20	32
Eagle Lake	ACEAGL	6/18/2012	22.0	11.63	9.56	6.19	32
Eagle Lake	ACEAGL	6/18/2012	23.0	11.62	9.54	6.20	32
Eagle Lake	ACEAGL	6/18/2012	24.0	11.61	9.52	6.20	32
Eagle Lake	ACEAGL	6/18/2012	25.0	11.60	9.49	6.21	32
Eagle Lake	ACEAGL	6/18/2012	26.0	11.59	9.48	6.20	32
Eagle Lake	ACEAGL	6/18/2012	27.0	11.59	9.47	6.20	32
Eagle Lake	ACEAGL	6/18/2012	28.0	11.59	9.46	6.21	32
Eagle Lake	ACEAGL	6/18/2012	29.0	11.59	9.45	6.21	32
Eagle Lake	ACEAGL	6/18/2012	29.0	11.59	9.43	6.20	32
Eagle Lake	ACEAGL	6/18/2012	29.5	11.48	2.85	6.27	38
Eagle Lake	ACEAGL	7/23/2012	0.0	23.01	8.17	6.75	34
Eagle Lake	ACEAGL	7/23/2012	1.0	23.02	8.16	6.74	34
Eagle Lake	ACEAGL	7/23/2012	2.0	23.00	8.13	6.76	35
Eagle Lake	ACEAGL	7/23/2012	3.0	22.98	8.11	6.77	34
Eagle Lake	ACEAGL	7/23/2012	4.0	22.98	8.08	6.77	34
Eagle Lake	ACEAGL	7/23/2012	5.0	22.96	8.06	6.78	34
Eagle Lake	ACEAGL	7/23/2012	6.0	22.59	8.09	6.77	34
Eagle Lake	ACEAGL	7/23/2012	7.0	22.36	8.11	6.76	33
Eagle Lake	ACEAGL	7/23/2012	8.0	22.25	8.06	6.75	33
Eagle Lake	ACEAGL	7/23/2012	9.0	19.57	9.03	6.67	35
Eagle Lake	ACEAGL	7/23/2012	10.0	17.07	9.22	6.47	33
Eagle Lake	ACEAGL	7/23/2012	11.0	15.82	9.15	6.21	33
Eagle Lake	ACEAGL	7/23/2012	12.0	13.98	8.61	6.00	33
Eagle Lake	ACEAGL	7/23/2012	13.0	13.45	8.19	5.92	33
Eagle Lake	ACEAGL	7/23/2012	14.0	13.05	7.83	5.85	33
Eagle Lake	ACEAGL	7/23/2012	15.0	12.87	7.63	5.81	33
Eagle Lake	ACEAGL	7/23/2012	16.0	12.83	7.54	5.79	33
Eagle Lake	ACEAGL	7/23/2012	17.0	12.81	7.47	5.80	35
Eagle Lake	ACEAGL	7/23/2012	18.0	12.79	7.44	5.81	33
Eagle Lake	ACEAGL	7/23/2012	19.0	12.79	7.40	5.85	33
Eagle Lake	ACEAGL	7/23/2012	20.0	12.78	7.38	5.87	33
Eagle Lake	ACEAGL	7/23/2012	21.0	12.77	7.34	5.88	33

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Eagle Lake	ACEAGL	7/23/2012	22.0	12.75	7.31	5.88	35
Eagle Lake	ACEAGL	7/23/2012	23.0	12.74	7.27	5.87	33
Eagle Lake	ACEAGL	7/23/2012	24.0	12.74	7.22	5.88	33
Eagle Lake	ACEAGL	7/23/2012	25.0	12.72	7.19	5.87	33
Eagle Lake	ACEAGL	7/23/2012	26.0	12.72	7.19	5.87	33
Eagle Lake	ACEAGL	7/23/2012	27.0	12.72	7.20	5.88	33
Eagle Lake	ACEAGL	7/23/2012	28.0	12.71	7.16	5.87	33
Eagle Lake	ACEAGL	7/23/2012	29.0	12.35	3.02	6.18	63
Eagle Lake	ACEAGL	7/23/2012	29.2	12.11	0.59	6.26	82
Eagle Lake	ACEAGL	8/21/2012	0.0	23.57	8.28	7.12	33
Eagle Lake	ACEAGL	8/21/2012	0.3	23.69	8.26	6.64	33
Eagle Lake	ACEAGL	8/21/2012	1.0	23.59	8.26	6.95	33
Eagle Lake	ACEAGL	8/21/2012	2.0	23.59	8.27	6.87	33
Eagle Lake	ACEAGL	8/21/2012	3.0	23.58	8.25	6.82	33
Eagle Lake	ACEAGL	8/21/2012	4.0	23.58	8.26	6.79	33
Eagle Lake	ACEAGL	8/21/2012	5.0	23.57	8.25	6.77	33
Eagle Lake	ACEAGL	8/21/2012	6.0	23.49	8.26	6.74	33
Eagle Lake	ACEAGL	8/21/2012	7.0	23.33	8.32	6.71	33
Eagle Lake	ACEAGL	8/21/2012	8.0	23.03	8.35	6.65	33
Eagle Lake	ACEAGL	8/21/2012	9.0	22.32	8.52	6.63	35
Eagle Lake	ACEAGL	8/21/2012	10.0	20.88	8.89	6.56	33
Eagle Lake	ACEAGL	8/21/2012	11.0	18.19	9.28	6.38	34
Eagle Lake	ACEAGL	8/21/2012	12.0	15.72	9.09	6.19	34
Eagle Lake	ACEAGL	8/21/2012	13.0	14.28	8.20	5.96	34
Eagle Lake	ACEAGL	8/21/2012	14.0	13.96	7.90	5.89	34
Eagle Lake	ACEAGL	8/21/2012	15.0	13.71	7.61	5.85	34
Eagle Lake	ACEAGL	8/21/2012	16.0	13.53	7.20	5.80	34
Eagle Lake	ACEAGL	8/21/2012	17.0	13.38	6.96	5.77	34
Eagle Lake	ACEAGL	8/21/2012	18.0	13.35	6.86	5.74	34
Eagle Lake	ACEAGL	8/21/2012	19.0	13.33	6.80	5.72	34
Eagle Lake	ACEAGL	8/21/2012	20.0	13.26	6.61	5.68	34
Eagle Lake	ACEAGL	8/21/2012	21.0	13.24	6.53	5.63	34
Eagle Lake	ACEAGL	8/21/2012	22.0	13.23	6.48	5.59	34
Eagle Lake	ACEAGL	8/21/2012	23.0	13.22	6.44	5.56	34
Eagle Lake	ACEAGL	8/21/2012	24.0	13.22	6.42	5.54	34
Eagle Lake	ACEAGL	8/21/2012	25.0	13.21	6.39	5.51	34
Eagle Lake	ACEAGL	8/21/2012	26.0	13.20	6.38	5.49	34
Eagle Lake	ACEAGL	8/21/2012	27.0	13.20	6.33	5.47	34
Eagle Lake	ACEAGL	8/21/2012	28.0	13.20	6.31	5.46	34
Eagle Lake	ACEAGL	8/21/2012	29.0	13.20	6.31	5.45	34
Eagle Lake	ACEAGL	8/21/2012	30.0	13.20	6.31	5.44	34
Eagle Lake	ACEAGL	9/21/2012	0.0	18.92	8.82	6.67	33
Eagle Lake	ACEAGL	9/21/2012	1.0	18.94	8.80	6.68	33
Eagle Lake	ACEAGL	9/21/2012	2.0	18.95	8.81	6.67	33
Eagle Lake	ACEAGL	9/21/2012	3.0	18.95	8.77	6.69	33
Eagle Lake	ACEAGL	9/21/2012	4.0	18.94	8.77	6.69	33
Eagle Lake	ACEAGL	9/21/2012	5.0	18.94	8.76	6.69	33
Eagle Lake	ACEAGL	9/21/2012	6.0	18.93	8.75	6.69	33
Eagle Lake	ACEAGL	9/21/2012	7.0	18.92	8.77	6.68	33
Eagle Lake	ACEAGL	9/21/2012	8.0	18.91	8.76	6.69	33
Eagle Lake	ACEAGL	9/21/2012	9.0	18.90	8.74	6.68	33
Eagle Lake	ACEAGL	9/21/2012	10.0	18.90	8.74	6.69	33
Eagle Lake	ACEAGL	9/21/2012	11.0	18.84	8.70	6.68	33
Eagle Lake	ACEAGL	9/21/2012	12.0	18.79	8.57	6.63	33

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Eagle Lake	ACEAGL	9/21/2012	13.0	18.63	8.43	6.54	33
Eagle Lake	ACEAGL	9/21/2012	14.0	17.37	7.70	6.24	33
Eagle Lake	ACEAGL	9/21/2012	15.0	15.20	6.80	6.02	34
Eagle Lake	ACEAGL	9/21/2012	16.0	14.24	5.94	5.89	34
Eagle Lake	ACEAGL	9/21/2012	17.0	13.96	5.74	5.84	34
Eagle Lake	ACEAGL	9/21/2012	18.0	13.78	5.62	5.82	34
Eagle Lake	ACEAGL	9/21/2012	19.0	13.55	5.13	5.80	34
Eagle Lake	ACEAGL	9/21/2012	20.0	13.46	4.83	5.78	34
Eagle Lake	ACEAGL	9/21/2012	21.0	13.43	4.70	5.77	34
Eagle Lake	ACEAGL	9/21/2012	22.0	13.42	4.54	5.78	34
Eagle Lake	ACEAGL	9/21/2012	23.0	13.41	4.48	5.77	34
Eagle Lake	ACEAGL	9/21/2012	24.0	13.39	4.41	5.77	34
Eagle Lake	ACEAGL	9/21/2012	25.0	13.39	4.37	5.77	34
Eagle Lake	ACEAGL	9/21/2012	26.0	13.38	4.33	5.77	34
Eagle Lake	ACEAGL	9/21/2012	27.0	13.38	4.29	5.77	34
Eagle Lake	ACEAGL	9/21/2012	28.0	13.37	4.22	5.77	35
Eagle Lake	ACEAGL	9/21/2012	29.0	13.37	4.16	5.77	35
Eagle Lake	ACEAGL	9/21/2012	30.0	13.35	4.11	5.77	35
Eagle Lake	ACEAGL	10/17/2012	0.0	14.47	9.65	5.86	33
Eagle Lake	ACEAGL	10/17/2012	1.0	14.50	9.45	6.09	33
Eagle Lake	ACEAGL	10/17/2012	2.0	14.50	9.44	6.18	33
Eagle Lake	ACEAGL	10/17/2012	3.0	14.48	9.44	6.24	33
Eagle Lake	ACEAGL	10/17/2012	4.0	14.47	9.43	6.27	33
Eagle Lake	ACEAGL	10/17/2012	5.0	14.46	9.40	6.29	33
Eagle Lake	ACEAGL	10/17/2012	6.0	14.45	9.43	6.30	33
Eagle Lake	ACEAGL	10/17/2012	7.0	14.44	9.42	6.32	33
Eagle Lake	ACEAGL	10/17/2012	8.0	14.44	9.40	6.35	33
Eagle Lake	ACEAGL	10/17/2012	9.0	14.44	9.42	6.36	33
Eagle Lake	ACEAGL	10/17/2012	10.0	14.44	9.40	6.38	33
Eagle Lake	ACEAGL	10/17/2012	11.0	14.44	9.38	6.39	33
Eagle Lake	ACEAGL	10/17/2012	12.0	14.44	9.39	6.41	33
Eagle Lake	ACEAGL	10/17/2012	13.0	14.43	9.40	6.41	33
Eagle Lake	ACEAGL	10/17/2012	14.0	14.43	9.39	6.41	33
Eagle Lake	ACEAGL	10/17/2012	15.0	14.43	9.39	6.43	33
Eagle Lake	ACEAGL	10/17/2012	16.0	14.43	9.39	6.42	33
Eagle Lake	ACEAGL	10/17/2012	17.0	14.42	9.39	6.42	33
Eagle Lake	ACEAGL	10/17/2012	18.0	14.42	9.35	6.44	33
Eagle Lake	ACEAGL	10/17/2012	19.0	14.42	9.39	6.45	33
Eagle Lake	ACEAGL	10/17/2012	20.0	14.41	9.40	6.44	33
Eagle Lake	ACEAGL	10/17/2012	21.0	14.42	9.37	6.46	33
Eagle Lake	ACEAGL	10/17/2012	22.0	14.42	9.39	6.46	33
Eagle Lake	ACEAGL	10/17/2012	23.0	14.41	9.39	6.46	33
Eagle Lake	ACEAGL	10/17/2012	24.0	14.41	9.40	6.46	33
Eagle Lake	ACEAGL	10/17/2012	25.0	14.41	9.40	6.47	33
Eagle Lake	ACEAGL	10/17/2012	26.0	14.41	9.40	6.47	33
Eagle Lake	ACEAGL	10/17/2012	27.0	14.40	9.40	6.47	33
Eagle Lake	ACEAGL	10/17/2012	28.0	14.41	9.40	6.48	33
Eagle Lake	ACEAGL	10/17/2012	29.0	14.40	9.39	6.47	33
Eagle Lake	ACEAGL	10/17/2012	29.5	14.29	3.29	6.30	40
Echo Lake	ACECHO	6/11/2012	0.0	17.24	9.73		
Echo Lake	ACECHO	6/11/2012	1.0	17.20	9.81		
Echo Lake	ACECHO	6/11/2012	2.0	16.50	9.92		
Echo Lake	ACECHO	6/11/2012	3.0	16.20	9.65	6.82	62
Echo Lake	ACECHO	6/11/2012	4.0	15.89	9.68	6.80	62

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Echo Lake	ACECHO	6/11/2012	5.0	15.66	9.60	6.75	62
Echo Lake	ACECHO	6/11/2012	6.0	15.15	9.60	6.71	61
Echo Lake	ACECHO	6/11/2012	7.0	14.76	9.45	6.64	61
Echo Lake	ACECHO	6/11/2012	8.0	14.51	9.41	6.62	61
Echo Lake	ACECHO	6/11/2012	9.0	14.04	9.00	6.53	61
Echo Lake	ACECHO	6/11/2012	10.0	13.68	9.46	6.51	62
Echo Lake	ACECHO	6/11/2012	11.0	12.08	9.34	6.39	62
Echo Lake	ACECHO	6/11/2012	12.0	11.74	9.28	6.35	62
Echo Lake	ACECHO	6/11/2012	13.0	11.26	9.05	6.29	62
Echo Lake	ACECHO	6/11/2012	14.0	11.13	8.85	6.28	62
Echo Lake	ACECHO	6/11/2012	15.0	11.06	8.78	6.29	62
Echo Lake	ACECHO	6/11/2012	16.0	10.96	8.63	6.27	62
Echo Lake	ACECHO	6/11/2012	17.0	10.91	8.43	6.25	62
Echo Lake	ACECHO	6/11/2012	18.0	10.89	8.32	6.23	62
Echo Lake	ACECHO	6/11/2012	19.0	10.82	8.05	6.20	62
Echo Lake	ACECHO	6/11/2012	19.2	10.78	3.34	6.18	70
Echo Lake	ACECHO	7/19/2012	0.0	24.16	8.76	7.03	64
Echo Lake	ACECHO	7/19/2012	1.0	24.15	8.63	7.04	64
Echo Lake	ACECHO	7/19/2012	2.0	24.13	8.58	7.05	64
Echo Lake	ACECHO	7/19/2012	3.0	24.15	8.54	7.05	62
Echo Lake	ACECHO	7/19/2012	4.0	24.11	8.53	7.05	62
Echo Lake	ACECHO	7/19/2012	5.0	24.09	8.50	7.05	64
Echo Lake	ACECHO	7/19/2012	7.0	18.69	8.66	6.51	63
Echo Lake	ACECHO	7/19/2012	8.0	16.61	8.15	6.28	63
Echo Lake	ACECHO	7/19/2012	9.0	14.89	7.99	6.19	60
Echo Lake	ACECHO	7/19/2012	10.0	13.74	7.73	6.11	63
Echo Lake	ACECHO	7/19/2012	11.0	12.68	6.97	6.03	63
Echo Lake	ACECHO	7/19/2012	12.0	11.76	6.35	5.95	59
Echo Lake	ACECHO	7/19/2012	13.0	11.58	6.29	5.92	62
Echo Lake	ACECHO	7/19/2012	14.0	11.57	6.32	5.91	62
Echo Lake	ACECHO	7/19/2012	15.0	11.55	6.30	5.90	62
Echo Lake	ACECHO	7/19/2012	16.0	11.53	6.24	5.89	62
Echo Lake	ACECHO	7/19/2012	17.0	11.41	5.93	5.86	63
Echo Lake	ACECHO	7/19/2012	17.9	11.31	0.85	6.12	77
Echo Lake	ACECHO	8/28/2012	0.0	24.40	8.30	7.50	65
Echo Lake	ACECHO	8/28/2012	1.0	23.96	8.37	7.32	65
Echo Lake	ACECHO	8/28/2012	2.0	23.86	8.26	7.24	65
Echo Lake	ACECHO	8/28/2012	3.0	23.78	8.29	7.18	65
Echo Lake	ACECHO	8/28/2012	4.0	23.71	8.27	7.15	65
Echo Lake	ACECHO	8/28/2012	5.0	23.69	8.24	7.12	65
Echo Lake	ACECHO	8/28/2012	6.0	23.48	8.17	7.07	65
Echo Lake	ACECHO	8/28/2012	7.0	23.19	7.86	6.87	65
Echo Lake	ACECHO	8/28/2012	8.0	19.29	6.39	6.40	64
Echo Lake	ACECHO	8/28/2012	9.0	16.40	5.63	6.15	64
Echo Lake	ACECHO	8/28/2012	10.0	14.28	4.92	6.02	64
Echo Lake	ACECHO	8/28/2012	11.0	12.89	4.07	5.84	63
Echo Lake	ACECHO	8/28/2012	12.0	12.24	2.98	5.70	64
Echo Lake	ACECHO	8/28/2012	13.0	11.84	2.64	5.69	64
Echo Lake	ACECHO	8/28/2012	14.0	11.72	2.39	5.67	64
Echo Lake	ACECHO	8/28/2012	15.0	11.57	2.08	5.65	64
Echo Lake	ACECHO	8/28/2012	16.0	11.56	2.02	5.66	64
Echo Lake	ACECHO	8/28/2012	17.0	11.54	1.93	5.67	64
Echo Lake	ACECHO	8/28/2012	18.0	11.50	1.71	5.70	64
Echo Lake	ACECHO	8/28/2012	19.0	11.44	0.48	5.97	72

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Echo Lake	ACECHO	9/20/2012	0.0	19.61	9.01	6.79	64
Echo Lake	ACECHO	9/20/2012	1.0	19.64	8.89	6.83	64
Echo Lake	ACECHO	9/20/2012	2.0	19.49	8.87	6.84	66
Echo Lake	ACECHO	9/20/2012	3.0	19.38	8.85	6.85	64
Echo Lake	ACECHO	9/20/2012	4.0	19.30	8.84	6.85	64
Echo Lake	ACECHO	9/20/2012	5.0	19.26	8.81	6.84	64
Echo Lake	ACECHO	9/20/2012	6.0	19.19	8.78	6.84	64
Echo Lake	ACECHO	9/20/2012	7.0	19.15	8.76	6.83	64
Echo Lake	ACECHO	9/20/2012	8.0	19.10	8.77	6.83	66
Echo Lake	ACECHO	9/20/2012	9.0	19.07	8.75	6.82	64
Echo Lake	ACECHO	9/20/2012	10.0	18.86	8.66	6.79	64
Echo Lake	ACECHO	9/20/2012	11.0	13.47	2.50	6.01	65
Echo Lake	ACECHO	9/20/2012	12.0	12.38	1.92	5.93	65
Echo Lake	ACECHO	9/20/2012	13.0	11.90	1.56	5.90	65
Echo Lake	ACECHO	9/20/2012	14.0	11.74	1.22	5.91	66
Echo Lake	ACECHO	9/20/2012	15.0	11.64	0.87	5.92	67
Echo Lake	ACECHO	9/20/2012	16.0	11.56	0.73	5.92	67
Echo Lake	ACECHO	9/20/2012	17.0	11.49	0.52	5.93	68
Echo Lake	ACECHO	9/20/2012	18.0	11.46	0.38	5.94	68
Echo Lake	ACECHO	9/20/2012	18.9	11.38	0.16	6.09	83
Echo Lake	ACECHO	10/22/2012	0.0	13.96	9.80	6.12	62
Echo Lake	ACECHO	10/22/2012	1.0	13.96	9.59	6.33	63
Echo Lake	ACECHO	10/22/2012	2.0	13.95	9.59	6.39	63
Echo Lake	ACECHO	10/22/2012	3.0	13.94	9.57	6.44	63
Echo Lake	ACECHO	10/22/2012	4.0	13.94	9.57	6.47	63
Echo Lake	ACECHO	10/22/2012	5.0	13.93	9.57	6.48	63
Echo Lake	ACECHO	10/22/2012	6.0	13.93	9.56	6.50	63
Echo Lake	ACECHO	10/22/2012	7.0	13.92	9.55	6.50	63
Echo Lake	ACECHO	10/22/2012	8.0	13.92	9.53	6.51	63
Echo Lake	ACECHO	10/22/2012	9.0	13.91	9.52	6.51	62
Echo Lake	ACECHO	10/22/2012	10.0	13.89	9.51	6.50	62
Echo Lake	ACECHO	10/22/2012	11.0	13.84	9.41	6.47	62
Echo Lake	ACECHO	10/22/2012	12.0	13.79	9.29	6.44	62
Echo Lake	ACECHO	10/22/2012	13.0	13.74	9.12	6.38	62
Echo Lake	ACECHO	10/22/2012	14.0	13.66	9.19	6.33	61
Echo Lake	ACECHO	10/22/2012	15.0	13.60	8.93	6.30	62
Echo Lake	ACECHO	10/22/2012	16.0	13.53	8.72	6.26	62
Echo Lake	ACECHO	10/22/2012	17.0	13.17	7.41	6.16	63
Echo Lake	ACECHO	10/22/2012	18.0	11.47	1.73	6.19	82
Echo Lake	ACECHO	10/22/2012	19.0	11.20	0.28	6.38	90
Echo Lake	ACECHO	10/22/2012	19.2	11.19	0.17	6.41	90
Jordan Pond	ACJORD	6/7/2012	0.0	13.93	10.32	6.77	30
Jordan Pond	ACJORD	6/7/2012	1.0	13.49	10.36	6.77	30
Jordan Pond	ACJORD	6/7/2012	2.1	13.41	10.36	6.77	30
Jordan Pond	ACJORD	6/7/2012	3.0	13.34	10.36	6.78	30
Jordan Pond	ACJORD	6/7/2012	4.0	13.29	10.37	6.79	30
Jordan Pond	ACJORD	6/7/2012	5.0	13.28	10.36	6.80	30
Jordan Pond	ACJORD	6/7/2012	6.0	13.04	10.41	6.79	30
Jordan Pond	ACJORD	6/7/2012	7.0	12.81	10.47	6.77	30
Jordan Pond	ACJORD	6/7/2012	8.0	12.74	10.53	6.81	30
Jordan Pond	ACJORD	6/7/2012	9.0	11.36	11.13	6.77	31
Jordan Pond	ACJORD	6/7/2012	10.0	9.29	11.90	6.72	31
Jordan Pond	ACJORD	6/7/2012	11.0	8.76	12.03	6.71	31
Jordan Pond	ACJORD	6/7/2012	12.0	8.23	12.14	6.69	31

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Jordan Pond	ACJORD	6/7/2012	13.0	7.60	12.22	6.66	31
Jordan Pond	ACJORD	6/7/2012	14.0	7.25	12.24	6.65	31
Jordan Pond	ACJORD	6/7/2012	15.0	7.15	12.29	6.66	31
Jordan Pond	ACJORD	6/7/2012	16.0	6.97	12.32	6.66	31
Jordan Pond	ACJORD	6/7/2012	17.0	6.81	12.36	6.65	32
Jordan Pond	ACJORD	6/7/2012	18.0	6.65	12.35	6.64	32
Jordan Pond	ACJORD	6/7/2012	19.0	6.58	12.29	6.63	32
Jordan Pond	ACJORD	6/7/2012	20.0	6.55	12.26	6.62	32
Jordan Pond	ACJORD	6/7/2012	21.0	6.50	12.20	6.61	32
Jordan Pond	ACJORD	6/7/2012	22.1	6.44	12.16	6.59	32
Jordan Pond	ACJORD	6/7/2012	23.0	6.43	12.15	6.59	32
Jordan Pond	ACJORD	6/7/2012	24.0	6.39	12.14	6.59	32
Jordan Pond	ACJORD	6/7/2012	25.0	6.30	12.13	6.59	32
Jordan Pond	ACJORD	6/7/2012	26.0	6.20	12.13	6.59	32
Jordan Pond	ACJORD	6/7/2012	27.0	6.14	12.12	6.57	32
Jordan Pond	ACJORD	6/7/2012	28.0	6.10	12.06	6.55	32
Jordan Pond	ACJORD	6/7/2012	29.0	6.06	12.05	6.54	32
Jordan Pond	ACJORD	6/7/2012	30.0	6.03	12.04	6.54	32
Jordan Pond	ACJORD	7/26/2012	0.0	21.94	8.46	6.94	32
Jordan Pond	ACJORD	7/26/2012	1.0	21.93	8.45	6.93	32
Jordan Pond	ACJORD	7/26/2012	2.0	21.93	8.45	6.93	32
Jordan Pond	ACJORD	7/26/2012	3.0	21.93	8.44	6.93	32
Jordan Pond	ACJORD	7/26/2012	4.0	21.93	8.45	6.93	32
Jordan Pond	ACJORD	7/26/2012	5.0	21.92	8.44	6.93	31
Jordan Pond	ACJORD	7/26/2012	6.0	21.91	8.42	6.94	32
Jordan Pond	ACJORD	7/26/2012	7.0	21.75	8.51	6.93	32
Jordan Pond	ACJORD	7/26/2012	8.0	18.69	10.07	6.88	31
Jordan Pond	ACJORD	7/26/2012	9.0	15.14	10.95	6.77	31
Jordan Pond	ACJORD	7/26/2012	10.0	12.44	11.66	6.64	31
Jordan Pond	ACJORD	7/26/2012	11.0	10.97	12.09	6.46	32
Jordan Pond	ACJORD	7/26/2012	12.0	9.52	12.47	6.40	32
Jordan Pond	ACJORD	7/26/2012	13.0	8.66	12.66	6.39	32
Jordan Pond	ACJORD	7/26/2012	14.0	7.90	12.79	6.38	32
Jordan Pond	ACJORD	7/26/2012	15.0	7.59	12.81	6.36	32
Jordan Pond	ACJORD	7/26/2012	16.0	7.25	12.90	6.37	32
Jordan Pond	ACJORD	7/26/2012	17.0	7.03	12.94	6.36	32
Jordan Pond	ACJORD	7/26/2012	18.0	6.88	12.90	6.35	30
Jordan Pond	ACJORD	7/26/2012	19.0	6.76	12.84	6.33	32
Jordan Pond	ACJORD	7/26/2012	20.0	6.66	12.68	6.28	32
Jordan Pond	ACJORD	7/26/2012	21.0	6.58	12.57	6.24	32
Jordan Pond	ACJORD	7/26/2012	22.0	6.50	12.45	6.20	32
Jordan Pond	ACJORD	7/26/2012	23.0	6.44	12.46	6.22	32
Jordan Pond	ACJORD	7/26/2012	24.0	6.36	12.36	6.20	32
Jordan Pond	ACJORD	7/26/2012	25.0	6.32	12.31	6.19	32
Jordan Pond	ACJORD	7/26/2012	26.0	6.28	12.32	6.18	32
Jordan Pond	ACJORD	7/26/2012	27.0	6.22	12.21	6.18	32
Jordan Pond	ACJORD	7/26/2012	28.0	6.18	12.18	6.17	32
Jordan Pond	ACJORD	7/26/2012	29.0	6.13	12.06	6.17	32
Jordan Pond	ACJORD	7/26/2012	30.0	6.11	12.02	6.17	31
Jordan Pond	ACJORD	8/20/2012	0.0	23.18	8.52	6.80	32
Jordan Pond	ACJORD	8/20/2012	1.0	22.97	8.53	6.86	32
Jordan Pond	ACJORD	8/20/2012	2.0	22.91	8.52	6.86	32
Jordan Pond	ACJORD	8/20/2012	3.0	22.87	8.51	6.87	32
Jordan Pond	ACJORD	8/20/2012	4.0	22.86	8.50	6.87	32

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Jordan Pond	ACJORD	8/20/2012	5.0	22.84	8.51	6.87	32
Jordan Pond	ACJORD	8/20/2012	6.0	22.80	8.52	6.87	32
Jordan Pond	ACJORD	8/20/2012	7.0	22.70	8.55	6.88	32
Jordan Pond	ACJORD	8/20/2012	8.0	21.45	9.04	6.84	31
Jordan Pond	ACJORD	8/20/2012	9.0	18.81	10.47	6.80	32
Jordan Pond	ACJORD	8/20/2012	10.0	14.02	11.89	6.69	31
Jordan Pond	ACJORD	8/20/2012	11.0	12.33	12.27	6.58	32
Jordan Pond	ACJORD	8/20/2012	12.0	10.44	12.69	6.52	32
Jordan Pond	ACJORD	8/20/2012	13.0	9.43	12.89	6.51	32
Jordan Pond	ACJORD	8/20/2012	14.0	8.59	12.89	6.45	32
Jordan Pond	ACJORD	8/20/2012	15.0	8.01	12.88	6.41	32
Jordan Pond	ACJORD	8/20/2012	16.0	7.48	12.93	6.38	32
Jordan Pond	ACJORD	8/20/2012	17.0	7.06	12.95	6.35	30
Jordan Pond	ACJORD	8/20/2012	18.0	6.82	12.73	6.25	32
Jordan Pond	ACJORD	8/20/2012	19.0	6.70	12.50	6.22	32
Jordan Pond	ACJORD	8/20/2012	20.0	6.64	12.44	6.17	32
Jordan Pond	ACJORD	8/20/2012	21.0	6.55	12.25	6.11	32
Jordan Pond	ACJORD	8/20/2012	22.0	6.50	12.14	6.07	32
Jordan Pond	ACJORD	8/20/2012	23.0	6.44	12.08	6.06	31
Jordan Pond	ACJORD	8/20/2012	24.0	6.40	12.04	6.05	31
Jordan Pond	ACJORD	8/20/2012	25.0	6.34	11.98	6.03	32
Jordan Pond	ACJORD	8/20/2012	26.0	6.24	11.90	6.00	32
Jordan Pond	ACJORD	8/20/2012	27.0	6.17	11.77	5.98	32
Jordan Pond	ACJORD	8/20/2012	28.0	6.13	11.56	5.98	32
Jordan Pond	ACJORD	8/20/2012	29.0	6.08	11.46	5.96	32
Jordan Pond	ACJORD	8/20/2012	30.0	6.07	11.40	5.96	32
Jordan Pond	ACJORD	9/20/2012	0.0	17.99	9.52	6.38	31
Jordan Pond	ACJORD	9/20/2012	1.0	17.99	9.42	6.54	31
Jordan Pond	ACJORD	9/20/2012	2.0	17.99	9.41	6.60	31
Jordan Pond	ACJORD	9/20/2012	3.0	17.97	9.40	6.66	31
Jordan Pond	ACJORD	9/20/2012	4.0	17.92	9.40	6.70	31
Jordan Pond	ACJORD	9/20/2012	5.0	17.91	9.38	6.73	31
Jordan Pond	ACJORD	9/20/2012	6.0	17.91	9.36	6.75	31
Jordan Pond	ACJORD	9/20/2012	7.0	17.90	9.36	6.76	31
Jordan Pond	ACJORD	9/20/2012	8.0	17.89	9.36	6.77	31
Jordan Pond	ACJORD	9/20/2012	9.0	17.88	9.34	6.79	31
Jordan Pond	ACJORD	9/20/2012	10.0	17.84	9.34	6.79	31
Jordan Pond	ACJORD	9/20/2012	11.0	16.91	9.69	6.77	31
Jordan Pond	ACJORD	9/20/2012	12.0	13.17	11.90	6.71	31
Jordan Pond	ACJORD	9/20/2012	13.0	9.60	12.64	6.66	32
Jordan Pond	ACJORD	9/20/2012	14.0	8.91	12.72	6.59	32
Jordan Pond	ACJORD	9/20/2012	15.0	8.26	12.60	6.47	32
Jordan Pond	ACJORD	9/20/2012	16.0	7.87	12.49	6.37	32
Jordan Pond	ACJORD	9/20/2012	17.0	7.58	12.58	6.34	32
Jordan Pond	ACJORD	9/20/2012	18.0	7.19	12.61	6.31	32
Jordan Pond	ACJORD	9/20/2012	19.0	6.95	12.44	6.22	32
Jordan Pond	ACJORD	9/20/2012	20.0	6.77	12.30	6.19	32
Jordan Pond	ACJORD	9/20/2012	21.0	6.69	12.18	6.15	32
Jordan Pond	ACJORD	9/20/2012	22.0	6.62	12.06	6.12	32
Jordan Pond	ACJORD	9/20/2012	23.0	6.57	11.91	6.11	32
Jordan Pond	ACJORD	9/20/2012	24.0	6.52	11.80	6.09	32
Jordan Pond	ACJORD	9/20/2012	25.0	6.47	11.77	6.08	32
Jordan Pond	ACJORD	9/20/2012	26.0	6.43	11.66	6.05	32
Jordan Pond	ACJORD	9/20/2012	27.0	6.33	11.55	6.05	32

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Jordan Pond	ACJORD	9/20/2012	28.0	6.27	11.46	6.04	32
Jordan Pond	ACJORD	9/20/2012	29.0	6.22	11.37	6.02	32
Jordan Pond	ACJORD	9/20/2012	30.0	6.19	11.29	6.01	32
Jordan Pond	ACJORD	10/18/2012	0.0	12.90	10.29	6.43	31
Jordan Pond	ACJORD	10/18/2012	1.0	12.90	10.28	6.49	31
Jordan Pond	ACJORD	10/18/2012	2.0	12.90	10.28	6.50	31
Jordan Pond	ACJORD	10/18/2012	3.0	12.88	10.28	6.51	31
Jordan Pond	ACJORD	10/18/2012	4.0	12.88	10.26	6.53	31
Jordan Pond	ACJORD	10/18/2012	5.0	12.86	10.26	6.52	31
Jordan Pond	ACJORD	10/18/2012	6.0	12.85	10.27	6.53	31
Jordan Pond	ACJORD	10/18/2012	7.0	12.83	10.25	6.54	31
Jordan Pond	ACJORD	10/18/2012	8.0	12.79	10.26	6.54	31
Jordan Pond	ACJORD	10/18/2012	9.1	12.78	10.28	6.53	31
Jordan Pond	ACJORD	10/18/2012	10.0	12.78	10.26	6.54	31
Jordan Pond	ACJORD	10/18/2012	11.0	12.77	10.25	6.54	31
Jordan Pond	ACJORD	10/18/2012	12.0	12.77	10.26	6.54	31
Jordan Pond	ACJORD	10/18/2012	13.0	12.74	10.25	6.54	31
Jordan Pond	ACJORD	10/18/2012	14.0	12.23	10.43	6.52	31
Jordan Pond	ACJORD	10/18/2012	15.0	11.22	10.88	6.48	31
Jordan Pond	ACJORD	10/18/2012	16.1	8.89	11.82	6.40	32
Jordan Pond	ACJORD	10/18/2012	17.0	7.60	12.03	6.30	32
Jordan Pond	ACJORD	10/18/2012	18.0	7.17	11.70	6.10	32
Jordan Pond	ACJORD	10/18/2012	19.0	6.99	11.80	6.09	32
Jordan Pond	ACJORD	10/18/2012	20.0	6.84	11.82	6.07	32
Jordan Pond	ACJORD	10/18/2012	21.0	6.71	11.75	6.02	32
Jordan Pond	ACJORD	10/18/2012	22.0	6.61	11.42	5.96	32
Jordan Pond	ACJORD	10/18/2012	23.0	6.56	11.28	5.92	32
Jordan Pond	ACJORD	10/18/2012	24.0	6.51	11.22	5.90	32
Jordan Pond	ACJORD	10/18/2012	25.0	6.47	11.14	5.88	32
Jordan Pond	ACJORD	10/18/2012	26.0	6.39	10.84	5.84	32
Jordan Pond	ACJORD	10/18/2012	27.1	6.32	10.69	5.79	32
Jordan Pond	ACJORD	10/18/2012	28.0	6.23	10.56	5.78	32
Jordan Pond	ACJORD	10/18/2012	29.0	6.18	10.38	5.78	32
Jordan Pond	ACJORD	10/18/2012	30.0	6.13	10.23	5.78	32
Long Pond (MDI)	ACLONG	6/11/2012	0.0	16.79	10.12	6.84	42
Long Pond (MDI)	ACLONG	6/11/2012	1.0	16.71	10.18	6.83	42
Long Pond (MDI)	ACLONG	6/11/2012	2.0	16.37	10.22	6.82	42
Long Pond (MDI)	ACLONG	6/11/2012	3.0	16.05	10.24	6.82	42
Long Pond (MDI)	ACLONG	6/11/2012	4.0	15.64	10.23	6.78	42
Long Pond (MDI)	ACLONG	6/11/2012	5.0	14.60	10.18	6.66	42
Long Pond (MDI)	ACLONG	6/11/2012	6.0	14.36	10.16	6.62	42
Long Pond (MDI)	ACLONG	6/11/2012	7.0	14.23	10.12	6.59	42
Long Pond (MDI)	ACLONG	6/11/2012	8.0	14.04	10.11	6.56	42
Long Pond (MDI)	ACLONG	6/11/2012	9.0	13.72	10.13	6.54	42
Long Pond (MDI)	ACLONG	6/11/2012	10.1	13.42	10.15	6.52	42
Long Pond (MDI)	ACLONG	6/11/2012	11.0	13.14	10.17	6.49	42
Long Pond (MDI)	ACLONG	6/11/2012	12.0	12.90	10.20	6.47	42
Long Pond (MDI)	ACLONG	6/11/2012	13.0	12.55	10.25	6.45	42
Long Pond (MDI)	ACLONG	6/11/2012	14.0	10.95	10.46	6.38	42
Long Pond (MDI)	ACLONG	6/11/2012	15.0	10.51	10.54	6.37	42
Long Pond (MDI)	ACLONG	6/11/2012	16.1	10.09	10.62	6.36	42
Long Pond (MDI)	ACLONG	6/11/2012	17.0	9.91	10.61	6.34	42
Long Pond (MDI)	ACLONG	6/11/2012	18.0	9.80	10.64	6.34	42
Long Pond (MDI)	ACLONG	6/11/2012	19.0	9.68	10.67	6.34	42

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Long Pond (MDI)	ACLONG	6/11/2012	20.0	9.58	10.67	6.33	42
Long Pond (MDI)	ACLONG	6/11/2012	21.0	9.53	10.66	6.33	42
Long Pond (MDI)	ACLONG	6/11/2012	22.1	9.45	10.67	6.33	42
Long Pond (MDI)	ACLONG	6/11/2012	24.1	9.36	10.61	6.32	42
Long Pond (MDI)	ACLONG	6/11/2012	25.0	9.33	10.59	6.31	42
Long Pond (MDI)	ACLONG	6/11/2012	26.0	9.29	10.56	6.31	42
Long Pond (MDI)	ACLONG	6/11/2012	27.0	9.24	10.45	6.30	44
Long Pond (MDI)	ACLONG	6/11/2012	28.0	9.20	10.37	6.29	42
Long Pond (MDI)	ACLONG	6/11/2012	29.0	9.16	10.39	6.29	42
Long Pond (MDI)	ACLONG	6/11/2012	30.0	9.13	10.31	6.27	43
Long Pond (MDI)	ACLONG	7/30/2012	0.0	23.30	8.41	6.71	44
Long Pond (MDI)	ACLONG	7/30/2012	1.0	22.99	8.46	6.73	43
Long Pond (MDI)	ACLONG	7/30/2012	2.0	22.91	8.46	6.76	43
Long Pond (MDI)	ACLONG	7/30/2012	3.0	22.70	8.45	6.76	44
Long Pond (MDI)	ACLONG	7/30/2012	4.0	22.65	8.43	6.76	43
Long Pond (MDI)	ACLONG	7/30/2012	5.0	22.61	8.41	6.76	43
Long Pond (MDI)	ACLONG	7/30/2012	6.0	22.56	8.39	6.74	43
Long Pond (MDI)	ACLONG	7/30/2012	7.0	22.48	8.38	6.72	43
Long Pond (MDI)	ACLONG	7/30/2012	8.0	19.52	8.01	6.27	43
Long Pond (MDI)	ACLONG	7/30/2012	9.0	17.21	8.08	6.09	40
Long Pond (MDI)	ACLONG	7/30/2012	10.0	15.69	8.32	5.97	43
Long Pond (MDI)	ACLONG	7/30/2012	11.0	14.76	8.50	5.87	43
Long Pond (MDI)	ACLONG	7/30/2012	12.0	13.99	8.68	5.85	43
Long Pond (MDI)	ACLONG	7/30/2012	13.0	12.82	8.69	5.83	43
Long Pond (MDI)	ACLONG	7/30/2012	14.0	11.71	9.22	5.88	43
Long Pond (MDI)	ACLONG	7/30/2012	15.0	10.94	9.49	5.91	43
Long Pond (MDI)	ACLONG	7/30/2012	16.0	10.68	9.58	5.91	43
Long Pond (MDI)	ACLONG	7/30/2012	17.0	10.49	9.53	5.92	43
Long Pond (MDI)	ACLONG	7/30/2012	18.0	10.33	9.53	5.90	43
Long Pond (MDI)	ACLONG	7/30/2012	19.0	10.17	9.60	5.91	43
Long Pond (MDI)	ACLONG	7/30/2012	20.0	10.02	9.54	5.90	43
Long Pond (MDI)	ACLONG	7/30/2012	21.0	9.93	9.49	5.88	43
Long Pond (MDI)	ACLONG	7/30/2012	22.0	9.80	9.48	5.88	43
Long Pond (MDI)	ACLONG	7/30/2012	23.0	9.73	9.53	5.88	43
Long Pond (MDI)	ACLONG	7/30/2012	24.0	9.67	9.51	5.87	43
Long Pond (MDI)	ACLONG	7/30/2012	25.0	9.61	9.42	5.87	43
Long Pond (MDI)	ACLONG	7/30/2012	26.0	9.55	9.32	5.85	43
Long Pond (MDI)	ACLONG	7/30/2012	27.0	9.52	9.28	5.85	40
Long Pond (MDI)	ACLONG	7/30/2012	28.0	9.48	9.14	5.84	43
Long Pond (MDI)	ACLONG	7/30/2012	29.0	9.46	9.10	5.82	43
Long Pond (MDI)	ACLONG	7/30/2012	30.0	9.45	9.00	5.82	43
Long Pond (MDI)	ACLONG	8/22/2012	0.0	24.37	8.55	6.94	44
Long Pond (MDI)	ACLONG	8/22/2012	1.0	24.33	8.55	6.96	44
Long Pond (MDI)	ACLONG	8/22/2012	2.0	24.04	8.56	6.98	44
Long Pond (MDI)	ACLONG	8/22/2012	3.0	23.68	8.57	6.96	44
Long Pond (MDI)	ACLONG	8/22/2012	4.0	23.47	8.49	6.90	44
Long Pond (MDI)	ACLONG	8/22/2012	5.0	22.80	8.19	6.64	44
Long Pond (MDI)	ACLONG	8/22/2012	6.1	22.30	8.06	6.53	44
Long Pond (MDI)	ACLONG	8/22/2012	7.0	21.91	7.88	6.41	44
Long Pond (MDI)	ACLONG	8/22/2012	8.0	20.71	7.53	6.24	44
Long Pond (MDI)	ACLONG	8/22/2012	9.1	18.90	7.30	6.10	44
Long Pond (MDI)	ACLONG	8/22/2012	10.1	17.04	7.31	6.00	43
Long Pond (MDI)	ACLONG	8/22/2012	11.0	15.02	7.67	5.97	43
Long Pond (MDI)	ACLONG	8/22/2012	12.0	13.84	7.94	5.96	43

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Long Pond (MDI)	ACLONG	8/22/2012	13.0	13.11	8.12	5.95	43
Long Pond (MDI)	ACLONG	8/22/2012	14.0	12.56	8.17	5.90	43
Long Pond (MDI)	ACLONG	8/22/2012	15.0	12.12	8.36	5.85	43
Long Pond (MDI)	ACLONG	8/22/2012	16.0	11.70	8.59	5.79	43
Long Pond (MDI)	ACLONG	8/22/2012	17.0	11.25	8.72	5.73	43
Long Pond (MDI)	ACLONG	8/22/2012	18.0	11.02	8.75	5.66	43
Long Pond (MDI)	ACLONG	8/22/2012	19.0	10.68	8.82	5.64	43
Long Pond (MDI)	ACLONG	8/22/2012	20.0	10.44	8.92	5.63	43
Long Pond (MDI)	ACLONG	8/22/2012	21.1	10.21	9.03	5.64	43
Long Pond (MDI)	ACLONG	8/22/2012	22.0	10.04	9.10	5.65	43
Long Pond (MDI)	ACLONG	8/22/2012	23.0	9.86	9.05	5.64	43
Long Pond (MDI)	ACLONG	8/22/2012	24.0	9.74	8.88	5.63	43
Long Pond (MDI)	ACLONG	8/22/2012	25.0	9.73	8.86	5.63	43
Long Pond (MDI)	ACLONG	8/22/2012	26.1	9.67	8.76	5.62	43
Long Pond (MDI)	ACLONG	8/22/2012	27.0	9.64	8.68	5.62	43
Long Pond (MDI)	ACLONG	8/22/2012	28.0	9.59	8.51	5.62	43
Long Pond (MDI)	ACLONG	8/22/2012	29.1	9.56	8.47	5.62	43
Long Pond (MDI)	ACLONG	8/22/2012	30.1	9.54	8.40	5.61	43
Long Pond (MDI)	ACLONG	9/24/2012	0.0	19.05	9.11	7.27	43
Long Pond (MDI)	ACLONG	9/24/2012	1.0	19.04	9.01	6.98	43
Long Pond (MDI)	ACLONG	9/24/2012	2.0	18.97	9.01	6.90	43
Long Pond (MDI)	ACLONG	9/24/2012	3.0	18.94	9.00	6.85	43
Long Pond (MDI)	ACLONG	9/24/2012	4.0	18.92	8.96	6.83	44
Long Pond (MDI)	ACLONG	9/24/2012	5.0	18.91	8.94	6.81	43
Long Pond (MDI)	ACLONG	9/24/2012	6.0	18.90	8.95	6.78	43
Long Pond (MDI)	ACLONG	9/24/2012	7.0	18.89	8.92	6.77	43
Long Pond (MDI)	ACLONG	9/24/2012	8.0	18.88	8.91	6.75	43
Long Pond (MDI)	ACLONG	9/24/2012	9.0	18.88	8.92	6.74	43
Long Pond (MDI)	ACLONG	9/24/2012	10.0	18.84	8.89	6.71	44
Long Pond (MDI)	ACLONG	9/24/2012	11.0	18.66	8.79	6.65	43
Long Pond (MDI)	ACLONG	9/24/2012	12.0	17.55	8.08	6.36	43
Long Pond (MDI)	ACLONG	9/24/2012	13.0	16.00	7.24	6.12	43
Long Pond (MDI)	ACLONG	9/24/2012	14.0	13.92	6.95	5.98	43
Long Pond (MDI)	ACLONG	9/24/2012	15.0	12.62	7.26	5.94	43
Long Pond (MDI)	ACLONG	9/24/2012	16.0	11.44	7.69	5.92	43
Long Pond (MDI)	ACLONG	9/24/2012	17.0	10.61	7.99	5.91	43
Long Pond (MDI)	ACLONG	9/24/2012	18.0	10.16	8.10	5.84	43
Long Pond (MDI)	ACLONG	9/24/2012	19.0	10.02	8.13	5.81	43
Long Pond (MDI)	ACLONG	9/24/2012	20.0	9.99	7.94	5.78	43
Long Pond (MDI)	ACLONG	9/24/2012	21.0	9.85	7.86	5.76	43
Long Pond (MDI)	ACLONG	9/24/2012	22.0	9.78	7.77	5.74	43
Long Pond (MDI)	ACLONG	9/24/2012	23.0	9.69	7.58	5.72	43
Long Pond (MDI)	ACLONG	9/24/2012	24.0	9.63	7.46	5.72	43
Long Pond (MDI)	ACLONG	9/24/2012	25.0	9.60	7.33	5.70	43
Long Pond (MDI)	ACLONG	9/24/2012	26.0	9.55	7.16	5.69	43
Long Pond (MDI)	ACLONG	9/24/2012	27.0	9.52	7.03	5.68	44
Long Pond (MDI)	ACLONG	9/24/2012	28.0	9.50	6.92	5.68	44
Long Pond (MDI)	ACLONG	9/24/2012	29.0	9.49	6.79	5.67	44
Long Pond (MDI)	ACLONG	9/24/2012	30.0	9.49	6.62	5.67	44
Long Pond (MDI)	ACLONG	10/24/2012	0.0	13.82	9.88	6.45	41
Long Pond (MDI)	ACLONG	10/24/2012	1.0	13.79	9.87	6.47	43
Long Pond (MDI)	ACLONG	10/24/2012	2.0	13.72	9.87	6.48	42
Long Pond (MDI)	ACLONG	10/24/2012	3.1	13.65	9.86	6.49	41
Long Pond (MDI)	ACLONG	10/24/2012	4.0	13.62	9.84	6.49	43

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Long Pond (MDI)	ACLONG	10/24/2012	5.0	13.61	9.84	6.49	43
Long Pond (MDI)	ACLONG	10/24/2012	6.0	13.61	9.84	6.50	43
Long Pond (MDI)	ACLONG	10/24/2012	7.0	13.61	9.86	6.50	43
Long Pond (MDI)	ACLONG	10/24/2012	8.0	13.61	9.86	6.50	42
Long Pond (MDI)	ACLONG	10/24/2012	9.0	13.60	9.85	6.50	43
Long Pond (MDI)	ACLONG	10/24/2012	10.0	13.55	9.84	6.51	43
Long Pond (MDI)	ACLONG	10/24/2012	11.0	13.54	9.84	6.51	43
Long Pond (MDI)	ACLONG	10/24/2012	12.0	13.51	9.85	6.52	43
Long Pond (MDI)	ACLONG	10/24/2012	13.0	13.50	9.88	6.52	41
Long Pond (MDI)	ACLONG	10/24/2012	14.0	13.49	9.86	6.52	42
Long Pond (MDI)	ACLONG	10/24/2012	15.0	13.48	9.88	6.52	43
Long Pond (MDI)	ACLONG	10/24/2012	16.0	13.46	9.88	6.52	43
Long Pond (MDI)	ACLONG	10/24/2012	17.0	13.44	9.90	6.52	43
Long Pond (MDI)	ACLONG	10/24/2012	18.1	13.42	9.91	6.53	43
Long Pond (MDI)	ACLONG	10/24/2012	19.0	13.35	9.91	6.53	43
Long Pond (MDI)	ACLONG	10/24/2012	20.1	11.90	8.20	6.12	43
Long Pond (MDI)	ACLONG	10/24/2012	21.1	10.46	7.44	5.94	43
Long Pond (MDI)	ACLONG	10/24/2012	22.0	10.12	7.05	5.87	42
Long Pond (MDI)	ACLONG	10/24/2012	23.0	9.91	6.94	5.83	43
Long Pond (MDI)	ACLONG	10/24/2012	24.1	9.82	6.86	5.82	43
Long Pond (MDI)	ACLONG	10/24/2012	25.1	9.73	6.66	5.80	44
Long Pond (MDI)	ACLONG	10/24/2012	26.1	9.64	6.30	5.78	44
Long Pond (MDI)	ACLONG	10/24/2012	27.0	9.59	6.00	5.75	44
Long Pond (MDI)	ACLONG	10/24/2012	28.0	9.55	5.79	5.73	44
Long Pond (MDI)	ACLONG	10/24/2012	29.0	9.52	5.58	5.71	44
Long Pond (MDI)	ACLONG	10/24/2012	30.1	9.47	5.28	5.69	44
Lower Breakneck Pond	ACLBRK	6/6/2012	0.0	15.72	9.22	6.22	30
Lower Breakneck Pond	ACLBRK	6/6/2012	1.0	14.62	9.25	6.19	30
Lower Breakneck Pond	ACLBRK	6/6/2012	2.0	13.44	8.56	6.07	30
Lower Breakneck Pond	ACLBRK	6/6/2012	3.0	13.22	8.43	6.06	30
Lower Breakneck Pond	ACLBRK	6/6/2012	4.0	11.57	7.16	5.85	31
Lower Breakneck Pond	ACLBRK	6/6/2012	5.0	10.65	3.28	5.71	34
Lower Breakneck Pond	ACLBRK	6/6/2012	6.0	10.00	0.58	5.76	37
Lower Breakneck Pond	ACLBRK	6/6/2012	6.1	9.93	0.16	5.88	40
Lower Breakneck Pond	ACLBRK	7/24/2012	0.0	24.79	7.45	6.59	31
Lower Breakneck Pond	ACLBRK	7/24/2012	1.0	24.08	7.44	6.58	31
Lower Breakneck Pond	ACLBRK	7/24/2012	2.0	23.50	7.37	6.51	31
Lower Breakneck Pond	ACLBRK	7/24/2012	3.0	19.78	8.99	6.10	30
Lower Breakneck Pond	ACLBRK	7/24/2012	4.0	14.96	8.79	6.04	32
Lower Breakneck Pond	ACLBRK	7/24/2012	5.0	12.34	2.08	5.58	33
Lower Breakneck Pond	ACLBRK	7/24/2012	6.0	10.83	0.58	6.00	58
Lower Breakneck Pond	ACLBRK	7/24/2012	6.1	10.59	0.35	6.00	77
Lower Breakneck Pond	ACLBRK	8/21/2012	0.0	23.44	7.44	6.14	29
Lower Breakneck Pond	ACLBRK	8/21/2012	1.0	23.44	7.37	6.14	29
Lower Breakneck Pond	ACLBRK	8/21/2012	2.0	23.02	6.93	5.92	29
Lower Breakneck Pond	ACLBRK	8/21/2012	3.0	21.58	5.22	5.47	28
Lower Breakneck Pond	ACLBRK	8/21/2012	4.0	17.82	8.47	5.83	32
Lower Breakneck Pond	ACLBRK	8/21/2012	5.0	13.96	2.93	5.53	34
Lower Breakneck Pond	ACLBRK	8/21/2012	6.0	11.31	0.56	5.96	86
Lower Breakneck Pond	ACLBRK	8/21/2012	6.2	11.07	0.20	6.08	108
Lower Breakneck Pond	ACLBRK	9/26/2012	0.0	17.15	8.62	6.10	28
Lower Breakneck Pond	ACLBRK	9/26/2012	1.0	17.19	8.30	6.13	28
Lower Breakneck Pond	ACLBRK	9/26/2012	2.0	17.19	8.24	6.16	28
Lower Breakneck Pond	ACLBRK	9/26/2012	3.0	17.18	8.21	6.18	28

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Lower Breakneck Pond	ACLBK	9/26/2012	4.0	17.17	8.16	6.20	28
Lower Breakneck Pond	ACLBK	9/26/2012	5.0	16.49	1.99	5.83	34
Lower Breakneck Pond	ACLBK	9/26/2012	6.0	13.08	0.65	6.00	82
Lower Breakneck Pond	ACLBK	9/26/2012	6.2	12.86	0.16	6.04	88
Lower Breakneck Pond	ACLBK	10/29/2012	0.0	11.19	9.04	5.85	30
Lower Breakneck Pond	ACLBK	10/29/2012	1.0	11.17	8.93	5.87	32
Lower Breakneck Pond	ACLBK	10/29/2012	2.0	10.92	8.10	5.79	30
Lower Breakneck Pond	ACLBK	10/29/2012	3.0	10.62	7.89	5.79	30
Lower Breakneck Pond	ACLBK	10/29/2012	4.0	10.47	7.73	5.76	30
Lower Breakneck Pond	ACLBK	10/29/2012	5.0	10.35	7.29	5.73	32
Lower Breakneck Pond	ACLBK	10/29/2012	6.0	10.30	6.74	5.71	30
Seal Cove Pond	ACSEAL	6/19/2012	0.0	19.18	9.17	6.81	44
Seal Cove Pond	ACSEAL	6/19/2012	1.0	19.19	9.17	6.76	44
Seal Cove Pond	ACSEAL	6/19/2012	2.0	19.18	9.18	6.75	44
Seal Cove Pond	ACSEAL	6/19/2012	3.0	19.16	9.18	6.75	44
Seal Cove Pond	ACSEAL	6/19/2012	4.0	19.05	9.18	6.74	44
Seal Cove Pond	ACSEAL	6/19/2012	5.0	18.84	9.12	6.70	44
Seal Cove Pond	ACSEAL	6/19/2012	6.0	16.92	8.18	6.33	44
Seal Cove Pond	ACSEAL	6/19/2012	7.0	16.21	8.00	6.25	44
Seal Cove Pond	ACSEAL	6/19/2012	8.0	15.30	7.49	6.13	42
Seal Cove Pond	ACSEAL	6/19/2012	9.0	14.30	7.08	6.04	44
Seal Cove Pond	ACSEAL	6/19/2012	10.0	13.55	6.25	5.94	44
Seal Cove Pond	ACSEAL	6/19/2012	11.0	13.20	5.74	5.89	44
Seal Cove Pond	ACSEAL	6/19/2012	12.0	13.09	5.58	5.87	44
Seal Cove Pond	ACSEAL	6/19/2012	13.0	12.71	4.61	5.79	45
Seal Cove Pond	ACSEAL	6/19/2012	13.4	12.62	0.79	5.97	56
Seal Cove Pond	ACSEAL	7/30/2012	0.0	24.23	8.22	6.72	46
Seal Cove Pond	ACSEAL	7/30/2012	1.0	24.23	8.21	6.75	46
Seal Cove Pond	ACSEAL	7/30/2012	2.0	24.14	8.23	6.77	46
Seal Cove Pond	ACSEAL	7/30/2012	3.0	23.70	8.20	6.75	47
Seal Cove Pond	ACSEAL	7/30/2012	4.1	23.45	8.14	6.70	46
Seal Cove Pond	ACSEAL	7/30/2012	5.0	22.93	7.76	6.56	46
Seal Cove Pond	ACSEAL	7/30/2012	6.0	20.06	4.48	5.90	46
Seal Cove Pond	ACSEAL	7/30/2012	7.0	17.28	3.53	5.76	45
Seal Cove Pond	ACSEAL	7/30/2012	8.0	15.91	3.33	5.72	45
Seal Cove Pond	ACSEAL	7/30/2012	9.0	14.82	2.77	5.68	46
Seal Cove Pond	ACSEAL	7/30/2012	10.0	13.97	2.16	5.67	46
Seal Cove Pond	ACSEAL	7/30/2012	11.0	13.72	1.74	5.68	48
Seal Cove Pond	ACSEAL	7/30/2012	12.0	13.56	1.34	5.71	47
Seal Cove Pond	ACSEAL	7/30/2012	13.0	13.45	1.18	5.71	48
Seal Cove Pond	ACSEAL	7/30/2012	13.5	13.33	0.73	5.86	51
Seal Cove Pond	ACSEAL	8/29/2012	0.0	23.93	7.87	6.64	46
Seal Cove Pond	ACSEAL	8/29/2012	1.0	23.89	7.85	6.63	46
Seal Cove Pond	ACSEAL	8/29/2012	2.1	23.78	7.84	6.62	46
Seal Cove Pond	ACSEAL	8/29/2012	3.1	23.57	7.84	6.61	46
Seal Cove Pond	ACSEAL	8/29/2012	4.0	23.44	7.92	6.62	46
Seal Cove Pond	ACSEAL	8/29/2012	5.0	23.43	7.92	6.62	46
Seal Cove Pond	ACSEAL	8/29/2012	6.1	23.25	7.78	6.57	46
Seal Cove Pond	ACSEAL	8/29/2012	7.0	21.20	2.85	5.98	48
Seal Cove Pond	ACSEAL	8/29/2012	8.0	17.66	0.60	5.77	49
Seal Cove Pond	ACSEAL	8/29/2012	9.0	14.73	0.16	5.77	49
Seal Cove Pond	ACSEAL	8/29/2012	10.0	14.23	0.10	5.84	51
Seal Cove Pond	ACSEAL	8/29/2012	11.0	14.01	0.10	5.83	51
Seal Cove Pond	ACSEAL	8/29/2012	12.0	13.83	0.10	5.89	56

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Seal Cove Pond	ACSEAL	8/29/2012	13.0	13.67	0.09	5.97	60
Seal Cove Pond	ACSEAL	8/29/2012	13.9	13.54	0.06	6.24	72
Seal Cove Pond	ACSEAL	9/24/2012	0.0	19.36	8.84	6.81	45
Seal Cove Pond	ACSEAL	9/24/2012	1.0	19.28	8.82	6.76	45
Seal Cove Pond	ACSEAL	9/24/2012	2.0	18.74	8.85	6.74	45
Seal Cove Pond	ACSEAL	9/24/2012	3.0	18.63	8.78	6.71	45
Seal Cove Pond	ACSEAL	9/24/2012	4.0	18.56	8.74	6.70	45
Seal Cove Pond	ACSEAL	9/24/2012	5.0	18.53	8.70	6.68	45
Seal Cove Pond	ACSEAL	9/24/2012	6.0	18.50	8.68	6.66	45
Seal Cove Pond	ACSEAL	9/24/2012	7.0	18.47	8.58	6.64	45
Seal Cove Pond	ACSEAL	9/24/2012	8.0	18.38	8.38	6.57	45
Seal Cove Pond	ACSEAL	9/24/2012	9.0	18.25	8.19	6.50	45
Seal Cove Pond	ACSEAL	9/24/2012	10.1	18.16	7.99	6.44	45
Seal Cove Pond	ACSEAL	9/24/2012	11.0	16.71	4.30	6.10	48
Seal Cove Pond	ACSEAL	9/24/2012	12.0	13.92	0.69	6.31	65
Seal Cove Pond	ACSEAL	9/24/2012	12.8	13.64	0.15	6.31	76
Seal Cove Pond	ACSEAL	10/25/2012	0.0	13.00	10.00	6.70	44
Seal Cove Pond	ACSEAL	10/25/2012	1.0	12.99	9.98	6.68	44
Seal Cove Pond	ACSEAL	10/25/2012	2.0	12.96	9.97	6.67	44
Seal Cove Pond	ACSEAL	10/25/2012	3.0	12.85	10.00	6.66	44
Seal Cove Pond	ACSEAL	10/25/2012	4.0	12.74	9.98	6.64	44
Seal Cove Pond	ACSEAL	10/25/2012	5.0	12.71	9.98	6.63	44
Seal Cove Pond	ACSEAL	10/25/2012	6.0	12.68	9.97	6.63	44
Seal Cove Pond	ACSEAL	10/25/2012	7.0	12.64	9.97	6.63	44
Seal Cove Pond	ACSEAL	10/25/2012	8.1	12.60	9.95	6.62	44
Seal Cove Pond	ACSEAL	10/25/2012	9.0	12.57	9.95	6.61	43
Seal Cove Pond	ACSEAL	10/25/2012	10.1	12.56	9.95	6.61	44
Seal Cove Pond	ACSEAL	10/25/2012	11.1	12.54	9.95	6.60	44
Seal Cove Pond	ACSEAL	10/25/2012	12.1	12.52	9.95	6.60	44
Seal Cove Pond	ACSEAL	10/25/2012	13.1	12.47	9.93	6.59	44
Seal Cove Pond	ACSEAL	10/25/2012	14.0	12.37	9.85	6.57	44
Seal Cove Pond	ACSEAL	10/25/2012	14.3	12.39	2.44	6.46	43
Upper Hadlock Pond	ACUHAD	6/12/2012	0.0	19.42	9.36	6.33	35
Upper Hadlock Pond	ACUHAD	6/12/2012	1.0	19.29	9.41	6.32	34
Upper Hadlock Pond	ACUHAD	6/12/2012	2.0	18.10	9.60	6.26	34
Upper Hadlock Pond	ACUHAD	6/12/2012	3.0	16.35	9.76	6.21	34
Upper Hadlock Pond	ACUHAD	6/12/2012	4.0	13.13	9.57	5.99	33
Upper Hadlock Pond	ACUHAD	6/12/2012	5.0	11.47	8.75	5.74	34
Upper Hadlock Pond	ACUHAD	6/12/2012	6.0	10.49	8.19	5.62	36
Upper Hadlock Pond	ACUHAD	6/12/2012	7.0	9.83	8.22	5.62	36
Upper Hadlock Pond	ACUHAD	6/12/2012	8.0	9.44	7.84	5.58	36
Upper Hadlock Pond	ACUHAD	6/12/2012	9.0	9.33	7.45	5.56	36
Upper Hadlock Pond	ACUHAD	6/12/2012	10.0	9.31	7.30	5.56	36
Upper Hadlock Pond	ACUHAD	7/23/2012	0.0	24.43	7.96	6.54	36
Upper Hadlock Pond	ACUHAD	7/23/2012	1.0	24.44	7.93	6.51	36
Upper Hadlock Pond	ACUHAD	7/23/2012	2.1	24.08	7.87	6.46	36
Upper Hadlock Pond	ACUHAD	7/23/2012	3.0	23.45	7.82	6.30	36
Upper Hadlock Pond	ACUHAD	7/23/2012	4.0	17.46	6.56	5.68	32
Upper Hadlock Pond	ACUHAD	7/23/2012	5.0	14.04	4.26	5.51	36
Upper Hadlock Pond	ACUHAD	7/23/2012	6.0	11.87	4.61	5.48	37
Upper Hadlock Pond	ACUHAD	7/23/2012	7.0	10.56	4.48	5.44	37
Upper Hadlock Pond	ACUHAD	7/23/2012	8.0	9.85	3.92	5.39	37
Upper Hadlock Pond	ACUHAD	7/23/2012	9.0	9.66	3.63	5.40	38
Upper Hadlock Pond	ACUHAD	7/23/2012	10.0	9.53	3.42	5.39	38

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Upper Hadlock Pond	ACUHAD	7/23/2012	11.1	9.51	3.31	5.39	38
Upper Hadlock Pond	ACUHAD	8/23/2012	0.0	24.12	8.16	6.41	36
Upper Hadlock Pond	ACUHAD	8/23/2012	1.0	23.63	8.16	6.43	36
Upper Hadlock Pond	ACUHAD	8/23/2012	2.0	23.46	8.05	6.39	36
Upper Hadlock Pond	ACUHAD	8/23/2012	3.0	23.08	7.67	6.27	36
Upper Hadlock Pond	ACUHAD	8/23/2012	4.0	21.25	6.56	5.83	33
Upper Hadlock Pond	ACUHAD	8/23/2012	5.0	16.90	2.87	5.56	37
Upper Hadlock Pond	ACUHAD	8/23/2012	6.0	13.31	2.62	5.47	38
Upper Hadlock Pond	ACUHAD	8/23/2012	7.0	11.24	2.45	5.44	38
Upper Hadlock Pond	ACUHAD	8/23/2012	8.0	10.26	1.72	5.45	39
Upper Hadlock Pond	ACUHAD	8/23/2012	9.0	9.84	1.03	5.47	39
Upper Hadlock Pond	ACUHAD	8/23/2012	10.1	9.67	0.87	5.46	40
Upper Hadlock Pond	ACUHAD	8/23/2012	11.0	9.60	0.72	5.43	41
Upper Hadlock Pond	ACUHAD	8/23/2012	11.8	9.56	0.57	5.36	40
Upper Hadlock Pond	ACUHAD	9/18/2012	0.0	18.63	8.87	6.34	36
Upper Hadlock Pond	ACUHAD	9/18/2012	1.1	18.32	8.79	6.35	36
Upper Hadlock Pond	ACUHAD	9/18/2012	2.0	18.26	8.78	6.36	36
Upper Hadlock Pond	ACUHAD	9/18/2012	3.0	18.17	8.68	6.35	36
Upper Hadlock Pond	ACUHAD	9/18/2012	4.0	18.12	8.65	6.36	36
Upper Hadlock Pond	ACUHAD	9/18/2012	5.0	17.91	8.22	6.26	36
Upper Hadlock Pond	ACUHAD	9/18/2012	6.0	16.98	6.56	5.99	37
Upper Hadlock Pond	ACUHAD	9/18/2012	7.0	11.85	0.81	5.58	40
Upper Hadlock Pond	ACUHAD	9/18/2012	8.0	10.59	0.23	5.64	41
Upper Hadlock Pond	ACUHAD	9/18/2012	9.0	9.99	0.15	5.70	44
Upper Hadlock Pond	ACUHAD	9/18/2012	10.0	9.76	0.12	5.74	46
Upper Hadlock Pond	ACUHAD	9/18/2012	11.0	9.64	0.13	5.77	47
Upper Hadlock Pond	ACUHAD	9/18/2012	11.6	9.63	0.09	5.76	48
Upper Hadlock Pond	ACUHAD	10/17/2012	0.0	11.65	10.02	6.28	36
Upper Hadlock Pond	ACUHAD	10/17/2012	1.0	11.63	9.91	6.28	36
Upper Hadlock Pond	ACUHAD	10/17/2012	2.0	11.59	9.88	6.27	36
Upper Hadlock Pond	ACUHAD	10/17/2012	3.0	11.58	9.86	6.26	36
Upper Hadlock Pond	ACUHAD	10/17/2012	4.0	11.56	9.86	6.26	36
Upper Hadlock Pond	ACUHAD	10/17/2012	5.0	11.56	9.87	6.25	36
Upper Hadlock Pond	ACUHAD	10/17/2012	6.0	11.55	9.87	6.25	36
Upper Hadlock Pond	ACUHAD	10/17/2012	7.1	11.55	9.86	6.24	36
Upper Hadlock Pond	ACUHAD	10/17/2012	8.0	11.52	9.85	6.24	36
Upper Hadlock Pond	ACUHAD	10/17/2012	9.0	11.50	9.84	6.23	36
Upper Hadlock Pond	ACUHAD	10/17/2012	10.0	11.48	9.83	6.23	36
Upper Hadlock Pond	ACUHAD	10/17/2012	11.0	11.43	9.83	6.22	36
Upper Hadlock Pond	ACUHAD	10/17/2012	12.0	11.37	8.40	6.21	36
Upper Hadlock Pond	ACUHAD	10/17/2012	12.2	11.35	1.27	6.16	37
Witch Hole Pond	ACWHOL	6/18/2012	0.0	20.72	8.42	6.28	25
Witch Hole Pond	ACWHOL	6/18/2012	1.0	20.67	8.36	6.28	25
Witch Hole Pond	ACWHOL	6/18/2012	2.0	20.30	8.23	6.21	25
Witch Hole Pond	ACWHOL	6/18/2012	3.0	16.28	7.98	5.94	25
Witch Hole Pond	ACWHOL	6/18/2012	4.0	14.86	6.92	5.79	25
Witch Hole Pond	ACWHOL	6/18/2012	5.0	13.04	5.67	5.61	26
Witch Hole Pond	ACWHOL	6/18/2012	6.0	11.08	3.11	5.52	27
Witch Hole Pond	ACWHOL	6/18/2012	7.0	10.66	2.59	5.52	27
Witch Hole Pond	ACWHOL	6/18/2012	8.0	10.51	2.31	5.52	28
Witch Hole Pond	ACWHOL	6/18/2012	9.0	10.37	1.85	5.54	28
Witch Hole Pond	ACWHOL	6/18/2012	10.0	10.33	1.40	5.57	28
Witch Hole Pond	ACWHOL	6/18/2012	10.7	10.17	0.24	5.80	33
Witch Hole Pond	ACWHOL	7/24/2012	0.0	24.13	7.63	6.34	25

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A2. YSI sonde in-situ lake water quality measurements collected at ACAD (continued).

Site	NETN Code	Date	Depth (m)	Temp (C)	DO (mg/L)	pH	Specific Conductance (µS/cm)
Witch Hole Pond	ACWHOL	7/24/2012	1.0	23.36	7.70	6.36	25
Witch Hole Pond	ACWHOL	7/24/2012	2.0	23.18	7.66	6.34	25
Witch Hole Pond	ACWHOL	7/24/2012	3.0	22.24	6.88	6.09	25
Witch Hole Pond	ACWHOL	7/24/2012	4.0	15.90	2.06	5.50	27
Witch Hole Pond	ACWHOL	7/24/2012	5.0	13.05	0.72	5.43	27
Witch Hole Pond	ACWHOL	7/24/2012	6.0	11.47	0.34	5.56	30
Witch Hole Pond	ACWHOL	7/24/2012	7.0	10.81	0.32	5.62	33
Witch Hole Pond	ACWHOL	7/24/2012	8.0	10.63	0.24	5.59	35
Witch Hole Pond	ACWHOL	7/24/2012	9.0	10.54	0.18	5.67	37
Witch Hole Pond	ACWHOL	7/24/2012	10.0	10.45	0.17	5.74	39
Witch Hole Pond	ACWHOL	7/24/2012	10.4	10.36	0.12	5.95	57
Witch Hole Pond	ACWHOL	8/21/2012	0.0	24.65	7.64	6.03	25
Witch Hole Pond	ACWHOL	8/21/2012	1.0	23.72	7.32	5.89	25
Witch Hole Pond	ACWHOL	8/21/2012	2.0	23.07	5.08	5.57	25
Witch Hole Pond	ACWHOL	8/21/2012	2.9	21.85	1.13	5.24	25
Witch Hole Pond	ACWHOL	8/21/2012	4.0	18.35	0.40	5.37	28
Witch Hole Pond	ACWHOL	8/21/2012	5.0	14.26	0.17	5.43	29
Witch Hole Pond	ACWHOL	8/21/2012	6.0	12.02	0.15	5.55	34
Witch Hole Pond	ACWHOL	8/21/2012	7.0	11.11	0.14	5.68	37
Witch Hole Pond	ACWHOL	8/21/2012	8.0	10.80	0.13	5.74	38
Witch Hole Pond	ACWHOL	8/21/2012	9.0	10.66	0.11	5.78	39
Witch Hole Pond	ACWHOL	8/21/2012	9.3	10.54	0.11	5.87	61
Witch Hole Pond	ACWHOL	9/27/2012	0.0	17.28	8.92	6.37	24
Witch Hole Pond	ACWHOL	9/27/2012	1.0	17.20	8.79	6.27	24
Witch Hole Pond	ACWHOL	9/27/2012	2.0	16.87	8.62	6.21	24
Witch Hole Pond	ACWHOL	9/27/2012	3.0	16.70	8.52	6.17	24
Witch Hole Pond	ACWHOL	9/27/2012	4.0	16.69	8.50	6.15	24
Witch Hole Pond	ACWHOL	9/27/2012	5.0	16.58	8.44	6.13	24
Witch Hole Pond	ACWHOL	9/27/2012	6.0	15.63	4.01	5.72	26
Witch Hole Pond	ACWHOL	9/27/2012	7.0	11.29	0.65	5.93	42
Witch Hole Pond	ACWHOL	9/27/2012	8.0	10.95	0.23	5.97	43
Witch Hole Pond	ACWHOL	9/27/2012	9.0	10.75	0.12	6.00	44
Witch Hole Pond	ACWHOL	9/27/2012	9.7	10.73	0.09	6.01	45
Witch Hole Pond	ACWHOL	10/24/2012	0.0	11.98	9.55	5.81	24
Witch Hole Pond	ACWHOL	10/24/2012	1.0	11.91	9.07	5.76	24
Witch Hole Pond	ACWHOL	10/24/2012	2.0	11.89	8.88	5.74	24
Witch Hole Pond	ACWHOL	10/24/2012	3.0	11.83	8.88	5.72	24
Witch Hole Pond	ACWHOL	10/24/2012	4.0	11.76	8.67	5.68	24
Witch Hole Pond	ACWHOL	10/24/2012	5.0	11.70	8.88	5.70	24
Witch Hole Pond	ACWHOL	10/24/2012	6.0	11.68	8.97	5.72	24
Witch Hole Pond	ACWHOL	10/24/2012	7.0	11.64	8.93	5.70	24
Witch Hole Pond	ACWHOL	10/24/2012	8.0	11.65	9.07	5.70	24
Witch Hole Pond	ACWHOL	10/24/2012	9.0	11.63	8.98	5.70	24
Witch Hole Pond	ACWHOL	10/24/2012	10.0	11.57	9.16	5.73	24
Witch Hole Pond	ACWHOL	10/24/2012	10.4	11.52	8.59	5.70	25

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A3. Laboratory nutrient chemistry data for ACAD. “<MRL” indicates the result was below the method reporting limit (0.1 for TN, 1.0 for NO₃, 0.005 for NO₂, 0.08 for NH₃, and 1.0 for Chl a). *Missing values indicate data are unavailable.*

Site Type	Site	Date	ANC (µeq/L)	Apparent Color (PCU)	DOC (mg/L)	TP (µg/L)	TN (mg/L)	NO ₃ (µeq/L)	NO ₃ - N [calc.] (mg/L)	NO ₂ (mg/L)	NH ₃ (mg/L)	Chl a (µg/L)	CI (µeq/L)	SO ₄ (µeq/L)
Lake	Aunt Bettys Pond	6/18/2012	109.00	50	6.76	8.3	0.313	<MRL	<MRL	<MRL	<MRL	1.9	196	23
Lake	Aunt Bettys Pond	8/30/2012	371.00	71	8.03	9.6	0.506	1.1	0.016	<MRL	<MRL	2	213	27
Lake	Bear Brook Pond	6/14/2012	165.00	66	3.35	17	0.293	<MRL	<MRL	<MRL	<MRL	5.9	152	33
Lake	Bear Brook Pond	8/27/2012	208.00	67	4.14	8.9	0.305	<MRL	<MRL	<MRL	<MRL	2.5	122	24
Lake	Bubble Pond	6/19/2012	69.10	18	2.5	3.8	0.113	<MRL	<MRL	<MRL	<MRL	2.6	110	47
Lake	Bubble Pond	8/30/2012	79.80	16	2.65	4.1	0.232	<MRL	<MRL	<MRL	<MRL	1.9	101	47
Lake	Eagle Lake	6/18/2012	59.60	10	1.99	1.9	<MRL	<MRL	<MRL	<MRL	<MRL	<MRL	149	46
Lake	Eagle Lake	8/21/2012	65.30	9	2.05	2.3	0.111	<MRL	<MRL	<MRL	<MRL	<MRL	146	45
Lake	Echo Lake	6/11/2012	93.30	19	2.99	4.6	0.131	<MRL	<MRL	<MRL	<MRL	1.4	345	61
Lake	Echo Lake	8/28/2012	104.00	17	3.02	4.1	0.148	<MRL	<MRL	<MRL	<MRL	2.1	344	59
Lake	Jordan Pond	6/7/2012	68.30	9	1.7	3.8	0.109	1.5	0.021	<MRL	<MRL	<MRL	123	52
Lake	Jordan Pond	8/20/2012	73.80	9	2	2.6	0.108	<MRL	<MRL	<MRL	<MRL	1.2	120	51
Lake	Long Pond (MDI)	6/11/2012	52.40	22	3.07	3	0.128	<MRL	<MRL	<MRL	<MRL	2.4	208	58
Lake	Long Pond (MDI)	8/22/2012	69.50	18	3.17	2.9	0.176	<MRL	<MRL	<MRL	<MRL	2.7	207	56
Lake	Lower Breakneck Pond	6/6/2012	77.70	44	5	8.3	0.281	<MRL	<MRL	<MRL	<MRL	1.8	133	26
Lake	Lower Breakneck Pond	8/21/2012	112.00	37	5.53	7.7	0.33	<MRL	<MRL	<MRL	<MRL	1.8	99	17
Lake	Seal Cove Pond	6/19/2012	71.90	30	4.57	6.8	0.216	<MRL	<MRL	<MRL	<MRL	2.5	215	55
Lake	Seal Cove Pond	8/29/2012	87.60	24	4.55	3.9	0.264	<MRL	<MRL	<MRL	<MRL	2.2	211	51
Lake	Upper Hadlock Pond	6/12/2012	63.50	50	4.83	8.1	0.177	<MRL	<MRL	<MRL	<MRL	2.6	165	49
Lake	Upper Hadlock Pond	8/23/2012	71.40	33	4.97	4.5	0.23	<MRL	<MRL	<MRL	<MRL	2.6	151	44
Lake	Witch Hole Pond	6/18/2012	67.50	44	4.62	12	0.292	<MRL	<MRL	<MRL	<MRL	3.4	105	23
Lake	Witch Hole Pond	8/21/2012	66.80	45	4.83	8.4	0.329	<MRL	<MRL	<MRL	<MRL	2.1	94	18
Stream	Aunt Bettys Pond Inlet	5/9/2012	55.40	52	5.29	6.6	0.182	<MRL	<MRL	<MRL	<MRL		74	29
Stream	Aunt Bettys Pond Inlet	8/6/2012	221.00	86	7.23	20	0.456	<MRL	<MRL	<MRL	<MRL		106	25
Stream	Breakneck Brook	5/7/2012	110.00	27	2.75	5.3	0.11	<MRL	<MRL	<MRL	<MRL		141	37
Stream	Breakneck Brook	8/13/2012	349.00	31	3.13	6	0.294	7.3	0.103	<MRL	<MRL		128	23
Stream	Cadillac Brook	5/14/2012	44.20	6	1.48	1.2	<MRL	<MRL	<MRL	<MRL	<MRL		77	55
Stream	Cadillac Brook	8/8/2012	134.00	3	0.86	2.1	<MRL	<MRL	<MRL	<MRL	<MRL		101	26
Stream	Hadlock Brook	5/7/2012	27.70	12	2.16	1.8	<MRL	3.3	0.047	<MRL	<MRL		133	59
Stream	Hadlock Brook	8/6/2012	83.00	11	1.98	2.3	0.114	2.6	0.037	<MRL	<MRL		130	72
Stream	Heath Brook	5/29/2012	38.10	156	12.6	9.2	0.406	<MRL	<MRL	<MRL	<MRL		158	23
Stream	Heath Brook	8/14/2012	77.90	206	16.8	15	0.642	<MRL	<MRL	<MRL	<MRL		187	8.4
Stream	Hunters Brook	5/3/2012	78.70	13	1.84	1.6	<MRL	<MRL	<MRL	<MRL	<MRL		161	70
Stream	Hunters Brook	8/8/2012	208.00	12	1.42	2.6	0.111	4.5	0.063	<MRL	<MRL		176	76
Stream	Jordan Stream	5/8/2012	69.10	8	1.5	8.9	<MRL	1.8	0.025	<MRL	<MRL		131	54
Stream	Jordan Stream	8/1/2012	68.70	9	1.74	2.4	0.105	<MRL	<MRL	<MRL	<MRL		120	51

Appendix A. Acadia National (ACAD) Water Monitoring Data, 2012 (continued).

Table A3. Laboratory nutrient chemistry data for ACAD (continued). “<MRL” indicates the result was below the method reporting limit (0.1 for TN, 1.0 for NO₃, 0.005 for NO₂, 0.08 for NH₃, and 1.0 for Chl a). *Missing values indicate data are unavailable*

Site Type	Site	Date	ANC (µeq/L)	Apparent Color (PCU)	DOC (mg/L)	TP (µg/L)	TN (mg/L)	NO ₃ (µeq/L)	NO ₃ - N [calc.] (mg/L)	NO ₂ (mg/L)	NH ₃ (mg/L)	Chl a (µg/L)	Cl (µeq/L)	SO ₄ (µeq/L)
Stream	Kebo Brook	5/17/2012	47.10	5	1.12	1.3	<MRL	<MRL	<MRL	<MRL	<MRL		75	48
Stream	Kebo Brook	8/9/2012	246.00	7	0.52	3.3	<MRL	2.2	0.031	<MRL	<MRL		111	49
Stream	Marshall Brook	5/30/2012	35.30	98	8.39	8.4	0.402	9.2	0.130	<MRL	<MRL		474	94
Stream	Marshall Brook	8/2/2012	388.00	129	11.5	15	0.494	4.9	0.069	<MRL	<MRL		602	109
Stream	Otter Creek	5/3/2012	52.00	10	1.35	1.1	<MRL	<MRL	<MRL	<MRL	<MRL		126	50
Stream	Otter Creek	8/7/2012	199.00	22	1.83	4.9	0.128	1.9	0.027	<MRL	<MRL		138	37
Stream	Sargent Brook	5/9/2012	5.40	33	3.45	2.8	0.117	<MRL	<MRL	<MRL	<MRL		105	49
Stream	Sargent Brook	8/6/2012	81.90	20	3.11	6.6	0.219	1.2	0.017	<MRL	<MRL		118	18
Stream	Stanley Brook	5/2/2012	129.00	45	3.93	5	0.248	10	0.141	<MRL	<MRL		378	82
Stream	Stanley Brook	8/13/2012	268.00	33	2.95	5.8	0.274	13	0.183	<MRL	<MRL		377	91

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A4. Stream stage and discharge data for ACAD. *Missing values indicate data are unavailable.*

Site	Date	Tapedown from datum (ft)	Total CS area (sqft)	Average Velocity (ft/s)	Discharge (cfs)
Aunt Bettys Pond Inlet	5/9/2012	1.73	16.45	1.07	17.70
Aunt Bettys Pond Inlet	6/26/2012	1.75	12.98	0.97	13.96
Aunt Bettys Pond Inlet	7/11/2012	2.67	1.60	0.14	0.23
Aunt Bettys Pond Inlet	8/6/2012	2.72	0.52	0.32	0.16
Aunt Bettys Pond Inlet	9/6/2012	2.36	7.07	0.20	1.43
Aunt Bettys Pond Inlet	10/4/2012	2.48	5.83	0.21	1.20
Breakneck Brook	5/7/2012	0.31	2.98	0.74	2.19
Breakneck Brook	6/21/2012	0.56	1.35	0.20	0.27
Breakneck Brook	7/9/2012	0.55	0.81	0.48	0.39
Breakneck Brook	8/13/2012	0.63	1.18	0.12	0.15
Breakneck Brook	9/11/2012	0.47	1.53	0.43	0.65
Breakneck Brook	10/9/2012	0.25	3.48	0.65	2.26
Cadillac Brook	5/14/2012	1.31			0.09
Cadillac Brook	6/29/2012	1.33			0.55
Cadillac Brook	7/17/2012	1.27			0.49
Cadillac Brook	8/8/2012	0.30			0.00
Cadillac Brook	9/4/2012	1.27			0.00
Cadillac Brook	10/11/2012	0.49			2.70
Hadlock Brook	5/7/2012	3.81			0.30
Hadlock Brook	6/21/2012	3.75			0.05
Hadlock Brook	7/10/2012	3.73			0.08
Hadlock Brook	8/6/2012	0.51			0.02
Hadlock Brook	9/5/2012	0.95			5.80
Hadlock Brook	10/5/2012	3.81			0.30
Heath Brook	5/29/2012	2.59	1.88	0.60	1.13
Heath Brook	6/25/2012	1.84	2.88	1.33	0.83
Heath Brook	7/10/2012	2.77	1.37	0.52	0.22
Heath Brook	8/14/2012	2.73	1.55	0.13	0.21
Heath Brook	9/13/2012	1.77	1.68	0.22	0.37
Heath Brook	10/1/2012	2.49	2.81	1.15	3.23
Hunters Brook	5/3/2012	0.53	4.09	0.75	3.05
Hunters Brook	6/22/2012	0.73	2.87	0.30	0.87
Hunters Brook	7/9/2012	0.28	2.51	0.40	1.00
Hunters Brook	8/8/2012	0.34	2.02	0.20	0.40
Hunters Brook	9/18/2012	0.30	2.17	2.65	0.57
Hunters Brook	10/9/2012	0.14	4.17	0.48	2.00
Jordan Stream	5/8/2012	1.02	4.79	0.75	3.61
Jordan Stream	6/28/2012	0.68	8.33	1.56	12.97
Jordan Stream	7/16/2012	1.21	2.55	0.09	0.22

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A4. Stream stage and discharge data for ACAD (continued). *Missing values indicate data are unavailable.*

Site	Date	Tapedown from datum (ft)	Total CS area (sqft)	Average Velocity (f/s)	Discharge (cfs)
Jordan Stream	8/1/2012	1.19	2.54	0.12	0.31
Jordan Stream	9/17/2012	1.19	1.00	0.65	0.66
Jordan Stream	10/3/2012	0.76	8.55	1.12	9.54
Kebo Brook	5/17/2012	2.19	5.90	0.84	4.96
Kebo Brook	6/20/2012	2.50	1.83	0.16	0.30
Kebo Brook	7/5/2012	2.45	2.76	0.23	0.63
Kebo Brook	8/9/2012	2.59	0.71	0.12	0.09
Kebo Brook	9/10/2012	2.53	2.57	0.15	0.38
Kebo Brook	10/1/2012	2.12	6.82	1.06	7.20
Marshall Brook	5/30/2012	1.09			
Marshall Brook	6/27/2012	0.72	8.05	1.09	8.81
Marshall Brook	7/17/2012	1.32	4.23	0.25	1.06
Marshall Brook	8/2/2012	1.29	4.24	0.37	1.61
Marshall Brook	9/13/2012	0.43	3.33	0.18	0.59
Marshall Brook	10/1/2012	0.68	9.97	1.23	12.27
Otter Creek	5/3/2012	2.03			3.80
Otter Creek	6/29/2012	1.66			0.80
Otter Creek	7/12/2012	1.63			0.65
Otter Creek	8/7/2012	1.55			0.28
Otter Creek	9/4/2012	1.55			0.23
Otter Creek	10/10/2012	1.85			2.00
Sargent Brook	5/9/2012	0.84	3.42	1.16	3.98
Sargent Brook	6/26/2012	0.67	5.45	1.07	5.94
Sargent Brook	7/12/2012	0.33	0.42	0.04	0.02
Sargent Brook	8/6/2012	0.42	0.66	0.00	0.00
Sargent Brook	9/6/2012	1.54	2.20	0.34	0.74
Sargent Brook	10/4/2012	0.21	1.40	0.21	0.29
Stanley Brook	5/2/2012	0.25	5.27	0.58	3.07
Stanley Brook	6/13/2012	0.30	3.77	0.67	2.53
Stanley Brook	7/3/2012	0.37	3.53	0.45	1.58
Stanley Brook	8/13/2012	0.52	2.68	0.24	0.64
Stanley Brook	9/12/2012	0.51	2.91	0.25	0.73
Stanley Brook	10/10/2012	0.37	3.53	0.50	1.76

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A5. Lake water transparency data for ACAD. “B” after transparency value indicates disk pattern still visible at pond bottom.

Site	Date	Secchi Depth (m)	B = disk hit bottom
Aunt Bettys Pond	6/18/2012	2.46	B
Aunt Bettys Pond	7/24/2012	2.44	
Aunt Bettys Pond	8/30/2012	0.61	B
Aunt Bettys Pond	9/27/2012	2.45	B
Aunt Bettys Pond	10/26/2012	2.34	B
Bear Brook Pond	6/14/2012	2.8	
Bear Brook Pond	7/25/2012	3.24	B
Bear Brook Pond	8/27/2012	2.77	B
Bear Brook Pond	9/28/2012	3.24	B
Bear Brook Pond	10/26/2012	3.02	B
Bubble Pond	4/30/2012	7.25	
Bubble Pond	6/19/2012	6.8	
Bubble Pond	7/26/2012	7.45	
Bubble Pond	8/30/2012	7.89	
Bubble Pond	9/21/2012	8.06	
Bubble Pond	10/25/2012	7.12	
Eagle Lake	6/18/2012	9.87	
Eagle Lake	7/23/2012	12.83	
Eagle Lake	8/21/2012	10.86	
Eagle Lake	9/21/2012	11.6	
Eagle Lake	10/17/2012	9.31	
Echo Lake	6/11/2012	7.58	
Echo Lake	7/19/2012	7.53	
Echo Lake	8/28/2012	7.38	
Echo Lake	9/20/2012	7.05	
Echo Lake	10/22/2012	6.41	
Jordan Pond	4/30/2012	15.16	
Jordan Pond	6/7/2012	14.12	
Jordan Pond	7/26/2012	13.2	
Jordan Pond	8/20/2012	13.41	
Jordan Pond	9/20/2012	13.39	
Jordan Pond	10/18/2012	11.83	
Long Pond (MDI)	6/11/2012	7.44	
Long Pond (MDI)	7/30/2012	9.13	
Long Pond (MDI)	8/22/2012	8.15	
Long Pond (MDI)	9/24/2012	9.63	
Long Pond (MDI)	10/24/2012	9.28	
Lower Breakneck Pond	6/6/2012	4.74	
Lower Breakneck Pond	7/24/2012	4.52	

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A5. Lake water transparency data for ACAD (continued). “B” after transparency value indicates disk pattern still visible at pond bottom.

Site	Date	Secchi Depth (m)	B = disk hit bottom
Lower Breakneck Pond	8/21/2012	4.65	
Lower Breakneck Pond	9/26/2012	5.14	
Lower Breakneck Pond	10/29/2012	3.93	
Seal Cove Pond	6/19/2012	6.02	
Seal Cove Pond	7/30/2012	3.6	
Seal Cove Pond	8/29/2012	6.9	
Seal Cove Pond	9/24/2012	6.48	
Seal Cove Pond	10/25/2012	6.8	
Upper Hadlock Pond	6/12/2012	4.92	
Upper Hadlock Pond	7/23/2012	6.05	
Upper Hadlock Pond	8/23/2012	5.36	
Upper Hadlock Pond	9/18/2012	6.51	
Upper Hadlock Pond	10/17/2012	4.87	
Witch Hole Pond	6/18/2012	4.09	
Witch Hole Pond	7/24/2012	4.03	
Witch Hole Pond	8/21/2012	3.31	
Witch Hole Pond	9/27/2012	4.73	
Witch Hole Pond	10/24/2012	4.34	

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A6. Light penetration profiles for ACAD.

Site	NETN Code	Date	Depth (m)	Deck cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	PAR cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	Proportion of penetration (PAR/Deck)
Aunt Bettys Pond	ACANTB	6/18/2012	0.10	553.65	503.51	0.91
Aunt Bettys Pond	ACANTB	6/18/2012	0.50	985.73	476.01	0.48
Aunt Bettys Pond	ACANTB	6/18/2012	1.00	2385.30	699.92	0.29
Aunt Bettys Pond	ACANTB	6/18/2012	2.00	2041.70	192.08	0.09
Aunt Bettys Pond	ACANTB	6/18/2012	2.25	674.17	42.80	0.06
Aunt Bettys Pond	ACANTB	7/24/2012	0.10	579.35	558.93	0.96
Aunt Bettys Pond	ACANTB	7/24/2012	0.50	587.63	260.31	0.44
Aunt Bettys Pond	ACANTB	7/24/2012	1.00	708.83	142.77	0.20
Aunt Bettys Pond	ACANTB	7/24/2012	2.00	645.21	23.46	0.04
Aunt Bettys Pond	ACANTB	7/24/2012	2.25	612.28	15.87	0.03
Aunt Bettys Pond	ACANTB	8/30/2012	0.10	1606.00	1231.10	0.77
Aunt Bettys Pond	ACANTB	8/30/2012	0.20	1589.30	1388.90	0.89
Aunt Bettys Pond	ACANTB	8/30/2012	0.50	1584.60	630.48	0.42
Bear Brook Pond	ACBRBK	6/14/2012	0.10	1904.50	1864.20	0.98
Bear Brook Pond	ACBRBK	6/14/2012	0.50	1798.50	978.56	0.54
Bear Brook Pond	ACBRBK	6/14/2012	1.00	1964.90	708.64	0.36
Bear Brook Pond	ACBRBK	6/14/2012	2.00	1912.40	266.16	0.14
Bear Brook Pond	ACBRBK	6/14/2012	2.50	2026.30	134.86	0.07
Bear Brook Pond	ACBRBK	7/25/2012	0.10	1863.10	1711.90	0.92
Bear Brook Pond	ACBRBK	7/25/2012	0.50	1849.70	851.48	0.46
Bear Brook Pond	ACBRBK	7/25/2012	1.00	1846.50	441.55	0.24
Bear Brook Pond	ACBRBK	7/25/2012	2.00	1832.40	153.77	0.08
Bear Brook Pond	ACBRBK	7/25/2012	3.00	1840.90	47.29	0.03
Bear Brook Pond	ACBRBK	8/27/2012	0.10	1671.40	1644.60	0.98
Bear Brook Pond	ACBRBK	8/27/2012	0.50	1733.00	912.51	0.53
Bear Brook Pond	ACBRBK	8/27/2012	1.00	1686.70	408.82	0.24
Bear Brook Pond	ACBRBK	8/27/2012	2.00	1697.00	151.89	0.09
Bear Brook Pond	ACBRBK	8/27/2012	3.00	1461.90	16.41	0.02
Jordan Pond	ACJORD	6/7/2012	0.10	622.80	621.02	1.00
Jordan Pond	ACJORD	6/7/2012	0.50	626.65	526.05	0.84
Jordan Pond	ACJORD	6/7/2012	1.00	625.66	402.52	0.64
Jordan Pond	ACJORD	6/7/2012	2.00	616.65	287.79	0.47
Jordan Pond	ACJORD	6/7/2012	3.00	611.16	196.12	0.32
Jordan Pond	ACJORD	6/7/2012	4.00	606.84	150.47	0.25
Jordan Pond	ACJORD	6/7/2012	5.00	590.92	111.47	0.19
Jordan Pond	ACJORD	6/7/2012	6.00	577.37	82.06	0.14
Jordan Pond	ACJORD	6/7/2012	7.00	557.61	59.08	0.11
Jordan Pond	ACJORD	6/7/2012	8.00	551.56	44.47	0.08
Jordan Pond	ACJORD	6/7/2012	9.00	548.41	33.50	0.06

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A6. Light penetration profiles for ACAD (continued).

Site	NETN Code	Date	Depth (m)	Deck cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	PAR cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	Proportion of penetration (PAR/Deck)
Jordan Pond	ACJORD	6/7/2012	10.00	540.93	25.78	0.05
Jordan Pond	ACJORD	6/7/2012	11.00	532.88	20.10	0.04
Jordan Pond	ACJORD	6/7/2012	12.00	517.22	15.41	0.03
Jordan Pond	ACJORD	6/7/2012	13.00	518.16	12.45	0.02
Jordan Pond	ACJORD	6/7/2012	14.00	527.42	10.27	0.02
Jordan Pond	ACJORD	6/7/2012	15.00	532.14	8.38	0.02
Jordan Pond	ACJORD	6/7/2012	16.00	551.44	7.13	0.01
Jordan Pond	ACJORD	6/7/2012	17.00	564.31	6.19	0.01
Jordan Pond	ACJORD	6/7/2012	18.00	574.79	5.24	0.01
Jordan Pond	ACJORD	6/7/2012	19.00	582.84	4.84	0.01
Jordan Pond	ACJORD	7/26/2012	0.10	822.41	772.92	0.94
Jordan Pond	ACJORD	7/26/2012	0.50	851.80	688.36	0.81
Jordan Pond	ACJORD	7/26/2012	1.00	950.61	602.49	0.63
Jordan Pond	ACJORD	7/26/2012	2.00	1147.70	461.13	0.40
Jordan Pond	ACJORD	7/26/2012	3.00	996.52	370.98	0.37
Jordan Pond	ACJORD	7/26/2012	4.00	979.81	302.12	0.31
Jordan Pond	ACJORD	7/26/2012	5.00	951.27	241.81	0.25
Jordan Pond	ACJORD	7/26/2012	6.00	903.47	183.22	0.20
Jordan Pond	ACJORD	7/26/2012	7.00	976.03	159.84	0.16
Jordan Pond	ACJORD	7/26/2012	8.00	954.46	122.07	0.13
Jordan Pond	ACJORD	7/26/2012	9.00	938.40	91.76	0.10
Jordan Pond	ACJORD	7/26/2012	10.00	979.01	75.40	0.08
Jordan Pond	ACJORD	7/26/2012	11.00	955.26	57.22	0.06
Jordan Pond	ACJORD	7/26/2012	12.00	1010.70	48.75	0.05
Jordan Pond	ACJORD	7/26/2012	13.00	1207.60	47.37	0.04
Jordan Pond	ACJORD	7/26/2012	14.00	1029.20	32.07	0.03
Jordan Pond	ACJORD	7/26/2012	15.00	1099.50	27.95	0.03
Jordan Pond	ACJORD	7/26/2012	16.00	1007.40	20.83	0.02
Jordan Pond	ACJORD	7/26/2012	17.00	965.85	16.30	0.02
Jordan Pond	ACJORD	7/26/2012	18.00	966.31	13.50	0.01
Jordan Pond	ACJORD	7/26/2012	19.00	835.13	10.47	0.02
Jordan Pond	ACJORD	7/26/2012	20.00	887.75	8.43	0.01
Jordan Pond	ACJORD	7/26/2012	21.00	858.51	6.70	0.01
Jordan Pond	ACJORD	8/20/2012	0.10	1429.50	1576.00	1.10
Jordan Pond	ACJORD	8/20/2012	1.00	1071.90	782.53	0.72
Jordan Pond	ACJORD	8/20/2012	2.00	1926.30	1029.60	0.53
Jordan Pond	ACJORD	8/20/2012	3.00	763.92	283.08	0.37
Jordan Pond	ACJORD	8/20/2012	4.00	733.33	273.08	0.37
Jordan Pond	ACJORD	8/20/2012	5.00	511.12	154.85	0.30
Jordan Pond	ACJORD	8/20/2012	6.00	575.08	144.72	0.25

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A6. Light penetration profiles for ACAD (continued).

Site	NETN Code	Date	Depth (m)	Deck cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	PAR cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	Proportion of penetration (PAR/Deck)
Jordan Pond	ACJORD	8/20/2012	7.00	1309.10	299.82	0.23
Jordan Pond	ACJORD	8/20/2012	8.00	1895.00	329.40	0.17
Jordan Pond	ACJORD	8/20/2012	9.00	1779.20	190.27	0.11
Jordan Pond	ACJORD	8/20/2012	10.00	1925.50	161.56	0.08
Jordan Pond	ACJORD	8/20/2012	11.00	689.93	46.21	0.07
Jordan Pond	ACJORD	8/20/2012	12.00	1970.50	101.86	0.05
Jordan Pond	ACJORD	8/20/2012	13.00	1524.10	62.73	0.04
Jordan Pond	ACJORD	8/20/2012	14.00	839.83	28.70	0.03
Jordan Pond	ACJORD	8/20/2012	15.00	1928.70	53.98	0.03
Jordan Pond	ACJORD	8/20/2012	16.00	1921.60	43.93	0.02
Jordan Pond	ACJORD	8/20/2012	17.00	1899.10	35.29	0.02
Jordan Pond	ACJORD	8/20/2012	18.00	1925.80	29.49	0.02
Jordan Pond	ACJORD	8/20/2012	19.00	888.93	10.89	0.01
Jordan Pond	ACJORD	8/20/2012	20.00	603.01	6.03	0.01
Jordan Pond	ACJORD	8/20/2012	21.00	795.79	6.82	0.01
Jordan Pond	ACJORD	9/20/2012	0.10	1616.40	1687.30	1.04
Jordan Pond	ACJORD	9/20/2012	0.50	1639.60	1543.40	0.94
Jordan Pond	ACJORD	9/20/2012	1.00	1716.00	1247.80	0.73
Jordan Pond	ACJORD	9/20/2012	2.00	1741.20	931.55	0.53
Jordan Pond	ACJORD	9/20/2012	3.00	1748.30	656.10	0.38
Jordan Pond	ACJORD	9/20/2012	4.00	1759.80	557.81	0.32
Jordan Pond	ACJORD	9/20/2012	5.00	1767.70	436.70	0.25
Jordan Pond	ACJORD	9/20/2012	6.00	1682.90	332.13	0.20
Jordan Pond	ACJORD	9/20/2012	7.00	1679.70	265.13	0.16
Jordan Pond	ACJORD	9/20/2012	8.00	1752.20	214.09	0.12
Jordan Pond	ACJORD	9/20/2012	9.00	1755.10	164.33	0.09
Jordan Pond	ACJORD	9/20/2012	10.00	1763.20	138.99	0.08
Jordan Pond	ACJORD	9/20/2012	11.00	1753.60	112.42	0.06
Jordan Pond	ACJORD	9/20/2012	12.00	1630.00	89.71	0.06
Jordan Pond	ACJORD	9/20/2012	13.00	1570.90	72.11	0.05
Jordan Pond	ACJORD	9/20/2012	14.00	1489.60	57.62	0.04
Jordan Pond	ACJORD	9/20/2012	15.00	1475.10	43.14	0.03
Jordan Pond	ACJORD	9/20/2012	16.00	1438.60	36.54	0.03
Jordan Pond	ACJORD	9/20/2012	17.00	1591.30	30.12	0.02
Jordan Pond	ACJORD	9/20/2012	18.00	1593.00	23.85	0.01
Jordan Pond	ACJORD	9/20/2012	19.00	1595.10	18.87	0.01
Jordan Pond	ACJORD	9/20/2012	20.00	1688.60	16.67	0.01
Jordan Pond	ACJORD	9/20/2012	21.00	1708.60	13.63	0.01
Jordan Pond	ACJORD	10/18/2012	0.10	1161.70	1338.50	1.15
Jordan Pond	ACJORD	10/18/2012	0.50	1210.80	1219.00	1.01

Appendix A. Acadia National Park (ACAD) Water Monitoring Data, 2012 (continued).

Table A6. Light penetration profiles for ACAD (continued).

Site	NETN Code	Date	Depth (m)	Deck cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	PAR cell ($\mu\text{mol s}^{-1} \text{m}^{-2}$)	Proportion of penetration (PAR/Deck)
Jordan Pond	ACJORD	10/18/2012	1.00	1249.10	1117.80	0.90
Jordan Pond	ACJORD	10/18/2012	2.00	1109.10	675.21	0.61
Jordan Pond	ACJORD	10/18/2012	3.00	1190.90	498.19	0.41
Jordan Pond	ACJORD	10/18/2012	4.00	1195.10	388.58	0.33
Jordan Pond	ACJORD	10/18/2012	5.00	1176.20	281.23	0.24
Jordan Pond	ACJORD	10/18/2012	6.00	1236.50	225.30	0.18
Jordan Pond	ACJORD	10/18/2012	7.00	1202.00	161.00	0.13
Jordan Pond	ACJORD	10/18/2012	8.00	1128.50	120.91	0.11
Jordan Pond	ACJORD	10/18/2012	9.00	1179.00	96.66	0.08
Jordan Pond	ACJORD	10/18/2012	10.00	1199.90	74.99	0.06
Jordan Pond	ACJORD	10/18/2012	11.00	1066.80	50.91	0.05
Jordan Pond	ACJORD	10/18/2012	12.00	1069.50	40.50	0.04
Jordan Pond	ACJORD	10/18/2012	13.00	1155.00	32.00	0.02
Jordan Pond	ACJORD	10/18/2012	14.00	1188.00	27.00	0.02
Jordan Pond	ACJORD	10/18/2012	15.00	1164.00	21.00	0.01
Jordan Pond	ACJORD	10/18/2012	16.00	1122.00	16.00	0.01
Jordan Pond	ACJORD	10/18/2012	17.00	1068.00	12.21	0.01
Jordan Pond	ACJORD	10/18/2012	18.00	1179.00	10.00	0.01
Jordan Pond	ACJORD	10/18/2012	19.00	1202.80	8.92	0.01

The Department of the Interior protects and manages the nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special responsibilities to American Indians, Alaska Natives, and affiliated Island Communities.

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National Park Service
U.S. Department of the Interior



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