

Arctic Great Rivers Observatory: Sample collection overview

Constituent	Arctic GRO II 2012-2016	Arctic GRO I Comprehensive 2009-2011	Arctic GRO I High Resolution 2009-2011	PARTNERS 2004-2007
Temperature	✓	✓		✓
pH	✓	✓		✓
TSS	✓	✓		✓
Water isotopes	$\delta^{18}\text{O}$, $\delta^2\text{H}$	$\delta^{18}\text{O}$, $\delta^2\text{H}$		$\delta^{18}\text{O}$, $\delta^2\text{H}$
Alkalinity	✓	✓		✓
Dissolved organic carbon	Concentration, ^{13}C , ^{14}C	Concentration, ^{13}C , ^{14}C	Concentration	Concentration, ^{13}C , ^{14}C
DOC, fractionation		HPOA, HPON, HPI, TPIA (percent and SUVA)		
Absorbance	Scans, 200-800 nm	Scans, 200-800 nm		SUVA, a375
Lignin phenols		S8, L8, C/V, S/V, (Ad/Al)V, (Ad/Al)S		
POC	Concentration, ^{13}C , ^{14}C	Concentration, ^{13}C , ^{14}C		Concentration, ^{13}C , ^{14}C
PON	Concentration, ^{15}N	Concentration, ^{15}N		Concentration, ^{15}N
Nutrients, dissolved inorganic	PO_4 , NO_3 , NH_4 , SiO_2	PO_4 , NO_3 , NH_4 , SiO_2	PO_4 , NO_3 , NH_4 , SiO_2	NO_3 , NH_4 , SiO_2
Nutrients, total dissolved	TDN, TDP	TDN, TDP		TDN, TDP
Anions	Cl, SO_4 , F	Cl, SO_4 , F		Cl, SO_4
Cations	Na, Ca, Mg, K	Na, Ca, Mg, K		Na, Ca, Mg, K
Trace Elements	As, Ba, Mn, Mo, Ni, Sb, Sr, U	As, Ba, Mn, Mo, Ni, Sb, Sr, U		As, Ba, Cd, Ce, Co, Cr, Cs, Cu, Fe, La, Li, Mn Mo, Nd, Ni, Pb, Pr, Rb, Re, Sr, Tl, U, V, Zn
Mercury	Total Hg			