

SUPPLEMENTARY MATERIAL

Details of sampling at the Bruce, Pickering and Darlington NPPs.

**TABLE 1S. BRUCE NPP (LAKE HURON)**

Sample Description	Northing	Easting	Depth	Dissolved Oxygen [mg/L]	pH	Conductivity [ $\mu$ S/cm]
BP Site D	44°20'39.76"N	81°34'36.45"W	Surface	10.04	8.44	213.31
BP Site D	44°20'39.76"N	81°34'36.45"W	1 m	10.17	8.49	213.43
BP Site D	44°20'39.76"N	81°34'36.45"W	1 m duplicate	10.2	8.51	213.46
BP Site D	44°20'39.76"N	81°34'36.45"W	2 m (Bottom-1m)	10.23	8.53	213.49
BP Site D	44°20'39.76"N	81°34'36.45"W	Field Blank			
BP Site H	44°18'59.87"N	81°36'41.05"W	Surface	9.64	8.46	197.5
BP Site H	44°18'59.87"N	81°36'41.05"W	1 m	9.82	8.35	197.17
BP Site H	44°18'59.87"N	81°36'41.05"W	2 m (Mid Depth)	9.85	8.35	193.1
BP Site H	44°18'59.87"N	81°36'41.05"W	4 m (Bottom-1m)	9.98	8.36	190.4
BP Ambient site (Stn 29)	44°22'00.00"N	81°50'00.00"W	Surface	9.6	8.09	222
Cooler blank						

**TABLE 2S. PICKERING NPP (LAKE ONTARIO)**

Sample Description	Northing	Easting	Depth, m	Dissolved Oxygen [mg/L]	pH	Conductivity [ $\mu$ S/cm]
Pickering A surface	43°48'28.08"N	79° 3'37.20"W	0.2	10.32	7.48	331
Pickering A 1 m from surface	43°48'28.08"N	79° 3'37.20"W	1.5	10.18	7.49	333
Pickering A 3 m from surface	43°48'28.08"N	79° 3'37.20"W	3.5	10.16	7.51	333
Pickering B surface	43°48'24.00"N	79° 3'35.82"W	0.12	9.97	7.53	332
Pickering C surface	43°48'18.36"N	79° 3'36.12"W	0.14	9	7.56	333
Pickering C surface duplicate	43°48'18.36"N	79° 3'36.12"W	0.14	9	7.56	333

Pickering D surface	43°48'12.96"N	79° 3'35.58"W	0.14	9.56	7.6	332
Pickering E surface	43°48'24.84"N	79° 3'28.20"W	0.04	9.82	7.65	335
Pickering F surface	43°48'26.94"N	79° 3'21.06"W	0.13	9.78	7.64	340
Pickering F 1 m from surface	43°48'26.94"N	79° 3'21.06"W	0.95	10.06	7.65	341
Pickering ambient surface	43°47'44.22"N	79° 4'16.08"W	0.06	9.56	7.66	332
Pickering ambient surface duplicate	43°47'44.22"N	79° 4'16.08"W	0.06	9.56	7.66	332
Cooler blank						

**TABLE 3S. DARLINGTON NPP (LAKE ONTARIO)**

Sample Description	Northing	Easting	Depth, m	Dissolved Oxygen [mg/L]	pH	Conductivity [µS/cm]
Darlington A surface	43°51'41.04"N	78°44'19.56"W	0.06	9.45	7.89	308
Darlington B surface	43°51'29.28"N	78°44'36.06"W	0.12	9.13	7.9	316
Darlington C surface	43°51'29.64"N	78°44'26.16"W	0.2	9.03	7.85	317
Darlington C surface duplicate	43°51'29.64"N	78°44'26.16"W	0.2	9.03	7.85	317
Darlington D surface	43°51'29.94"N	78°44'18.96"W	0.15	9.15	7.91	316
Darlington E surface	43°51'19.38"N	78°44'40.56"W	0.24	9.23	7.96	316
Darlington F surface	43°51'18.30"N	78°44'29.34"W	0.16	9.1	7.87	317
Darlington F surface duplicate	43°51'18.30"N	78°44'29.34"W	0.16	9.1	7.87	317
Darlington F 1 m from surface	43°51'18.30"N	78°44'29.34"W	0.91	9.24	7.89	317
Darlington F 6 m from surface	43°51'18.30"N	78°44'29.34"W	5.83	9.33	7.9	316

Darlington F 10 m from surface	43°51'18.30"N	78°44'29.34"W	9.28	9.3	7.92	316
Darlington G surface	43°51'18.90"N	78°44'19.38"W	0.1	9.17	7.97	315
Darlington G 1 m from surface	43°51'18.90"N	78°44'19.38"W	0.8	9.3	7.97	316
Darlington G 6 m from surface	43°51'18.90"N	78°44'19.38"W	5.76	9.37	7.98	316
Darlington G 12 m from surface	43°51'18.90"N	78°44'19.38"W	11.77	9.37	7.97	316
Darlington ambient sample	43°51'21.72"N	78°45'55.50"W	0.13	10.08	7.97	317
Cooler blank						