



Hackett River
Table 1. July 5, 6 & 7 2005 Surface Water Sampling and Flow Measurements

Weather: On July 5th - Cloudy and cold, no wind, July 6th - Clear skies and warm, light breeze, July 7th - Cloudy and cold, windy.

Date	Station Name	Easting*	Northing*	Electrical Conductivity (uS/cm @ 25°C)	Temperature (°C)	pH	Flow (L/s)	Comments
July 5th	Upper Sunkun Lake	620,455	7,312,469	79.6	9.3	8.16	-	Accessed sample location by foot from camp. Visible outflow from Upper Sunkun Lake was gauged (see Sunkun Lake Outflow #1). Sample from west shore <1/2 way from inlet. No direct flow link to Lower Sunkun Lake. Outlet from Camp Lake not visible although groundwater flow is likely.
July 5th	Sunkun Lake Outflow #1	620,735	7,312,304	68.8	10.2	7.47	22.2	Accessed sample location by foot from camp. Sample location 30 m downstream from Upper Sunkun Lake (near east shore). Flow measurements were made using the area-velocity method. Riverbed consisted of large gravel-sized sediment (4 cm).
July 5th	Sunkun Lake Outflow #2	620,955	7,312,017	68	9.4	7.07	23.2	Accessed sample location by foot from camp. Outflow from Lower Sunkun Lake was not visible. Sampling was located 20 m downstream of where the outflow of Lower Sunkun Lake would likely meet (during freshet) the outflow from Upper Sunkun Lake. Flow measurements were made using the area-velocity method. Riverbed was primarily bedrock.
July 6th	Mara River d/s	613,610	7,319,444	12.6	10	6.90	-	Accessed site by helicopter. Sampled the east shore 50 m downstream from a riffle/rapid area. Too strong to get flow measurement, approximately 30 m wide.
July 6th	Mara River u/s	613,488	7,319,102	12.8	10.1	6.85	-	Accessed site by helicopter. Sample location below rapids area, upstream of drainage input from project area. Ripples/rapids followed by slower deeper pools. Too strong to wade to get flow measurement, approximately 34 m wide. Fair bit of flow.
July 6th	Mara Inflow #1	613,554	7,319,221	53	7.4	6.86	-	Accessed site by helicopter. Sample location 10 m upstream from confluence with Mara River. Flow is too slow/shallow to make flow measurements. Most sections of the stream is dry.
July 6th	Mara Inflow #2	612,869	7,317,957	62.3	11.1	6.88	3.95	Accessed site by helicopter. Sample taken 30 m upstream from confluence with Mara River. Stream has very little flow, difficult to gauge. Flow measurements were made using float-area method. Riverbed consisted of boulder-sized sediments (> 25 cm).
July 6th	Turtle Outflow	612,395	7,314,775	117.2	9.8	7.17	40.2	Accessed site by helicopter. Sample location was 50 m downstream from Turtle Lake. Flow measurements were made using the velocity-area method. Riverbed consisted of boulder-sized sediments (> 25 cm).
July 6th	Anne Lake	612,756	7,313,633	111.6	11.4	7.07	-	Accessed site by helicopter. Sample location was on the north side - middle of lake.
July 6th	Cleaver Lake	614,828	7,313,012	122.4	11.5	7.02	-	Visible. No visible surface flow outlet from Cleaver Lake.
July 6th	Boot Lake	616,425	7,312,805	157.4	9.6	6.63	-	Accessed site by helicopter. Sample location at narrows (west shore).
July 6th	Hood Lake Outflow	621,395	7,310,400	41.6	10.5	7.03	81.5	Accessed site by helicopter. Sample location was 100 m downstream from Hood Lake. Flow measurements were made using the area-velocity method. Riverbed consisted of sand and gravel-sized sediments (0.1 to 2 cm).
July 6th	Jo Lake Outflow	623,120	7,311,942	11.7	11.5	6.91	15.9	Accessed site by helicopter. Sample location was 100 m downstream of Jo Lake. Flow measurements were made using area-velocity method. Riverbed consisted of large gravel-sized sediments (5 cm).
July 6th	Cigar Lake	624,783	7,306,527	20.6	14.2	6.83	-	Accessed site by helicopter. Sample location was taken on the south side of the lake on the east side of the outlet. Intended for reference.
July 6th	Hackett River d/s	626,738	7,312,057	15.9	11.3	6.98	-	Accessed site by helicopter. Sample location was 40 m downstream from confluence of Camp Creek. Flow is quite slow (deep) in Hackett River at this location, looks like a lake.
July 6th	Camp Creek	626,682	7,312,043	29.3	13.2	6.8	594.9	Accessed site by helicopter. Sample location was on Camp Creek, 30 m upstream from confluence with Hackett River. Due to problems with the stream gauge, the float-area method was used to measure the flow in Camp Creek. Riverbed consisted of gravel-sized sediments (4 cm).
July 6th	Hackett River u/s	626,682	7,311,973	20.1	13.4	6.97	-	Accessed site by helicopter. Sample location was 25 m upstream from confluence of Camp Creek. Hackett River at this location is also slow moving and deep.
July 7th	Boot Lake Outflow	616,219	7,314,214	74.9	11	7.33	89.6	Accessed site by helicopter. Sample location was 100 m downstream from Boot Lake. Many boulders, difficult to measure flow with gauge. Flow measurements were made using float-area method. Riverbed consisted of boulder-sized sediments (> 25 cm).
July 7th	Banana Lake	620,063	7,315,529	55.1	10.4	6.84	-	Accessed by helicopter. Sample location was on east side of lake.
July 7th	Camp Lake	619,860	7,312,625	81.1	8.4	6.51	-	Accessed by foot from camp. Since there was no zodiac, sample location was at the southeast shore of Camp Lake only.

Notes: * UTM Zone 12, NAD83