NORTHERN RESEARCH BASINS QUESTIONNAIRE
WATER BALANCE STUDIES
March 12, 2004

1) Name and location of research watershed	Bayelva, Spitsbergen, Svalbard. 78^0 55'N, 11^0 56'E
2) Participants with address and email	Ånund Killingtveit - Department of Hydraulic and Environmental Engineering, Norwegian University of Science and Technology, NO-7491 Trondheim, Norway. E-mail aanund.killingtveit@ntnu.no Knut Sand – SWECO-Grøner AS, Box 331, NO-7403 Trondheim, Norway. Lars-Evan Pettersson – Norwegian Water Resources and Energy Directorate, Box 5091 Majorstua, NO-0301 Oslo, Norway
3) Watershed size	30.9 km^2
4) Permafrost extent	Continuous
5) Soils description	Moraines, riverbed, tundra, rock
6) Vegetation description	Uniform lichen cover with patches of Rock Sedge (carex rupestris) and Mountain avens (Dryas octopetela). There are no trees or tall shrubs. At higher elevations mostly gravel, stones and rock.
7) Climate	High Arctic, mean annual temperature -6.3 ^oC Average annual precipitation (measured) 403 mm/year
8) Topography	It consists of a flat river plain in the centre, on the west an east-facing slope towards the Schetelig mountain.There are steep tall mountains in southeast and southwest, the Zeppelin and the Schetelig mountains. Elevation ranges from 4 up to 742 m.a.s.l., average elevation is 265 m.a.s.l. 55% of the catchment is covered by glaciers
9) Period of record	Runoff from 1974-1978 and 1990-today Precipitation and climate from 1950 Sediment transport measured 1974-1978 and from 1989-today
10) Other	There is a permanent research station located in Ny Ålesund, and an airport with regular flights. Excellent conditions for field oriented research.