

Conclusion of water quality results

Lake Jaakonjärvi

- 136,5 msl
- Temp. 9°C
- Bright
- Clean
- pH 5,9
- Conduct. 80

Lake Vaulujärvi

- 131,9 msl
- Temp. 10°C
- Bright
- Clean
- pH 6,5
- Conduct. ??

Peat bog

- Ca. 135 msl
- Temp. 8°C
- Brown
- Suspicious
- pH 3,9
- Conduct. ??

Lake Levä-Soppinen

- 129,0 msl
- Temp. 7,5°C
- Yellowish green
- Clean
- pH 7,2
- Conduct. ??

Siirasoja stream

- 114,0 msl
- Temp. 7°C
- Yellowish, brownish
- Clean
- pH 6,2
- Conduct. ??

Observations:

- Each water body had signs of elevated water level. In Lake Jaakonjärvi the signs were strongest. This is in line with the fact that Lake Jaakonjärvi is located on highest altitude and therefore most dependent on short-time climate variation.
- The lower the lake altitude, the higher the pH value. This is in line with groundwater flow pattern and mineral concentrations.
- Lake Levä-Soppinen has yellowish green color indicating algae. This is in line with the high pH value.
- The very low pH in the bog might be explained with the peat layer. This is in line with brown color and suspicious water.
- Siirasoja stream has yellowish, a little bit brownish color indicating humus and probably iron, in turn water is lightly acidic. This is in line with the stream location: Ground was somewhat paludified and water level risen on shoreline vegetation. However, stream begins from groundwater springs.

Instructions for group working

- Topic: **“Climate change and water bodies – Case study: Rokuanvaara Hill in northern latitudes”**
- Prepare a presentation of this topic. Duration: ca. 5 min.
- You can create a power point slide show, a poster or a short video clip.
- You can handle the following themes (=what kind of changes they might experience?):
 - Water quality.
 - Water level (groundwater or surface water).
 - Water flow (in streams, rivers).
 - Ecological impacts.
 - Social impacts.
 - Opportunities to affect to the change.
 - Opportunities to adopt / to cope with the change.
- Use the information you have heard, studied and searched during this week.
- Use the great photos you have taken during the week!