

Research projects in and around the water protection areas of Veitur Utilities and ON Power

Knowledge is lacking in groundwater flows in the water protection area of Veitur Utilities and ON Power. It has been decided that research will be undertaken to better prepare for land use and water management decisions, as well as to ensure the quality of drinking water into the future.

Water protection for the Capital Area

- Increase in number of water level meters in monitoring holes in the vicinity of the capital area to better understand the effect of water extraction of groundwater water level and groundwater flow
- Annual revision of the groundwater model for the capital area
- Evaluation of water extraction wells in the lower water supply area of Heidmörk due to their exposure to microbial contamination and evaluation of possible repairs
- Collaboration with Hafnarfjörður Municipality on analysis to assess the effect of Veitur Utilities and the Kópavogur Municipalities water production of water resources in Hafnfjörður
- Modelling to understand the effects of landscape and soil layers on groundwater flow, surface water and water treatment
- Analysis of micro-organisms in surface water, soil and groundwater to better understand the relationship between microbial contamination and environmental factors
- Measuring weather factors along with temperature and humidity in the soil to better understand the context of weather and microbial contamination
- Research on microplastic in drinking water
- Making a new model to simulate the spread of pollution in groundwater during potential oil spills
- Further develop groundwater models to increase knowledge of groundwater flows and the effects on water resources
- The Icelandic Meteorological Office carried out an evaluation of the weather and soil temperature in response to the microbial contamination 2018

Water protection in the Hengill Area

- Increasing the number of water level meters in monitoring wells in the vicinity of the capital area to better understand the effect of water extraction on groundwater level and groundwater flow
- Annual upgrade of the groundwater model of the capital area. In the second half of 2016, reinjection began in boreholes in the CarbFix area, which is outside of the production area of the Hellisheidi Geothermal Power Plant