Studies on the groundwater environment in Choshi area (1)

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Groundwater contamination of nitrate nitrogen becomes a serious problem in the area which is active in agriculture and stockbreeding. Choshi area also suffers from the contamination problem because that area is also one of active areas of agriculture in Chiba prefecture. In order to grasp the situation of the nitrate nitrogen pollution on groundwater in Choshi area, the current research investigated the water qualities from 5 spots of the water wells and from 4 spots of spring in Choshi area from June 2014 to December 2015. Nitrate nitrogen concentration of 3 spots of spring water, which are extracted from the underside of a farmland, exceeded 10 mg/L⁻¹ of the groundwater quality standard value (the maximum was 30 mg/L⁻¹). On the other hand, in the well water from a spot near the TONE River, which is located far from a farmland, the nitrate nitrogen concentration was less than 4 mg/L⁻¹. This result suggested a possibility that some spring water was affected by nitrate nitrogen in leaching water from a farmland.

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