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Redox buffer capacities of water-mineral-microbe system related to long-term preservation of uranium deposit.

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Redox buffer capacities of sedimentary rocks preserving uranium deposit were studied at Tono uranium deposits area. The analysis of redox reactions in the water-mineral-microbe system suggests that the reduction of sulphate ion by Sulphate reducing bacteria is dominant reaction to maintain strongly reducing environment at the depths of uranium mineralization in the sedimentary rocks.