|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Variable influence on process** | | | **Process influence on variables** | | |
| **Influence present? (Yes/No Description)** | **Time period/Climate domain** | **Handling of influence (How/If not - Why)** | **Influence present? (Yes/No Description)** | **Time period/Climate domain** | **Handling of influence (How/If not - Why)** |
| Temperature in bedrock | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater flow | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | No | Excavation/operation | — |
| Temperate | See Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater pressure | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Gas phase flow | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Repository geometry | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Fracture geometry | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | No | Excavation/operation | — |
| Temperate | See Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Rock stresses | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Matrix minerals | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Fracture minerals | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. |
| Temperate | See Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate | Influence neglected; little significance. See also Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater composition | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. |
| Temperate | See Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate | See Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Gas composition | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Structural and stray materials | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | No | Excavation/operation | — |
| Temperate | Influence neglected; little significance. See also Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Saturation | Yes | Excavation/operation | Process neglected; insignificant impact on geochemical conditions. | No | Excavation/operation | — |
| Temperate | Influence neglected; little significance. See also Section 6.1 Radionuclide transport and Montmorillonite colloid release in Buffer, backfill and closure process report. | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |