**Ecology Report**

**INFORMATION ON AIR POLLUTION IN UMP JSC LOCATION, QUARTER 4, 2022**

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| --- | --- |
| **Monitoring area** | **Average quarterly content of the pollutants in the lowest atmospheric layer** |
|
| **Beryllium (Ве)** | **Alpha-active aerosol (AAA) activity concentration** | **Hydrogen fluoride (HF)** | **Nitrogen dioxide (NO2)** |
| UMP JSC protection area border  | 0,0098 | % MPC | 63.6 | % MPC | 15 | % MPC | 32.0 | % MPC |
| Living area border | 0,0102 | % MPC | 66.7 | % MPC | 10 | % MPC | 35.0 | % MPC |
| Living area | 0,0089 | % MPC | 69.7 | % MPC | 15 | % MPC | 33.0 | % MPC |

**Note:**
MPC – maximum permissible concentration (MPC) of the pollutants in the air
PAC – permissible activity concentration of alpha-active aerosols in the air.

**INFORMATION ON ACTUAL EMISSIONS BY UMP JSC, QUARTER 4, 2022**

|  |  |  |
| --- | --- | --- |
| **Pollutant** | **State limit, tons** | **Actual emissions in quarter 4, 2022, tons** |
| Beryllium (Ве) | 0,029 | 0,0008 |
| Alpha-active aerosol (AAA) activity concentration | 4.57 GBq | 0.43 GBq |
| Hydrogen fluoride (HF) | 2.30 | 0.12 |
| Nitrogen dioxide (NO2) | 4.93 | 0.28 |