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**Re: Total Estimated CH4 emissions from Elk Creek Permit Area Abandoned Mine Project Colorado 2021-2050 with no action taken**

The table below shows the estimated total methane (CH4) that will be emitted by all abandoned mines that are part of the Elk Creek Permit Area Abandoned Mine Project from 2021 to 2050 in thousand standard cubic feet (Mscf) and thousand metric tons (MT) of CH4. Low, mid and high-case scenarios were forecasted, and the high-case is presented below.

Other unit conversion values used in the calculations are the standard density of CH4 = 0.0423 lb CH4/scf CH4 and 0.000454 mtCH4/lb CH4.

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| --- | --- | --- |
| **Year** | **Annual CH4 Emitted** | |
| **Mscf** | **MT** |
| 2021 | 3,368,232 | 64.68 |
| 2022 | 3,223,032 | 61.90 |
| 2023 | 3,095,181 | 59.44 |
| 2024 | 2,970,628 | 57.05 |
| 2025 | 2,857,408 | 54.87 |
| 2026 | 2,746,185 | 52.74 |
| 2027 | 2,652,258 | 50.93 |
| 2028 | 2,560,127 | 49.17 |
| 2029 | 2,469,790 | 47.43 |
| 2030 | 2,388,924 | 45.88 |
| 2031 | 2,309,544 | 44.35 |
| 2032 | 2,237,306 | 42.97 |
| 2033 | 2,169,921 | 41.67 |
| 2034 | 2,106,004 | 40.44 |
| 2035 | 2,046,063 | 39.29 |
| 2036 | 1,985,818 | 38.14 |
| 2037 | 1,929,653 | 37.06 |
| 2038 | 1,876,433 | 36.04 |
| 2039 | 1,825,227 | 35.05 |
| 2040 | 1,783,467 | 34.25 |
| 2041 | 1,734,051 | 33.30 |
| 2042 | 1,691,684 | 32.49 |
| 2043 | 1,649,822 | 31.68 |
| 2044 | 1,608,604 | 30.89 |
| 2045 | 1,572,508 | 30.20 |
| 2046 | 1,535,583 | 29.49 |
| 2047 | 1,500,392 | 28.81 |
| 2048 | 1,469,154 | 28.21 |
| 2049 | 1,434,803 | 27.55 |
| 2050 | 1,404,020 | 26.96 |
| **Total** | **64,201,823** | **1,233** |