

Parkdale Quarry Expansion Project

Exhibit K - Climate

The Parkdale Quarry is located approximately eight miles north-northwest of Canon City, Colorado, the climate of which is considered representative of the Parkdale site. Cañon City is known as the "Climate Capital of Colorado" despite its elevation of over 5,300 feet, due to the generally mild weather conditions in the area.

Climate in the Parkdale vicinity is mild and semi-arid falling into the Köppen Climate Classification subtype of "BSk". (Tropical and Subtropical Steppe Climate). This climate type occurs primarily on the periphery of the true deserts in low-latitude semiarid steppe regions. It is transitional to the tropical wet-dry climate on the equatorward side and to the Mediterranean climate on its poleward margin, with a cooler, wetter winter resulting from the higher latitude and mid-latitude frontal cyclone activity. Annual precipitation totals are greater than in tropical and subtropical desert climates. Yearly variations in climate are not as extreme as in the true deserts but are nevertheless large.

The average temperature for the year in Canon City is 54.0°Fahrenheit (F). The warmest month, on average, is July with an average temperature of 74.0°F. The coolest month on average is January, with an average temperature of 36.0°F. The highest recorded temperature in Canon City was 107.0°F, with July typically being the warmest month. The lowest recorded temperature in Canon City is -30.0°F, with February typically being the coldest month. In winter the average temperature is 38 degrees at Canon City and the average daily minimum temperature is 24 degrees. In summer, the average temperature is 73 degrees and the average daily maximum temperature is about 84 degrees.

The total annual average precipitation is about 13 inches at Canon City for the period of record. Of this, 65 percent usually falls in April through September. The usual growing season falls between April 28th and October 12th. The heaviest one-day rainfall during the period of record was 2.74 inches on May 18, 1955. Thunderstorms occur on about 60 days each year. Average seasonal snowfall is about 37 inches and the greatest recorded snow depth at any one time was 25 inches. In terms of liquid precipitation, there are an average of 32.2 days of rain, with the most rain generally occurring in May with an average of 4.5 days of rain, and the least rain occurring in January with an average of 1.5 days of rain. The month with the most snow is February, with an average of 7.0 inches of snow (17.8 cm). An inch of snow on the ground lasts for about two days before melting.

The average humidity at dawn is about 60%, 40% in mid-afternoon and higher at night. Average cloud coverage is about 20% during the summer and 25% during winter. The prevailing wind is from the north-northeast at an annual average speed of seven miles per hour. The wind is greatest during the spring at an average daytime speed of 12 miles per hour.

The following table is a summary of average climate information by month.

Month	Average Daytime Temperatures (Degrees Fahrenheit)	Average Wind Speed (Miles per hour)	Average Precipitation (Inches)	Average Humidity	Average Cloud Cover	Barometric Pressure	Average Dry Days	Average Precipitation Days	Average Snow Days	Average Fog Days	Average UV Index	Average Hours of Sun
January	49	7	0.5	61%	20%	30.6 in	23	4	7	1	2	218
February	50	7	0.8	62%	23%	30.5 in	18	5	8	1	2	193
March	57	8	0.8	49%	20%	30.5 in	20	8	4	0	3	287
April	64	8	1.1	44%	23%	30.4 in	15	12	2	0	4	335
May	73	8	1.7	44%	21%	30.4 in	13	14	1	0	5	358
June	83	8	1.8	38%	14%	30.4 in	12	14	0	0	6	359
July	89	7	2.7	44%	20%	30.5 in	5	21	0	0	6	365
August	86	7	2.4	44%	17%	30.5 in	7	19	0	0	6	365
September	79	7	1.3	43%	15%	30.5 in	14	11	0	0	5	323
October	68	7	0.8	45%	15%	30.5 in	22	5	2	0	3	243
November	57	7	0.5	48%	15%	30.5 in	24	4	4	0	2	213
December	48	7	0.4	59%	19%	30.6 in	23	4	6	1	2	214