

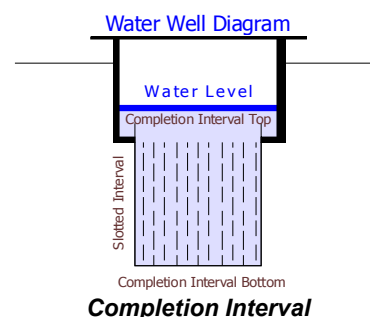
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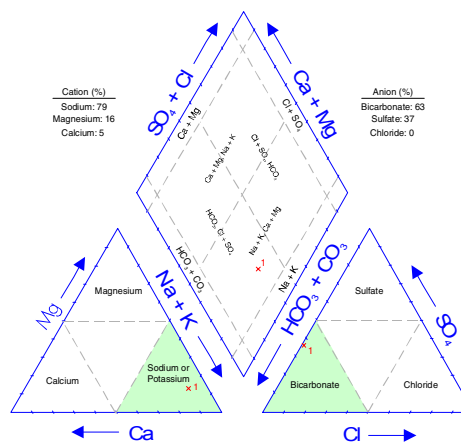
9 GLOSSARY

| | |
|------------------------|--|
| Anion | negatively charged ion |
| Aquifer | a formation, group of formations, or part of a formation that contains saturated permeable rocks capable of transmitting groundwater to water wells or springs in economical quantities |
| Aquitard | a confining bed that retards but does not prevent the flow of water to or from an adjacent aquifer |
| Available Drawdown | in a confined aquifer, the distance between the non-pumping water level and the top of the aquifer in an unconfined aquifer (water table aquifer), two thirds of the saturated thickness of the aquifer |
| Borehole | includes all “work types” except springs |
| Completion Interval | see diagram |
| Deltaic | a depositional environment in standing water near the mouth of a river |
| Dewatering | the removal of groundwater from an aquifer for purposes other than use |
| Dfb | one of the Köppen climate classifications; a Dfb climate consists of warm to cool summers, severe winters, and no dry season. The mean monthly temperature drops below -3° C in the coolest month, and exceeds 10° C in the warmest month. |
| Evapotranspiration | a combination of evaporation from open bodies of water, evaporation from soil surfaces, and transpiration from the soil by plants (Freeze and Cherry, 1979) |
| Facies | the aspect or character of the sediment within beds of one and the same age (Pettijohn, 1957) |
| Fluvial | produced by the action of a stream or river |
| Friable | poorly cemented |
| Hydraulic Conductivity | the rate of flow of water through a unit cross-section under a unit hydraulic gradient; units are length/time |
| km | kilometre |
| Kriging | a geo-statistical method for gridding irregularly-spaced data (Cressie, 1990) |
| Lacustrine | fine-grained sedimentary deposits associated with a lake environment and not including shore-line deposits |
| Lithology | description of rock material |
| Lsd | Legal Subdivision |
| m | metres |



| | |
|---------------------|--|
| mm | millimetres |
| m ² /day | metres squared per day |
| m ³ | cubic metres |
| m ³ /day | cubic metres per day |
| mg/L | milligrams per litre |
| Median | the value at the centre of an ordered range of numbers |
| Obs WW | Observation Water Well |

Piper tri-linear diagram a method that permits the major cation and anion compositions of single or multiple samples to be represented on a single graph. This presentation allows groupings or trends in the data to be identified. From the Piper tri-linear diagram, it can be seen that the groundwater from this sample water well is a sodium-bicarbonate-type. The chemical type has been determined by graphically calculating the dominant cation and anion. For a more detailed explanation, please refer to Freeze and Cherry, 1979



Piper Tri-Linear Diagram

| | |
|--------------------|--|
| Rock | earth material below the root zone |
| Surficial Deposits | includes all sediments above the bedrock |
| Thalweg | the line connecting the lowest points along a stream bed or valley; <i>longitudinal profile</i> |
| Till | a sediment deposited directly by a glacier that is unsorted and consisting of any grain size ranging from clay to boulders |
| Transmissivity | the rate at which water is transmitted through a unit width of an aquifer under a unit hydraulic gradient: a measure of the ease with which groundwater can move through the aquifer |
| | Apparent Transmissivity: the value determined from a summary of aquifer test data, usually involving only two water-level readings |
| | Effective Transmissivity: the value determined from late pumping and/or late recovery water-level data from an aquifer test |
| | Aquifer Transmissivity: the value determined by multiplying the hydraulic conductivity of an aquifer by the thickness of the aquifer |