

# Legal Land Description

- Legal Land Descriptions in Alberta are expressed as Section, Township, Range, and Meridian.
- The location of every well is shown using Legal Land Descriptions.
- There can be many drinking water wells in a single section of land.

# Legal Land Description

- There are many conventions for the order in which these different numbers are shown.
- To make it obvious which number is which, we've added a letter before each number:
- S: Section
- T: Township
- R: Range
- M: Meridian

# Legal Land Description

- If we want to find a well in township 46, range 28, west of the 4<sup>th</sup> meridian then we would type: T46R28M4
- All the wells in all the sections of land are shown for the selected township.
- The section numbers are set up as indicated in the following graphic:

31	32	33	34	35	36																																						
30	29	28	27	26	25																																						
19	20	21	22	23	24																																						
18	17	16	15	14	13																																						
7	8	9	10	11	12																																						
6	<table border="1"> <tr><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>12</td><td>5</td><td>10</td><td>9</td></tr> <tr><td>5</td><td>5</td><td>7</td><td>8</td></tr> <tr><td></td><td>3</td><td>2</td><td>1</td></tr> </table>	13	14	15	16	12	5	10	9	5	5	7	8		3	2	1	4	<table border="1"> <tr><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>12</td><td>3</td><td>10</td><td>9</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td></tr> <tr><td>4</td><td>3</td><td>2</td><td>1</td></tr> </table>	13	14	15	16	12	3	10	9	5	6	7	8	4	3	2	1	<table border="1"> <tr><td>NW</td><td>NE</td></tr> <tr><td>2</td><td></td></tr> <tr><td>SW</td><td>SE</td></tr> </table>	NW	NE	2		SW	SE	1
13	14	15	16																																								
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NW	NE																																										
2																																											
SW	SE																																										


  
 QUARTER  
 OF LEGAL  
 SUBDIVISION


  
 LEGAL  
 SUBDIVISION  
 (1/4 acre)

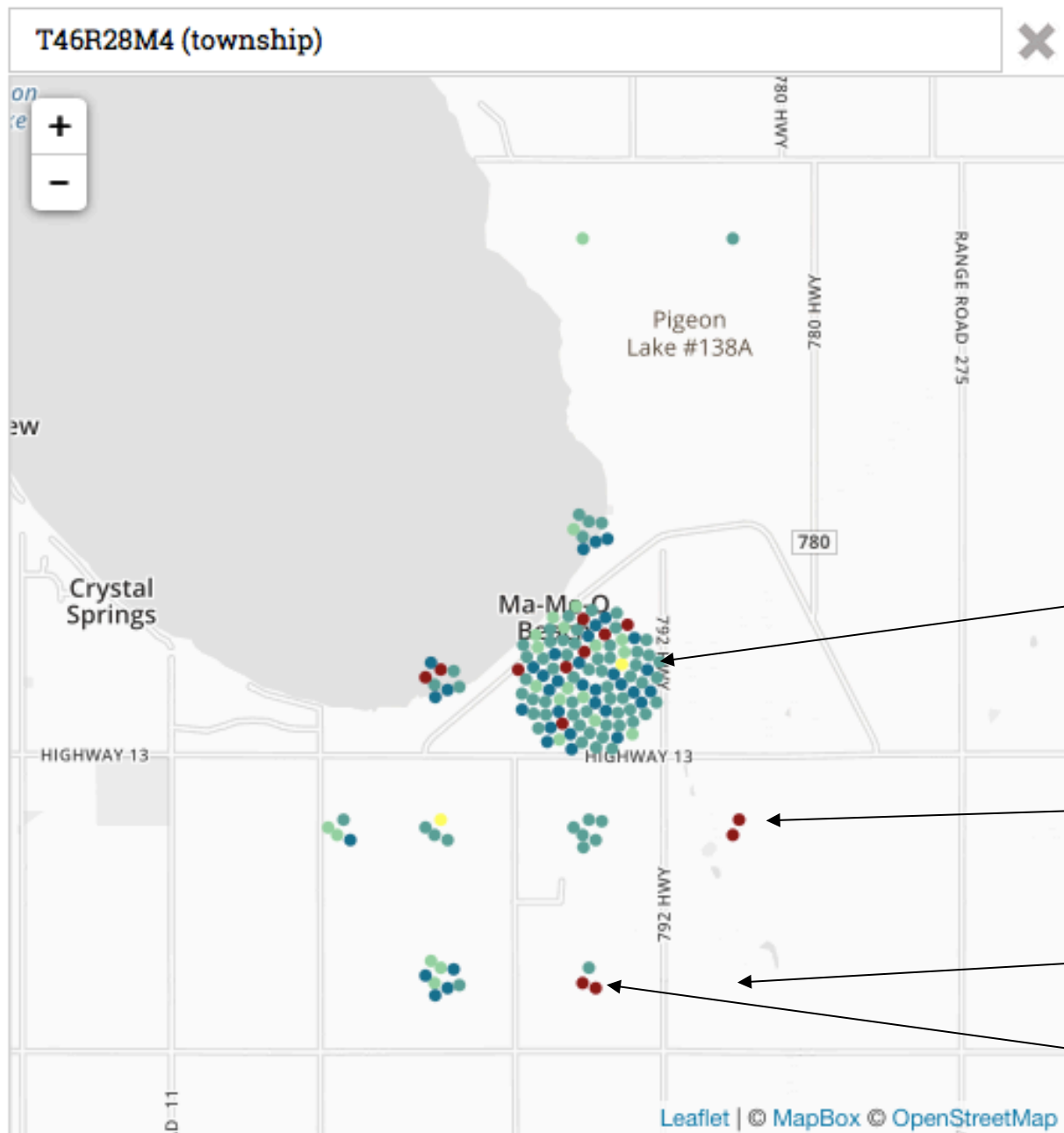

  
 QUARTER  
 SECTION  
 (160 acres)


  
 SECTION  
 (640 acres)

# Legal Land Description

- If all 36 sections contain drinking water wells that were tested for the selected parameter, then these will appear as 36 “flowers” of dots at the centre of each section where each dot represents a test.
- If a single well was tested three times during the selected time period, then this will appear as three separate dots.

# Total Dissolved Solids Map



Section 14: Lots of Tests

Section 12: 2 Tests

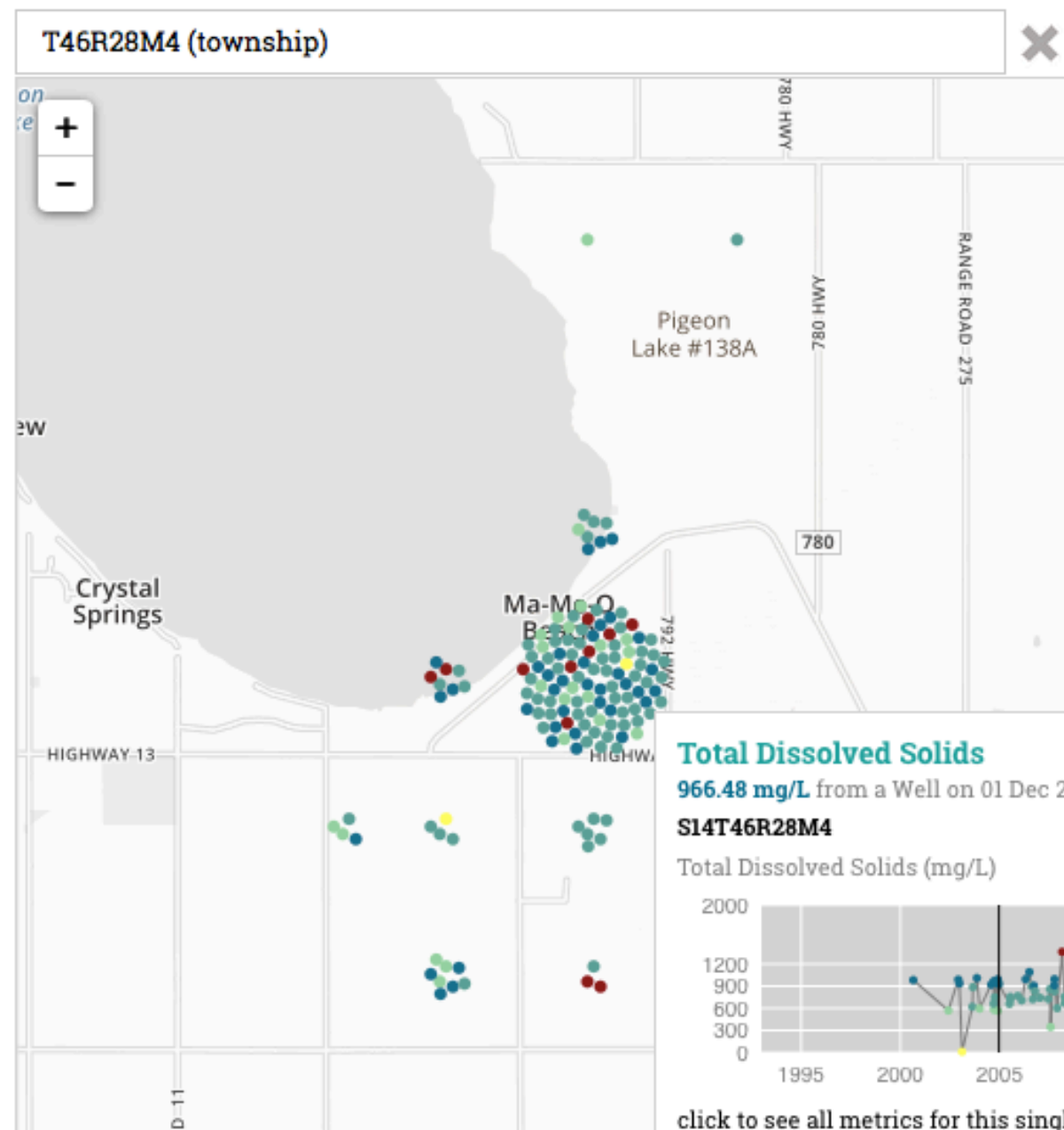
Section 1: No Tests  
(nothing shown)

Section 2: 3 Tests

149 of 109,103 tests selected

A total of 149 tests found in this township

# Total Dissolved Solids Map



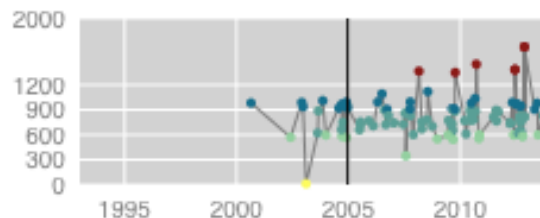
As you hover over each dot, you'll see the results of the test for the selected parameter highlighted with a vertical black line against all other tests in the same section. All tests are listed chronologically.

## Total Dissolved Solids

966.48 mg/L from a Well on 01 Dec 2004

**S14T46R28M4**

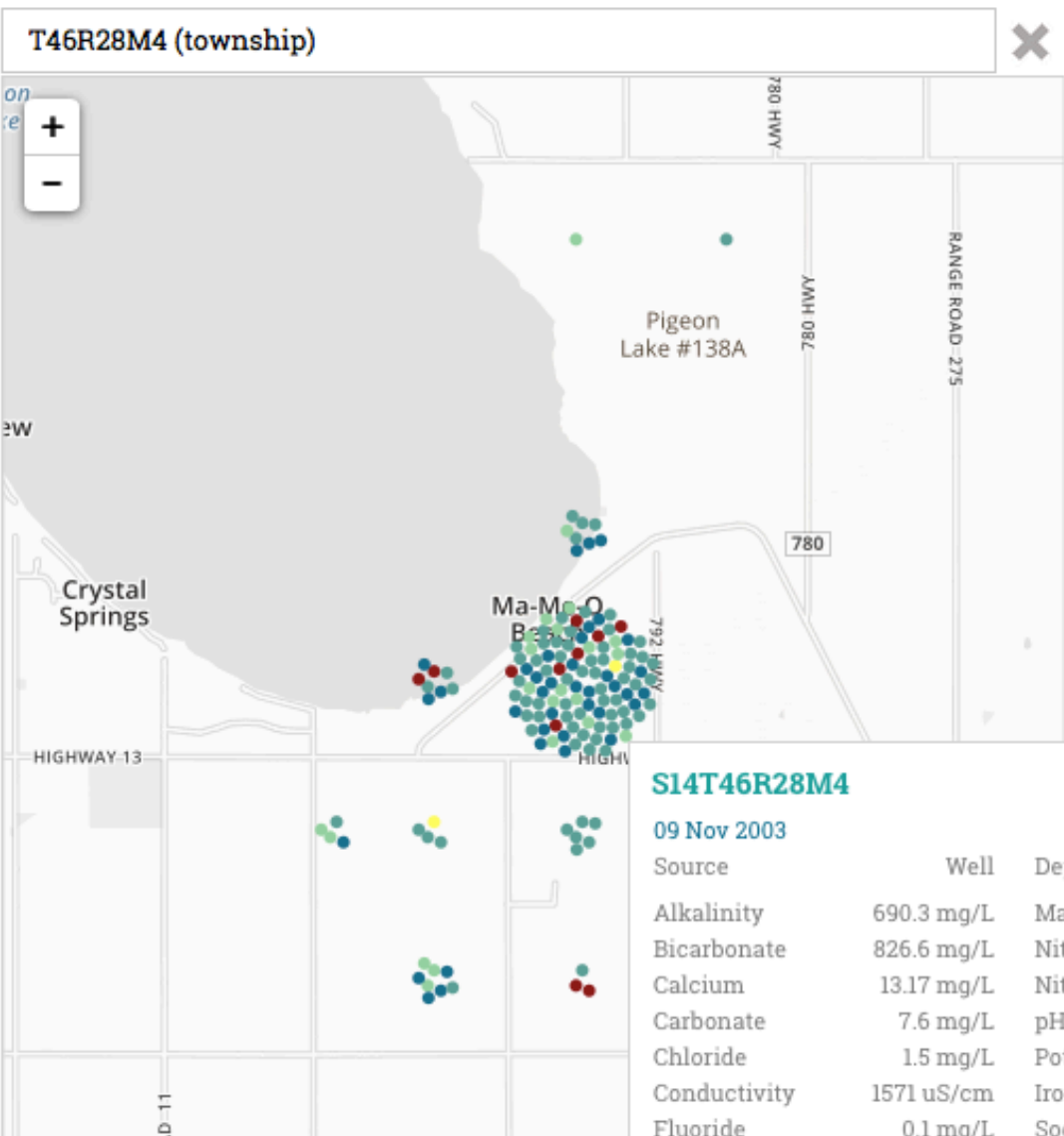
Total Dissolved Solids (mg/L)



[click to see all metrics for this single test.](#)

149 of 109,103 tests selected

# Total Dissolved Solids Map



If you click the left mouse button as you hover over a dot, all available parameters are shown using a well summary view. The selected parameter is highlighted. Also included is the well depth (if available) and the date when the test was performed.

**S14T46R28M4**  
 09 Nov 2003

Source	Well	Depth	Unknown
Alkalinity	690.3 mg/L	Magnesium	1.82 mg/L
Bicarbonate	826.6 mg/L	Nitrate	0.5 mg/L
Calcium	13.17 mg/L	Nitrite	0 mg/L
Carbonate	7.6 mg/L	pH	8.3
Chloride	1.5 mg/L	Potassium	1.59 mg/L
Conductivity	1571 uS/cm	Iron	0.08 mg/L
Fluoride	0.1 mg/L	Sodium	378.7 mg/L
Hardness	40.37 mg/L	Sulfate	198 mg/L
Hydroxide	0 mg/L	<b>TDS</b>	<b>1009.55 mg/L</b>

click point to toggle between all tests metrics on the date & a single test metric for the section over all dates

149 of 109,103 tests selected

Total Dissolved Solids By **Census I**