

Bethel Community Well Water Testing Results

| <u>Date</u> | <u>Team # – Sample #</u> | <u>Tritium*</u> | <u>Gross Alpha*</u> | <u>Gross Beta*</u> | <u>Gross Gamma*</u> | <u>Notes</u> |
|-------------|--------------------------|-----------------|---------------------|--------------------|---------------------|---------------|
| 04/15/2008 | CNS1-01 | --- | 4.59 pCi/L | 6.92 pCi/L | N/A | Private Well |
| 04/15/2008 | CNS1-02–Duplicate** | --- | 7.65 pCi/L | 7.41 pCi/L | N/A | Private Well |
| 04/15/2008 | CNS1-03 | --- | 3.16 pCi/L | 4.97 pCi/L | N/A | Private Well |
| 04/15/2008 | CNS1-04 | --- | 20.5 pCi/L | 11.5 pCi/L | --- | Private Well |
| 07/24/2008 | CNS8-04 | --- | 23.1 pCi/L | 7.72 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS1-05 | --- | 22.1 pCi/L | 10.8 pCi/L | --- | Private Well |
| 07/24/2008 | CNS8-05 | --- | 2.74 pCi/L | 8.42 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS1-06 | --- | 14.6 pCi/L*** | < LLD | --- | Private Well |
| 07/24/2008 | CNS9-06 | --- | 8.37 pCi/L | 4.82 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS2-11 | --- | 6.74 pCi/L | < LLD | --- | Public Well |
| 04/15/2008 | CNS2-13 | --- | 6.7 pCi/L | 6.01 pCi/L | --- | Private Well |
| 04/15/2008 | CNS2-14 | --- | 14.6 pCi/L*** | 13.7 pCi/L | --- | Private Well |
| 07/24/2008 | CNS7-14 | --- | 33.3 pCi/L | 11.1 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS2-15 | --- | 19.0 pCi/L | < LLD | --- | Private Well |
| 07/24/2008 | CNS8-15 | --- | 16.9 pCi/L | 12.8 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS3-21 | --- | 16.4 pCi/L | < LLD | --- | Private Well |
| 07/24/2008 | CNS7-21 | --- | 21.3 pCi/L | 5.1 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS3-22 | --- | 15.5 pCi/L | 4.47 pCi/L | --- | Private Well |
| 07/24/2008 | CNS7-22 | --- | 17.4 pCi/L | 7.29 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS3-23 | --- | 31.6 pCi/L | 17.9 pCi/L | --- | Private Well |
| 07/24/2008 | CNS7-23 | --- | 27.9 pCi/L | 14.2 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS3-25 | --- | 28.4 pCi/L | 15.6 pCi/L | --- | Private Well |
| 07/24/2008 | CNS7-25 | --- | 22.4 pCi/L | 13.6 pCi/L | < LLD | Private Well |
| 04/15/2008 | CNS3-26 | --- | 7.38 pCi/L | 5.85 pCi/L | N/A | Private Well |
| 04/15/2008 | CNS4-31 | --- | 0.0527 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS4-32 | --- | 2.16 pCi/L | 4.83 pCi/L | N/A | Private Well |
| 04/15/2008 | CNS4-32–Duplicate | --- | 1.63 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS4-34 | --- | 17.8 pCi/L | 6.54 pCi/L | --- | Private Well |
| 07/24/2008 | CNS9-34 | --- | 17.5 pCi/L | 7.67 pCi/L | < LLD | Private Well |
| 07/24/2008 | CNS9-34–Duplicate | --- | 6.18 pCi/L | 8.8 pCi/L | --- | Private Well |
| 04/15/2008 | CNS-4-37 | --- | 5.59 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS4-38 | --- | 1.42 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS5-01-GW | 388 pCi/L | 9.23 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS5-01-GWD (Duplicate) | 514 pCi/L | 12.3 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | CNS5-02-GW | < LLD | 6.45 pCi/L | < LLD | N/A | Private Well |
| 04/15/2008 | 10-804 | 1,320 pCi/L | --- | --- | N/A | Surface Water |
| 04/15/2008 | CW-198 | 692 pCi/L | --- | --- | N/A | Surface Water |
| 04/15/2008 | CW-230 | 994 pCi/L | --- | --- | N/A | Surface Water |

* = Measured in pCi/L or picocuries per liter of water.

** = Sample well CNS1-02 was a double blind duplicate sample taken from well CNS1-01. This means the two samples were pulled from the same well but given separate sample numbers to ensure lab and analysis testing procedures.

*** = While Gross Alpha levels were within the EPA safe drinking water limit, these wells were also re-tested as a precaution.

(Gross Alpha breakdown on following page)



Bethel Community Well Water Testing Results

| Date | Team # – Sample # | Gross Alpha Contributors | | | | Notes |
|------------|-------------------|--------------------------|-------------|------------------|--------------------------|--------------|
| | | Radium-226 | Radium-228 | Radium 226 & 228 | Uranium | |
| 07/24/2008 | CNS8-04 | < LLD | < LLD | < LLD | 35.2 µg/L or 23.6 pCi/L | Private Well |
| 07/24/2008 | CNS8-05 | < LLD | < LLD | < LLD | 34.9 µg/L or 23.4 pCi/L | Private Well |
| 07/24/2008 | CNS9-06 | < LLD | < LLD | < LLD | --- | Private Well |
| 07/24/2008 | CNS7-14 | 0.405 pCi/L | 3.88 pCi/L | 4.285 pCi/L | 19.25 µg/L or 12.9 pCi/L | Private Well |
| 07/24/2008 | CNS8-15 | < LLD | < LLD | < LLD | 23.58 µg/L or 15.8 pCi/L | Private Well |
| 07/24/2008 | CNS7-21 | < LLD | 0.758 pCi/L | < LLD | 28.21 µg/L or 18.9 pCi/L | Private Well |
| 07/24/2008 | CNS7-22 | 0.729 pCi/L | 1.45 pCi/L | < LLD | 16.86 µg/L or 11.3 pCi/L | Private Well |
| 07/24/2008 | CNS7-23 | 1.71 pCi/L | 5.27 pCi/L | 6.98 pCi/L | 30.45 µg/L or 20.4 pCi/L | Private Well |
| 07/24/2008 | CNS7-25 | 1.02 pCi/L | 5.53 pCi/L | 6.55 pCi/L | 29.70 µg/L or 19.9 pCi/L | Private Well |
| 07/24/2008 | CNS9-34 | < LLD | 1.31 pCi/L | 1.31 pCi/L | 27.16 µg/L or 18.2 pCi/L | Private Well |

- <LLD = Lower Level of Detection (means any radioactive material present was lower than what is scientifically measurable). This can also be expressed as Minimum Detectable Activity (MDA).
- N/A = Initial screening of sample showed no indicators that would require secondary Gross Gamma screening/testing. (Gross Gamma test are run only if Gross Alpha or Gross Beta is exceeded.)
- pCi/L = Picocuries per liter of water.
- µg/L = Micrograms per liter of water.
- = Not Tested/Not Analyzed.

EPA Safe Drinking Water – MCLs

- Tritium** = 20,000 picocuries per liter of water (pCi/L)****
- Gross Alpha** = 15 picocuries per liter of water (pCi/L)****
- Gross Beta** = 50 picocuries per liter of water (pCi/L)****

EPA Safe Drinking Water Levels for Gross Alpha Contributors – MCLs

- Radium-226** = 5 picocuries per liter of water (pCi/L)****
- Radium-228** = 5 picocuries per liter of water (pCi/L)****
- Combined Radium-226 +228** (if both are present) = 5 picocuries per liter of water (pCi/L)****
- Uranium** = 30 micrograms per liter of water (µg/L)****
(30 µg/L is approximately equal to 20 pCi/L)

**** All limits are based upon consumption of two liters of water per day, 365 days per year over a 70-year lifespan.