

ABBREVIATIONS USED – Major ions (data source: U.S. Geological Survey)

WELL AND SAMPLE IDENTIFIERS (file last modified September 2007)

LOCAL – Local number used to identify well. First two letters represent the county (AD = Adams County), the following digits represent incremental numbers.

STAID – Station identifier. For the U.S. Geological Survey wells, it is 15 digits long and is comprised of the latitude and longitude plus a two digit sequence number.

SOURCE – U.S. Geological Survey (USGS). Samples collected for a wide range of water-quality, water resources, and other hydrogeologic investigations.

DATES – Date the sample was collected.

LAT – Latitude of well, in degrees, minutes, and seconds, in format DDMMSS.

LONG – Longitude of well, in degrees, minutes, and seconds, in format DDMMSS.

DLAT – Latitude of well, in degrees and decimal minutes and seconds, in format DD.MMSS.

DLONG – Longitude of well, in degrees and decimal minutes and seconds, in format DD.MMSS.

CNTYC – County where well is located. For USGS, the counties are Adams, Allegheny, Armstrong, Beaver, Bedford, Berks, Blair, Bradford, Bucks, Butler, Cambria, Cameron, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Columbia, Crawford, Cumberland, Dauphin, Delaware, Elk, Erie, Fayette, Franklin, Fulton, Greene, Huntingdon, Indiana, Jefferson, Juniata, Lancaster, Lebanon, Lehigh, Luzerne, Lycoming, McKean, Mifflin, Monroe, Montgomery, Montour, Northampton, Northumberland, Perry, Philadelphia, Pike, Potter, Schuylkill, Snyder, Somerset, Susquehanna, Tioga, Union, Venango, Warren, Washington, Wayne, Westmoreland, Wyoming, York.

BASINS – The PADEP basin (numbers range from 1-35) the well is located in. For USGS, wells are located in Basins 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35.

GEO1 – General geologic unit. For USGS, the units are acoal (anthracite coal bearing), bcoal (bituminous coal bearing), dkcryst (dark crystalline), ltcrys (light crystalline), pocarb (Precambrian through Ordovician carbonates), qscong (quartzite, sandstone, and conglomerate), redsed (red sedimentary rocks), schist (schist), sdcarb (Silurian and Devonian carbonates), shale (shale), trised (Triassic age sedimentary rocks), uncon (unconsolidated sand and gravel, age unknown).

GEO1ITH – Generated numeric code that relates to GEO1. acoal = 1, bcoal = 2, dkcryst = 3, ltcrys = 4, pocarb = 5, qscong = 6, redsed = 7, schist = 8, sdcarb = 9, shale = 10, trised = 11, uncon = 12.

PARAMETER CODES (Analyte sampled)

P00405 – Carbon Dioxide unfiltered (unf), in milligrams per liter (mg/L)

P00500 – Residue on evaporation (ROE) unf, mg/L dried at 105 degrees Celsius

P00515 – ROE filtered (fil), mg/L dried at 105 degrees Celsius

P00540 – Residue fixed nonfilterable, mg/L

P00745 – Sulfide unf, mg/L

P00746 – Sulfide fil, mg/L

P00915 – Calcium fil, mg/L

P00916 – Calcium unf, mg/L

P00925 – Magnesium fil, mg/L
 P00927 – Magnesium unf, mg/L
 P00929 – Sodium unf, mg/L
 P00930 – Sodium fil, mg/L
 P00935 – Potassium fil, mg/L
 P00937 – Potassium unf, mg/L
 P00940 – Chloride fil, mg/L
 P00945 – Sulfate fil, mg/L
 P00946 – Sulfate unf, mg/L
 P99890 – Sulfate fil, mg/L
 P00950 – Fluoride fil, mg/L
 P00951 – Fluoride unf, mg/L
 P00955 – Silica fil, mg/L
 P01020 – Boron fil, in micrograms per liter ($\mu\text{g/L}$)
 P01022 – Boron unf, $\mu\text{g/L}$
 P71870 – Bromide fil, mg/L
 P01045 – Iron unf, $\mu\text{g/L}$
 P01046 – Iron fil, $\mu\text{g/L}$
 P01055 – Manganese unf, $\mu\text{g/L}$
 P01056 – Manganese fil, $\mu\text{g/L}$
 P61028 – Turbidity field, unf, nephelometric turbidity units (NTU)
 P70300 – Residue fil, mg/L dried at 180 degrees
 P70301 – Residue fil, mg/L, sum of constituents

**ANALYTES WITH NATIONAL DRINKING WATER STANDARDS and CURRENT (2004)
 U.S. Environmental Protection Agency Maximum Contaminant Level (MCL) or Secondary Maximum
 Contaminant Level (SMCL)**

<u>Analyte</u>	<u>MCL</u>	<u>Units</u>
P00950 Fluoride fil	4	mg/L
P00951 Fluoride unf	4	mg/L

<u>Analyte</u>	<u>SMCL</u>	<u>Units</u>
P00500 ROE unf	500	mg/L*
P00515 ROE fil	500	mg/L*
P00540 Residue fixed	500	mg/L*
P00940 Chloride fil	250	mg/L
P00945 Sulfate fil	250	mg/L
P00946 Sulfate unf	250	mg/L
P00950 Fluoride fil	>2 and <4	mg/L
P00951 Fluoride unf	>2 and <4	mg/L
P01045 Iron unf	300	ug/L
P01046 Iron fil	300	ug/L
P01055 Manganese unf	50	ug/L
P01056 Manganese fil	50	ug/L
P70300 Residue fil	500	mg/L*
P70301 Residue fil	500	mg/L*
P99890 Sulfate fil	250	mg/L

*Equivalent to total dissolved solids