

**ABBREVIATIONS USED – Water characteristics** (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, Lawrence, Lebanon, Lehigh, Luzerne, Lycoming, McKean, Mercer, 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 bcoal (bituminous coal bearing), dkrcys (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).
- GEOLITH** – Generated numeric code that relates to GEO1. bcoal = 2, dkrcys = 3, ltcrys = 4, pocarb = 5, qscong = 6, redsed = 7, schist = 8, sdcarb = 9, shale = 10, trised = 11, uncon = 12.

**PARAMETER CODES (Analyte sampled)**

- P61028 – Field turbidity, unfiltered (unf), nephelometric turbidity units (NTU)
- P39087 – Alkalinity, fil, incremental titration by laboratory, milligrams per liter (mg/L)  
Calcium Carbonate (CaCO<sub>3</sub>)
- P29801 – Alkalinity, fil, fixed endpoint (pH 4.5) titration in laboratory, mg/L as CaCO<sub>3</sub>
- P39086 – Alkalinity, fil, incremental titration, in field, mg/L as CaCO<sub>3</sub>
- P95902 – Noncarbonate hardness, fil, mg/L as CaCO<sub>3</sub>
- P00400 – pH, unf, field in standard units

P00403 – pH, unf, laboratory in standard units  
 P00435 – Acidity, unf, as CaCO<sub>3</sub>  
 P00904 – Noncarbonate hardness, fil, mg/L as CaCO<sub>3</sub>  
 P00905 – Noncarbonate hardness, fil, in laboratory, mg/L as CaCO<sub>3</sub>  
 P00900 – Total hardness, unf, mg/L as CaCO<sub>3</sub>  
 P00902 – Noncarbonate hardness, unf, in field, mg/L as CaCO<sub>3</sub>  
 P00903 – Noncarbonate hardness, unf in laboratory, mg/L as CaCO<sub>3</sub>  
 P00300 – Dissolved oxygen, unf, mg/L  
 P00301 – Dissolved oxygen, unf, percent of saturation  
 P00095 – Specific conductance, unf, microsiemens per centimeter (uS/cm) at 25 degrees Celsius (°C)  
 P90095 – Specific conductance, unf, laboratory, (uS/cm) at 25 °C  
 P00010 – Water Temperature, °C  
 P00020 – Air Temperature, °C  
 P00410 – Acid neutralizing capacity, unf fixed endpoint (pH 4.5) titration, as mg/L CaCO<sub>3</sub>  
 P00419 – Acid neutralizing capacity, unf, incremental titration, field, mg/L as CaCO<sub>3</sub>  
 P90410 – Acid neutralizing capacity, unf, fixed endpoint (pH 4.5) titration, laboratory, as mg/L CaCO<sub>3</sub>  
 P00080 – Color, fil, platinum cobalt units  
 P00090 – Oxidation reduction potential, reference electrode not specified, millivolts  
 P63002 – Oxidation reduction potential, relative to the standard hydrogen electrode (SHE), millivolts  
 P63675 – Turbidity, water, unf, broad band light source (400-680 nm), detection angle 90 +/- 30 degrees to incident light, NTU  
 P63676 – Turbidity, water, unf, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTU

**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>
P61028 – Field turbidity	1	NTU

  

<u>Analyte</u>	<u>SMCL</u>	<u>Units</u>
P00080 – Color	15	color units
P00400 – pH	6.5 – 8.5	standard units