

ABBREVIATIONS USED – Nutrients (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), dkcrs (dark crystalline), lcrs (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, dkcrs = 3, lcrs = 4, pocarb = 5, qscong = 6, redsed = 7, schist = 8, sdcarb = 9, shale = 10, trised = 11, uncon = 12.

PARAMETER CODES (Analyte sampled)

- P00600 – Total nitrogen unfiltered (unf), milligrams per liter (mg/L) as Nitrogen (N)
- P00602 – Total nitrogen filtered (fil), mg/L as N
- P00605 – Organic nitrogen unf, mg/L as N
- P00607 – Organic nitrogen fil, mg/L as N
- P00608 – Ammonia fil, mg/L as N

P00610 – Ammonia unf, mg/L as N
 P00613 – Nitrite fil, mg/L as N
 P00615 – Nitrite unf, mg/L as N
 P00618 – Nitrate fil, mg/L as N
 P00620 – Nitrate unf, mg/L as N
 P00623 – Ammonia plus organic nitrogen fil, mg/L as N
 P00625 – Ammonia plus organic nitrogen unf, mg/L as N
 P00630 – NO₂ + NO₃ unf, mg/L as N
 P00631 – NO₂ + NO₃ fil, mg/L as N
 P00650 – Phosphate unf, mg/L as Phosphate (PO₄)
 P00660 – Orthophosphate fil, mg/L as PO₄
 P00665 – Phosphorus unf, mg/L
 P00666 – Phosphorus fil, mg/L
 P00671 – Orthophosphate fil, mg/L as Phosphorous (P)
 P00680 – Organic carbon unf, mg/L
 P00681 – Organic carbon fil, mg/L
 P62854 – Total nitrogen, fil, analytically determined, mg/L
 P70507 – Orthophosphate unf, mg/L as P
 P71845 – Ammonia unf, mg/L as Ammonia (NH₄)
 P71846 – Ammonia fil, mg/L as NH₄
 P71851 – Nitrate fil, mg/L as Nitrate (NO₃)
 P71856 – Nitrite fil, mg/L as Nitrite (NO₂)
 P71887 – Total nitrogen unf, mg/L as NO₃

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

<u>Analyte</u>	<u>MCL</u>	<u>Units</u>
P00613 Nitrite fil	1	mg/L
P00615 Nitrite unf	1	mg/L
P00618 Nitrate fil	10	mg/L
P00620 Nitrate unf	10	mg/L