# SSHCZO Metadata Worksheet

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| Data File Name | **SH\_Well\_W3.csv** |
| Date Prepared | 2017-10-23 |
| Descriptive Title | Well 3 |
| Update Frequency | Quarterly |
| Abstract | Groundwater level data and water temperature for well 3 are measured every 15 minutes using a HOBO U20-001-01 non-vented pressure transducer. Recorded data began 2017-02-14 through present. |
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| Data Value Descriptions | * COL1: label = TmStamp\_UTC; TimeZone = UTC * COL2: label = WaterTemp\_C; Units = degC, water temperature * COL3: label = WL\_BLG\_m; Units = meters; corrected water level below ground |
| Keywords | Groundwater Depth, Groundwater Temperatures, Hydrology |
| Methods | Groundwater level measurements are recorded every 15 minutes on a HOBO U20-001-01 non-vented pressure transducer. Data are manually downloaded monthly using HOBO-Ware Pro software. Sensor depths are calculated in the software by processing with barometric pressure data recorded on a separate HOBO U20-001-01 pressure transducer. Manual field measurements are made using a Solinist electric tape to measure water level below ground. These manual measurements are used to apply a prorated correction between visits to create the final water level below ground (WL\_BLG\_m).  well_diagram  TOC above land surface = 0.46 meters  Sensor location down borehole from TOC = 3.66 meters  Sensor location below land surface = 3.20 meters  The water table below land surface obtained by subtracting the head pressure and above ground casing length from the sensor depth.  -9999 marks erroneous or missing data due to data downloads or sensor malfunction  Data Gaps  There is large data gap 2017-07-12 to 2017-08-16 due to bad sensor; required sensor to be replaced.  Sampling and drilling nearby caused dips in the hydrograph on November (2017)16, 17, 20, and 21. |
| Sites | Shale Hills Valley northing/easting: 147832.854/ 586781.252; DMS: 40.664735, -77.907172(NAD\_1983\_StatePlane\_Pennsylvania\_South\_FIPS\_3702); Elevation 260.7 |
| Publications | none |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Susquehanna Shale Hills Critical Zone Observatory. |
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