# SSHCZO Metadata Worksheet

|  |  |
| --- | --- |
| Data File Name | **Q\_compiled\_GR.xlsx** |
| Date Prepared | 08/26/2016 |
| Descriptive Title | Garner Run Discharge and Rating Curve |
| Update Frequency | Annually |
| Abstract | Surface water discharge data for Garner Run stream (Sheet 1). Stage data was measured every 10 to 15 minutes and a rating curve was created with manual (visual) measurements from a Parshall Flume. All data contributes to the goals of hypothesis six (H6), which focuses on concentration-discharge relationships spatially and temporally. Data spans from October 2014 to March 2016. |
| Investigator  Contact Info | *Dr. Tess Russo,* – Assistant Professor, Department of Geosciences, 310 Deike Building, Pennsylvania State University, University Park, PA 16802, [*russo@psu.edu*](mailto:russo@psu.edu)*,* (814)865-7389  *Beth Hoagland,* [*neh137@psu.edu*](mailto:neh137@psu.edu)*, Graduate Student, 502-432-0755* |
| Data Value Descriptions | * COL1: label=ValueAttribute, value=TIMESTAMP, UTCOffset=-4, TimeZone=EDT, format=YYYY-MM-DD hh:mm:ss.0000000 * Col2: label=baro(Barometric pressure), Units=kPa * Col3: label=air\_t(air Temperature), Units=degC * Col4: label=label=abs\_press(Abs Pressure in water), Units=kPa * Col5: label=w\_temp(water Temperature), Units=DegC * Col6: label=depth\_m(Corrected sensor depth), Units=meters(m) * Col7: label=stage\_cm(Sensor depth),Units=centimeters(cm) * Col8: label=stage\_diff(Stage difference, pressure values are measured in a pool ~20 m upstream of the pool. Values in this column are corrected based upon difference in elevation between the two heights (equivalent to 9.076 cm, as measured using a survey)),Units=centimeters(cm) * Col9: label=discharge - 15 min discharge calculated from the rating curve data, Units=m3/s |
| Keywords | Hydrology, Stream discharge, rating curve |
| Methods | Discharge measurements were collected using a 9 inch flume monthly to bi-weekly and used to build a rating curve.  Stage was measured every 15 min in a pool ~20 m upstream of the flume using a HOBO pressure transducer. Surveys were conducted to compute elevation difference between Parshall Flume and HOBO pressure transducer. Discharge was calculated for each elevation compensated stage measurement based upon the rating curve.  Maintenance: |
| Sites | |  |  |  | | --- | --- | --- | | Shaver's Creek/Garner Run | 2014 - present | N 40° 41' 32.892" W 77° 55' 41.052 | |
| Citation | The following acknowledgment should accompany any publication or citation of these data: Logistical support and/or data were provided by the NSF-supported Shale Hills Susquehanna Critical Zone Observatory. |
| Publications | Unpublished, please embargo public access to this dataset. |
| Data Use Notes | The user of Shale Hills Susquehanna CZO data agrees to provide proper acknowledgment with each usage of the data. Citation of the name(s) of the investigator(s) responsible for the data set, in addition to the generic statement above, constitutes proper acknowledgment. Author(s) (including Shale Hills Susquehanna CZO investigators) of published material that makes use of previously unpublished Shale Hills Susquehanna CZO data agree to provide the Shale Hills Susquehanna CZO data manager with four (4) copies (preferably reprints) of that material for binding as soon as it becomes available. The user of Shale Hills Susquehanna CZO data agrees not to resell or redistribute shared data. The user of these data should be aware that, while efforts have been taken to ensure that these data are of the highest quality, there is no guarantee of perfection for the data contained herein and the possibility of errors exists. These data are defined as either public or private, such that a password may be required for access. |