# SSHCZO Metadata Worksheet

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| Data File Name | **Shavers\_Creek\_Carbon\_Sulfur** |
| Date Prepared | 4/27/2020 |
| Descriptive Title | Carbon & Sulfur Analyses for Cole Farm |
| Update Frequency | As data becomes available |
| Abstract | A rock core at Cole Farm and two bedrock samples within the Shavers Creek watershed were sampled 8/23/2019 and 9/12/2019, respectively. The CFW5 rock core was drilled by Brandon Forsythe, and the bedrock was sampled by hand by Alison Richards. These samples were analyzed for carbon and sulfur content using a combustion-IR Carbon/Sulfur determinator (LECO SC632). |
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| Data Value Descriptions | * COL1: label= SampleName * COL2: label= Carbon\_Percentage, * COL3: label= StDev\_Carbon\_Percentage * COL4: label= Sulfur\_Percentage * COL5: label= StDev\_Sulfur\_Percentage |
| Keywords | Rock core, carbon, sulfur, standard deviation |
| Methods | SS30 and Outcrop 2 were sampled by hand and the CFW5 rock core was sampled to 4.5 meters using a drill. All samples were air dried for at least five days before they were ground using a mortar and pestle and sieved through a number 100 sieve with a hole diameter of 150 μm. 0.15 grams of ground sample were measured into ceramic boats for carbon and sulfur analysis. The samples were run in a combustion-IR Carbon/Sulfur determinator (LECO SC632).  The detection limits for the LECO SC632 are 0.08% for carbon and 0.004% for sulfur. |
| Sites | Sites:  Cole Farm:   |  |  | | --- | --- | | Name | CFW5 | | Latitude | 40.63623 | | Longitude | -77.94240 | | Sampling method | Rock core |   Shavers Creek:   |  |  | | --- | --- | | Name | SS30 | | Latitude | 40.62416 | | Longitude | -77.95784 | | Sampling method | Bedrock by hand |  |  |  | | --- | --- | | Name | Outcrop 2 | | Latitude | 40.63343 | | Longitude | -77.94176 | | Sampling method | Bedrock by hand | |
| 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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