# CZO Metadata Worksheet

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| Data File Name | **SHG.txt** |
| Date Prepared | 2/28/2011 |
| Descriptive Title | Susquehanna Shale Hills Critical Zone Observatory Terrestrial Laser Scan |
| Update Frequency | N/A |
| Abstract | Terrestrial laser mapping (TLM) of the SSHO was conducted in March, 2010 to provide centimeter scale spatial data of the watershed. Motivation for this high resolution scanning includes characterization of micro-topographic features, primary among which are tree throw pit and mound pairs. This file is a comma delimited text file containing x, y, and z spatial data collected during the TLM effort. This point cloud data produce a centimeter scale DEM of the western 1/3 of the SSHO watershed.  |
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| Data Value Descriptions | * Column 1) X: x coordinates for laser scan returns
* Column 2) Y: y coordinates for laser scan returns
* Column 3) Z: Ground surface elevation data for laser scan returns
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| Keywords | Terrestrial laser mapping, high resolution DEM, pit and mound topography |
| Methods | Data collected using RIEGL LMS – Z620 extra long range and high accuracy 3D terrestrial laser scanning system. Data processed using RiSCAN Pro software. |
| 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 | None |
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