

**Project Definition:** The entire collection for a contracted area.

**Work Unit Definition:** A production block of data defined by the National Geospatial Technical Operations Center due to expediency, priority or resource allocation. There can be one or many work units per project.

### Project Information

<b>Lidar Base Specification:</b> 2021 Revision A	<b>Primary Contractor:</b> NV5 Geospatial, Inc
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	
<b>Collection Start Date:</b> 04-10-2022	<b>Collection End Date:</b> 05-27-2022
<b>The National Map Email:</b> tnm_help@usgs.gov	

### Vertical Accuracy Results

The U.S. Geological Survey evaluates absolute vertical accuracy of the lidar and lidar-derived bare earth DEM data at the project level

Lidar Point Cloud	Required NVA RMSEz (cm)	Tested NVA RMSEz (cm)	Required NVA at 95% confidence level (cm)	Tested NVA at 95% confidence level (cm)	Required VVA at 95th percentile (cm)	Tested VVA at 95th percentile (cm)
	10.0	<b>2.60</b>	19.6	<b>5.09</b>	N/A	<b>14.80</b>

Digital Elevation Model	Required NVA RMSEz (cm)	Tested NVA RMSEz (cm)	Required NVA at 95% confidence level (cm)	Tested NVA at 95% confidence level (cm)	Required VVA at 95th percentile (cm)	Tested VVA at 95th percentile (cm)
	10.0	<b>2.73</b>	19.6	<b>5.35</b>	30.0	<b>15.16</b>

Please see the vertical\_accuracy folder within the project metadata for more information.

### Classifications Used

Classification verification is limited to the minimum required by applicable Lidar Base Specification. Classifications beyond the minimum are not verified by USGS.

Classification ID	Classification Type
1	Unclassified
2	Ground
7	Low Noise
9	Water
17	Bridge Deck
18	High Noise
20	Ignored Ground
21	Snow
22	Temporal Exclusion
5	High Vegetation
6	Building

## Sensor(s) Used

Sensor
Riegl VQ-1560ii - Rotating Polygonal Mirror
Riegl 1560ii/ii-s - Rotating Polygonal Mirror

## Work Unit Information

<a href="#">WI_12County_11_B22</a>	<b>Work Unit ID:</b> 300214	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7593	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-07	<b>Collection End Date:</b> 2022-05-10	

<a href="#">WI_12County_2_B22</a>	<b>Work Unit ID:</b> 300205	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7645	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-27	<b>Collection End Date:</b> 2022-05-05	

<a href="#">WI_12County_9_B22</a>	<b>Work Unit ID:</b> 300212	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7612	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-27	<b>Collection End Date:</b> 2022-05-04	

<a href="#">WI_12County_8_B22</a>	<b>Work Unit ID:</b> 300211	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7623	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-04	<b>Collection End Date:</b> 2022-05-15	

<a href="#">WI_12County_1_B22</a>	<b>Work Unit ID:</b> 230107	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7638	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-04	<b>Collection End Date:</b> 2022-05-15	

<a href="#">WI_12County_7_B22</a>	<b>Work Unit ID:</b> 300210	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7636	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-19	<b>Collection End Date:</b> 2022-04-27	

<a href="#">WI_12County_10_B22</a>	<b>Work Unit ID:</b> 300213	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7602	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-14	<b>Collection End Date:</b> 2022-05-27	

<a href="#">WI_12County_5_B22</a>	<b>Work Unit ID:</b> 300208	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 7625	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-06	<b>Collection End Date:</b> 2022-05-07	

<a href="#">WI_12County_4_B22</a>	<b>Work Unit ID:</b> 300207	<b>Quality Level:</b> 2
-----------------------------------	-----------------------------	-------------------------

<b>Horizontal EPSG Code:</b> 7610	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-10	<b>Collection End Date:</b> 2022-04-11	

<a href="#">WI_12County_6_B22</a>	<b>Work Unit ID:</b> 300209	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 7594	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-12	<b>Collection End Date:</b> 2022-05-05	

<a href="#">WI_12County_12_B22</a>	<b>Work Unit ID:</b> 300215	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 7590	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-14	<b>Collection End Date:</b> 2022-05-27	

<a href="#">WI_12County_3_B22</a>	<b>Work Unit ID:</b> 300206	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 7608	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-11	<b>Collection End Date:</b> 2022-04-12	