

**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> 2020 Revision A	<b>Primary Contractor:</b> Fugro Geospatial, Inc. (Fugro)
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	
<b>Collection Start Date:</b> 04-10-2021	<b>Collection End Date:</b> 12-01-2022
<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>3.44</b>	19.6	<b>6.75</b>	N/A	<b>16.01</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>3.41</b>	19.6	<b>6.69</b>	30.0	<b>15.50</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	Processed, but unclassified
2	Bare-earth ground
6	
7	Low Noise
9	Water
17	Bridge Decks
18	High Noise
20	
21	Snow
22	Temporal Exclusion

## Sensor(s) Used

**Sensor**

Leica ALS80 - Aerial Oscillating Mirror

Riegl LMS Q1560 - Aerial Rotating Prism

## Work Unit Information

<a href="#">SD_EasternP2_1_2021</a>	<b>Work Unit ID:</b> 219676	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6343	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2021-04-10	<b>Collection End Date:</b> 2021-05-01	

<a href="#">SD_EasternP2_2_2021</a>	<b>Work Unit ID:</b> 300259	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6343	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 0.5	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2021-05-01	<b>Collection End Date:</b> 2022-12-01	