

**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> 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> 06-22-2020	<b>Collection End Date:</b> 07-22-2022
<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>3.79</b>	19.6	<b>7.43</b>	N/A	<b>16.37</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>3.84</b>	19.6	<b>7.53</b>	30.0	<b>16.59</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
17	Bridge Deck
18	High Noise
9	Water
20	Ignored Ground

### Sensor(s) Used

<b>Sensor</b>
Riegl VQ-1560ii - Rotating Polygonal Mirror

## Work Unit Information

OR_SWCentralSyacan_2_B21	Work Unit ID: 300184	Quality Level: 1
Horizontal EPSG Code: 6339	Vertical EPSG Code: 5703	Geoid Model: GEOID18
DEM Ground Sample Distance: 0.5	Hydro Treatment: no hydro treatment	
Collection Start Date: 2020-06-22	Collection End Date: 2022-07-22	

OR_SWCentralSyacan_4_B21	Work Unit ID: 300186	Quality Level: 2
Horizontal EPSG Code: 6339	Vertical EPSG Code: 5703	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2022-07-19	Collection End Date: 2022-07-19	

OR_SWCentralSyacan_3_B21	Work Unit ID: 300185	Quality Level: 1
Horizontal EPSG Code: 6340	Vertical EPSG Code: 5703	Geoid Model: GEOID18
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-10-15	Collection End Date: 2021-10-19	

OR_SWCentralSyacan_1_B21	Work Unit ID: 221824	Quality Level: 1
Horizontal EPSG Code: 6339	Vertical EPSG Code: 5703	Geoid Model: GEOID18
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened	
Collection Start Date: 2020-07-09	Collection End Date: 2022-07-22	