# MT\_Statewide\_Phase2\_2020\_B20



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**

Lidar Base Specification: 2.1	Primary Contractor: Quantum Spatial Inc. (QSI)		
Las Version: 1.4	Contract Mechanism: GPSC		
P Method: 7 - Linear-Mode Lidar			
Collection Start Date: 08-12-2020	Collection End Date: 07-15-2021		
The National Map Email: 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)	NVA RMSF7	95% confidence		'	Tested VVA at 95th percentile (cm)
	10.0	3.58	19.6	7.02	N/A	20.76

Digital	Required NVA RMSEz (cm)	NVA RMSFz	95% confidence	95% confidence		Tested VVA at 95th percentile (cm)
	10.0	3.94	19.6	7.72	30.0	22.76

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		
7	Low noise		
9	Water		
17	Bridge deck		
18	High noise		
20	Ignored ground (typically breaklines proximity)		
21	Snow (if present and identifiable)		
22	Temporal exclusion (typically nonfavored data in intertidal zones)		

# Sensor(s) Used





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# Sensor Riegl 1560ii/ii-s - Rotating Polygonal Mirror Riegl LMS Q1560 - Aerial Rotating Prism Riegl VQ-1560i - Aerial Oscillating Mirror Riegl VQ-1560ii - Rotating Polygonal Mirror





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# **Work Unit Information**

MT_Statewide_P2_1_2020	<b>Work Unit ID: 197111</b>	Quality Level: 2		
Horizontal EPSG Code: 6514	Vertical EPSG Code: 5703	Geoid Model: GEOID18		
<b>DEM Ground Sample Distance: 1.0</b>	Hydro Treatment: hydro	Hydro Treatment: hydro-flattened		
Collection Start Date: 2020-10-08	Collection End Date: 20	Collection End Date: 2021-05-11		

MT_Statewide_P2_3_2020	Work Unit ID: 300021	Quality Level: 2		
Horizontal EPSG Code: 6514	Vertical EPSG Code: 5703	Geoid Model: GEOID18		
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hyd	Hydro Treatment: hydro-flattened		
Collection Start Date: 2020-09-11	Collection End Date:	Collection End Date: 2021-06-03		

MT_Statewide_P2_4_2020	Work Unit ID: 300153	Quality Level: 1	
Horizontal EPSG Code: 6514	Vertical EPSG Code: 5703	Geoid Model: GEOID18	
<b>DEM Ground Sample Distance: </b> 0.5	Hydro Treatment: hydro	Hydro Treatment: hydro-flattened	
Collection Start Date: 2020-09-11	Collection End Date: 20	Collection End Date: 2021-05-10	

MT_Statewide_P2_2_2020	Work Unit ID: 230589	Quality Level: 2
Horizontal EPSG Code: 6514	<b>Vertical EPSG Code:</b> 5703	Geoid Model: GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2020-08-12	Collection End Date: 2020-09-08	

MT_Statewide_P2_5_2020	Work Unit ID: 300154	Quality Level: 1	
Horizontal EPSG Code: 6514	Vertical EPSG Code: 5703	Geoid Model: GEOID18	
DEM Ground Sample Distance: 0.5	Hydro Treatment: hydro-flattened		
Collection Start Date: 2020-08-12	Collection End Date: 2021-07-15		





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