

**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> Lidar Base Specification 2022 rev. A. | <b>Primary Contractor:</b> Merrick-Surdex Joint Venture (MSJV) |
| <b>Las Version:</b> 1.4  | <b>Contract Mechanism:</b> GPSC                                |
| <b>P Method:</b> 7 - Linear-Mode Lidar                                 |  |
| <b>Collection Start Date:</b> 07-08-2022                               | <b>Collection End Date:</b> 08-01-2022                         |
| <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>4.51</b>           | 19.6                                      | <b>8.85</b>                             | N/A                                  | <b>13.75</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>4.55</b>           | 19.6                                      | <b>8.91</b>                             | 30.0                                 | <b>14.50</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                 | Unclassified        |
| 2                 | Ground              |
| 7                 | Low Point (Noise)   |
| 9                 | Water               |
| 17                | Bridge Deck         |
| 18                | High Noise          |
| 20                | Ignored Ground      |

### Sensor(s) Used

| Sensor  |
|---|
| Optech Galaxy T2000 - Aerial Oscillating Mirror |
| Optech Galaxy ALTM - Aerial Oscillating Mirror  |

## Work Unit Information

|  |   |                             |
|--|---|-----------------------------|
| <a href="#">NV_ClarkCo_2_B22</a>         | <b>Work Unit ID:</b> 300193             | <b>Quality Level:</b> 1     |
| <b>Horizontal EPSG Code:</b> 6521        | <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> 2022-07-08 | <b>Collection End Date:</b> 2022-08-01  |                             |

|  |   |                             |
|--|---|-----------------------------|
| <a href="#">NV_ClarkCo_1_B22</a>         | <b>Work Unit ID:</b> 300192             | <b>Quality Level:</b> 2     |
| <b>Horizontal EPSG Code:</b> 6521        | <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> 2022-07-08 | <b>Collection End Date:</b> 2022-08-01  |                             |