# RI_Statewide_D22

## USGS
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**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:** 2021 Revision A | | **Primary Contractor:** Fugro Geospatial, Inc. (Fugro) | |
| **Las Version:** 1.4 | | **Contract Mechanism:** GPSC | |
| **P Method:** 7 - Linear-Mode Lidar | | | |
| **Collection Start Date:** 03-26-2022 | | **Collection End Date:** 03-30-2022 | |
| **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) | **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 | **2.17** | 19.6 | **4.26** | N/A | **9.12** |

| 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 | **2.27** | 19.6 | **4.44** | 30.0 | **10.55** |

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 |
| 22 | Temporal Exclusion |

## Sensor(s) Used

| **Sensor** |
|---|

| Leica ALS80 - Aerial Oscillating Mirror |
| Riegl LMS-Q680i - Rotating Polygon Mirror |

# Work Unit Information

| RI_Statewide_1_D22 | | Work Unit ID: 230479 | Quality Level: 1 |
|---|---|---|---|
| Horizontal EPSG Code: 6568 | | Vertical EPSG Code: 6360 | Geoid Model: GEOID18 |
| DEM Ground Sample Distance: 1.0 | | Hydro Treatment: hydro-flattened | |
| Collection Start Date: 2022-03-26 | | Collection End Date: 2022-03-30 | |

Project Name: RI_Statewide_D22

Report Date: 2023-07-28