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| Norfolk, VA LiDAR Delivery ReportProduced for U.S. Geological SurveyUSGS Contract: G10PC00013Task Order: G13PD00279 |
| Report Date: February 27, 2014 |
|  Submitted by: Dewberry 1000 North Ashley Drive Suite 801Tampa, FL 33602813.225.1325Submitted to: U.S. Geological Survey1400 Independence RoadRolla, MO 65401573.308.3810 |

**Norfolk, VA LiDAR Pilot Deliverables Overview Checklist**

[x]  **Project Report**

 [x]  Collection report detailing mission planning , flight logs, acquisition, and calibration

[x]  Processing report

 [x]  QA/QC Reports

[x]  **UTM Classified Point Cloud Data**

 [x]  LAS Version 1.2

 [x]  Correct Georeference Information

 [x]  Contains GPS Times

 [x]  Contains Intensity Values

 [x]  Tile to 1,500 meters x 1,500 meters Tile Grid

 [x]  Classified with Class 1 – Unclassified, Class 2 – Bare-Earth Ground, Class 7 – Noise, Class 9 – Water,

 Class 10 – Ignored Ground, Class 11 – Withheld.

[x]  **UTM Bare Earth Surface (Raster DEM)**

[x]  Cell size of 1 meter

[x]  ERDAS .img File format

 [x]  Georeference info included (xml files)

 [x]  Tiled with no overlap

 [x]  Reviewed for edgematching and artifacts

 [x]  Free of void areas

 [x]  Hydrographic features have been flattened according to SOW

[x]  **UTM First Return Surface (Raster DSM)**

[x]  Cell size of 1 meters

[x]  ERDAS .img File format

 [x]  Georeference info included (xml files)

 [x]  Tiled with no overlap

 [x]  Free of void areas

 [x]  Generated from first return LiDAR points

[x]  **UTM Last Return Surface (Raster DSM)**

[x]  Cell size of 1 meter

[x]  ERDAS .img File format

 [x]  Georeference info included (xml files)

 [x]  Tiled with no overlap

 [x]  Free of void areas

 [x]  Generated from last return LiDAR points

**Project Report**

A comprehensive project report has been delivered in PDF format. This report includes the LiDAR acquisition and processing information along with detailed information on the production and quality control process used for the development of all deliverables.

# UTM Classified Point Cloud

Classified point cloud data has been delivered tiled to 1,500 meter x 1,500 meter tiles that are named tilename.las. The delivery consists of 1,457 LiDAR tiles that meet the project specified requirement.

# UTM Bare Earth Surface (Raster DEM)

A total of five (5) 1,500 meter x 1, 500 meter tiled bare earth raster DEMs in ERDAS IMG format have been resubmitted for this project. All tiles have a cell size of 1 meter and have been reviewed to ensure that they meet the project required specifications.

# UTM First Return Surface (Raster DSM)

A total of 1,457 1,500 meter x 1, 500 meter tiled raster DSMs generated from the first return LiDAR points have been delivered in ERDAS IMG format for this project. All tiles have a cell size of 1 meter and have been reviewed to ensure that they meet the project required specifications.

# UTM Last Return Surface (Raster DSM)

A total of 1,457 1,500 meter x 1, 500 meter tiled raster DSMs generated from the last return LiDAR points have been delivered in ERDAS IMG format for this project. All tiles have a cell size of 1 meter and have been reviewed to ensure that they meet the project required specifications.

# Other Comments

Resubmitted data for the Norfolk, VA LiDAR Project is delivered on one (1) Hard Drive (Verbatim S/N:975791192404267).