

## Questions and Answers for 10/13/06

FOR THE RFP FOR STATEWIDE ORTHORECTIFIED IMAGERY, ELEVATION DATA, AND LAND USE/LAND COVER DATA FOR THE STATE OF DELAWARE

1. **Question:** From the 2002 land use map it is apparent that certain land uses apart from wetlands have a MMU of less than 2 acres. Please can you confirm which classes are expected to have a MMU less than 2 acres.

**Answer:** The 2002 Land Use/Land Cover data includes some upland areas in which the minimum mapping unit is smaller than 2-acres. That was the result of the contractor in that case being able to create Land Use/Land Cover polygons at a greater accuracy than that specified. The 2007 update should maintain those polygons at a smaller than a 2-acre MMU where possible and may create new polygons smaller than a 2-acre MMU as appropriate.

2. **Question:** Could you please point us to the LIDAR Boundary shape files for Kent and New Castle Counties? We are not seeing any boundary files referenced in the RFP or on the web page. Please clarify.

**Answer:** The RFP calls for a project to collect elevation data for all of Kent and New Castle Counties. The county boundary data found on the Delaware DataMIL (<http://datamil.delaware.gov>) should be used.

3. **Section I, Paragraph 2 (Page 1)**

**Text:** The imagery should be at a map scale of at least 1:2,400 with pixel resolution of at least 0.25 meters.

**Question:** Is this statement identifying the scale and resolution at which the original film or imagery is to be captured to support the 2007 program? If not then is there a capture scale and resolution of the original film that is dictated by the State?

**Answer:** The map scale and pixel resolution noted in the RFP are the scale and resolution expected in the final product. The state does not specify the scale or resolution at which the data is to be captured, as long as the product delivered meets the specified scale and resolution and meets the USGS Standards for Digital Orthophotos.

4. **Section I, Paragraph 3 (Page 1)**

**Text:** The LiDAR portion of this project is intended to compliment an existing data project by the US geological Survey to collect LiDAR data for Sussex County and portions of Kent County. It will result in processed Digital Elevation Models and 2-foot contour shapefiles for New Castle and Kent Counties.

**Questions:**

- a. Will the Sussex County the portions of Kent County LiDAR data be available as a bare earth model?

- b. What are the vintage of the LiDAR data for Sussex County and the portions of Kent County?

**Answers:**

- a. Yes  
b. The Sussex LIDAR is March 2005, the Kent LIDAR is March 2003.

5. **Section II B., Paragraph 1 (Page 3)**

**Text:** This data set shall be based on interpretation of the 2007 Aerial photography and shall be designed as an update of the 2002 land use/land cover data set. The proposal shall take into consideration the minimum mapping unit size of the existing data set (¼-acre wetlands and 2-acres uplands) and shall result in a meaningful time-series comparison with the 2002 data set.

**Question:** Is the “meaningful time-series comparison” referring to a second shapefile deliverable containing only those areas that have changed?

**Answer:** The final product should be a complete 2007 Land Use/Land Cover data set for the state of Delaware that also serves as an update to the 2002 data set.

6. **Section II C., Paragraph 3 (Page 3)**

**Text:** LiDAR/DEMs shall be processed for bare ground conditions with structures removed and 2-foot contour shapefiles created for each county.

**Question:** The term DEM is used as it relates to LiDAR. Should the term be DTM as it refers to topographic (contour) mapping?

**Answer:** DEMs are a deliverable. If DTMs are necessary to give the best result for topographic contours, additional information, including break lines, will have to be gathered by the contractor to create the DTMs.

7. **Question:** Is there LiDAR required for any New Jersey shoreline areas?

**Answer:** Only along that portion of the New Jersey coast included within the 12-mile circle that defines part of the Delaware boundary. Please refer to the answer to Question 3 in the 9/29/06 Questions and Answers document.

[http://www.state.de.us/planning/ortho\\_rfp/20060929\\_questions.pdf](http://www.state.de.us/planning/ortho_rfp/20060929_questions.pdf)

8. **Question:** Is there a requirement for full image tiles outside the State boundary lines?

**Answer:** The 2002 orthophotography project did include full tiles (the 2002 index tiles) across the state boundary. This was practical, given that the 2002 index tiles are 1-kilometer by 1-kilometer. The State would like some overlap, but does not require full tile overlap.

9. **Section II.B., Paragraph 1 (Page 3)**

**Text:** A general question regarding this section

**Question:** What types of products and/or information are to be extracted or produced from the CIR imagery? If feature extraction is anticipated, will the State share their radiometric and image quality parameters or algorithms at this time? Our intent is to ensure that the CIR imagery meets or exceeds your needs.

**Answer:** The Imagery will be used for general mapping purposes and may be used for specialized processes such as feature extraction and/or wetlands mapping. At this time, there are no specific parameters identified.

10. **Clarification on Question 3 in the 9/29/06 Questions and Answers document.**

**Text:** "The project should cover all of the area of the state..."

**Question:** Please clarify coverage requirement for aerial imagery and LiDAR. We understand the requirement for acquisition relative to the islands, bays and New Jersey shoreline. However, is it a requirement to collect imagery and/or LiDAR to the extent of the state line off-shore or do we end our acquisition at the shoreline?

**Answer:** On the Atlantic Ocean Coastline, it is not necessary to collect either imagery or LiDAR data to the off-shore extent of the official state boundary. Just off-shore will suffice. In the Delaware River and Bay, below the 12-Mile Circle boundary area, it is not necessary to collect either imagery or LiDAR data to centerline of the shipping channel, though features that lie just offshore (such as the Lewes Breakwaters) should be included.