**NAME:**

**DATE:**

**ESRM 433 or SEFS 533:**

**QUESTION 1: What year are the oldest projects from?**

**QUESTION 2: What year are the most recent projects? If there aren’t any from the current year, why the delay?**

**QUESTION 3: What lidar project did you look at? What company collected the ALS and when was the data acquired?**

**QUESTION 4: What is the map datum, projection, and units (feet or meters) of the acquisition in the technical report?**

**QUESTION 5: What is the map datum, projection, and units (feet or meters) of the data when downloaded from the Washington Lidar Portal?**

**QUESTION 6: How many acres were within the project? What is AOI and TAF?**

**QUESTION 7: What scanner was used to collect the data?**

**QUESTION 8: What was the targeted point density?**

**QUESTION 9: Give one statistic about the accuracy of the lidar.**

**QUESTION 10: What was used for Ground Control (Ground Check Points)?**

**QUESTION 11: What is one element, concept, or term in the report that you aren’t that familiar with?**

**QUESTION 12: INCLUDE A SCREEN SHOT OF ONE OF THE COOL IMAGES WITHIN THE REPORT AND CAPTION IT IN YOUR OWN WORDS.**

**QUESTION 13: Lidar wasn’t the only data collected during the flight. What other remote sensing data was collected?**

**QUESTION 14: Zoom into an interesting feature in the point cloud and submit a high quality screenshot of the feature and describe what it is.**

**QUESTION 15: What is the size of the file (memory)? What is the extent, and what coordinate system are those numbers in? What is the area covered by the ALS tile? How many points?**

**QUESTION 16: Lidar records the position of an object that reflects back sufficient laser energy to record a point, and how much of the energy of the original pulse was reflected back. How is it possible that this ALS point cloud data is full color? (answer is in the metadata pdf)**

**QUESTION 17: Zoom into the RGB full color ALS point cloud and submit a screenshot of some cool feature. Try using cloud compare as it has better visualization abilities.**

**GRADUATE STUDENT**

**Repeat questions 14 & 15 as well as a screenshot of your lascheck output (like the image included in this lab) for a different tile. Does your tile have RGB values? Include a map of the location you picked and make sure your tile you download is less than 50MB.**