

## NORTH CAROLINA GEODETIC SURVEY

Claude T Bowers Building  
4105 Reedy Creek Road  
Raleigh, North Carolina 27607  
(919)733-3836



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## Project Information

Prepared By: Watson Ross  
Project Name: 2016 LiDAR Phase 4 QC  
Sensor Info: GmAPD Geiger-mode  
Required Nominal Pulse Spacing: 0.35  
Vendor Name: Harris  
Units: US Survey Feet  
Percent of Extent Tolerance: Extents Not Checked  
Date of Aquisition: Start: 2/27/2016 Finish: 4/17/2016

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## Metadata Information

### Tile Index:

Filename: yadkin\_tiles.shp

Number of Polys: 0

### Intensity:

Tile Index Attribute: Not Specified

Data Filename: Not Specified

Number of Data Files Matching Attribute: Not Specified

### DEM:

Tile Index Attribute: Not Specified

Data Filename: Not Specified

Number of Data Files Matching Attribute: Not Specified

### LAS:

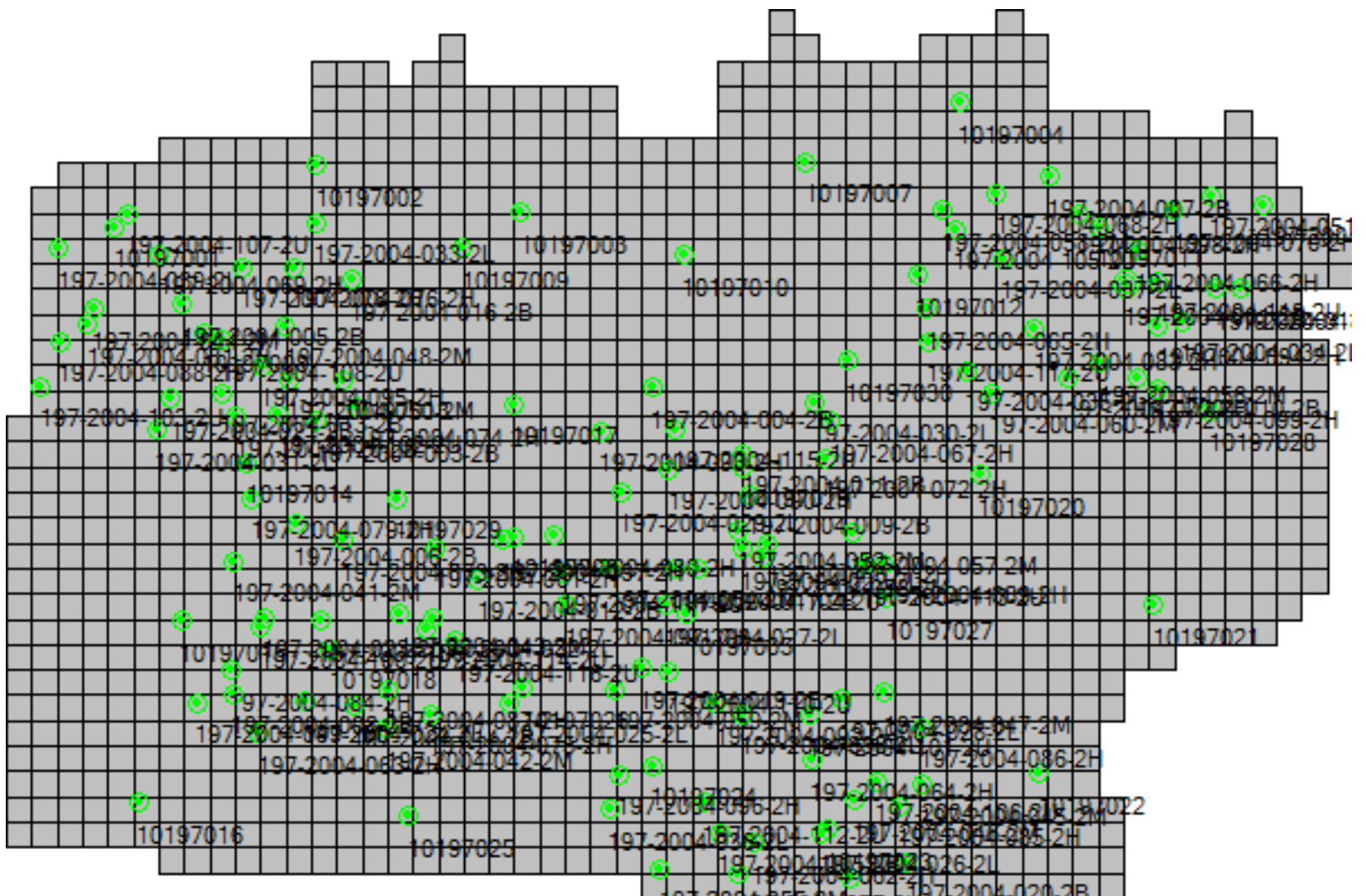
Tile Index Attribute: las\_tile

Data Filename: QL1

Number of Data Files Matching Attribute: 1870 out of 1870



## Tiled-Data Area





LiDAR Accuracy Assessment Summary

LC Type	# of Points	NVA	VVA	
LAS				
2B	21	0.786		
2H	39		0.815	
2L	19		0.648	
2M	20		0.680	
2U	51	0.403		
Total	150			

Units: US Survey Feet

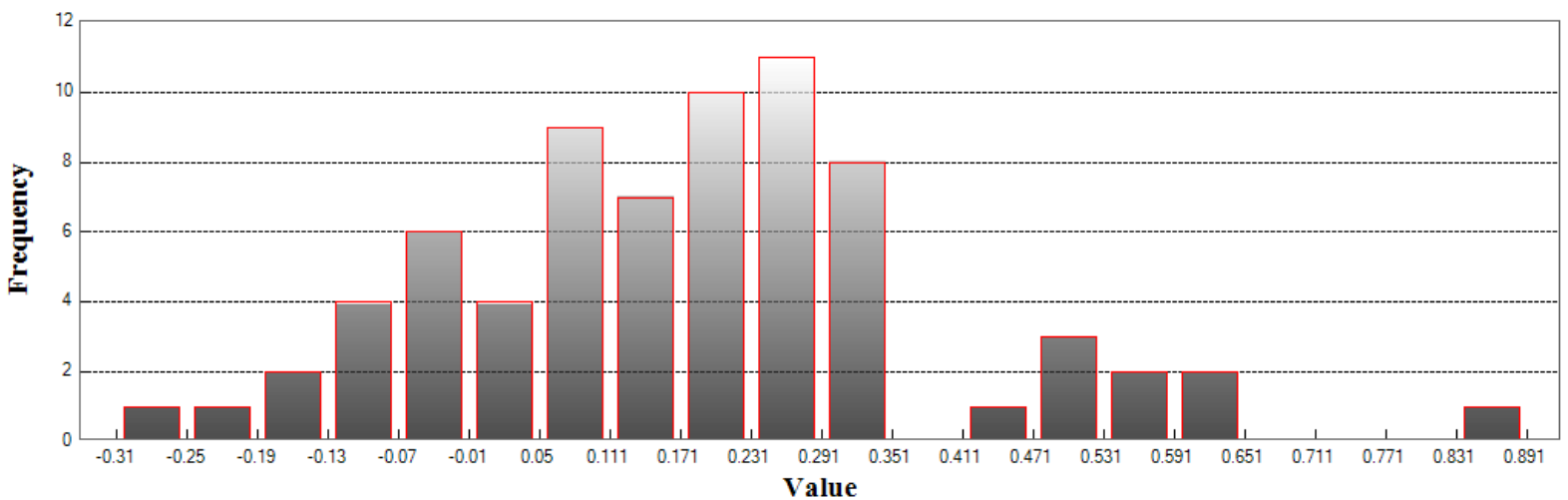


# LAS

## Nonvegetated Vertical Accuracy

LandCover Type: 2B, 2U  
Minimum DZ: -0.31  
Maximum DZ: 0.891  
Mean DZ: 0.181  
Mean Magnitude DZ: 0.468  
Number Observations: 72  
Standard Deviation DZ: 0.211  
RMSE Z: 0.277  
95% Confidence Level Z: 0.543  
Units: US Survey Feet

# Histogram



Min: -0.31  
Max: 0.891  
Number Of Bins: 20  
Bin Interval: 0.06

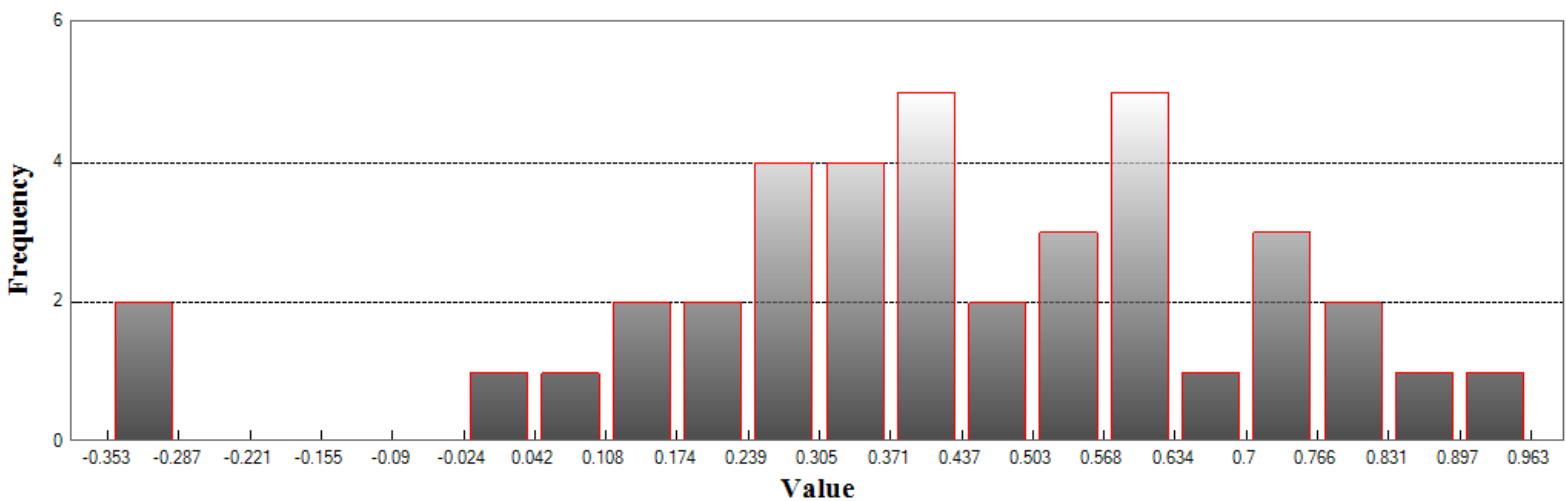


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2H  
Minimum DZ: -0.353  
Maximum DZ: 0.963  
Mean DZ: 0.423  
Mean Magnitude DZ: 0.678  
Number Observations: 39  
Standard Deviation DZ: 0.292  
RMSE Z: 0.512  
95th Percentile: 0.815  
Units: US Survey Feet

## Histogram



Min: -0.353

Max: 0.963

Number Of Bins: 20

Bin Interval: 0.066

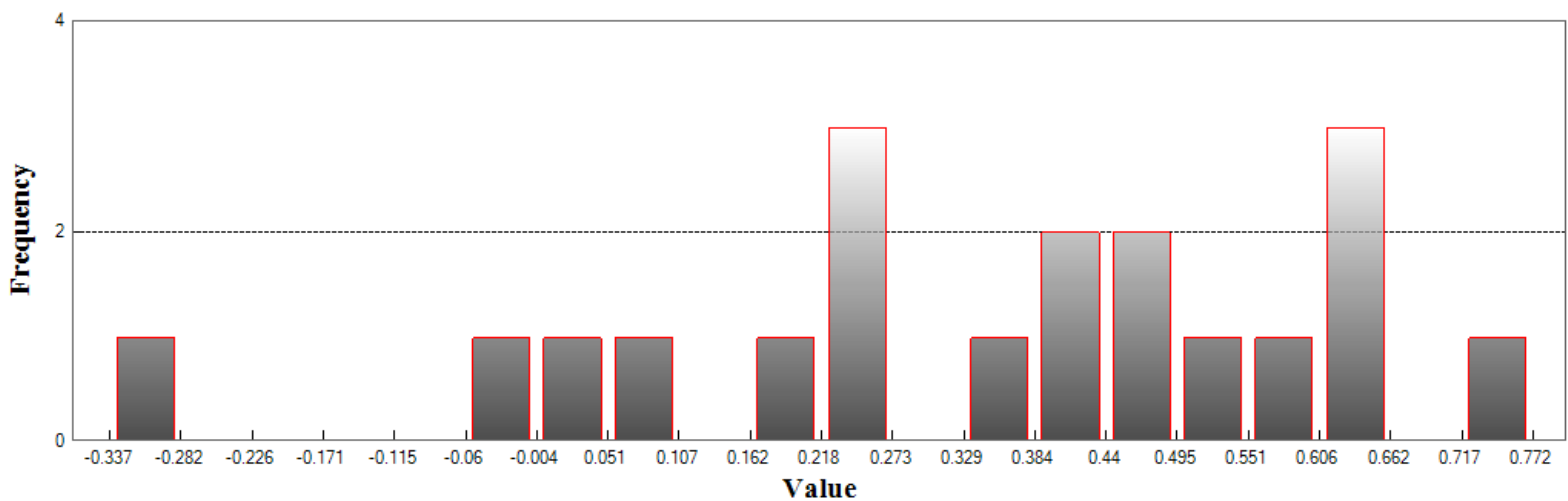


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2L  
Minimum DZ: -0.337  
Maximum DZ: 0.772  
Mean DZ: 0.34  
Mean Magnitude DZ: 0.616  
Number Observations: 19  
Standard Deviation DZ: 0.276  
RMSE Z: 0.433  
95th Percentile: 0.648  
Units: US Survey Feet

## Histogram



Min: -0.337

Max: 0.772

Number Of Bins: 20

Bin Interval: 0.055

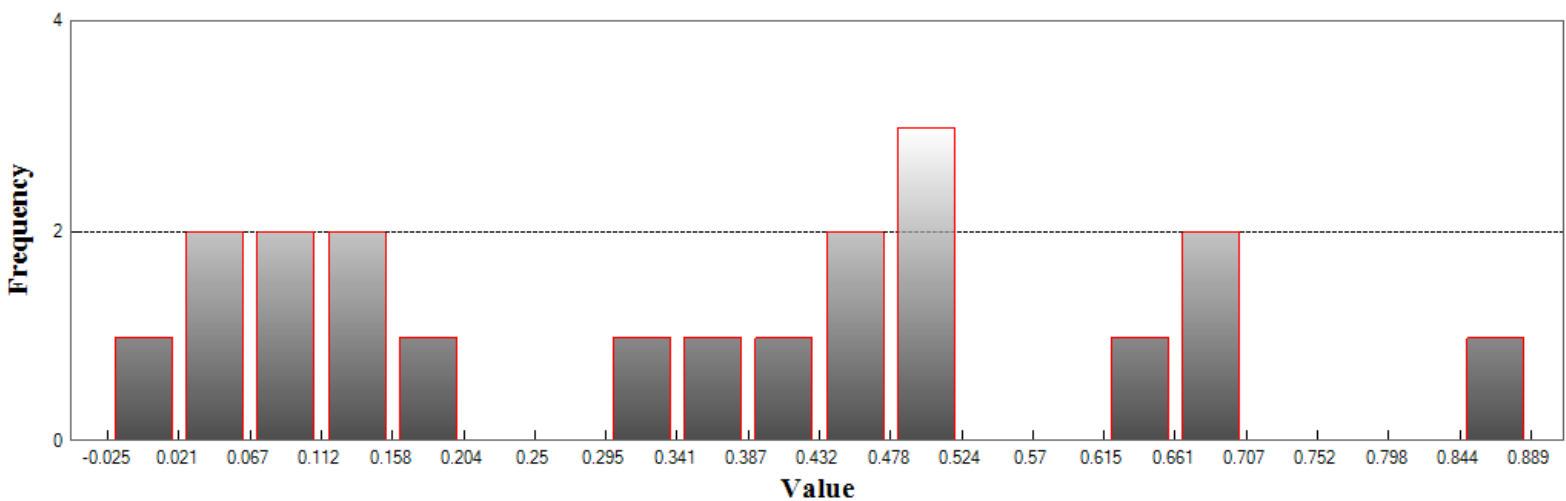


## LAS (Continued)

### Vegetated Vertical Accuracy

LandCover Type: 2M  
Minimum DZ: -0.025  
Maximum DZ: 0.889  
Mean DZ: 0.358  
Mean Magnitude DZ: 0.6  
Number Observations: 20  
Standard Deviation DZ: 0.255  
RMSE Z: 0.435  
95th Percentile: 0.68  
Units: US Survey Feet

## Histogram



Min: -0.025

Max: 0.889

Number Of Bins: 20

Bin Interval: 0.046