

SCOPE OF WORK

2024 H-GAC REGION LIDAR – Brazoria County

USGS Lidar Base Specification (LBS) Online: <https://www.usgs.gov/ngp-standards-and-specifications/lidar-base-specification-online>

Lidar Base Specification 2023 rev A: <https://www.usgs.gov/media/files/lidar-base-specification-2023-rev-a> (Sep 2023)

AREA OF INTEREST

- 1,561 mi²
- UTM Zone 15 or TX State Plane Zone 4

ACQUISITION

- Timeframe February-March 2024
- Light Detection and Ranging (LiDAR) data at
 - o Quality Level 1 (QL1) and >8 pls/m² point density
 - o Relative vertical accuracy at RMSE_z ≤ 0.06m
 - o Absolute vertical accuracy at RMSE_z ≤ 0.10m
- Conditions:
 - o Coastal tide coordination within +/- 2 hours from normal low tide
 - o Water bodies within their normal banks, no flooding or inundation

PRODUCTS & DELIVERABLES

- # tiles dependent on selected coordinate system / projection
- Metadata
- Bare Earth Digital Elevation Models (TIF)
 - o 0.5m resolution
 - o Hydro-flattened
- Classified point cloud (LAS 1.4)
- Hydro breaklines
- Survey point data
- Project Survey / QAQC Report