



Arc Surveying & Mapping, Inc.
5202 San Juan Avenue
Jacksonville, Florida 32210

SURVEYOR'S REPORT
JACKSONVILLE BEACH MONITORING SURVEY
Profiles R31 – R80 Duval County
Profiles R001 – R003 Nassau County
Survey No. 22-051

Report of Survey: Richard J. Sawyer, PSM, ACSM Certified Hydrographer, Arc Surveying and Mapping, Inc., 5202 San Jun Ave., Jacksonville, Florida - 32210.

Project: Jacksonville Beach Monitoring

Location: Jacksonville Beach, Duval County

Dates of Survey: May 16 thru June 06, 2022

Right of Access: There were no issues of access for this project.

Datum: Horizontal coordinates are referenced to the State Plane Coordinate System, Florida East Zone 0901, North American Datum of 1983 (NAD83). Vertical Datum referenced to North American Vertical Datum of 1988 (NAVD88).

Survey Site Control:

Designation	Northing	Easting	Elev.
R67	2164713.35	533512.77	10.40
Y324	2165067.19	533464.81	10.57
DUBE 37	2154788.90	535417.00	10.28

Field Procedures:

- **Topographic Component:** The survey was performed utilizing Real-Time Kinematic (RTK) GPS surveying procedures. Corrections were obtained from Trimble VRS Network. Positional accuracy verification was documented at the beginning and end of each day of survey data acquisition. Topographic data resolution did not exceed 25-feet and included all breaks along each profile range. Data was collected beginning at each profile origin and extended seaward along the historic grid bearing of each profile to wading depth.
- **Hydrographic Component:** Hydrographic data acquisition was performed utilizing a Odom Echo Trac Sounder operating at 200 kHz, Applanix Wavemaster Positioning and IMU. Bathymetric survey data collection was conducted during high tide periods. Offshore profiles extended to a minimum of 3000 feet offshore from the most landward offshore data point or to -30 feet (NAVD88), whichever was reached first.

Survey Accuracy: The vertical accuracy meets and/or exceeds GPS – derived heights (5cm) standard and was documented and verified through a check back to on site controlling reference monuments. The horizontal accuracy of the data meets and/or exceeds the Geospatial Positioning Accuracy Standards, Range X, (maximum of 3 feet) and was documented and verified through a check back to on site controlling reference monuments.

SURVEYOR CERTIFICATION: This survey meets the State of Florida’s Department of Environmental Protection, Office of Beaches and Coastal Systems, Regional Data Collection and Processing Plan (Section 2.01) and the Florida Standards of Practice for Surveying and Mapping (Chapter 472.027, Florida Administrative Code).

Richard J. Sawyer, ACSM Certified Hydrographer No. 194

Professional Surveyor and Mapper No. 6131

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED

SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER