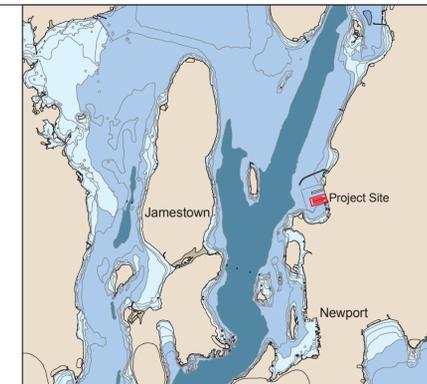


Red contours represent bathymetric contours where bottom elevations are at or higher (shallower) than the maximum approximate vessel draft of 32 feet at Mean Lower Low Water.



Vicinity Map (N.T.S.)

**Scale**



1 inch equals 80 feet

**NOTES**

1. The hydrographic survey information depicted on this drawing represents the results of surveys performed by SeaVision Marine Services LLC on March 3, 5, 6, and 7, 2006 and can only be considered to indicate the general condition existing at that time.
  2. The hydrographic survey data surrounding the moored aircraft carriers was collected using a Trimble DSM 132 Differential Global Positioning System and an Innerspace 455 High Frequency (200 kHz) echosounder. Bar check sound velocity calibrations were performed using an Innerspace 443 Sound Velocity Profiler. Data has been collected in accordance with U.S. Army Corps of Engineers standards for general condition hydrographic surveys.
  3. The hydrographic survey data under the moored aircraft carriers was collected using a SeaEye Falcon Remote-Operated Vehicle (ROV) with an inertial navigation system and a doppler velocity log. The soundings have been collected using the altitude of the ROV above the bottom from a sector-scanning sonar, the xy position of the ROV from the inertial navigation system, and draft from a high-accuracy pressure sensor.
  4. Horizontal positioning is expressed in feet and reference the North American Datum of 1983, Rhode Island State Plane.
  5. Soundings are expressed in feet and reference the NOAA Mean Lower Low Water datum.
  6. Tides at this project site were measured at NOAA Station 8452660 Newport, Narragansett Bay, RI, located in the marina at Naval Station Newport, RI.
  7. Approximate under-keel clearance at Mean Lower Low Water has been calculated by comparing the maximum observed draft of either hull with the observed elevations of the bottom throughout the survey area. Care should be taken when utilizing this drawing.
- Background: NOAA Vector Electronic Navigation Chart 13223

**Hydrographic Survey  
Pier 1 - Naval Station Newport, RI**

Client: Global Associates / NISMO

**Figure 5 - Hydrographic Survey  
Under Keel Clearance**

SeaVision Figure 05-008-05  
Drawn by: J. Snyder  
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