

North Port Security Barrier Relocation to Land Water Interface, NSB Kings Bay, GA

Background

This project will occur at Naval Submarine Base (NSB), Kings Bay, Camden County, GA. The Base covers approximately 16,000 acres and is the U.S. Atlantic Fleet's home port for submarines. Due to the presence of these submarines, the waterfront area at NSB Kings Bay is restricted and physical security is paramount. Physical security is concerned with measures designed to safeguard personnel, prevent unauthorized access to the installation, and to protect against espionage, sabotage, damage, and theft.

Major revision to Navy and DoD security regulations has significantly increased requirements at the NSB Kings Bay Waterfront Restricted Area. The new regulations were developed in response to the terrorist attacks of September 11, 2001 and attack on the USS Cole in October 2000. To comply with these new regulations, the Navy recently completed the Enclave Fencing System to provide a continuous physical security barrier around the Waterfront Restricted Area to protect sensitive assets at NSB Kings Bay.

The existing Port Security Barrier (PSB) at the Northern entrance will be moved further north to connect to the recently completed land water interface (P636; Figure 1). The desired relocation timeframe is winter 2019 (February-March) to late summer 2019 (August – September). An Environmental Assessment was completed in 2012. Initial installation of the North PSB was permitted under USACE Permit Number 200116840. Additionally, a Federal Consistency Review was completed and received from Georgia DNR June 13, 2012.

Port Security Barrier Relocation

As part of the Security Enclave System, the North PSB requires relocation to the newly constructed Land-Water Interface Terminals (Figure 2 and 3). The contractor will relocate 33 of the existing north PSB units (approximately 1650 ft total length) to the new location using a barge mounted crane. A detailed description of the Port Security Barrier design submitted as part of the original installation permit in 2002 is attached to the application package (PSB Design Summary).

RECEIVED

DEC 12 2018
GA DNR / HMP

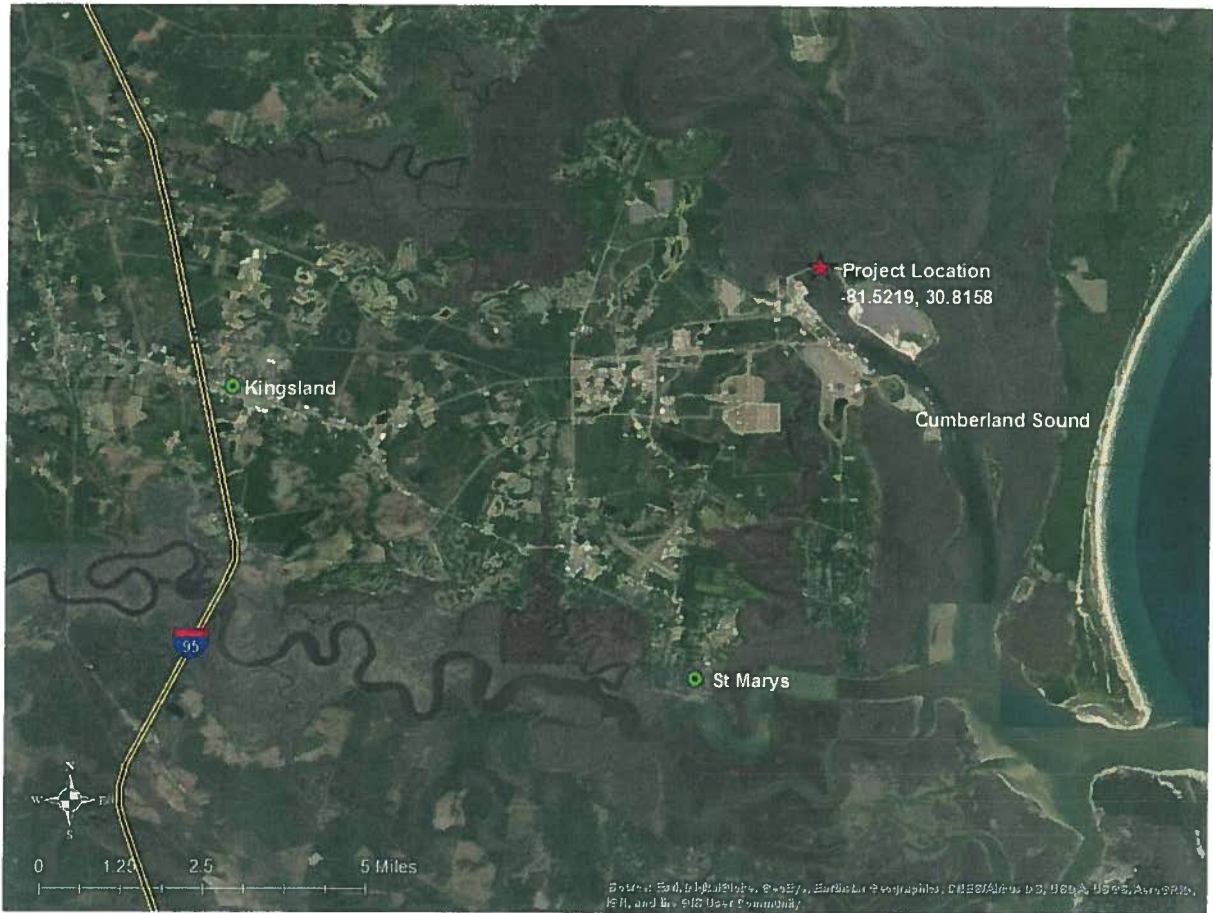


Figure 1 – Project Location



Figure 2 – PSB Relocation – Overhead View

RECEIVED
DEC 12 2018
GA DNR / HMP

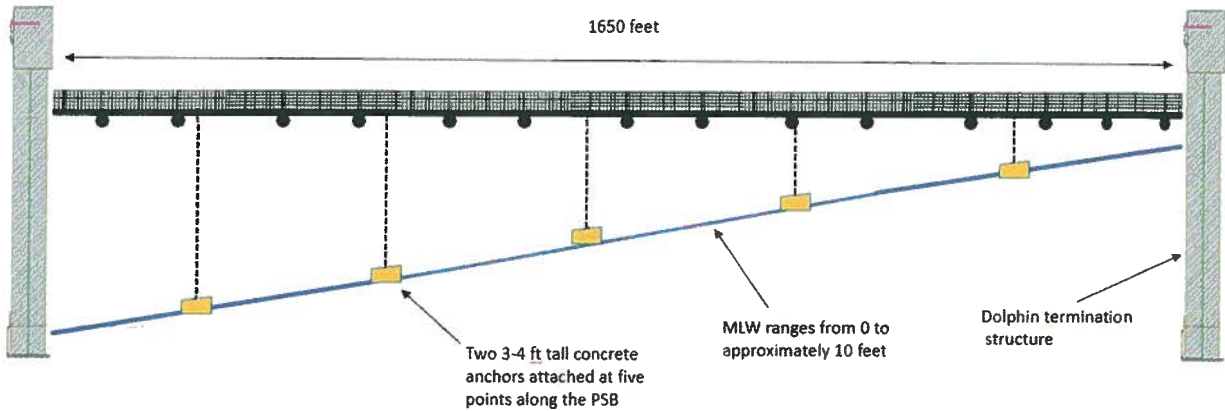


Figure 3 – PSB Relocation – Cross Section View

Coordinates for each North PSB deadweight anchor point are provided in table 1. The MLW water depth for most of the site varies between 0 and 10 feet (Figure 4). The riser shall be sized based on water depth readings at each mooring location.

Table 1 – Design Mooring Coordinates

Item	Latitude	Longitude
Anchor A1	30° 49' 00.120"	81° 31' 24.087"
Anchor A2	30° 48' 57.862"	81° 31' 23.754"
Anchor B1	30° 49' 00.102"	81° 31' 20.691"
Anchor B2	30° 48' 57.844"	81° 31' 20.357"
Anchor C1	30° 49' 00.154"	81° 31' 17.180"
Anchor C2	30° 48' 57.879"	81° 31' 17.075"
Anchor D1	30° 49' 00.197"	81° 31' 13.784"
Anchor D2	30° 48' 57.922"	81° 31' 13.679"
Anchor E1	30° 49' 00.241"	81° 31' 10.387"
Anchor E2	30° 48' 57.966"	81° 31' 10.283"
AS-built Shore Termination (ST-1) Dolphin	30° 48' 58.845"	81° 31' 27.397"
As-built Shore Termination (ST-2) Dolphin	30° 48' 59.006"	81° 31' 08.585"

RECEIVED

DEC 12 2018
GA DNR / HMP

New PSB terminations will be fabricated and installed at the Land Water Interface terminal points (Figure 2 and 3; Table 1). The new shore terminations consist of a concrete sinker resting at the sea floor at the base of the existing PSB dolphin structure (Figure 5). The sinker is connected with a chain to a custom installed padeye on the dolphin. The chain length will be sized to keep it taut to allow the PSB unit to ride up and down the chain with the changing tide. Figure 4 shows the dolphin termination design.

All activities will be performed in a manner to minimize turbidity in the bay. All work performed during construction will be done in a manner to prevent interference with any legitimate water uses. SUBASEINST 11015.5E Manatee Protection Measures will be adhered to during all in-water construction.

RECEIVED

**DEC 12 2018
GA DNR / HMP**

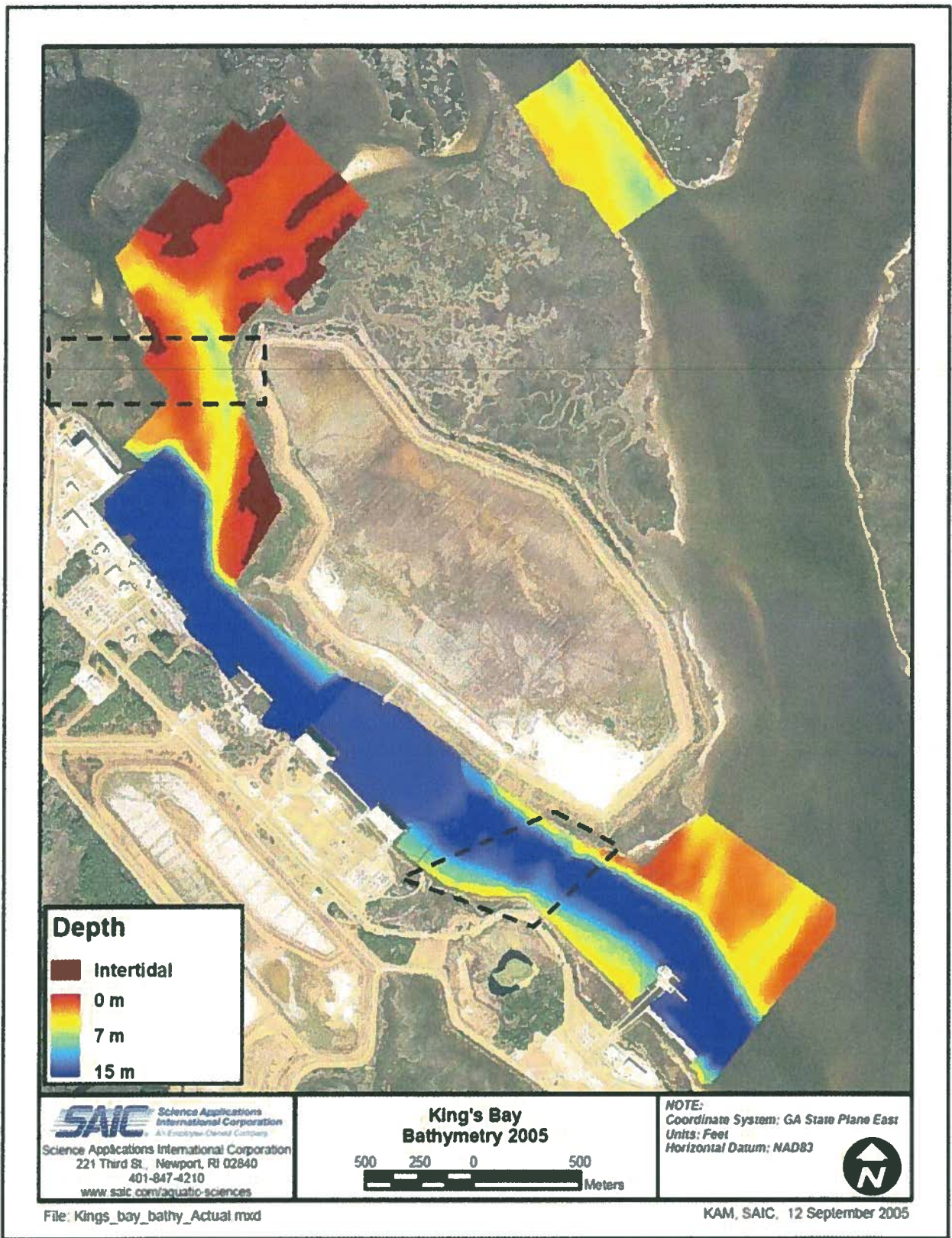


Figure 4 – Project Area Water Depth

RECEIVED
 DEC 12 2018
 GA DNR / HMP

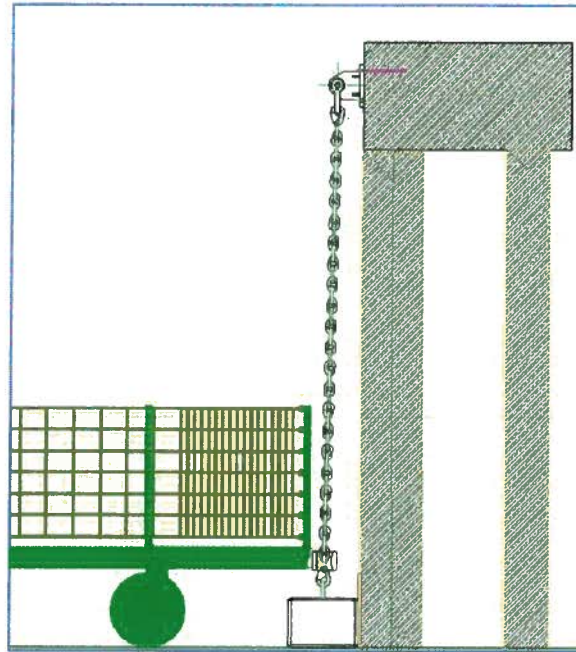


Figure 5 - Dolphin Termination Design

RECEIVED
DEC 12 2018
GA DNR / HMP