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FINAL TECHNICAL MEMORANDUM SUMMARY AND RESULTS OF DIGITAL GEOPHYSICAL  
MAPPING SURVEY ACTIVITIES FOR EXPLODED ORNDANCE 002 ( UXO 0002) MUNITIONS  
LOADING PIER COMPLEX PIERS 1 AND 2 NWS EARLE NJ

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CH2M HILL

# Summary and Results of Digital Geophysical Mapping Survey Activities for UXO 0002 Munitions Loading Pier Complex, Piers 1 and 2 Naval Weapons Station Earle, Sandy Hook Bay, Monmouth County, New Jersey

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## Introduction

This Technical Memorandum documents the digital geophysical mapping (DGM) investigation activities performed and presents the findings of the underwater DGM survey completed between March 24, 2014, and April 14, 2014, at Unexploded Ordnance (UXO) Site 0002 (UXO 2) in the vicinity of the munitions loading pier complex (Piers 1 and 2), located at Naval Weapons Station (NWS) Earle, Sandy Hook Bay, Monmouth County, New Jersey. The objective of the underwater geophysical investigation activities was to supplement the Preliminary Assessment (PA) and further assess the potential presence or suggested absence of munitions and explosives of concern (MEC), in particular discarded military munitions (DMM), up to 250 feet from Piers 1 and 2 at UXO 2. The results of this investigation will be used to support future investigation activities and to locate and select anomalies that may be indicative of DMM for further inspection and identification during subsequent Site Inspection (SI) activities.

The underwater DGM investigation activities and this Technical Memorandum have been prepared on behalf of the Department of the Navy (Navy), under the Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic Comprehensive Long-term Environmental Action – Navy Contract 62470-11-D-8012, Contract Task Order WE06, for submittal to NAVFAC Mid-Atlantic, the United States Environmental Protection Agency, and the New Jersey Department of Environmental Protection. The work was conducted in accordance with the *Final Site Inspection Work Plan and Munitions and Explosives of Concern Quality Assurance Project Plan UXO 0002, Munitions Loading Pier Complex, Naval Weapons Station Earle Sandy Hook Bay, Monmouth County, New Jersey* (CH2M HILL, 2014).

## Site Description and History

NWS Earle is located in Monmouth County, New Jersey, approximately 47 miles south of New York City (**Figure 1**). The station consists of two areas: the 10,160-acre inland Main Base (Mainside area) and the 706-acre Waterfront area, which includes the NWS Earle Munitions Loading Pier Complex (**Figure 2**).

The Mainside area is approximately 10 miles inland from the Atlantic Ocean, in Colts Neck, Howell, and Wall townships and Tinton Falls Borough. The surrounding area contains agricultural land, vacant land, and low-density housing. The Mainside area consists of a large, undeveloped portion of land associated with ordnance operations, and storage; this portion of the Base is encumbered by explosive safety quantity

distance arcs that restrict use and development. Other land use in the Mainside area consists of residences, offices, workshops, warehouses, recreational space, open space, and undeveloped land.

The Waterfront area, which is approximately 10 miles north of the Mainside area (**Figure 1**), is in Middletown Township; the pier complex is within the Monmouth County Bayshore Region. The Bayshore is situated on Raritan Bay and the Atlantic Ocean and is close to New York City and several New Jersey attractions. The Monmouth County Bayshore Region is characterized by traditional downtowns and dense residential neighborhoods.

## UXO 2

Ammunition and military supply ships are homeported and resupplied at the NWS Earle Munitions Loading Pier Complex. Sandy Hook Bay is on the north shore of the New Jersey coast, west of the Sandy Hook peninsula, and borders the communities of Leonardo and Atlantic Highlands to the east and Belford to the west. The Sandy Hook Channel entrance leads to Terminal Channel and the NWS Earle Munitions Loading Pier Complex. Terminal Channel, entered from Sandy Hook Channel approximately 1 mile west-southwest of the northern tip of Sandy Hook, leads to a turning basin and three deepwater piers (Piers 2, 3A, and 4) and one shallow water pier (Pier 1) at the NWS Earle Munitions Loading Pier complex (**Figure 2**). The current loading pier complex stretches 2.9 miles into Sandy Hook Bay.

The areas around the Munitions Loading Pier and the Terminal Channel are restricted, as defined in the Code of Federal Regulations (CFR), Title 33, Paragraph 334.102. No unauthorized vessels are permitted to enter the restricted area at any time, and vessels are only authorized to cross the Terminal Channel when there are no Navy vessels transiting the channel.

UXO 2 consists of the areas surrounding the inactive piers (Piers 1 and 2) and active piers (Piers 3A and 4) of the Munitions Loading Complex (**Figure 2**). The PA recommended that an SI be performed only for the inactive portions of UXO 2 (Pier 1 and 2 areas) to further evaluate the potential presence or suggested absence of DMM at the site. Piers 3A and 4 are not recommended for further investigation until munitions activities have ceased. Active pier sites used for munitions-related activities are typically not investigated until they are no longer in use or until the use of the piers is suspected of causing contamination at other areas. In addition, Piers 3A and 4 are not anticipated to result in contamination of the inactive pier areas because current and future operations at Piers 3A and 4 are subject to strict munitions handling procedures, munitions documentation standards, and safety precautions/recovery of items inadvertently dropped or otherwise mishandled. As discussed in the PA report (CH2M HILL, 2012), Piers 3A and 4 are also believed to be the least likely to contain munitions, as munitions from the Pier 3 area were likely removed during the Pier 3A construction and Pier 4, which was constructed in 1990, has not been in service as long as the other piers and has been subject to current munitions loading operating and safety procedures for the entirety of its use. The areas around Piers 3A and 4 are also routinely dredged in order to maintain an operational depth of -45 feet mean lower low water (MLLW) for pier use. Additionally, the Tier 1 sediment transport evaluation also suggests mobilization of intact munitions around the piers is unlikely. Therefore, because active pier sites used for munitions-related activities are not typically investigated and to prevent impacts to facility mission, the active piers (Piers 3A and 4) are not included in the investigation described herein.

Additional details on UXO 2 are provided within the UXO 2 PA Report (CH2M HILL, 2012).

### Pier 1

The initial pier complex consisted of Trestle 1 and Pier 1 (commonly referred to as the Navy Barge Pier). The pier and trestle were constructed of wooden piles and a concrete surface. Pier 1, constructed in 1943, originally measured 722 meters (2,370 feet) in length by 19.5 meters (64 feet) in width and was connected to Trestle 1; Trestle 1 extended the pier approximately 1.4 miles (1,445 meters or 4,742 feet) in length and 10.4 meters (34 feet) in width into Sandy Hook Bay. Following completion of the initial pier complex, the need for a larger deep-water pier to support the Army and Navy was identified. In response, Pier 1 was expanded further into Sandy Hook Bay by approximately 76.2 meters (250 feet). Currently, Pier 1 runs

parallel to Trestle 1A and is approximately 769 meters (2,229 linear feet) in length and approximately 18.3 meters (60 feet) in width. Access to the pier is blocked by a physical barrier, and the pier is no longer used for munitions loading.

## Pier 2

Currently, Trestle 1A leads to Pier 2 and Berths 2N1 and 2N2 on the west and east sides of the pier, respectively. Initially, Old Trestle 2 (845 meters [2,772 feet] long by 10.4 meters [34 feet] wide) was the transport to Pier 2. Constructed in 1944, Pier 2 measures 212 meters (695 feet) in length by 27.4 meters [90 feet] in width and is extended by an approximately 79.2 meter (260 feet) long walkway (**Figure 2**). Berth lengths on Pier 2 are 183 meters (600 feet). A 152-meter-long (500-foot-long) elevated loading platform is located along each side of the pier. Pier 2 was previously used as the Navy deep water pier for cargo and munitions loading and was capable of accommodating two cruisers, destroyers, or merchant ships (CH2M HILL, 2012). Pier 2 is no longer used for cargo or munitions loading. Currently, Pier 2 is still accessible by Base personnel but is not in use.

## Previous Investigations

A PA was completed in November 2012 to evaluate the potential for MEC, including UXO, DMM, and munitions constituents, to be present at UXO 2 (CH2M HILL, 2012). Based on the findings of the PA report, there is potential for DMM to have been dropped or released from munitions loading/unloading operation and from the explosion of the USS Solar at UXO 2 in 1946. At the time of the explosion the USS Solar was reported to contain depth charges, known as hedgehogs, and anti-aircraft ammunition, the largest of which were three and a half inch shells. Records of the exact number of the munitions items aboard the ship at the time of the explosion or those recovered following the explosion were not identified during the records search of the PA nor through any additional research to-date and is assumed to be unavailable. The PA recommended an SI be performed for the inactive portions of UXO 2 (Pier 1 and Pier 2 areas) to further evaluate the potential presence or absence of DMM at the site.

Subsequent to the PA, a side-scan sonar (SSS) and bathymetric survey of Piers 1 and 2 was completed in April 2013 as an initial data gathering to determine water depths and locate potential navigational hazards and obstructions that may impact the future investigation activities. The results of the survey identified depth of water and seafloor contours adjacent to the piers. In addition, the survey identified 301 targets representing objects extending above the seafloor that could be potential obstructions for future investigation activities. A summary of the investigation and results of the SSS and bathymetric survey were documented in a technical memorandum prepared following the surveys (CH2M HILL, 2013).

## Summary of Field Activities

### Site Preparation

Site preparation activities included pre-mobilization planning meetings and land surveying activities to establish four temporary survey control points in the vicinity of the investigation area. Pre-mobilization planning meetings included coordination and planning with the Navy Remedial Project Manager, facility personnel, and field team members.

Land surveying services were provided by BANC3 Engineering, of Princeton, NJ. BANC3 established the temporary survey control points (1 survey point at both Pier 1 and Pier 2 and 2 survey points at the Leonardo State Marina in Leonardo, NJ) on March 20, 2014. The locations of these control points are shown on **Figure 2**. The land surveying report is included as **Attachment 1**.

### Digital Geophysical Mapping

The DGM survey was conducted by NAEVA Geophysics and 3D Geophysics using an underwater towed sensor array (UTSA) comprised of an EM61-FLEX3 electromagnetic induction sensor array coupled with RTK GPS. CH2M HILL provided oversight of survey activities. The DGM survey was conducted between March 24, 2014 and April 14, 2014. Daily operations were based out of the Leonardo State Marina. The DGM was conducted under a single mobilization, however poor sea states and equipment maintenance activities

resulted in 5 days of down time during the investigation (in addition to planned work breaks and site setup/breakdown activities).

The DGM survey activities were sequenced in a manner to minimize any exclusion zone conflicts with the base operations and munitions loading activities at the active piers (Piers 3A and 4). The DGM was completed around Pier 2 first, while no ships were berthed at Piers 3A and 4, in order to avoid potential disruption of pier operations. The DGM around Pier 2 required 5 days to complete (excluding downtime) and covered approximately 14 acres. The DGM sensor was maintained at an average height of 0.8 m (2.6 feet) above the sediment during the DGM around Pier 2. The DGM around Pier 1 also required 5 days (excluding downtime) to cover approximately 20 acres. The DGM sensor was maintained at an average height of 0.8 m (2.6 feet) above the sediment during the DGM around Pier 1. The areas covered by the DGM for Piers 1 and 2 are presented on **Figures 3 and 4**, respectively.

The DGM was executed in accordance with the MEC QAPP (CH2M HILL, 2014). The survey was conducted along parallel survey lines with a nominal spacing of 1.25 meters (4.1 feet) in an attempt to provide an effective 100 percent coverage of the accessible portions of UXO 2 (Pier 1 and Pier 2 areas). Two RTK GPS receivers were used during DGM to measure the position and heading of the boat and array. The DGM data was collected in the area starting immediately adjacent to the piers extending out to approximately 250 feet from the sides of the piers.

As previously noted, a SSS and bathymetric survey were conducted prior to the DGM survey to identify potential obstructions on and above the seafloor as well as water depths. The 301 SSS targets varied in size and height off the seafloor and, as a result, the ability to collect data at and around each target varied. Targets that were deemed safe to navigate around or over were included as part of the survey, but targets that presented an unacceptable risk to the boat crew and DGM equipment were avoided (these SSS targets are also of a size and shape that are not representative of potential MEC items). Furthermore, some of the SSS targets were in larger areas that were deemed unsafe for the survey crew to collect data due to extensive obstructions protruding from the seafloor or proximity to the piers (such as the Alexander Hamilton wreckage, a gang-plank, and miscellaneous pipes or linear objects). Locations where data could not be safely collected due to obstructions or navigational hazards are not included in the data set. For areas where data could be safely collected, 98% of the data along the respective transects were within 1.5m of the seafloor, as required by the Measurement Performance Criteria (see Worksheet 12-1a of the SI Work Plan/MEC-QAPP) Metadata from the DGM survey activities were logged using a Panasonic Toughpad tablet running CH2M HILL's Munitions Response Site Information Management System (MRSIMS) and uploaded on a daily basis to the MRSIMS database. MRSIMS is a cradle-to-grave data management system that allows for data entry using standardized forms, systematic QC of the information entered, management of information and results throughout the project life cycle in a database, and generation of portable document format (PDF) reports that accompany the data deliverables.

Additional details on the instruments used and data collection procedures are provided in NAEVA Geophysics Geophysical Investigation Report, included as **Attachment 2** of this Technical Memorandum.

### Digital Geophysical Mapping Equipment Verification

The EM61-FLEX3 towed array system was initially verified to be operating properly through the QC tests outlined in the MEC QAPP (CH2M HILL, 2014). A "modified" instrument verification strip (IVS) was established using a 2.3-kilogram (5-pound) dumbbell weight placed at an RTK-GPS-recorded position in the bay. The modified IVS was used daily to confirm repeatability of sensor response and target positioning. Details on the QC testing and modified IVS are provided in **Attachment 2**. Additional Quality Assurance (QA) was performed by CH2M HILL during data review to confirm that the procedures set forth in the MEC QAPP were being followed by the DGM field team and that the measurement performance criteria were continually being met. The ongoing QA/QC approach was meant to verify that the data measurement performance criteria and data quality objectives were achieved.

QA performed as part of CH2M HILL's data review throughout the DGM survey involved the following:

- Review of the results from the field QC tests
- Positional accuracy from the IVS test for the EM61-FLEX3
- Review of data leveling, drift correction, and other data processing steps
- Evaluation of the survey lane spacing for compliance with the MQOs in the MEC QAPP
- Evaluation of down-the-line data density (spacing between individual data points) for compliance with the MQOs in the MEC QAPP

Based on the results of the QA/QC performed, the data were acceptable and within the established performance metrics (i.e., the equipment passed the QC tests). As defined in the MEC QAPP (CH2M HILL, 2014), the following metrics were evaluated to ensure the data were being collected as planned:

- **GPS positioning accuracy** - The positional error at known monuments was not to exceed 10.2 cm (4 in). The average measured variance from the location used was 5.5 cm (2.16 in).
- **Vertical positioning** – The sensor height above seafloor was to be within 1.5 m (5.0 ft) of the bottom for 98% of the data. The average sensor height above the seafloor for Piers 1 and 2 was 0.8 m (2.6 ft). Exceedances of the 1.5 m height were due to hazard deviation, localized depressions or trenches, and changes in sea state conditions which were considered acceptable in accordance with the MEC QAPP and were removed from the dataset.
- **Horizontal positioning precision** - The horizontal positioning were to be accurate enough to allow reacquisition and provide repeatable readings that were within 2.0 m (6.56 ft) of each other. The average horizontal offset was determined to be approximately 0.3 m (1 ft).

### Side-scan Sonar Survey West of Pier 1

While DGM activities were being conducted to the west of Pier 1, the field crew encountered items in the water column that were not anticipated based on the results of the April 2013 SSS survey. Therefore, in order to ensure the safety of the field crew during the DGM survey and to minimize the potential for damaging the DGM equipment, additional SSS data were collected. The additional SSS data were collected by NAEVA/3Dg on April 11, 2014 using an Edgetech 4125 side-scan sonar system over an evenly spaced transect pattern immediately to the west of Pier 1 (**Figure 4**). All transects were spaced 7.6m (25ft) apart extending from the western edge of Pier 1 to the eastern side of Trestle 1A. SSS data were collected at both 400 and 900 kHz, which provided the imaging resolution required to meet the objective. Transect line spacing allowed for 100% redundancy of the SSS data. The additional SSS survey activities required approximately a half day to complete. The additional SSS data collected as part of this DGM survey are included in **Attachment 2**.

## Investigation Results

### Digital Geophysical Mapping Survey

Overall, 2,529 geophysical -anomalies were located using the EM61-FLEX3 system at UXO 2 (Pier 1 and Pier 2 areas); 1,736 anomalies were selected around Pier 1 (**Figures 5**) and 793 anomalies were selected around Pier 2 (**Figures 6**). When analyzing the data from the DGM survey the geophysical anomalies were classified as one of ten target types based on the data, field observations, and analysis of the data. The ten potential target types are identified as described below and a summary of the UXO 2 results is provided in **Table 1** (Note: the locations of each selected target, by type, are presented in greater detail on the Plates included in **Attachment 2**):

- **Point Target** – a target with a clear magnetic response that indicates it is the result of a single source. These anomalies do not fall into any of the other target categories.

- **Culture Target** – a target with a visible non-MEC related item observed at the location that is known to generate a DGM anomaly, as noted by the field crew at the time of the DGM survey (for example, a concrete piling with rebar that is protruding through the water column).
- **Suspected Culture Target** – a target that is determined by the data processor to possibly be near a culture item, however not close enough to definitely be labeled “culture target.”
- **Target selected from data above 1.52 meters (5 feet)** - a target that is identified from data collected at a distance greater than the allowable 1.52 m (5 ft) from the sediment surface due to variations in the elevation of the seafloor (i.e., abrupt elevation changes, localized low points, and other similar site conditions).
- **Hazard deviations** - a target that is identified in a location where the DGM equipment had be raised above the 1.52 m (5 ft) height requirement due to an underwater hazard imaged on the SSS data or observed real time by the field crew.
- **Anomaly Selected Below Threshold** – a selected target that is below the detection threshold established for the project area. These selections are made where the local ambient noise is low enough to allow a selection based upon the analyst’s qualitative judgment and the relationship between time gate channels indicates valid decays.
- **Data Spike (Terrain Response, Ambient Noise, Poor Decay)<sup>1</sup>** - a response above the detection threshold that is believed to be a result of instrument noise. These targets are identified by their character (spatial distribution and decay response) as being unlikely due to a metal source.
- **Saturated Response Area (SRA<sup>2</sup>)** - a large area (minimum of 3.1m [10ft] x 3.1m [10ft]) that is densely saturated with multiple targets.
- **Anomaly Selected within SRA** – recognizable "point targets" within a SRA.
- **SSS target that correlate with a DGM anomaly** - DGM targets that have a SSS target at the same location (i.e. within 2 m of a SSS target). These DGM targets are believed to be on or protruding from the sediment surface and are likely visible without intrusive activities.

TABLE 1

**Summary of Identified Anomalies by Type**

Target Type	Target Type Description	Number of Targets at Pier 1a	Number of Targets at Pier 2a	Total Number of Targets <sup>a</sup>
1	Point	1,443	499	1,942
2	Culture	0	0	0
3	Suspected Culture	12	0	12
4	Target selected from data above 1.52 meters (5 feet)	0	0	0
5	Hazard Deviations	0	0	0
6	Anomaly Selected Below Established Threshold	23	8	31
7	Data Spike (Terrain Response, Ambient Noise, Poor Decay)	112	267	379
8	SRA	3	1	4

<sup>1</sup> All responses above the detection threshold require explanation to support the validity and completeness of the data. Therefore, these targets are included to document that they have been assessed.

<sup>2</sup> SRAs are likely to contain significant amounts of small to medium pieces of metal, or large individual pieces of metal. Distinguishing all individual anomalies from within these areas is not possible, as the geophysical responses from larger items will mask the responses from smaller items.

TABLE 1  
Summary of Identified Anomalies by Type

Target Type	Target Type Description	Number of Targets at Pier 1a	Number of Targets at Pier 2a	Total Number of Targets <sup>a</sup>
9	Anomaly selected within SRA <sup>b</sup>	18	2	20
10	SSS target that correlate with a DGM anomaly <sup>c</sup>	125	16	141
	Total	1,736	793	2,529

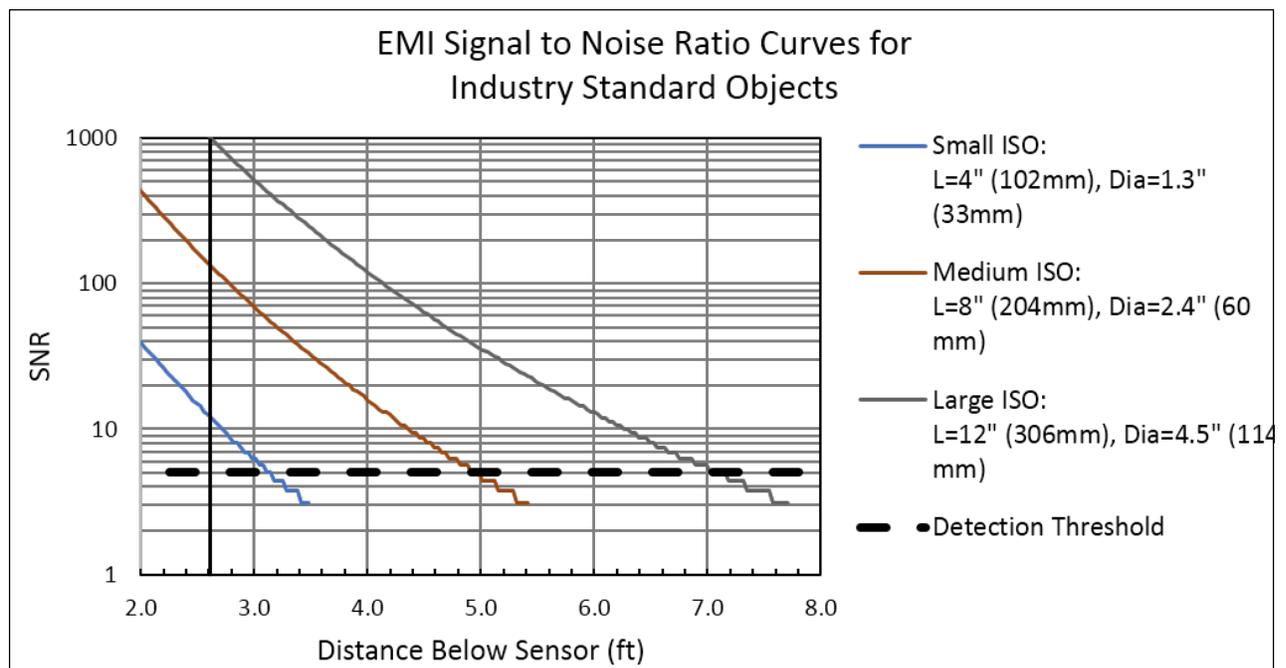
## NOTES:

<sup>a</sup> For targets types with a number of "0" no targets were identified but the type is included in the table as these types were included when analyzing the DGM data. The locations of the targets are presented, by type, in the Plates included in **Attachment 2**.

<sup>b</sup> Where possible, individual anomalies were selected with the SRAs when a peak of the signal could be determined. These anomalies are still not fully distinguishable from the surrounding metal sources, but they have been selected to indicate the peak responses within the SRAs in the event that future actions require investigations within these areas.

<sup>c</sup> DGM data was not collected over 100% of the site (due to safety concerns and to avoid the USS Alexander Hamilton wreckage). Not all of the SSS targets were covered during the DGM survey. Of the 301 targets identified during the original SSS, 156 were within the DGM investigation area (135 SSS targets at Pier 1, 21 SSS targets at Pier 2). As such, it can be said that based on the results of the DGM survey, 15 of the SSS targets are within the survey area and are non-metallic. Therefore, these 15 non-metallic sonar items are not a concern. However, the remaining 141 targets that were identified by the sonar and also have a metallic response from the DGM survey are likely metallic items sitting on or protruding from the sediment surface. The remaining 145 sonar targets are located outside of the surveyed area where DGM data was collected.

Although there are many variables involved in detection of anomalies (size, orientation, condition, distance from sensor, etc.), the size of objects potentially detected can be estimated using known surrogate response data. Detection of metallic objects by the sensor is a function of the electro-magnetic induction (EMI) signal to noise ratio (SNR), with smaller metallic objects providing smaller response amplitudes and thus are more challenging to detect. The response amplitude is also strongly influenced by the sensor-target separation distance. This effect is non-linear and the expected response is proportional to the  $1/d^5$  where 'd' is the target-sensor separation distance. For this investigation, the average sensor height above the sediment was determined to be 0.8 meters (2.6 feet). The chart below depicts the relationship between distance and response SNR for three industry standard objects (ISOs).



The average survey sensor height above the sediment surface (0.8 meters [2.6 feet]) is represented by the vertical black line in the chart above. The point at which this line intersects the response curves for each of

the ISOs represents the expected SNR for each item lying on the sea floor. The maximum target-sensor distance for reliable detection for each size ISO is the distance at which its curve intersects the detection threshold (horizontal dashed line). Thus the effective depth (below sea floor) of investigation (i.e. maximum depth of reliable detection) for each size item is indicated by the maximum target-sensor detection distance minus the survey altitude. These ISOs have been shown to be reasonable surrogates for similar sized ordnance. Accordingly, if a 37mm is assumed to be approximately equivalent to the small ISO (33mm diameter) it is anticipated that, at the average sensor height from this investigation, a 37mm target buried ½ ft below the sea floor could be detected. It is anticipated that larger items could be detected at greater depths below the sea floor. It should be noted that this estimation assumes the system is constant at the average height above the sediment. In reality, due to sea floor contours and adjustments in the system to avoid contact with the sediment and obstructions, the altitude of the sensor is constantly changing and may be closer or further from the sediment surface resulting in deeper or shallower detection capabilities. Additional information and figures for system altitude are included in **Attachment 2**.

**Figures 5 and 6** show the results of the DGM survey for data collected within the measurement performance criteria established in the MEC QAPP (additional DGM figures are also available in **Attachment 2**). It should be noted that at the following areas around the piers data was not collected either because the area was not accessible or due to safety concerns for the boat crew:

- Under the piers – the spacing of the pilings/supports for the piers and the currents around the piers made the collection of data under the piers too hazardous.
- Immediately adjacent to the piers – Due to how the pilings are installed (angled with the top at the pier and the bottom sticking out from the pier), collecting data immediately adjacent to the pier was not possible as the DGM sensor would have potentially contacted the pier or become stuck on the structure, damaging the sensor and potentially endangering the boat crew.
- The southwest corner of the area at Pier 1 – Due to the construction of the overall pier structure, accessing this portion of the investigation area would have involved navigating the boat and equipment through the pilings. In addition, the wreckage of the Alexander Hamilton, a culturally protected resource, is present in this area and was avoided.
- West of Pier 1 - The SSS to the west of the pier identified two obstructions protruding from the sediment surface that presented a safety issue to the boat crew. To prevent damage to the boat and for the safety of the crew, data were not collected at these two locations.
- Immediately north and south of Pier 2 – The original SSS conducted in this area identifies numerous large underwater obstructions throughout the area. To minimize the potential for risking the safety of the boat crew and damaging the survey equipment, these areas were avoided.

Although these areas were excluded from the data collection, the coverage obtained was sufficient to achieve the objectives of the SI.

### Side-scan Sonar

The SSS of the west side of Pier 1 to the east side of Trestle 1A located 142 targets within the SI study area that presented hazards to navigation and presented a potential threat to crew safety. A comparison of the original SSS data collected in April 2013 with the new sonar data suggests the targets along the western side of Pier 1 are consistent with the targets originally located during the previous SSS (CH2M HILL, 2013). However, allowable offsets in positioning (+/- 2 meters) and target definition in the original SSS survey data (i.e. selection of one end of a long obstruction rather than the center-point or both ends of the target) resulted in slight differences in the target locations between the two SSS surveys in a select number of locations. A graphical presentation of imaged target locations as well as the details of the targets can be found in **Attachment 2**.

## Conclusions

The DGM results indicate the presence of metallic objects across the investigation area, from discrete individual items to groupings of items. The densities of the anomalies are highest in the areas that are closest to the piers:

- Target density for Pier 1 appears greater on the west side of the existing structure and directly adjacent to the Pier's eastern extent. The anomaly density to the east of Pier 1 tapers with distance from the pier, with most of the anomalies being within 135 ft of the pier. The higher density of anomalies adjacent to the pier is expected since there would be more work activities at the pier that could have resulted in metallic items being dropped in the water and because of the deteriorating condition of the pier.
- Target density for Pier 2 is higher adjacent to the Pier and decreases with distance from the structure. The higher density of anomalies adjacent to the pier is expected since there would be more work activities at the pier that could have resulted in metallic items being dropped in the water.

The higher number/density of anomalies around Pier 1 as compared to those around Pier 2 may be explained through the history of construction and maintenance dredging activities around the piers. The higher density of anomalies to the west of Pier 1 is expected, as that area lies between the pier and Trestle 1A. Utilization of the west side of Pier 1 was limited after the installation of Trestle 1A and the construction of Pier 2. No records of maintenance dredging of the area between Pier 1 and Trestle 1A were identified during the PA. Additionally, minimal records of dredging activities along the eastern side of Pier 1 were available. Therefore, these areas are more likely to be relatively undisturbed and contain increased debris and geophysical anomalies. Historic maintenance dredging activities to support the operations around Piers 3A and 4 (i.e., dredging) may have resulted in the removal of metallic debris from the western-most portion of the Pier 2 area. Additionally, Pier 2 was historically maintained to an operational depth of -35 feet MLW which may have also resulted in removal of some historical surface metallic debris.

The presence and/or extent of DMM cannot be concluded from the DGM data collected during this investigation, as the geophysical data from any DMM are not distinguishable from that resulting from other metallic objects<sup>3</sup>. However, the DGM data did identify specific locations and densities where metallic objects were present, both at the surface and within the sediments. To determine if the source of the anomalies are DMM, further inspection of the anomaly sources would be required.

As outlined in the PA, there is potential for DMM to have been dropped or released from munitions loading/unloading operation and the explosion of the USS Solar. The current data collected during the SI activities suggest that metallic sources are present both on the surface and within the sediment at the site that may potentially represent DMM. Therefore, additional investigation is warranted to further evaluate the potential presence or suggested absence of DMM at the site.

## Recommendations

It is recommended that a subset of the identified anomalies be further inspected during a Phase 2 SI investigation to determine the nature of the metallic sources located during the DGM survey. Additional information about the anomaly sources should be used to build lines of evidence regarding the potential presence or absence of DMM at the site. To accomplish this, an addendum to the SI Work Plan/MEC-QAPP will be prepared for Phase 2 of the SI, for which there will be a scoping session between the Navy, NJDEP, and EPA to reach a consensus on the appropriate additional investigation (i.e., number of areas/anomalies to be investigated, investigation depths, etc.) so that the project plans can be fully developed. Various methods of investigation are possible, and may include: non-intrusive camera/video surveillance of targets that are proud of the sediment surface using a diver or autonomous underwater vehicle; or intrusive inspection of surface and subsurface targets using diver reacquisition or barge-mounted cranes with

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<sup>3</sup> Advanced electromagnetic induction systems with classification capabilities are available for terrestrial operations but are only in the design phase for underwater surveys.

extraction tools. Due to schedule restrictions associated with working near the active piers (Piers 3A and 4), site access for additional investigation activities may be limited during times when the piers are in use. Additionally, site conditions, including visibility and currents, must be considered prior to determining the most appropriate path forward for Phase 2 of the SI.

## References

CH2M HILL. 2014. *Final Site Inspection Work Plan and Munitions and Explosives of Concern Quality Assurance Project Plan UXO 0002, Munitions Loading Pier Complex, Naval Weapons Station Earle Sandy Hook Bay, Monmouth County, New Jersey*. January.

CH2M HILL. 2013. *Technical Memorandum, Side-Scan Sonar and Bathymetric Survey Results for UXO 2 Munitions Loading Pier Complex, Piers 1 and 2, at Naval Weapons Station Earle, Sandy Hook Bay, Monmouth County, NJ*. June 14.

CH2M HILL. 2012. *Final Preliminary Assessment Report, UXO 0002 - Munitions Loading Pier Complex, Naval Weapons Station Earle, Sandy Hook Bay, Monmouth County, New Jersey*. November.

**Figures**

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- Legend**
- █ NWS Earle - Mainside Area
  - █ NWS Earle - Waterfront Area
  - █ Normandy Road
  - Monmouth County, NJ

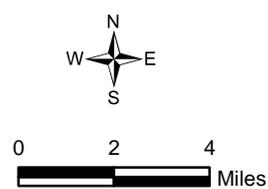


Figure 1  
 NWS Earle Location Map  
 NWS Earle Munitions Loading Pier Complex  
 Monmouth County, New Jersey



**Legend**

- Survey Control Point
- NWS Earle Boundary - Waterfront Area
- NWS Earle Restricted Zone (33CFR334.102)
- UXO 2 Active Pier Area
- UXO 2 Inactive Pier Area

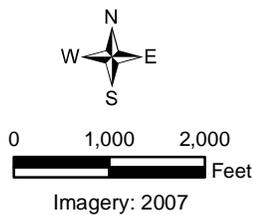
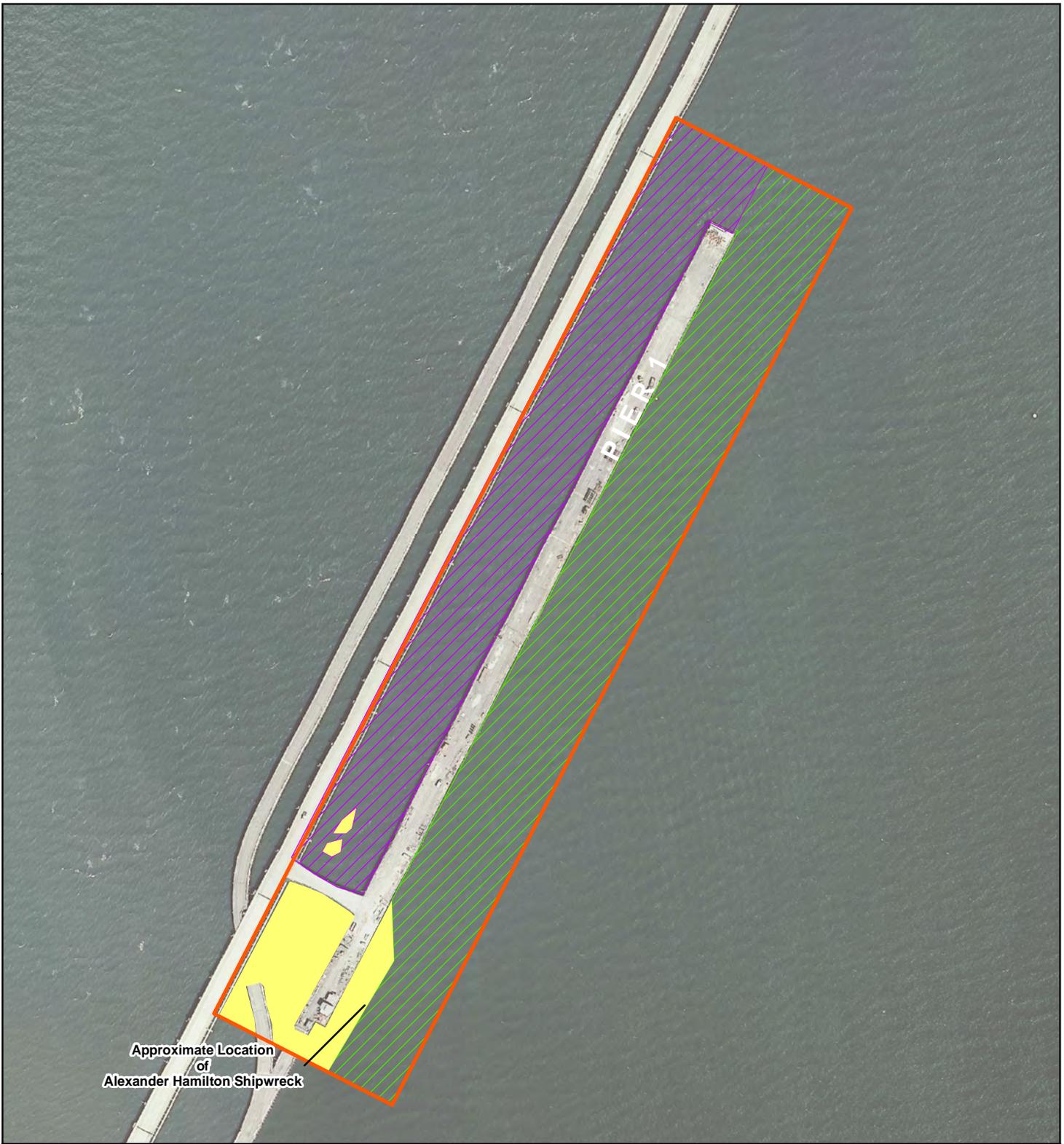


Figure 2  
 UXO 2 Site Details  
 NWS Earle Munitions Loading Pier Complex  
 Monmouth County, New Jersey

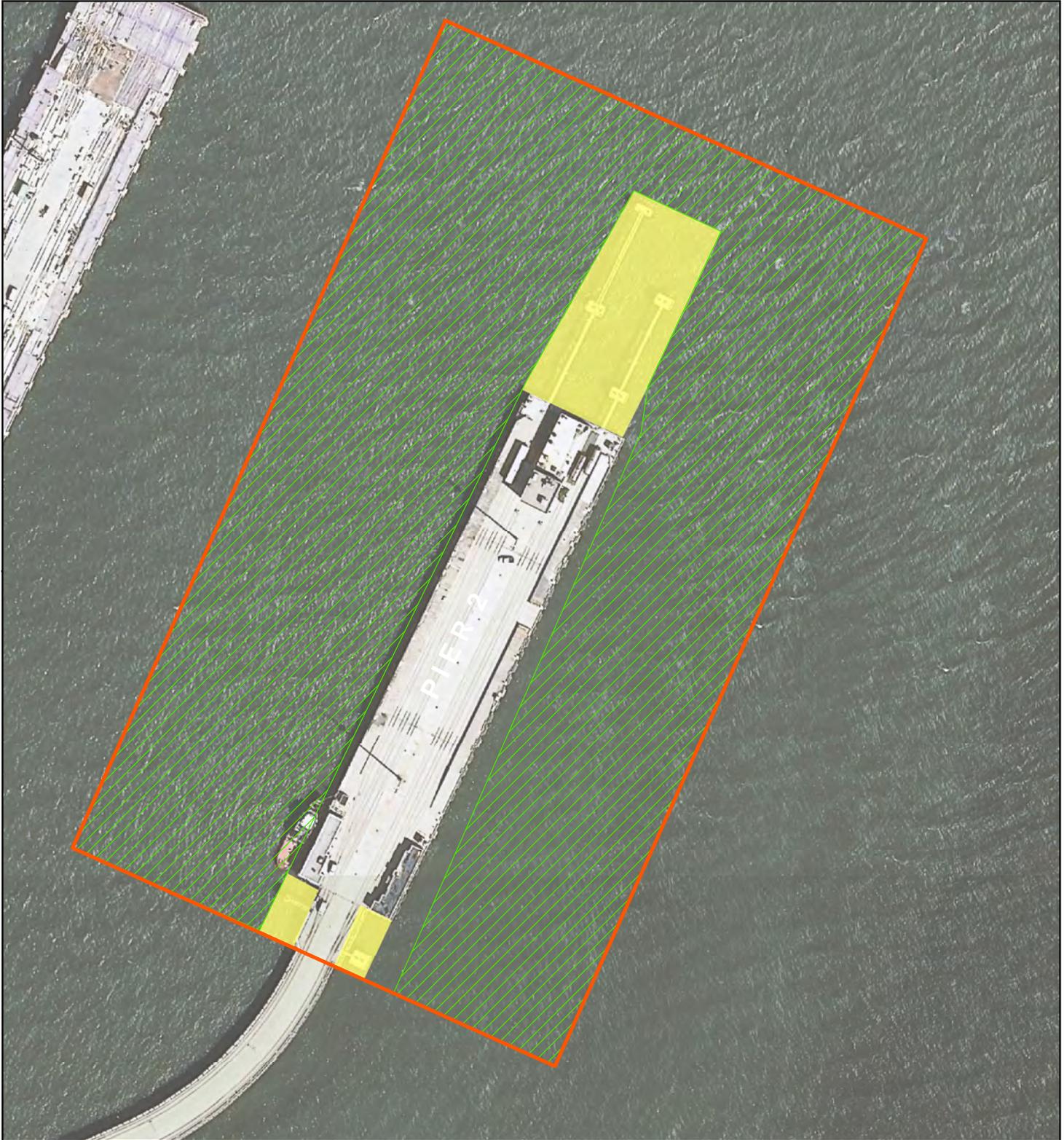


**Legend**

-  Area Recommended for SI
-  Area Covered by DGM
-  Area covered by DGM and Scan Sonar Survey
-  Inaccessible Area



Figure 3  
UXO 2 DGM Survey Transects - Pier 1  
NWS Earle Munitions Loading Pier Complex  
Monmouth County, New Jersey

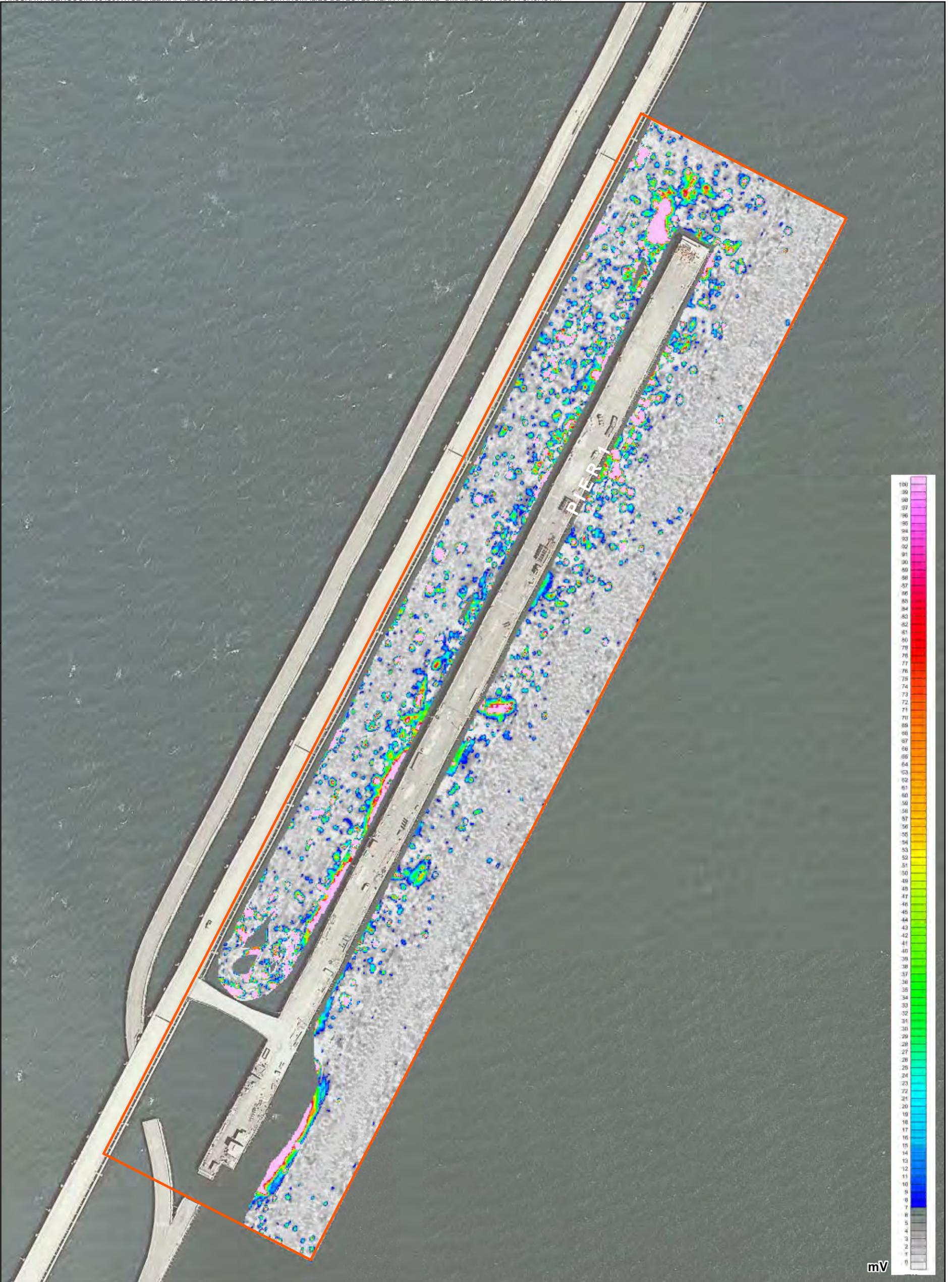


**Legend**

-  Area Recommended for SI
-  Area Covered by DGM
-  InaccessibleArea



Figure 4  
UXO 2 DGM Survey Transects - Pier 2  
NWS Earle Munitions Loading Pier Complex  
Monmouth County, New Jersey

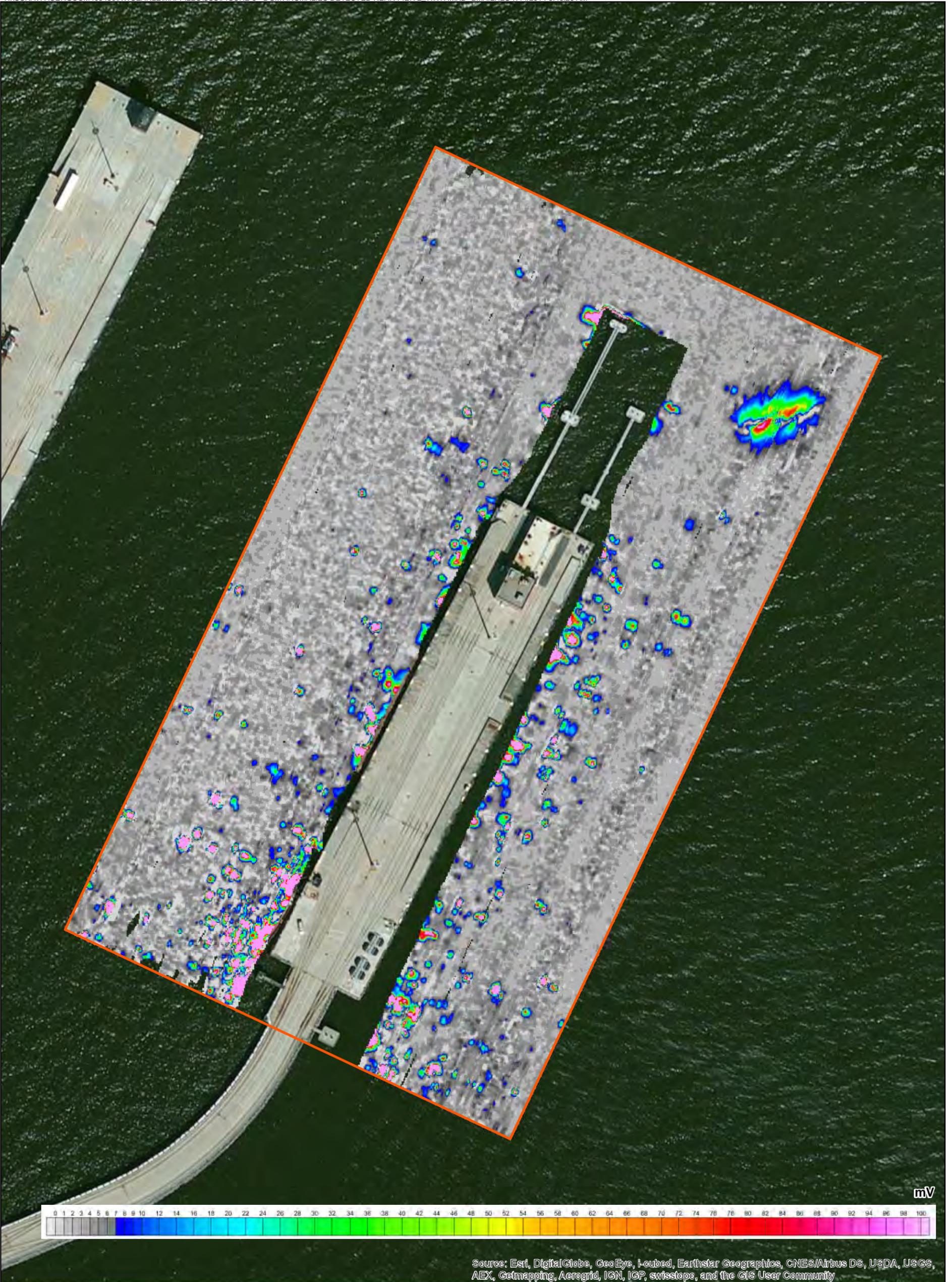


**Legend**  
Area Recommended for SI



0 100 200  
Feet

Figure 5  
DGM Results Detected Near Pier 1  
NWS Earle Munitions Loading Pier Complex  
Monmouth County, New Jersey



**Legend**  
Area Recommended for SI

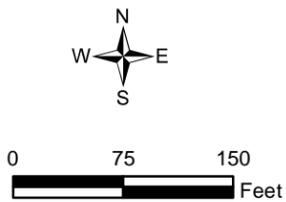


Figure 6  
DGM Results Detected Near Pier 2  
NWS Earle Munitions Loading Pier Complex  
Monmouth County, New Jersey

**Attachment 1**  
**Land Surveying Report**

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**BANC3, Inc.**  
Consulting Engineers  
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- Engineers
- Surveyors
- Construction Managers
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Princeton, NJ 08540  
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## Surveyor's Report

**Site:** UXO 2, NWS Earle Munitions Loading Pier Complex, Middleton, NJ

I hereby certify that (3) recoverable control stations have been established near the vicinity of the UXO 2 investigation area, 2 stations on the inactive pier and 1 station at the Leonardo Marina, using a Topcon GPS GR-3 Rover utilizing the Leica VRS Network. The horizontal datum is referenced to the New Jersey State Plane Coordinate System, NAD '83(2011), and the vertical datum is referenced to NAVD '88.

I hereby certify that all locations surveyed and all coordinate and control information collected and submitted are based on an actual field survey conducted under my immediate supervision and meets or exceeds the FGDC Geospatial Positioning Accuracy Standards, Part 4: Standards for Architecture, Engineering, Construction (A/E/C), and Facility Management for Third Order ( $0.050\sqrt{m}$ ) vertical, and that the relative horizontal accuracy conforms to the FGDC Geospatial Positioning Accuracy Standards, Part 2: National Standard for Spatial Data Accuracy and is repeatable to the nearest 3 cm. I further declare, to the best of my knowledge and belief, the information attached here on is correct and accurate.

Robert E. Lee, PLS

4.24.2014

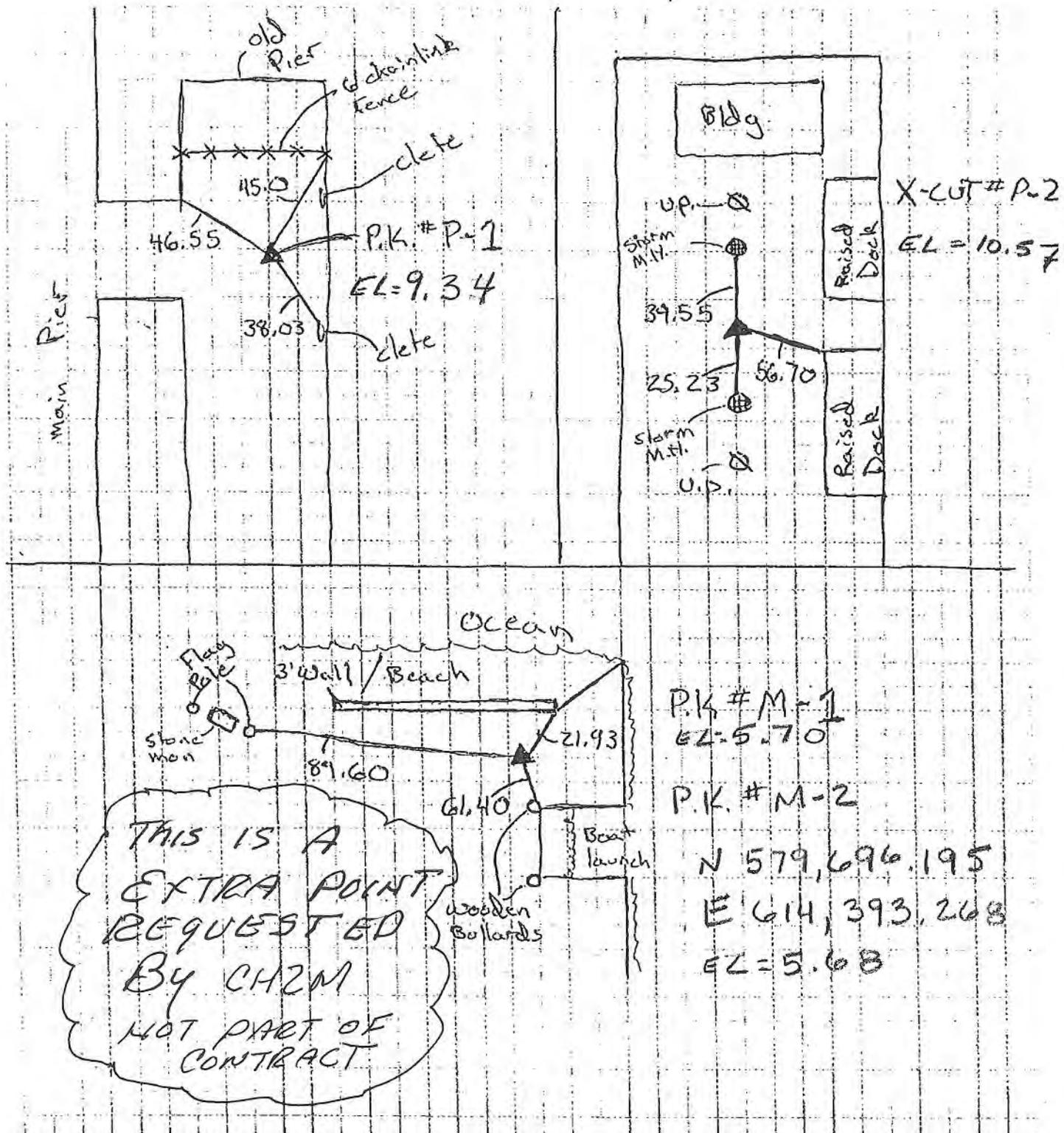
Date

New Jersey Professional Land Surveyor No. 24GS03674100  
BANC3, Inc. Certificate of Authorization No. 27991600





Project Name: NWS Earle Project No: 2000-341 Date: 3/20/14 Sheet: 1 of 1



**Attachment 2**  
**Geophysical Investigation Report**

---

GPR  
MAGNETICS  
ELECTROMAGNETICS  
SEISMICS  
RESISTIVITY  
UTILITY LOCATION  
UXO DETECTION  
BOREHOLE CAMERA  
STAFF SUPPORT

# GEOPHYSICAL INVESTIGATION REPORT

## Phase I Site Inspection UXO 0002 Munitions Loading Pier Complex

Naval Weapons Station Earle  
Sandy Hook Bay, Monmouth County, New Jersey

Contract Number: N62470-11-D-8012  
Contract Task Order WE06  
Navy (CLEAN) 8012

Dates of Investigation:  
March 24 – April 14, 2014

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PREPARED FOR



Virginia Beach, Virginia

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**Appendix B:** Example of IVS map and Summary of IVS Results

**Appendix C:** Example QC Test Results, 10 minute background Static Calibration, Pier 1 Noise Polygon Calculations, Pier 2 Noise Polygon Calculations

### Contents of USB: Project deliverables

- SSS
  - SSS Target Report
  - Target lists in Excel formats
- DGM IVS
  - Processed ASCII XYZ files
  - Summary result worksheets
- Mosaics –Geosoft maps, grid, and PDF files
  - Anomaly Distribution
- Preprocessed DGM Data
  - Preprocessed data XYZ files
  - Raw data delivery reports
  - Static and Pressure tests processed XYZ, Geosoft maps, and PDF plots
- Processed DGM Data
  - Final processed XYZ files by grid block
  - Final data delivery reports
  - Static and Pressure test processed XYZ, Geosoft map, and PDF plots
  - PDF and Geosoft map color coded gridding of instrument response data
  - Target lists in XYZ and Excel formats
  - Geosoft grid files
- Raw Data
  - All native files created by collection software
  - All converted XYZ files
- Report –Report in Microsoft Word and PDF formats

## ACRONYMS AND ABBREVIATIONS

3Dg	3D Geophysics Corporation
ac	Acre
AHA	Activity Hazard Analysis
APP	Accident Prevention Plan
ASCII	American Standard Code for Information Interchange
cm	Centimeter
CTO	Contract Task Order
DGM	Digital Geophysical Mapping
EM	Electromagnetic
ft	Feet
FmX	Trimble Integrated FmX display
FTP	File Transfer Protocol
GIS	Geographic Information System
GPS	Global Positioning System
HAZWOPER	Hazardous Waste Operations and Emergency Response
Hz	Hertz
ISO	Industry Standard Object
IVS	Instrument Verification Strip
kHz	KiloHertz
km	Kilometer
km/h	Kilometer per Hour
kn	Knot
m	Meter
mi	Mile
MEC	Munitions and Explosives of Concern
MEC-QAPP	Munitions and Explosives of Concern Quality Assurance Project Plan
MLLWL	Mean Lower Low Water Level
MPC	Measurement Performance Criteria
MRSIMS	Munitions Response Site Information Management System
MQO	Measurement Quality Objective
μs	Microsecond
mV	Millivolts
NAD83	North American Datum of 1983
NAEVA	NAEVA Geophysics, Inc.
NAVFAC	Naval Facilities Engineering Command
Navy	United States Navy
NJ	New Jersey
nm	Nautical Mile
NMEA	National Marine Electronics Association
NOAA	National Oceanic and Atmospheric Administration
NWS	Naval Weapons Station
OPUS	Online Positioning User Service

OSHA	Occupational Safety and Health Administration
PA	Preliminary Assessment
PC	Personal Computer
PS	Passenger Ship
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance / Quality Control
QC	Quality Control
RI	Remedial Investigation
RTK	Real Time Kinematic
s	Second
SI	Site Inspection
SOPs	Standard Operating Procedures
SRA	Saturated Response Area
SSHO	Site Safety and Health Officer
SSHP	Site Safety and Health Plan
SSS	Side-Scan Sonar
UHF	Ultra High Frequency
USB	Universal Serial Bus
USCG	United States Coast Guard
USS	United States Ship
UTA	Underwater UXO Towed Array
UXO 2	Site Unexploded Ordnance 2
WGS84	World Geodetic System 1984

## **1.0 INTRODUCTION**

---

NAEVA Geophysics, Inc. (NAEVA) was contracted by CH2M HILL to conduct Digital Geophysical Mapping (DGM) in support of a Site Inspection (SI) of the Munitions Loading Pier Complex, Site Unexploded Ordnance 2 (UXO 2) at Naval Weapons Station (NWS) Earle, Sandy Hook Bay, Monmouth County, New Jersey (NJ). NAEVA employed 3D Geophysics Corporation (3Dg), out of Chaska, Minnesota, as a subcontractor to support this effort. Field operations were conducted from March 24 through April 14, 2014.

### **1.1 BACKGROUND AND OBJECTIVES**

The Department of the Navy, Naval Facilities Engineering Command Mid-Atlantic (NAVFAC), issued Contract Task Order (CTO) WE06 to CH2M HILL under the NAVFAC CLEAN Program 8012, contract N62470-11-D-8012 to conduct an SI to evaluate the potential presence of munitions and explosives of concern (MEC) released into the underwater environment at UXO 2, which consists of the inactive piers (Piers 1 and 2) and active piers (Piers 3A and 4); however, the digital geophysical investigation was conducted only around the inactive piers (Piers 1 and 2). The Preliminary Assessment (PA) Report identified the possibility of MEC being released during loading/unloading activities, the explosion of the United States Ship (USS) Solar, and identification of 34 munitions items identified in the dredged sediment during the Pier 3A construction.

The SI is the second component of the overall site evaluation following the PA. It is not intended as a full-scale Remedial Investigation (RI) to determine nature and extent of contamination, rather its purpose is to augment the data collected in the PA to identify whether further response action or investigation is required (CH2M HILL, 2013). The objective of the SI is to evaluate the potential presence of MEC in the vicinity of Pier 1 and 2 by identifying geophysical anomalies in and around the former berthing areas and associated sediments.

### **1.2 SCOPE OF WORK**

Geophysical operations included the following tasks:

- Preparation of Activity Hazard Analysis (AHAs), Standard Operation Procedures (SOPs), Accident Prevention Plan (APP);
- Review and comment on the Munitions and Explosives of Concern Quality Assurance Project Plan (MEC-QAPP);
- Mobilization of all personnel and equipment;

- Perform DGM along transects within the UXO 2 footprint extending 76.2m (250 feet (ft)) from Piers 1 and 2; data processing and anomaly selection, and preparation of data deliverables.
  - Collection of supplemental acoustic SSS along designated transects within the Pier 1 site to facilitate completion of DGM data collection; data imaging and contact positions, preparation of data deliverables;

All survey activities followed Quality Control (QC) procedures in order to establish confidence in the accuracy of the geophysical data; these QC procedures are detailed in the *Site Inspection Work Plan and Munitions and Explosives of Concern Quality Assurance Project Plan UXO 0002 Munitions Loading Pier Complex* (CH2M HILL, 2014) (herein referred to as the MEC-QAPP). Data were collected along transects while adhering to both the MEC-QAPP and Site Safety and Health Plan (SSHP). Although numerous SSS targets representing potential navigational obstructions, such as the sunken Passenger Ship (PS) Alexander Hamilton and various debris associated with Piers 1 and 2, were located adjacent to the piers, the safety of the crew and equipment were at no point compromised during field activities.

All data were processed, interpreted and uploaded to the CH2M HILL File Transfer Protocol (FTP) site on schedule and in the formats specified in the MEC-QAPP.

### **1.3 SITE LOCATION AND DESCRIPTION**

The NWS Earle Munitions Loading Pier Complex stretches 4.7 kilometers (km) (2.9 miles (mi)) into Sandy Hook Bay on the north shore of the New Jersey coast. Terminal Channel, entered from Sandy Hook Channel, leads to a turning basin and three deepwater piers (Piers 2, 3A, and 4) and one shallow water pier (Pier 1) (**Figure 1**). Terminal channel water depths in the vicinity of Pier 1 were measured from 3.4m (11ft) to 4.5m (15ft) and 4.9m (16ft) to 10m (33ft) mean low water (MLW) around Pier 2; turning basin depths were recorded as deep as 13.7m (45ft) MLW. Tidal fluxes within the Munitions Loading Pier Complex measured 1.3m (4.3ft) to 1.8m (5.9ft) MLW (Arc Survey and Mapping, Inc., 2013) with small surface driven waves outside of extreme wind driven events. The deep nature of the Terminal Channel created strong currents associated with the significant tidal fluxes.

Pier 1 was constructed in 1943 to support the United States Army and United States Navy's (Navy) need for a large deepwater pier to facilitate the loading of munitions to homeported ammunition and military supply ships. Multiple expansions have seen Pier 1 extended to its current dimensions of 769m (2229ft) into Sandy Hook Bay and 18.3m (60ft) at the widest. Physical access to the Pier has been blocked as its use declined, and the pier today is no longer used for munitions loading (CH2M HILL, 2012a). Considerable debris are present in the waters adjacent to Pier 1 and protruding from the Pier 1 structure. These debris may present safety hazards to navigating vessels in the vicinity of the pier; debris are most likely associated

with the gradual degradation of the inactive Pier 1. The SSS survey performed by Arc Survey and Mapping, Inc., identified 236 proud discrete targets extending above the sediment surface that present a hazard to navigation (CH2M HILL, 2013).

Pier 2 was constructed in 1944 as the Navy deep water pier for cargo and munitions loading, capable of accommodating two cruisers, destroyers, or merchant ships. The 212m (695ft) length by 27.4m (90ft) wide pier features a 79.2m (260ft) walkway and 152m (500ft) long elevated loading platform located along each side (CH2M HILL, 2012). Pier 2 is currently accessible to NWS Earle personnel but is not in use as a munitions handling pier. SSS data identified 65 targets presenting a potential hazard to navigation and noted the absence of targets along the pier's western side as most likely being related to the maintenance dredging operations performed for Pier 3A (CH2M HILL, 2013).

## **2.0 EQUIPMENT**

---

The equipment used for the DGM SI at UXO 2 included the Geonics EM61-Flex3 Electromagnetic (EM) metal detector, Underwater UXO Towed Array (UUTA), Trimble 5700 Real Time Kinematic (RTK) Global Positioning System (GPS), and a Trimble AgGPS FmX (FmX) navigation system. The additional SSS survey performed along the western edge of Pier 1 utilized EdgeTech's 4125 SSS system. Positioning and navigation of the SSS data were accomplished with the Trimble 5700 RTK GPS and Trimble AgGPS FmX navigation system. Real-time SSS data and water depth were monitored on the Humminbird 1198c SI during the SSS and DGM surveys.

### **2.1 GEONICS EM61-FLEX3**

The EM61-Flex3 is a high-resolution time-domain electromagnetic instrument designed to detect shallow ferrous and non-ferrous metallic objects with high spatial resolution. The EM61-Flex3 system is based on the standard Geonics EM61-MK2 metal detector. The EM61-Flex3 consists of two air-cored receiver coils, a single large air-cored transmitter coil, a digital data recorder, batteries and processing electronics (Geonics, 2009). The 1.0 x 0.5m (3.3 x 1.6ft) receiver coils are arranged side by side and are enclosed by the transmitter coil (2.0 x 0.5m [6.6 x 1.6ft]). The EM61-Flex3 transmitter generates a pulsed primary magnetic field, which then induces eddy currents in nearby metallic objects. Each of the spatially separated receiver coils measures these eddy currents. The EM61-Flex3 offers the ability to measure the eddy currents at two operator selected time gates (196.00 microsecond [ $\mu$ s] and 446.00 $\mu$ s). Secondary voltages induced in both coils are measured in millivolts (mV). The EM61-Flex3 acquires up to 16 readings per second for each time gate. Data are collected using the MLFXmarine acquisition program (Geomar Software, Inc.) and temporarily stored in a Panasonic ToughBook laptop computer.

### **2.2 DEPLOYMENT PLATFORM**

The EM system was deployed as part of the Underwater UXO Detection Array (UUTA) developed by 3Dg. The UUTA includes an EM coil support platform (whale tail) and a rigid down-rigging system. The downrigger is equipped with a control surface (hydrofoil or 'elevator'), which allows the system operator to control the height of the coil above the sea bottom during data acquisition. Several sensors are integrated with the UUTA to provide position control of the Flex3 coil platform. A pressure transducer on the platform accurately measures the depth of the receiver coils. An inclinometer measures the exact angle of the downrigger and is used to determine horizontal offset of the coil platform from the boat. A bow-mounted SSS and bottom finder are used to map the sea bottom depth and image potential bottom obstructions during the survey (3Dg and NAEVA, 2013a).

The UUTA uses two RTK receivers, mounted on the vessel bow and stern, to accurately measure the exact position and heading of the boat. The rigid downrigger is designed to keep the sensor platform in line with the keel of the boat and the two RTK GPS receivers. In this way, accurate geolocation of the platform can be achieved. The MLFXMarine (Geomar Software, Inc.) acquisition program captures the GPS, pressure transducer, inclinometer, and sonar bottom depth data to calculate the position of the sensor platform. The sonar transducer mounted on the bow of the boat provides the system operator immediate warning of changes in seafloor contour and other obstructions, allowing the system operator time to adjust and maintain the optimum sensor height above seafloor using a control wheel to change the angle of the elevator. When boat speed and elevator angle remain constant the depth of the sensor platform does not change.

### **2.3 TRIMBLE 5700 RTK GPS**

A Trimble 5700 RTK GPS base station and rovers were used for the real-time acquisition of positional data during the SSS and geophysical data collection. The GPS base station was used in conjunction with the two rovers mounted on the bow and stern of the boat. Real-time corrections were broadcast to the roving GPS units via a radio link using a Trimble HBP450 Ultra High Frequency (UHF) radio modem. This system provides positional corrections at a rate of one Hertz (Hz), with an accuracy of 3.00 centimeter (cm) (1.18 inch (in) horizontal and 5.00cm (1.97in) vertical when a minimum of five satellites are available. The GPS positions were streamed into a Panasonic Toughbook computer once per second using a National Marine Electronics Association (NMEA) GGA/GSA message and were recorded simultaneously with the EM61-Flex3 data in the MLFXMarine acquisition program. A GPS QC check was performed at the beginning of each day to ensure accuracy for both bow and stern Trimble GPS receivers.

### **2.4 TRIMBLE AGGPS FMX DISPLAY**

SSS and DGM navigation was facilitated by the Trimble AgGPS FmX integrated navigation system and the bow-mounted RTK GPS. The FmX display allows the creation of virtual grids based on operator-defined lines, circles, or ovals (“AB lines”). The AB lines are set by placing two points in the field or by importing a Geographic Information System (GIS) “.shp” file. Once a line has been established, the FmX processor can calculate a virtual transect design using operator supplied line spacing. The FmX display also provides a light bar display to assist the boat operator in guiding the UUTA along the virtual survey lines. The FmX provides a swath coverage display that shows the boat operator the current survey line and previous lines on which data have already been collected. Underwater contacts deemed hazards to navigation that were imaged in the SSS survey were displayed on the FmX to facilitate avoidance by the boat operator and provide advanced warning for the system operator tasked with operating the UUTA.

### **2.5 EDGETECH 4125 SIDE-SCAN SONAR**

The 4125 SSS system is a fully digital, simultaneous, dual frequency sonar system designed to identify subsea contacts and analyze seabed conditions in real time. The 4125 series SSS system consists of three main parts; tow fish, topside processor and tow cable. The 4125 tow fish is towed through the water with transducer arrays on both sides which radiate and receive ultrasonic CHIRP pulses. The operational frequencies of the SSS transducers were 400 and 900 kiloHertz (kHz). The tow fish also contains the associated digital signal processing electronics. A Windows-based laptop computer was used to host the Edgetech Discover-4125 application software which provides the user with the means to control the acquisition parameters and display and record the data from the tow fish. The echo data were used to create a two-dimensional image on the monitor along with other information such as depth, heading and position. A Trimble 5700 RTK GPS was interfaced directly with the 4125 SSS to provide position control.

## 3.0 METHODOLOGY

---

### 3.1 SURVEY ACTIVITIES

#### 3.1.1 Digital Geophysical Mapping

Data were collected using an evenly spaced transect pattern. All transects were spaced approximately 2m (6.56ft) apart extending 76m (250ft) around Piers 1 and 2. There were two inaccessible areas (**Figure 2**) within the survey boundary of Pier 1: 1) the area near the submerged wreckage of the PS Alexander Hamilton located adjacent to the south eastern berthing of Pier 1 (**Figure 3**); and 2) the area contained by Trestle 1 and Pier 1. The PS Alexander Hamilton location necessitated deviation from the proposed transect pattern for crew and equipment safety and to protect the wreck. There were three inaccessible areas (**Figure 4**) within the survey boundary of Pier 2: 1) the 79.2m (260ft) walkway and support pilings extending from the terminus of Pier 2 contained the suspected submerged gangplank (**Figure 5**) rising 7m (23ft) above the sediment surface in approximately 10m (33ft) of water; 2) east of the juncture of trestle 2 and Pier 2 where moorings extended into the survey area perpendicular to Pier 2; and 3) west of the juncture of trestle 2 and Pier 2 where moorings extended into the survey area perpendicular to Pier 2. Data collection deviations outside of the inaccessible areas were created for individual navigation that prevented operation of the submerged UUTA. Grid line collection order considered wind direction and strength, sea-state and tidal conditions, and the turning radius of the marine tow vessel.

#### 3.1.2 Side-Scan Sonar

In order to ensure the safety of the field crew during the DGM survey, additional SSS data were collected using an evenly spaced transect pattern immediately to the west of Pier 1 (**Figure 2**). All transects were spaced 7.6m (25ft) apart extending from the western edge of Pier 1 to the eastern side of Trestle 1A. SSS data were collected at both 400 and 900 kHz, which provided the imaging resolution required to meet the project objectives. Transect line spacing allowed for 100% redundancy of the SSS data. High resolution imaging and soundings were collected to identify hazards and inaccessible portions of the survey area for the safety of the crew and equipment. Surface conditions inside the SSS survey area were protected by Pier 1 and Trestle 1A, creating low wave height and relatively calm winds for optimal SSS data collection and vessel navigation. Collection within the facilities restricted zone afforded no disruptions or interactions with other vessels or surface impediments.

## **3.2 DATA PROCESSING AND INTERPRETATION**

### **3.2.1 DGM Data Processing and Interpretation**

#### **3.2.1.1 Data Storage and Initial Editing**

Data were temporarily stored in a Panasonic Toughbook laptop computer using Geomar MLFXmarine software and then downloaded into another laptop computer for further on-site processing using Geomar MultiFXmarine and Geosoft Oasis Montaj software version 8.0.1.

Daily logs and field notes were input digitally into a Panasonic Toughpad FZ-A1 tablet device supplied by CH2M HILL using the Munitions Response Site Information Management System (MRSIMS) series of forms. Initial data processing was performed by the field team, which included reviewing the data for integrity and completeness, and creating positioned XYZ files for each data file and QC test for use in further processing. Raw geodetic (Latitude-Longitude WGS84) coordinates were converted to projected NAD83, NJ State Plane, m, coordinates for the XYZ files.

#### **3.2.1.2 Preprocessing**

Converted raw data files were imported into Geosoft's Oasis Montaj to perform the following:

- Review and finalize all QC tests (Instrument Verification Strip (IVS), static, pressure) prior to processing of the DGM data for that day
- Evaluate GPS accuracy and positioning
- Evaluate data density and coil height
- Apply auto leveling and instrument drift corrections
- Apply default lag correction
- Generate preliminary contour map(s) from gridded data

#### **3.2.1.3 Final Processing**

After completion of preprocessing, the data were further evaluated and processed to generate final processed data files. Final processing steps included:

- Evaluation and refinement of auto leveling and instrument drift corrections in the late channel
- Evaluation and refinement of lag correction in the late channel
- Additional digital filtering and enhancement, as necessary, in the late channel
- Targeting of data, as described in **Section 3.2.1.4**

- Generation of formatted American Standard Code for Information Interchange (ASCII) files containing processed data by grid block
- Generation of final maps for each grid block showing contoured gridded data, target locations, and culture

#### **3.2.1.4 Analysis and Target Selection**

The UX-Detect module within Oasis Montaj identifies peak amplitude responses associated with, but not limited to, MEC items. Initial target selections were made based on the minimum curvature gridded data. Data profiles corresponding to the anomalies selected by Geosoft were then analyzed by NAEVA geophysicists with Geosoft's Oasis Montaj data processing training and experience, with the targets evaluated as to their validity and position, as single-source anomalies that may generate multiple target designations depending on shape and orientation. Targets found to be invalid or incorrectly located were removed or adjusted. Additionally, anomalies that were not selected by the UX-Detect module, yet deemed to represent a potential MEC target, were manually selected. All targets were selected from final processed data from the late channel of the EM61-Flex3, roughly equivalent to channel 2 of the bottom coil of the EM61-MK2.

Final processed XYZ (ASCII) files and geophysical maps were created for each dataset. Composite target lists were created separately for Pier 1 and Pier 2. Targets were sorted by shortest path. All anomalies occurring at or above the targeting threshold of 7 mV in the late channel were identified using a unique ID number.

Each target list provides a Target ID, Grid Cell ID (Pier), Easting (x) and Northing (y), NAD83, NJ State Plane, m, coordinate location for each target, anomaly type, and the recorded peak response in the late channel in mV (**Appendix A**). All raw and processed data have been submitted to CH2M HILL's project geophysicist and can be found on the enclosed USB.

### **3.2.2 Side-Scan Sonar Data Processing and Interpretation**

#### **3.2.2.1 Data Storage and Initial Editing**

Data were temporarily stored in a Panasonic Toughbook laptop computer using Edgetech Discovery 4125 software. After data collection was completed the data were downloaded onto a workstation Personal Computer for on-site processing using Discovery software.

Initial data processing was performed by the field team, which included reviewing the data for integrity and completeness.

### 3.2.2.2 Data Preprocessing

Data files were imported into the Discovery software for processing and to generate a SSS target list of bottom obstructions, available in **Appendix A**. Data processing steps included:

- Evaluate data coverage / redundancy
- Bottom depth selection and smoothing
- Apply auto leveling of display gain
- Evaluation and refinement of gain levels
- Evaluation and refinement of display image characteristics
- Targeting of data, as described in **Section 3.2.2.3**
- Coordinate conversion of Target locations (Latitude-Longitude WGS84 coordinates to projected NAD83, NJ State Plane, m, coordinates)
- Generation of final maps for the survey area showing line locations, boundaries, inaccessible areas, targets and culture

### 3.2.2.3 Analysis and Target Selection

The Discovery software allows the user to identify, measure, and classify features on the sea bottom or within the water column. Each data line and each data channel (Left and Right) were individually analyzed by 3Dg geophysicists with SSS imaging experience for potential side-scan targets that may be a navigation or safety hazards for the DGM. Every potential target was measured (surface dimensions) and a height above bottom was calculated based on the length of the acoustic shadow and range of the target. Very large (laterally extensive) objects ( $\geq 3.05\text{m}$  [10ft]) may have received multiple target designations depending on shape and orientation and whether they may be encountered along multiple DGM transects. All targets with a measured height above bottom greater than 0.1m (0.33ft) were included in the final target list.

The target locations were then plotted on aerial images of the site and evaluated for areal distribution. A master target list was then created for the survey area. The target list provides a Target ID, location for each target (Latitude-Longitude coordinates), approximate surface dimensions (length and width in m), and a height above bottom (m) (**Appendix A**). GIS shape files of the target locations were created for assistance with vessel navigation during the DGM, as well as the DGM data processing and analysis.

All SSS data were submitted to CH2M HILL's project geophysicist and can be found on the enclosed Universal Serial Bus (USB).

## 4.0 SUMMARY OF FIELD ACTIVITIES

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Prior to mobilization an AHA, SOPs, and an APP including an SSHP were provided to CH2M HILL. All personnel mobilized to the site had current 8-hour and/or 40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) training and medical monitoring examinations in accordance with OSHA 29 CFR 1910.120 and 29 CFR 1910.134. A United States Coast Guard (USCG) Float Plan was filed for each day of on-the-water activities and maintained by CH2M HILL personnel for the project duration. Entry and egress from the NWS Earle restricted area (2250m [7382ft] from seaward end of Pier Complex) was coordinated daily via marine band radio with on the water Navy Harbor Patrol vessels and via cellphone with NWS Earle harbor operations. The boat was trailered and equipment was stored at secured housing in the Township of Hazlet each night; the boat was launched daily from the Leonardo State Marina. Details of daily operations for both investigation phases are as follow:

- March 24, 2014: Mobilization of three 3Dg personnel from Chaska, MN; One NAEVA personnel from Charlottesville, Virginia (VA).
- March 25: Introductions and site specific training was conducted with CH2M HILL Site Safety and Health Officer (SSHO) including AHA, APP, and MEC-QAPP review. Field crew located and established a GPS base station in Leonardo State Marina for recording an Online Positioning User Service (OPUS) solution. Marine tow vessel setup and UUTA QC testing conducted at Hazlet housing.
- March 26: No field work conducted due to National Oceanic and Atmospheric Administration (NOAA) issued small craft advisory and gale warning with North West winds of 46 kilometers per hour (km/h) (25 knots (kn)) with gusts to 74km/h (40kn) and waves of 0.61m (2.0ft) to 0.91m (3.0ft).
- March 27: Established GPS base station on location M-1 (**Table 1**) and checked accuracy on point M-2. The IVS was established as described in **Section 6.1**, and multiple data collection passes were made over the IVS to ensure acceptable placement and detection for the DGM survey.
- March 28: Conducted QC tests of Geonic's Flex-3 underwater coil in Hazelton and on the water to observe and reduce data noise issues. Replaced deployed system with secondary unit to analyze and mitigate data quality issues.
- March 29: DGM UUTA setup and equipment checks performed as scheduled. The targeted features from the SSS data were imported into the FmX display to assist in avoidance of any underwater

structures that might have posed a navigational hazard for the boat, as well as a hazard to the equipment hanging below the boat, just off of the bay floor. DGM of Pier 2 commenced. Data block P2T01 completed, 3.59 acres (ac).

- March 30: National Oceanic and Atmospheric Administration (NOAA) marine forecast with small craft advisory, flood warnings, fog advisory, and heavy rains. Winds gusting from the north east into survey area directly into Pier 2 and shore. Data collection suspended.
- March 31: NOAA small craft advisory for north winds from 28km/h (15kn) to 37km/h (20kn) with gusts to 46km/h (25kn) and waves near 0.6m (2ft). Snow and sleet in the morning. As a result, no field work was conducted.
- April 01: Favorable weather conditions allowed for data collection on the east and west sides of Pier 2. Data blocks P2T03 and P2T04 completed for 1.62ac and 3.99ac.
- April 02: Data collection of grid block P2T04, 1.45ac collected. Impacted underwater hazard not present in SSS data resulting in damage to UUTA elevator hydraulic function. Returned to marina and housing in Hazelton for parts and repairs.
- April 03: Data collection of grid block P2T05 on east side of Pier 2 completed, 3.16ac. Data collection of grid block P2T06 on west side of Pier 2 completed, 1.93ac.
- April 04: NOAA issued small craft advisory with forecasted heavy rains and winds from the north gusting to over 46km/h (25kn) and waves exceeding 0.6m (2ft). Dense fog advisory with limited visibility. No data collection performed.
- April 05: NOAA weather statement for small craft advisory with west winds of 28km/h (15kn) to 37km/h (20kn) and gusts exceeding 56km/h (30kn). Wave height 0.6m (2ft) to 0.9m (3ft) and areas of dense fog with visibility of 1.9km (1 nautical mile (nm)) or less. No data collected and marine tow vessel was not launched.
- April 06: Data collection of Pier 2, grid blocks P2T07 and P2T08 completed for 1.26ac, 1.87ac. Data collection of Pier 2 site completed.
- April 07: Data collection Pier 1 grid blocks P1T01 and P1T02 completed for 4.35ac, 3.67ac. Impact with submerged hazard necessitated return to marina for repair to Poly Vinyl Chloride (PVC) and small welds.
- April 08: Pier 1 data collection of grid blocks P1T03 and P1T04 for 4.17ac and 2.58ac.

- April 09: Data collection of completed grid block P1T05 for 3.68ac. GPS continuous topographic line of Pier 2 location and real time SSS imaging of unknown hazard in Pier 1 basin.
- April 10: Completed grid block P1T06 along west side of Pier 1 for 0.88ac. Experienced substantial impacts with unknown underwater hazards not present in SSS data. Repairs and discussion regarding process with moving forward to successfully complete the DGM of Pier 1.
- April 11: A resurvey of the west side of Pier 1 using SSS was conducted due to changed conditions to mitigate potential hazards that were not identified on or have shifted from the original SSS data. Rigged marine tow vessel and conducted QC of towfish, collected SSS data of west side Pier 1.
- April 12: Data processing and analysis of hazards for FmX display and navigation avoidance on west side of Pier 1. **Plate 1** contains a graphical presentation of identified navigational hazards referenced to imaged contact target contained list contained in **Appendix A**.
- April 13: Data collection of Pier 1 grid blocks P1T07 and P1T08 for 0.95ac and 4.23ac. DGM of Pier 1 completed.
- April 14: 3Dg and NAEVA field crew demobilized.

A total of 19.7ac of DGM were collected at Pier 1 over five work days with an average collection rate of 3.9ac per day. Collection of Pier 2 required five working days, completing 2.8ac per day for a total of 13.8ac. DGM collection survey results are detailed in **Section 5.1.1**.

All data were collected as described in **Section 3.1**.

## 5.0 RESULTS

### 5.1 SURVEY RESULTS

#### 5.1.1 DGM SURVEY

GPS base station locations were provided by CH2M HILL subcontractor BANC3, Inc., based in Princeton, NJ. **Table 1** lists the base station locations that were used.

<b><u>ID</u></b>	<b><u>X</u></b> NAD83 NJ State Plane, m	<b><u>Y</u></b> NAD83 NJ State Plane, m	<b><u>Elevation</u></b> Ellipsoid Height (m)	<b><u>Feature Code</u></b>
P-1	579773.103	4477045.751	2.85	P.K. NAIL
P-2	580633.986	4478494.143	3.22	X-CUT
M-1	579669.428	4475251.163	1.74	P.K. NAIL
M-2	579671.314	4475251.183	1.73	P.K. NAIL

**Table 1: GPS Base Station Locations**

The GPS base station was established at Monument M-1. Due to a lack of resolution in the reported WGS84 latitude-longitude coordinates, the data were collected using an imprecise (< 6 inch error) base station location. A shift was applied in the data processing stage to account for this discrepancy. All data for the UXO 2 site were delivered with the correct adjustment performed.

Accessible areas of UXO 0002 for DGM survey were contingent on originally imaged SSS contacts and bathymetry data for successful operation of the UUTA. Bathymetry data provided in the site background analysis (Arc Surveying and Mapping, Inc., 2013) correlated closely with observed conditions and enabled the UUTA to perform within the systems established depth rating of (0.9m [3ft] – 12m [40ft]) (3Dgeophysics and NAEVA Geophysics, Inc., 2013a). For the safety of the crew and equipment the UUTA was operated above the 1.5m (5.0ft) minimum height above sediment Measurement Performance Criteria (MPC) when required for the individual discrete SSS target avoidance. Tidal levels had minimal impact on DGM outside of noted specific weather events where small craft advisories prevented the marine tow vessel from safe operations and was not launched.

Daily summaries of DGM activities, including data collection locations, production rates, and grid blocks completed can be found in **Section 4, Summary of Field Activities**.

##### 5.1.1.1 Pier 1

Based on the SSS results, the areas around the PS Alexander Hamilton (**Figure 3**) and bounded by Trestle 1 and Pier 1 were identified as inaccessible areas (**Figure 2**) and were not surveyed using the DGM equipment. Impacts with submerged hazards that were not present in the provided SSS master target list

on April 09 and 10 resulted in system maintenance/repairs and discussion with CH2M HILL leading to the additional SSS survey of the north and western sides of Pier 1 area. The SSS survey identified 142 contacts and facilitated the continuance and completion of the DGM survey with no incidents or repairs required.

A total of 19.7 acres of DGM data were collected identifying 1736 targets (**Plate 2**). The system maintained an average height above the bottom of 0.8m (2.6ft) (**Figure 6**).

#### **5.1.1.2 Pier 2**

Pier 2 inaccessible areas (**Figure 4**) were around the remnants of the seaward walkway and suspected submerged catwalk feature (**Figure 5**), as well as on both sides of the junction of Trestle 2 with Pier 2.

A total of 13.8 acres of DGM data were collected identifying 793 targets (**Plate 3**). The system maintained an average height above the bottom of 0.8m (2.5ft) (**Figure 7**).

#### **5.1.2 SIDE-SCAN SONAR**

The SSS of the west side of Pier 1 to the east side of Trestle 1A imaged 142 contacts within the SI study area that presented hazards to navigation of the UUTA and presented a potential threat to crew safety. The targets that butt up to the western side of the pier were similar to the targets originally located during the previous SSS (survey conducted in April 2013). However a significant number of the targets away from the western side of the pier were either new or the locations were different than originally identified in the previous SSS data. A graphical presentation of imaged contact location and distribution can be found in **Plate 1**, with detailed contact images and details located in **Appendix A**. 100% redundancy in coverage provided for complete high resolution imaging of the SI survey area. SSS data proved by Arc Surveying and Mapping, Inc., identified 236 hazards to navigation at the Pier 1 site, and 65 at Pier 2 (Arc Surveying and Mapping Inc., 2013).

#### **5.2 DATA PROCESSING AND INTERPRETATION**

All data were processed as described in **Section 3.2**. At each pier, background noise levels were calculated from five selected polygons that were devoid of DGM anomalies (**Figures 8 & 9**). The mean noise for Pier 1 was 1.14mV, with a standard deviation of 1.55mV. Pier 2 had a calculated mean noise of 1.02mV, with a standard deviation of 1.56mV. Five times the standard deviation is generally accepted as a reasonable target response threshold for minimizing noise targets while maximizing detection. Five times the standard deviation is 7.77mV for Pier 1 and 7.8mV for Pier 2. A 10% buffer was subtracted from the average of the 5x the standard deviation for the two piers and a target threshold of 7 mV was set. A spreadsheet analysis of observed data noise is contained in **Appendix B**. Equipment contact with submerged hazards resulted in a limited number of negative data spikes that were removed during data processing. A total of 1736 targets

(**Appendix A**) were selected for Pier 1 (**Plate 2**) and 793 for Pier 2 (**Plate 3**). Selected targets were further categorized into ten types as follows: Type 1 anomalies are point source targets that may represent targets of interest, Type 2 anomalies are noted culture (meaning, manmade structures such as pipe, fence, signs, etc. that could interfere with the data collection), Type 3 are suspected culture, Type 4 anomalies are selected from outside of the target area, Type 5 are hazard deviations, Type 6 are anomalies that exhibit good decay but were below the established threshold (7 mV), Type 7 anomalies are data spikes, terrain induced response, ambient noise, or poor decay, and Type 8 are polygons that define a Saturated Response Area (SRA). An SRA is created in situations where a large area (minimum of 3.1m [10ft] x 3.1m [10ft]) is densely saturated with an elevated response to a point where it would not be expected that all response would be eliminated if the selected locations were investigated. Type 9 anomalies are targets selected within an SRA, Type 10 anomalies are targets selected from the SSS (using both original and additional SSS data) that correlate with a DGM anomaly. **Table 2** and **Table 3** contain a summary of selected targets by type for Pier 1 and Pier 2, respectively.

Also included in the USB are processing reports that summarize all processing information including: down-line data density statistics, leveling, lag, gridding parameters used in processing, and any additional notes for each dataset. Processors examined all data prior to NAEVA demobilizing from the site.

The enclosed USB contains all raw and processed data, including processing reports, QC test results, target lists, and color contour maps for each grid block.

## 6.0 QUALITY CONTROL (QC)

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To establish confidence in the data reliability, QC tests were conducted throughout the project. QC tests were conducted in accordance with equipment SOPs and QC standards set forth in the MEC-QAPP prior to SSS and bathymetry surveys, and prior to and after all DGM collection sessions. All QC tests for the EM61-Flex3 were conducted after a minimum 15 minute warm-up period for the electronics and coils. A summary of the QC tests performed is presented in **Section 6.1 and 6.2**. The results of the QC tests are summarized in **Section 6.3**.

### 6.1 SYSTEM VALIDATION – INSTRUMENT VERIFICATION STRIP (IVS)

Prior to beginning the DGM survey and everyday thereafter, a modified IVS was surveyed. The purpose of surveying the IVS was to demonstrate the proper function of all instrumentation, methods, and personnel prior to the initiation of fieldwork and to document the site-specific noise and capabilities of the EM61-Flex3 system.

One IVS was established for the UXO 2 Site (**Appendix B – IVS Example**). A 2.3 kilogram (5.0 pound) dumbbell bar weight was installed by placing the weight over a 3.1m (10ft) PVC pipe that had a survey rod with GPS antenna inside so that when the pipe/survey rod was level the weight was dropped and a GPS coordinate was recorded. Prior to placing the item, the area was geophysical surveyed to verify the location was free of anomalies. However, due to the difficulty of positioning the boat over an exact location, a few of the passes over the IVS have varying angles of approach along the lines. **Appendix B** contains a spreadsheet summary of the IVS results.

Measurement Quality Objectives (MQOs) evaluated in the IVS and associated QC tests included positioning repeatability, DGM target positional accuracy, and DGM target repeatability. Due to the difficulty of positioning the vessel and sensor in an identical position in a challenging and fluid environment, target positional accuracy and target repeatability were evaluated based on the collected IVS data. All peak responses in the late channel over the seeded objects were within specifications.

Due the nature of underwater DGM collection, line paths often overlap and may be at different heights above the bottom. Further analysis was conducted on the DGM line paths to minimize gridding inconsistencies often related to overlapping lines. A new channel (ChL\_level\_grid) was created in the respective Mosaic.gdbs (Compiled Data) and was populated with the higher response between lines that intersected or were within 0.25m (0.82ft) of each other. Target selection for Pier 1 was based on the ChL\_level channel, as there was minimal overlap in the data. Target selection for Pier 2 was based on the new ChL\_level\_grid channel because the location of the pier is more exposed to open water conditions, i.e., stronger currents, choppy water, wind, etc.

## 6.2 QC TEST DESCRIPTIONS AND ACCEPTANCE CRITERIA

In addition to the IVS, the following QC procedures were performed and documented during the data collection process and reviewed by a qualified geophysicist on a daily basis. Results of these tests can be found in **Section 6.3**. Sample graphical displays of the QC data are included in **Appendix C**.

**GPS Check Point:** At the beginning of the day after setting up the base station and prior to collecting any data, the UUTA bow and stern GPS antennas were tested. On the first day, the boat was secured to two pilings at the dock and multiple measurements were taken. These were averaged together to obtain “known” points for the bow and stern. All subsequent measurements were compared to these initial readings. The locations were stored in a Panasonic Toughbook laptop and documented in a daily DGM form on the Panasonic Toughpad FZ-A1. Positional discrepancies within 10cm (3.9in) were considered acceptable.

**Static Background and Static Spike:** Static tests were performed on land adjacent to the housing in an area relatively free of electrical or other interference. The marine tow vessel remained on the trailer while the UUTA was deployed to simulate a DGM data collection configuration, and data was collected for a 3-minute period. A static test is the primary measurement of instrument functionality and consists of one minute without a spike, one minute with a spike (two Schedule 40 small Industry Standard Objects (ISOs) (<http://www.mcmaster.com/>) were introduced below the sensor platform) and then one minute without a spike. The purpose of the static test is to determine whether unusual levels of instrument or ambient noise exist and to check for consistent response. The acceptance criterion was that the spike response after background correction be within  $\pm 20\%$  of the previous day’s measured response. Static tests were plotted on a scale of  $\pm 4$  mV so that any abnormally high data spikes could be observed. Failure points were attributed to ambient noise within the QC test vicinity. A 10 minute test was conducted in an additional location to further validate equipment functionality and is included in **Appendix C**. The static background and static spike tests were conducted at the beginning and end of the day.

**Pressure Test:** Prior to data collection the accuracy of the pressure sensor (i.e. EM sensor platform depth) was tested. Two data points were recorded for 30 seconds (s) during the test to verify the functionality of the pressure sensor. The test was conducted on land prior to deployment of the system in the water. The acceptance criterion was that the pressure sensor’s depth results were within 0.08m (0.26ft) of the known depth.

**Repeat Data:** As a result of the difficulty to accurately repeat a line of data in the water, the IVS data were used to verify repeatability of the data. Because of the difficulty of transiting the system along the exact same line and height twice in the dynamic marine environment, and because instrument response is very sensitive to the distance of a metallic object from the coil, this test was evaluated qualitatively.

### 6.3 QC TEST RESULTS

QC data were evaluated using Geosoft's Quality Assurance/Quality Control (QA/QC) software. Static test profiles were plotted on a scale of  $\pm 4$  mV from the mean. Pressure test data were presented in table format for evaluation. As defined in the MEC-QAPP, positional error at known monuments did not exceed 10.2cm (4.00in). The response to a Schedule 40 ISO did not vary more than  $\pm 20\%$ . Other MQOs evaluated in production data included: down line data density having sufficient data collected such that at least 98% of possible sensor readings captured within 30.00cm (0.98ft) or lesser spacing between points and no readings will fall outside of 1.00m (3.28ft). Evaluated MPC for sensor height above seafloor is 98% of the data will be collected within 1.5m (5.0ft) of the bottom. Exceptions include hazard deviation, localized depressions or trenches, and changes in river state conditions. The minimal data that did not meet this MPC was not processed and not present in the deliverables package. The horizontal positioning had to be accurate enough to allow reacquisition and selected targets lie within 2.00m (6.56ft) of IVS seed item. IVS test results, Static Tests, Pressure Tests, and GPS QC tests are available in **Appendix B and Appendix C**. The following provides a summary of the QC results:

1. **GPS Check Point:** All recorded points, were well within tolerance. The average stern variance from the reported location was 5.5cm (0.18ft).
2. **Static Background / Spike Test:** All static and spike tests were within acceptance criteria.
3. **Pressure Test:** All pressure test measurements were within acceptance criteria

## 7.0 CONCLUSIONS

All tasks involved in the SSS and DGM surveys of Pier 1 and Pier 2 on site UXO 2 were completed as scoped. Data that failed to meet the sensor height above seafloor MPC was minimal and not included in the deliverables. Supporting QC data and all other MQOs, as outlined in the MEC-QAPP were within specifications. DGM data were collected for 19.7ac of Pier 1 and 1736 targets selected (**Appendix A**) (**Plate 2**). The Pier 2 site accounted for 13.8ac and 793 targets were selected (**Appendix A**) (**Plate 3**). Of the 1736 targets selected for Pier 1, the DGM data located three SRAs, within which targets primarily could not be distinguished from one another, but 18 unique targets were selected within these SRAs as they were distinguishable. **Table 2** summarizes selected anomalies by type and classification (Note that some types have no targets but remain in the table because they were considered as part of the standard analyses).

Number of Targets	Type	Comments
1443	1	Point
0	2	Culture
12	3	Suspected Culture
0	4	Picked Outside of Target Area
0	5	Hazard Deviations
23	6	Anomaly Selected Below Established Threshold
112	7	Data Spike (Terrain Response, Ambient Noise, Poor Decay)
3	8	Saturated Response Area (SRA)
18	9	Anomaly selected within SRA
125	10	Side Scan Sonar (SSS) target
<b>1736</b>	<b>Total</b>	

**Table 2: Pier 1 Selected Anomalies by Type**

Of the 793 targets selected for Pier 2 (**Table 3**) one SRA was identified with one target selected inside of the polygon. Target density for Pier 1 appears greater on the west side of the existing structure and directly adjacent to the Pier's eastern extent. There is a significant trend of decreased anomaly density as distance increases to the east of Pier 1 that is not exhibited on the western side that is bounded closely by Trestle 1A. Pier 2 target density exhibits higher concentrations adjacent to the Pier and decreasing as distance increases from the structure. There is reason to suspect that dredging operations in the basin separating inactive Pier 2 and active Pier 3 could account for reduced target density in the basin when compared to an equal distance from Pier 2 to the east and the NWS Earle exclusion zone.

<b>Number of Targets</b>	<b>Type</b>	<b>Comments</b>
499	1	Point
0	2	Culture
0	3	Suspected Culture
0	4	Picked Outside of Target Area
0	5	Hazard Deviations
8	6	Anomaly Selected Below Established Threshold
267	7	Data Spike (Terrain Response, Ambient Noise, Poor Decay)
1	8	Saturated Response Area (SRA)
2	9	Anomaly selected within SRA
16	10	Side Scan Sonar (SSS) target
<b>793</b>	<b>Total</b>	

**Table 3: Pier 2 Selected Anomalies by Type**

## 7.0 REFERENCES

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<<http://tidesandcurrents.noaa.gov/noaatidepredictions/viewDailyPredictions.jsp?Stationid=8531662> >  
[Accessed 15 March 2014].

# Figures



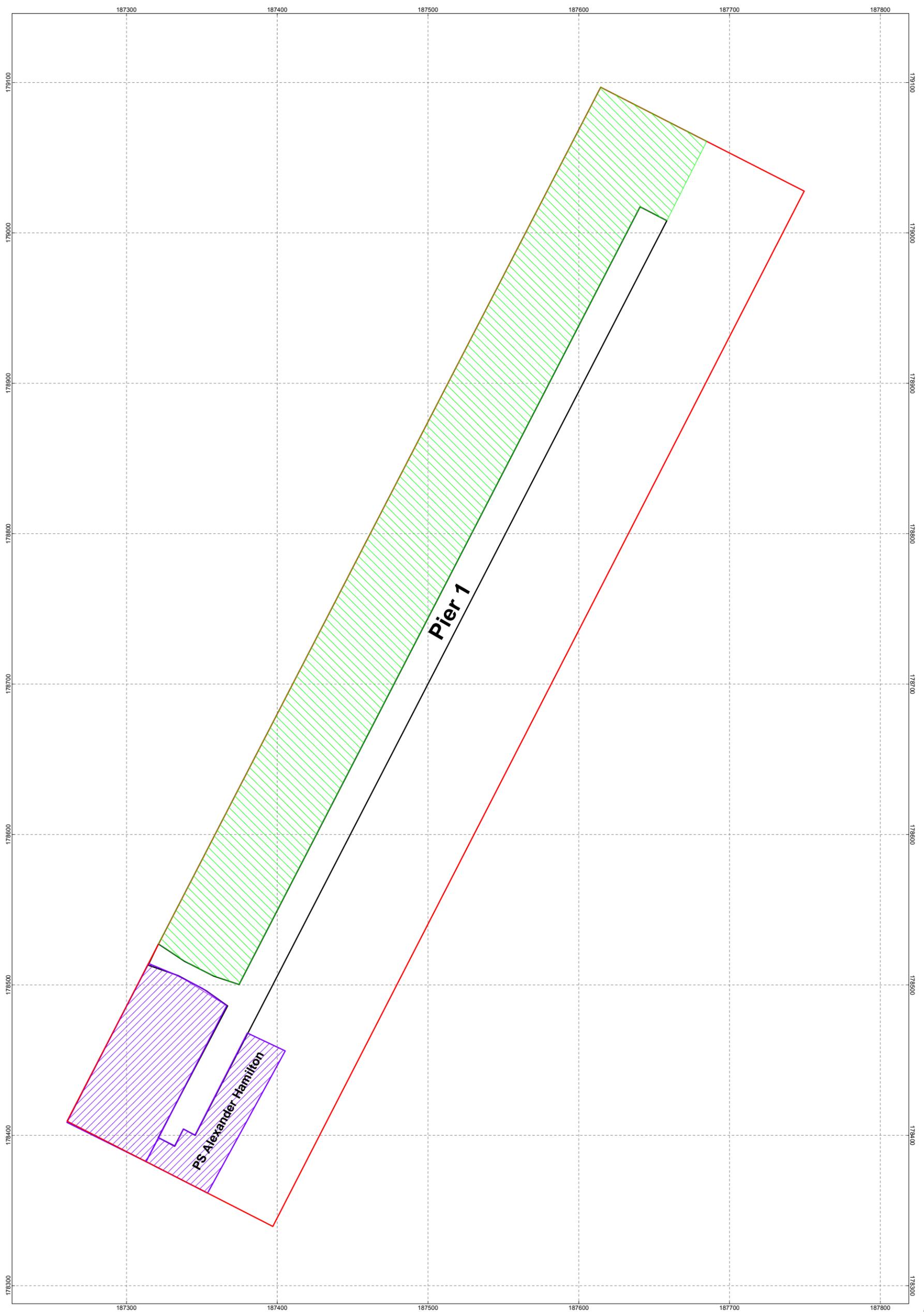
**Legend**

- NWS Earle Boundary - Waterfront Area
- NWS Earle Restricted Zone (33CFR334.102)
- UXO 2 Active Pier Area
- UXO 2 Inactive Pier Area



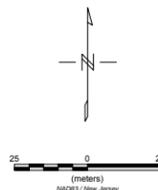
Imagery: 2007

**Figure 1**  
 UXO 2 Summary  
 NWS Earle Munitions Loading Pier Complex  
 Monmouth County, New Jersey



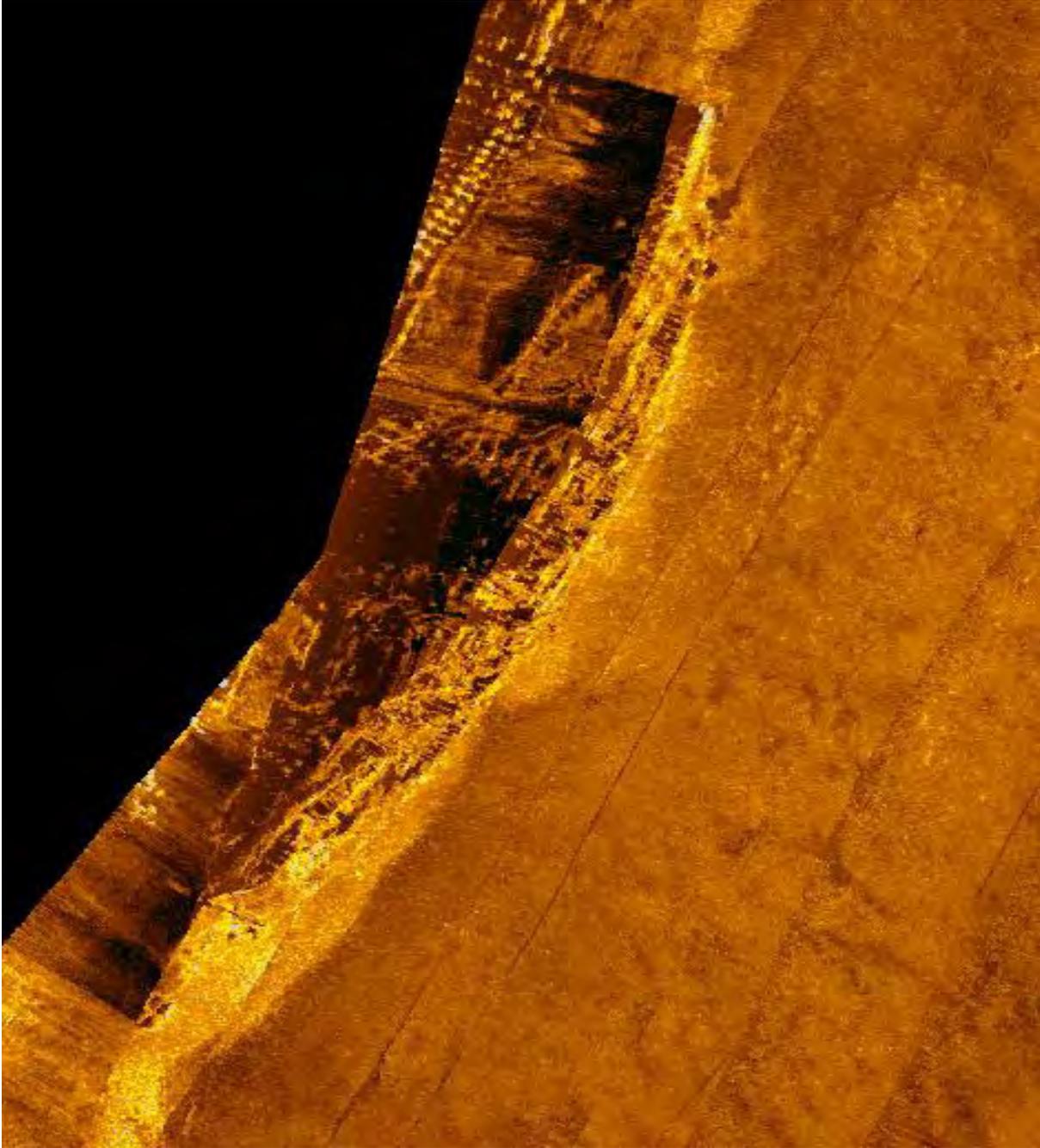
**Legend**

- UXO-002 Additional Side Scan Sonar (SSS) Area
- Inaccessible Areas

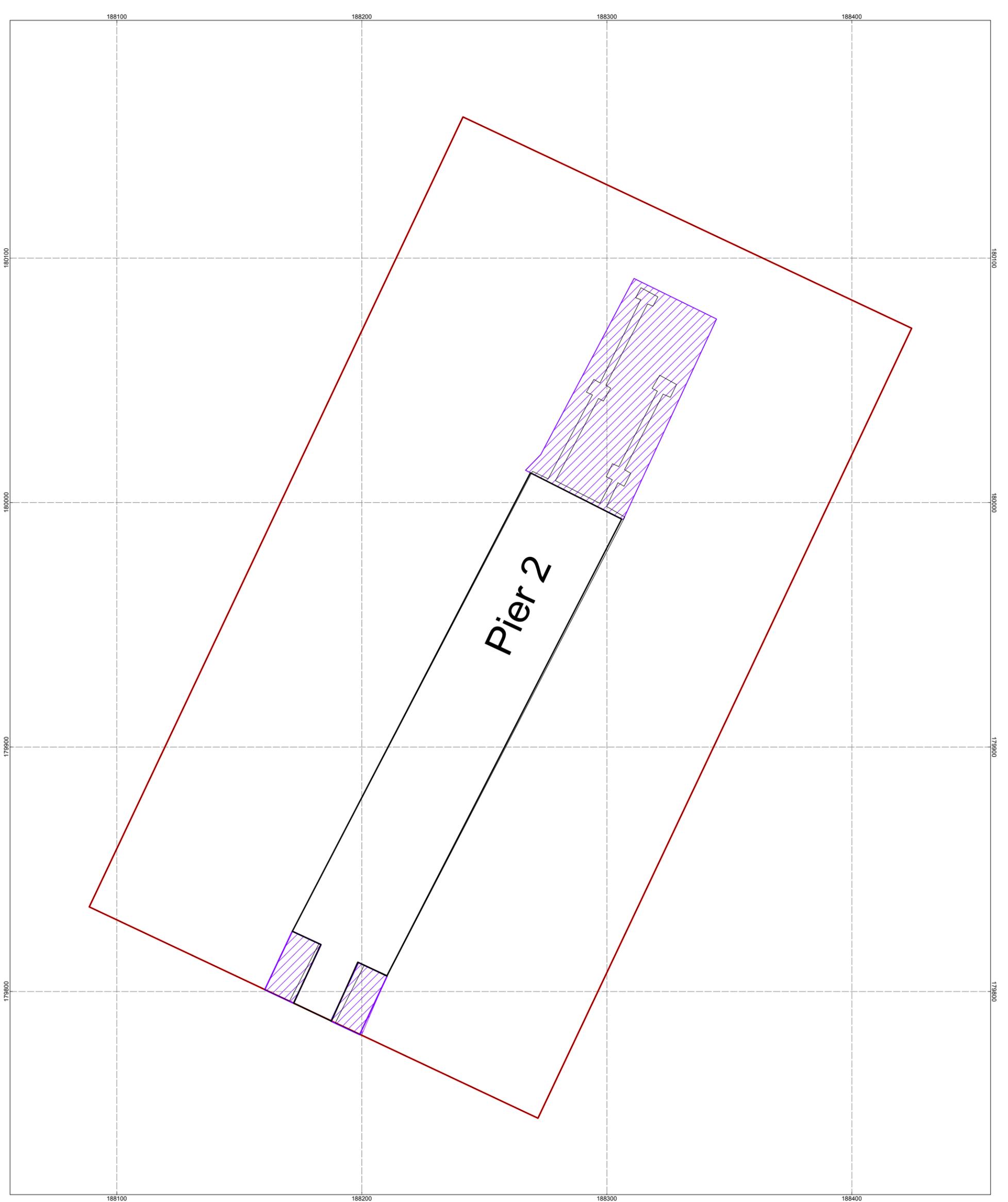


**Figure 2**

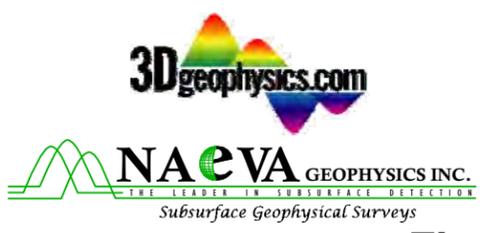
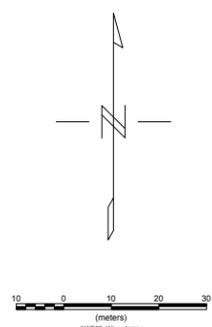
<b>Client: CH2M HILL</b>
Inaccessible Areas & Additional SSS Collection Area Pier 1 UXO-002 Munitions Loading Pier Complex Naval Weapons Station Earle Sandy Hook Bay, Monmouth County, New Jersey
Date of Survey: 04/11/14 Date of Map Creation: 05/14/14



**Figure 3: PS Alexander Historical Site lying adjacent to berthing at Pier 1**

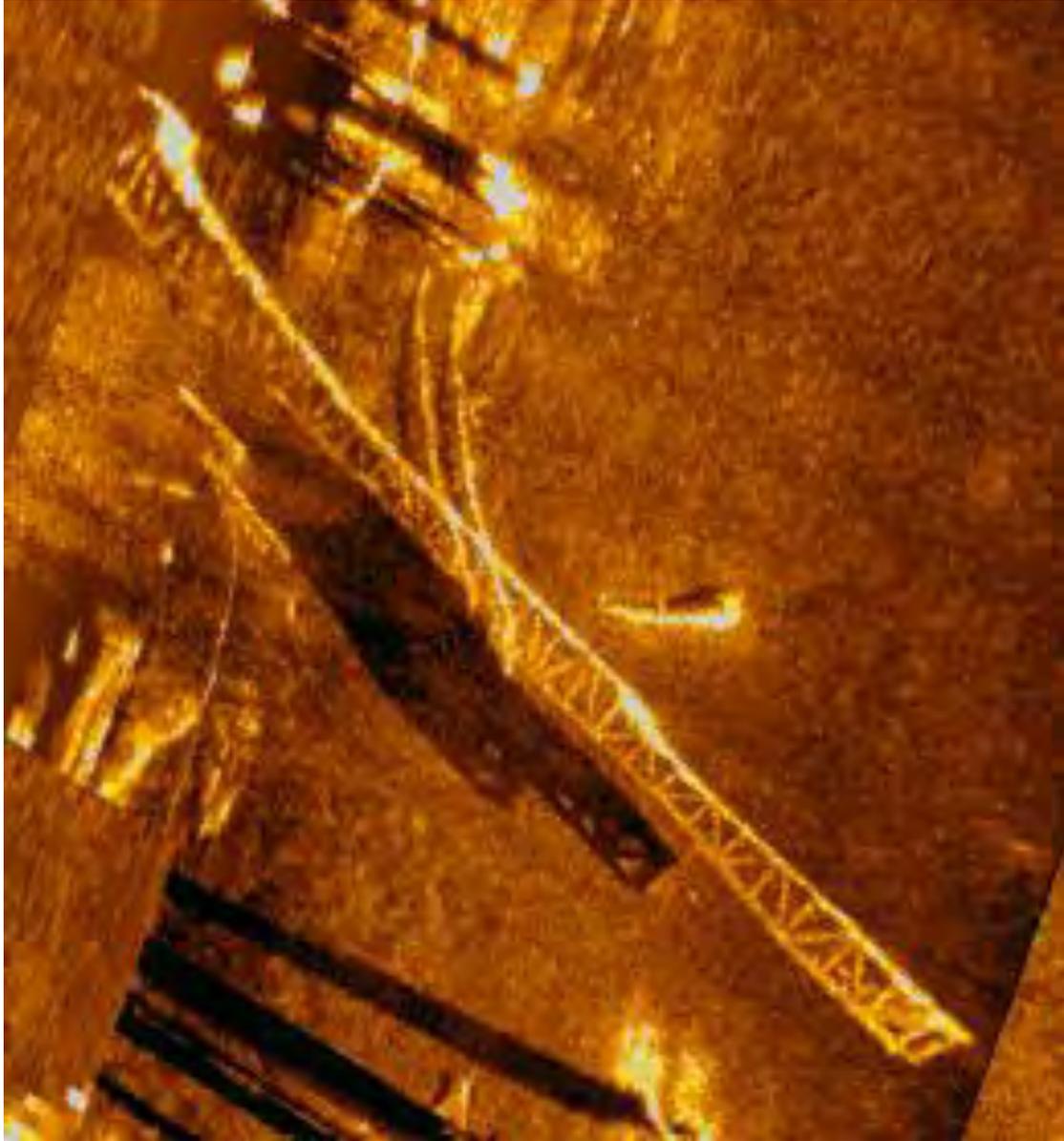


Legend  
 Inaccessible Areas

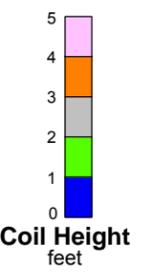
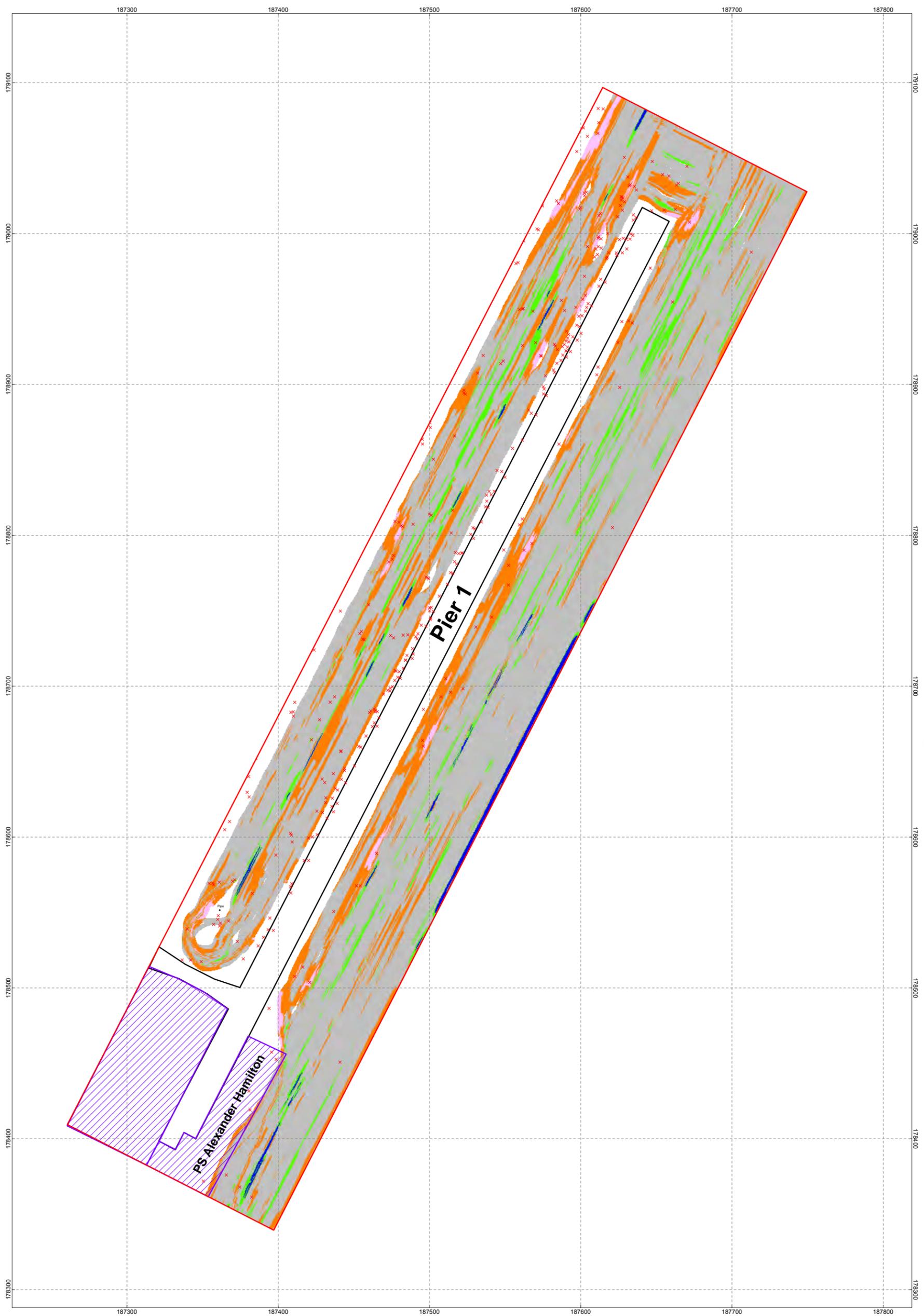


**Figure 4**

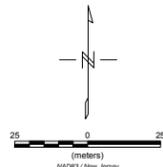
<b>Client: CH2M HILL</b>
Inaccessible Areas Pier 2 UXO-002 Munitions Loading Pier Complex Naval Weapons Station Earle Sandy Hook Bay, Monmouth County, New Jersey
Date of Survey: 03/29/2014 - 04/06/2014 Date of Map Creation: 06/09/2014



**Figure 5: Pier 2 suspected gangplank rising 7m (23ft) above sediment in approximately 10m (33ft) of water**



- Legend**
- Culture (if noted)
  - × UXO 2 SSS Point Targets
  - ▭ Pier Footprint
  - ▭ Pier SI Boundary
  - ▨ Inaccessible Areas

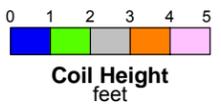
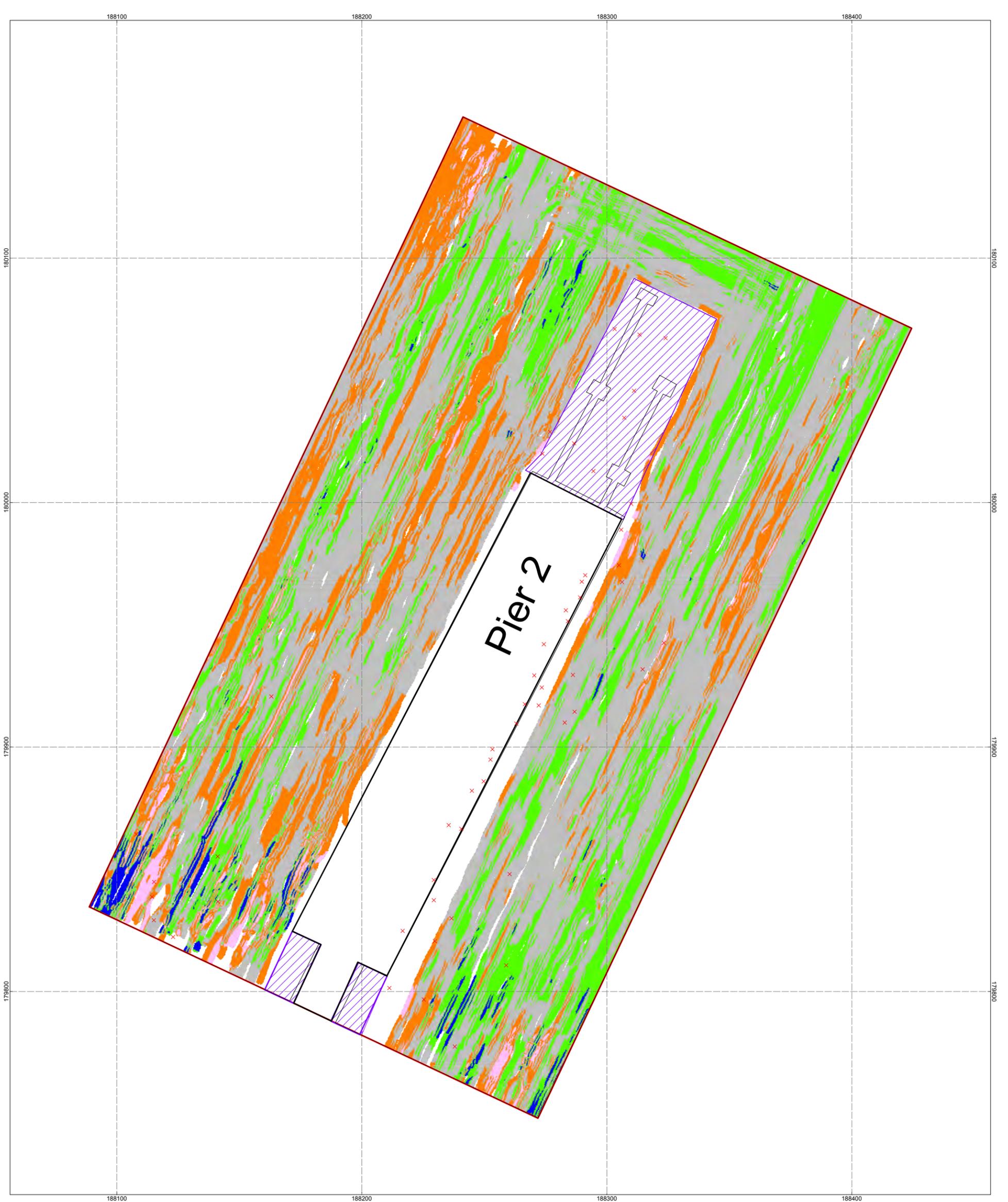


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 Subsurface Geophysical Surveys

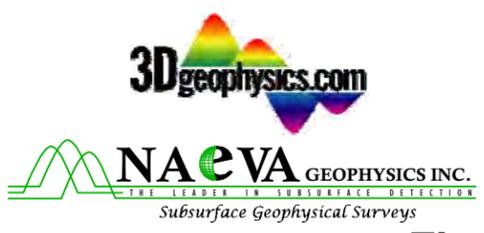
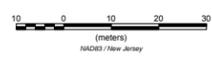
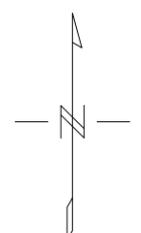


**Figure 6**

**Client: CH2M HILL**  
 Coil Height above Sea Floor - EM61-FLEX 3 Array  
 Pier 1 Mosaic  
 UXO-002 Munitions Loading Pier Complex  
 Naval Weapons Station Earle  
 Sandy Hook Bay, Monmouth County, New Jersey  
 Date of Survey: 04/07/14 - 04/13/14  
 Date of Map Creation: 06/09/14



- Legend**
- bouy Culture (if noted)
  - × UXO 2 SSS Point Targets
  - UXO 2 SSS Polygon Target Outlines
  - ▭ Pier 2 Footprint
  - ▭ Pier 2 SI Boundary
  - ▨ Inaccessible Areas

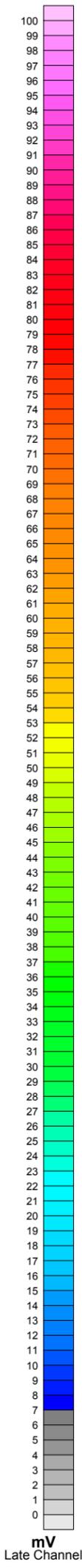
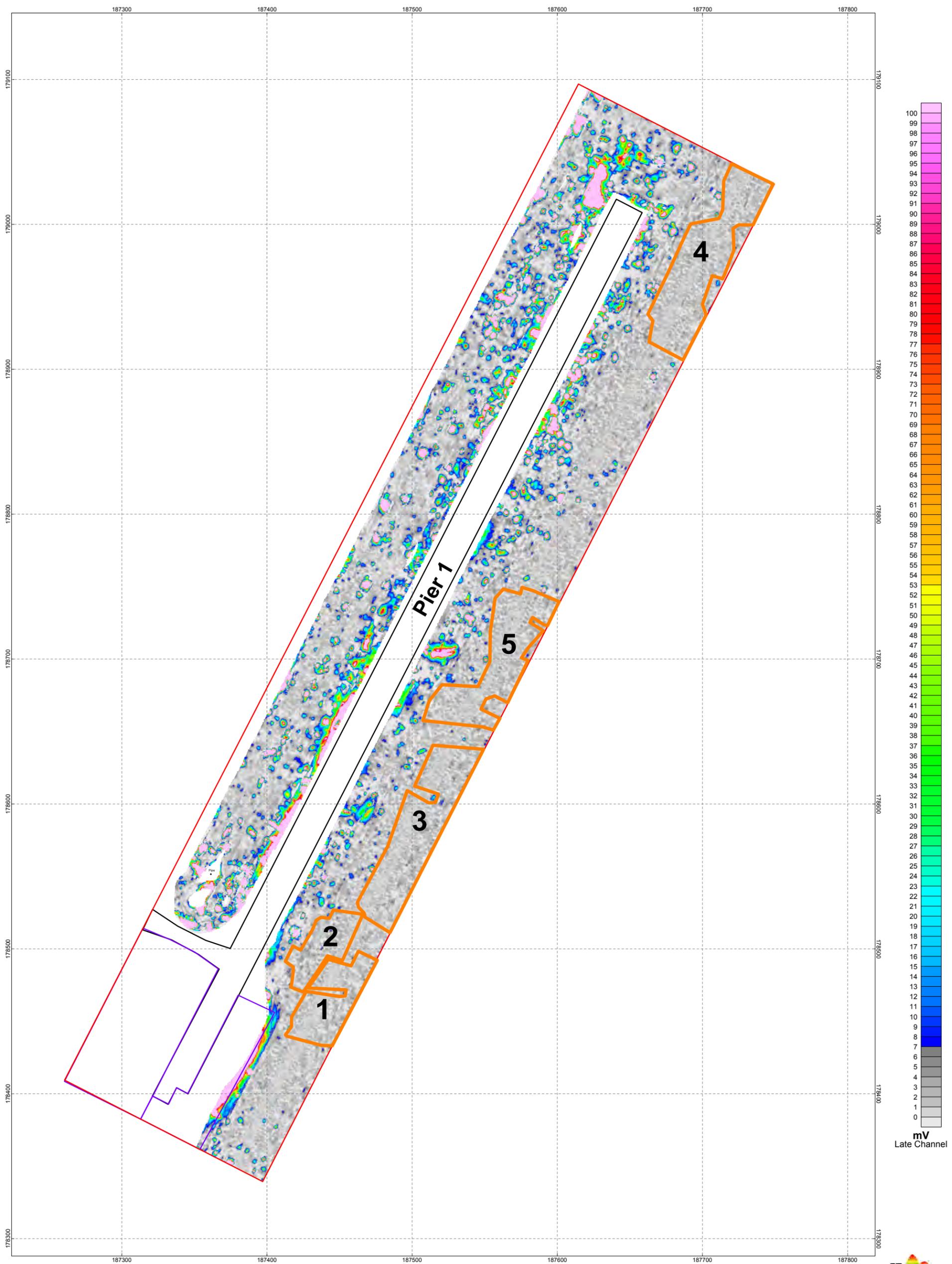


**Figure 7**

**Client: CH2M HILL**

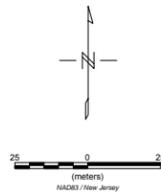
Coil Height above Sea Floor - EM61-FLEX 3 Array  
 Pier 2 Mosaic  
 UXO-002 Munitions Loading Pier Complex  
 Naval Weapons Station Earle  
 Sandy Hook Bay, Monmouth County, New Jersey

Date of Survey: 03/29/2014 - 04/06/2014  
 Date of Map Creation: 06/09/2014



Legend

**1** Noise Calculation Polygon



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Subsurface Geophysical Surveys

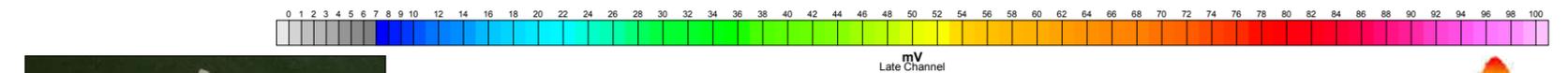
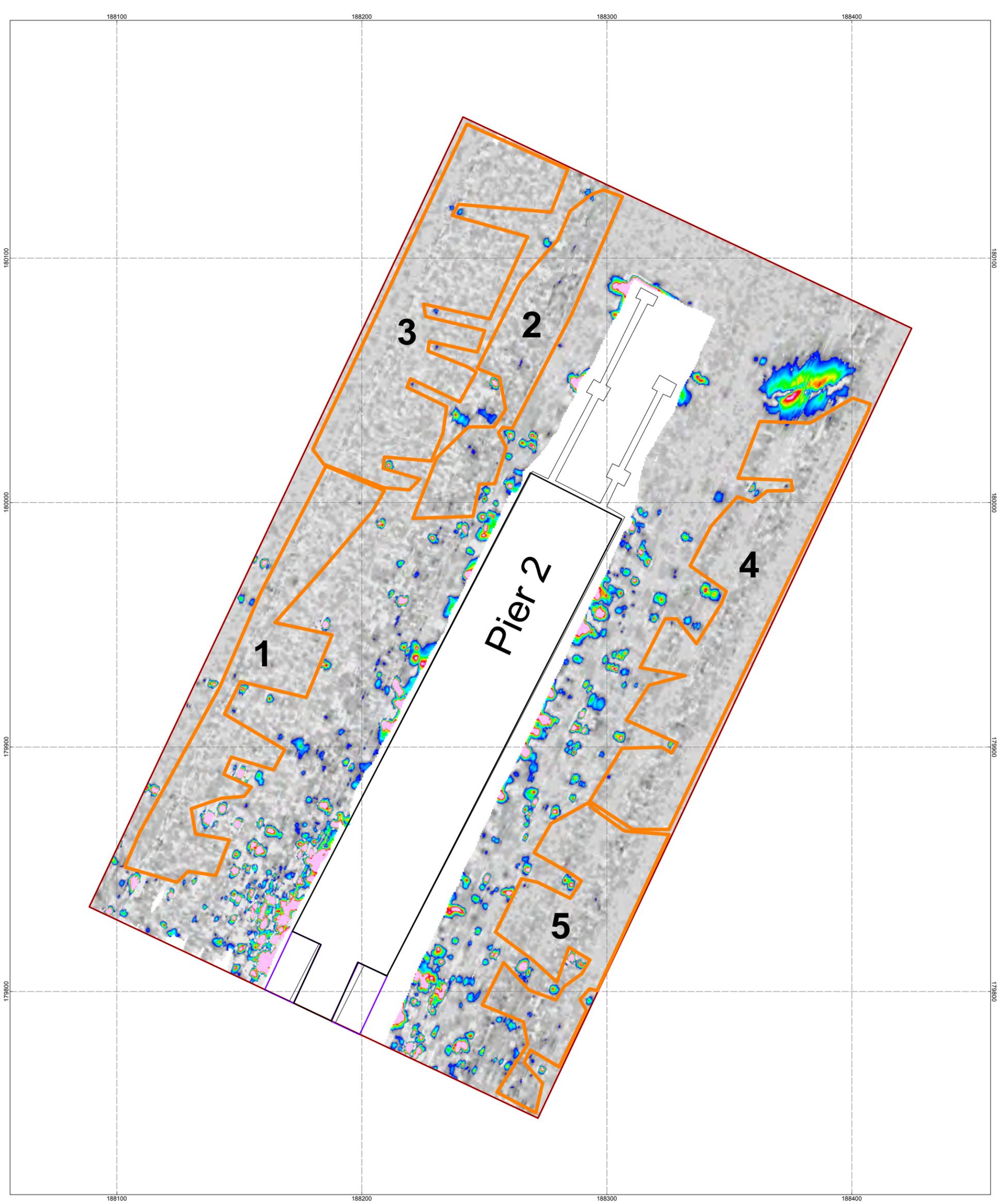


**Figure 8**

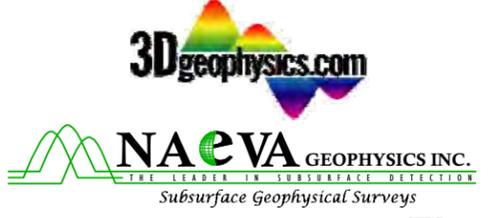
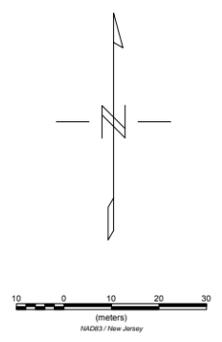
**Client: CH2M HILL**

Noise Calculation Polygons on EM61-FLEX 3 Array Data  
Pier 1 Mosaic  
UXO-0002 Munitions Loading Pier Complex  
Naval Weapons Station Earle  
Sandy Hook Bay, Monmouth County, New Jersey

Date of Survey: 04/07/14 - 04/13/14  
Date of Map Creation: 04/23/14



Legend  
**1** Noise Calculation Polygon



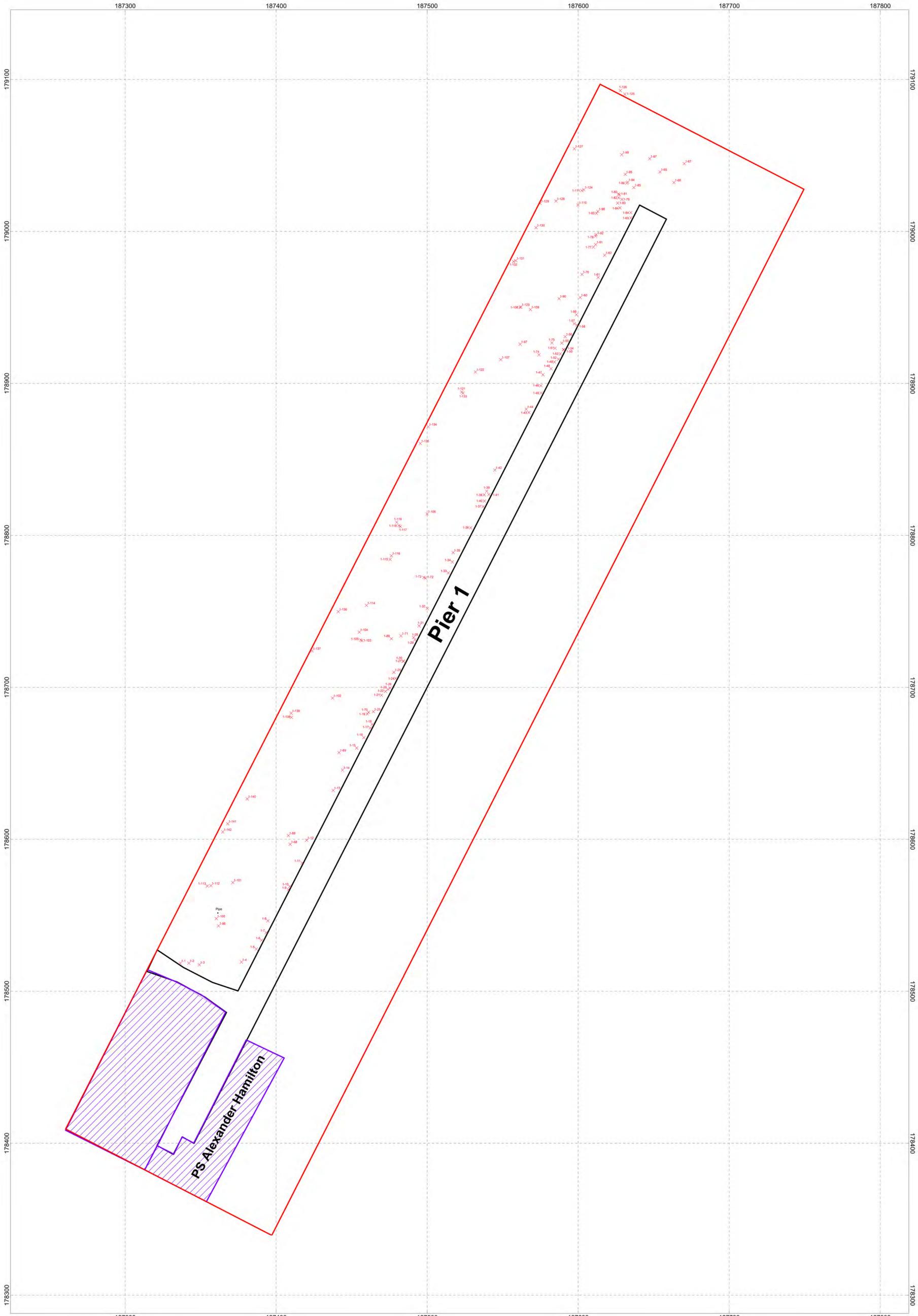
**Figure 9**

**Client: CH2M HILL**

Noise Calculation Polygons on EM61-Flex 3 Array Data  
 Pier 2 Mosaic  
 UXO-0002 Munitions Loading Pier Complex  
 Naval Weapons Station Earle  
 Sandy Hook Bay, Monmouth County, New Jersey

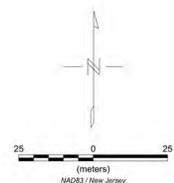
Date of Survey: 03/29/2014 - 04/06/2014  
 Date of Map Creation: 04/23/2014

# Plates



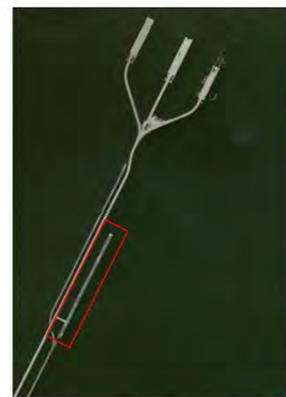
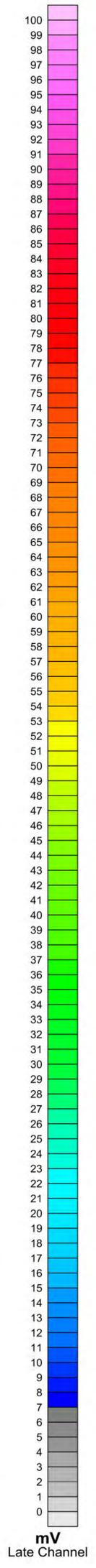
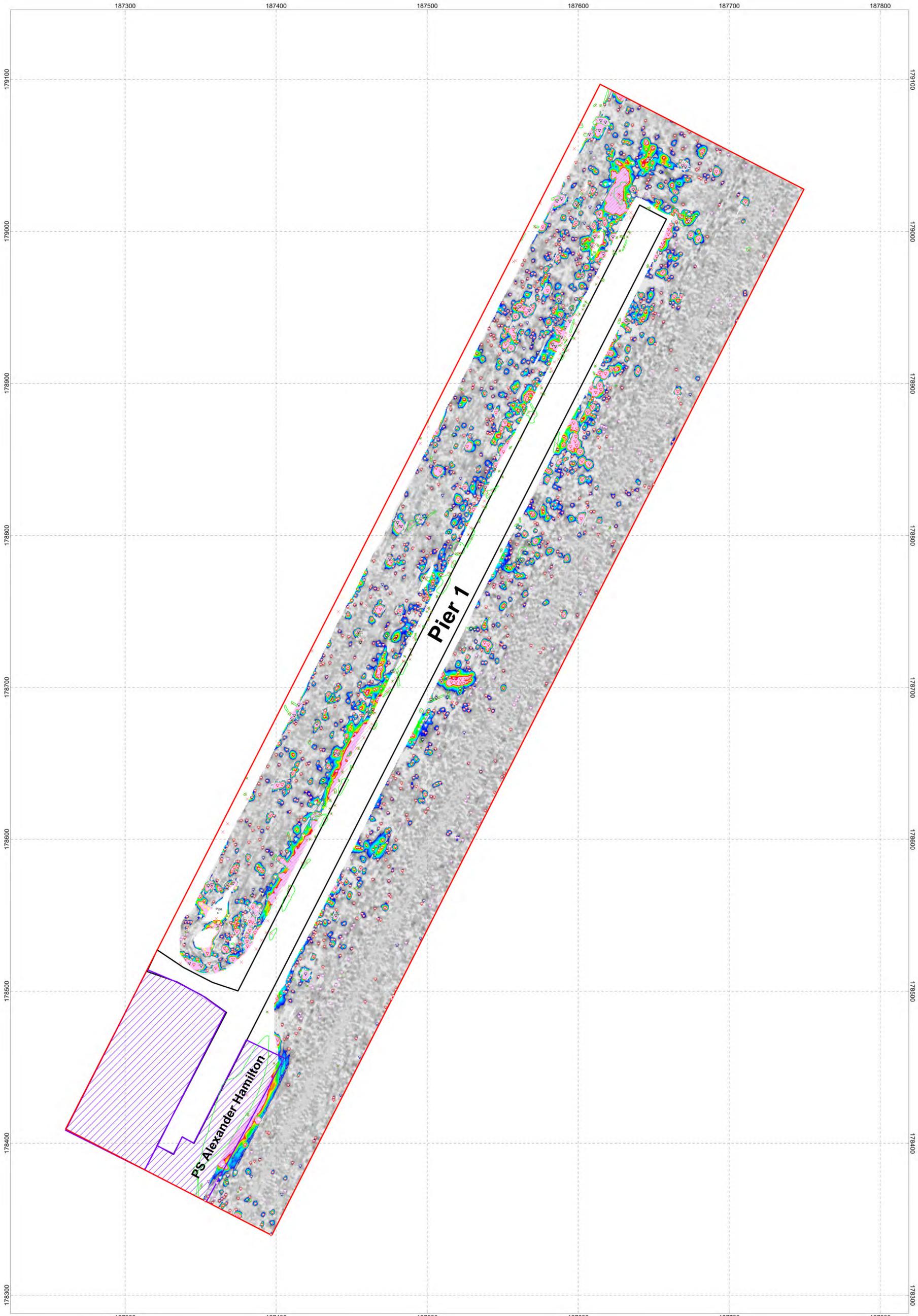
**Legend**

- Culture (if noted)
- 1-34 × UXO-0002 Additional SSS Point Targets with ID
- Inaccessible Areas



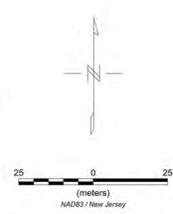
**Plate: 1**

<p><b>Client: CH2M HILL</b></p> <p>EDGETECH 4125 - Side Scan Sonar (SSS)          Pier 1 - Additional SSS Targets          UXO-0002 Munitions Loading Pier Complex          Naval Weapons Station Earle          Sandy Hook Bay, Monmouth County, New Jersey</p> <p>Date of Survey: 04/11/14          Date of Map Creation: 05/14/14</p>
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- Legend**
- bouy Culture (if noted)
  - × UXO-0002 SSS Point Targets
  - UXO-0002 SSS Polygon Target Outlines
  - ▭ Pier Footprint
  - ▭ Pier SI Boundary
  - ▭ Inaccessible Areas
  - ▭ Saturated Response Area (SRA)  
(if noted see individual ply files for all points)

- Selected Targets**  
(See Target Pick List For Response and Location)
- ▽ 1 - Point
  - ▽ 2 - Culture
  - ▽ 3 - Suspected Culture
  - ▽ 4 - Picked Outside of Target Area
  - ▽ 5 - Hazard Deviation
  - ▽ 6 - Anomaly Selected Below Established Threshold
  - ▽ 7 - Data Spike (Terrain Response, Ambient Noise, Poor Decays)
  - ▽ 8 - Saturated Response Area (SRA)
  - ▽ 9 - Selected within SRA
  - ▽ 10 - Side Scan Sonar Target (SSS)

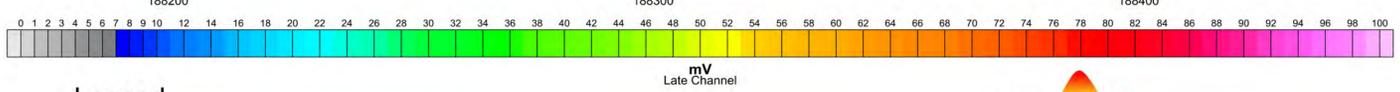
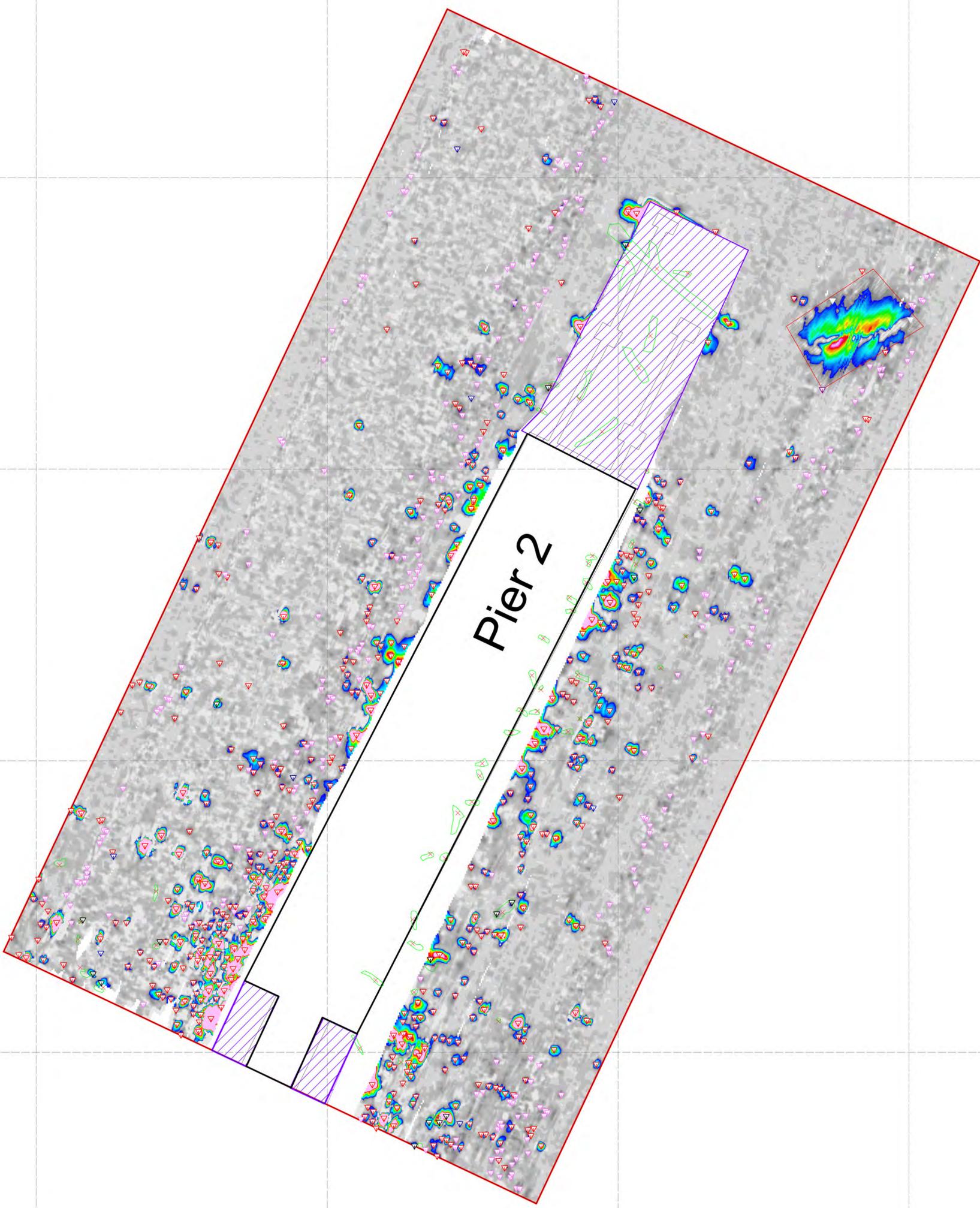


**Plate 2**

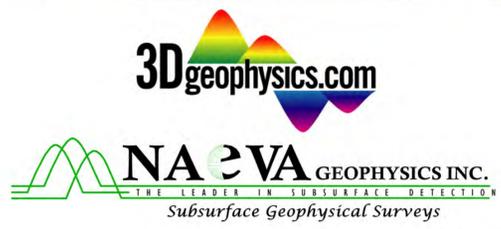
**Client: CH2M HILL**

EM61-FLEX 3 Array  
Pier 1 Mosaic  
UXO-0002 Munitions Loading Pier Complex  
Naval Weapons Station Earle  
Sandy Hook Bay, Monmouth County, New Jersey

Date of Survey: 04/07/14 - 04/13/14  
Date of Map Creation: 04/23/14



- Legend**
- bouy ● Culture (if noted)
  - × UXO-0002 SSS Point Targets
  - UXO-0002 SSS Polygon Target Outlines
  - ▭ Pier 2 Footprint
  - ▭ Pier 2 SI Boundary
  - ▭ Inaccessible Areas
  - ▭ Saturated Response Area (SRA)  
(If noted see individual ply files for all points)
- Selected Targets**  
(See Target Pick List For Response and Location)
- ▽ 1 - Point
  - ▽ 2 - Culture
  - ▽ 3 - Suspected Culture
  - ▽ 4 - Picked Outside of Target Area
  - ▽ 5 - Hazard Deviation
  - ▽ 6 - Anomaly Selected Below Established Threshold
  - ▽ 7 - Data Spike (Terrain Response, Ambient Noise, Poor Decays)
  - ▽ 8 - Saturated Response Area (SRA)
  - ▽ 9 - Selected within SRA
  - ▽ 10 - Side Scan Sonar Target (SSS)



**Plate 3**

**Client: CH2M HILL**

EM61-FLEX 3 Array  
Pier 2 Mosaic  
UXO-0002 Munitions Loading Pier Complex  
Naval Weapons Station Earle  
Sandy Hook Bay, Monmouth County, New Jersey

Date of Survey: 03/29/2014 - 04/06/2014  
Date of Map Creation: 04/23/2014

Appendix A  
Pier 1 Master Target List  
Pier 2 Master Target List  
SSS Target List  
SSS Target Reports

NWS Earle  
Pier 1 Master Target List

ID	GRIDCELLID	X1	Y1	X2	Y2	X3	Y3	X4	Y4	TYPE	AMPLITUDE	UNITS
1	Pier 1	187339.00	178524.50	0	0	0	0	0	0	1	124.42	mV
2	Pier 1	187341.00	178524.00	0	0	0	0	0	0	1	28.17	mV
3	Pier 1	187340.00	178521.42	0	0	0	0	0	0	1	85.95	mV
4	Pier 1	187342.50	178518.50	0	0	0	0	0	0	10	14329.92	mV
5	Pier 1	187345.50	178517.50	0	0	0	0	0	0	1	19370.18	mV
6	Pier 1	187344.50	178522.00	0	0	0	0	0	0	1	53.51	mV
7	Pier 1	187347.50	178521.00	0	0	0	0	0	0	1	192.96	mV
8	Pier 1	187350.35	178516.78	0	0	0	0	0	0	10	2734.66	mV
9	Pier 1	187354.56	178513.63	0	0	0	0	0	0	1	8.18	mV
10	Pier 1	187359.98	178515.35	0	0	0	0	0	0	1	1365.31	mV
11	Pier 1	187355.76	178518.31	0	0	0	0	0	0	1	8.43	mV
12	Pier 1	187354.46	178524.84	0	0	0	0	0	0	1	614.51	mV
13	Pier 1	187353.00	178527.50	0	0	0	0	0	0	3	2882.46	mV
14	Pier 1	187357.78	178529.56	0	0	0	0	0	0	3	223.14	mV
15	Pier 1	187359.50	178524.00	0	0	0	0	0	0	1	226.89	mV
16	Pier 1	187363.11	178521.02	0	0	0	0	0	0	1	35.90	mV
17	Pier 1	187367.00	178520.50	0	0	0	0	0	0	1	19.58	mV
18	Pier 1	187371.50	178521.00	0	0	0	0	0	0	1	5996.90	mV
19	Pier 1	187373.00	178525.50	0	0	0	0	0	0	1	7.66	mV
20	Pier 1	187371.00	178526.00	0	0	0	0	0	0	1	8.50	mV
21	Pier 1	187371.00	178527.50	0	0	0	0	0	0	1	16.60	mV
22	Pier 1	187367.23	178526.69	0	0	0	0	0	0	1	322.09	mV
23	Pier 1	187365.69	178528.29	0	0	0	0	0	0	1	598.94	mV
24	Pier 1	187368.00	178533.00	0	0	0	0	0	0	1	163.35	mV
25	Pier 1	187367.00	178533.50	0	0	0	0	0	0	1	85.84	mV
26	Pier 1	187371.00	178536.50	0	0	0	0	0	0	1	8.65	mV
27	Pier 1	187368.00	178536.50	0	0	0	0	0	0	1	44.25	mV
28	Pier 1	187367.50	178537.50	0	0	0	0	0	0	1	26.06	mV
29	Pier 1	187363.99	178535.97	0	0	0	0	0	0	1	14.02	mV
30	Pier 1	187358.00	178543.50	0	0	0	0	0	0	3	2973.82	mV
31	Pier 1	187361.47	178543.42	0	0	0	0	0	0	10	2283.69	mV
32	Pier 1	187362.00	178545.50	0	0	0	0	0	0	3	176.28	mV
33	Pier 1	187363.50	178544.00	0	0	0	0	0	0	1	142.64	mV
34	Pier 1	187367.58	178548.33	0	0	0	0	0	0	3	66.25	mV
35	Pier 1	187368.50	178550.00	0	0	0	0	0	0	3	89.01	mV
36	Pier 1	187370.00	178545.00	0	0	0	0	0	0	1	18.11	mV
37	Pier 1	187371.50	178544.50	0	0	0	0	0	0	1	105.79	mV
38	Pier 1	187373.00	178542.00	0	0	0	0	0	0	1	126.10	mV
39	Pier 1	187374.00	178539.50	0	0	0	0	0	0	1	2020.63	mV
40	Pier 1	187378.00	178543.00	0	0	0	0	0	0	1	148.05	mV
41	Pier 1	187375.00	178544.00	0	0	0	0	0	0	1	126.04	mV
42	Pier 1	187373.50	178545.50	0	0	0	0	0	0	1	378.92	mV
43	Pier 1	187374.00	178547.50	0	0	0	0	0	0	1	129.70	mV
44	Pier 1	187375.50	178549.50	0	0	0	0	0	0	1	73.05	mV
45	Pier 1	187378.00	178551.00	0	0	0	0	0	0	1	20.76	mV
46	Pier 1	187379.50	178552.00	0	0	0	0	0	0	1	32.61	mV
47	Pier 1	187379.50	178546.50	0	0	0	0	0	0	1	166.42	mV
48	Pier 1	187382.50	178546.00	0	0	0	0	0	0	1	8825.06	mV
49	Pier 1	187384.33	178545.51	0	0	0	0	0	0	1	8667.00	mV
50	Pier 1	187388.50	178546.50	0	0	0	0	0	0	1	116.52	mV
51	Pier 1	187386.50	178544.00	0	0	0	0	0	0	1	50.60	mV
52	Pier 1	187387.87	178541.57	0	0	0	0	0	0	1	124.35	mV
53	Pier 1	187386.00	178538.50	0	0	0	0	0	0	1	4171.50	mV
54	Pier 1	187382.50	178539.89	0	0	0	0	0	0	1	5862.24	mV
55	Pier 1	187380.50	178536.00	0	0	0	0	0	0	1	2784.69	mV
56	Pier 1	187380.75	178532.94	0	0	0	0	0	0	1	4449.08	mV
57	Pier 1	187380.98	178529.78	0	0	0	0	0	0	1	2164.99	mV
58	Pier 1	187376.00	178532.00	0	0	0	0	0	0	1	10.21	mV
59	Pier 1	187374.50	178528.00	0	0	0	0	0	0	1	111.22	mV
60	Pier 1	187376.50	178525.00	0	0	0	0	0	0	1	24.98	mV

61	Pier 1	187410.00	178510.50	0	0	0	0	0	0	1	21.05	mV
62	Pier 1	187409.00	178509.00	0	0	0	0	0	0	1	20.31	mV
63	Pier 1	187408.00	178507.50	0	0	0	0	0	0	1	19.67	mV
64	Pier 1	187408.50	178505.00	0	0	0	0	0	0	1	18.55	mV
65	Pier 1	187407.00	178504.00	0	0	0	0	0	0	1	18.91	mV
66	Pier 1	187408.00	178502.00	0	0	0	0	0	0	1	13.87	mV
67	Pier 1	187406.50	178499.50	0	0	0	0	0	0	1	25.16	mV
68	Pier 1	187405.00	178500.00	0	0	0	0	0	0	1	33.22	mV
69	Pier 1	187403.00	178497.00	0	0	0	0	0	0	1	30.68	mV
70	Pier 1	187400.50	178495.00	0	0	0	0	0	0	1	405.25	mV
71	Pier 1	187409.39	178493.79	0	0	0	0	0	0	1	15.19	mV
72	Pier 1	187411.00	178500.00	0	0	0	0	0	0	1	21.41	mV
73	Pier 1	187416.00	178505.00	0	0	0	0	0	0	1	43.33	mV
74	Pier 1	187423.00	178503.50	0	0	0	0	0	0	7	8.08	mV
75	Pier 1	187424.00	178502.50	0	0	0	0	0	0	7	10.10	mV
76	Pier 1	187429.28	178501.59	0	0	0	0	0	0	7	7.14	mV
77	Pier 1	187436.00	178492.00	0	0	0	0	0	0	7	7.28	mV
78	Pier 1	187429.00	178483.00	0	0	0	0	0	0	7	7.07	mV
79	Pier 1	187423.63	178493.26	0	0	0	0	0	0	1	9.11	mV
80	Pier 1	187416.00	178485.50	0	0	0	0	0	0	7	8.16	mV
81	Pier 1	187415.00	178483.50	0	0	0	0	0	0	7	8.13	mV
82	Pier 1	187416.50	178482.00	0	0	0	0	0	0	7	7.21	mV
83	Pier 1	187415.50	178475.50	0	0	0	0	0	0	1	9.73	mV
84	Pier 1	187413.27	178472.28	0	0	0	0	0	0	1	8.62	mV
85	Pier 1	187404.00	178478.00	0	0	0	0	0	0	1	14.04	mV
86	Pier 1	187401.00	178468.00	0	0	0	0	0	0	1	444.79	mV
87	Pier 1	187405.35	178468.47	0	0	0	0	0	0	1	8.70	mV
88	Pier 1	187407.57	178469.91	0	0	0	0	0	0	1	8.08	mV
89	Pier 1	187408.50	178462.00	0	0	0	0	0	0	1	8.41	mV
90	Pier 1	187414.85	178444.61	0	0	0	0	0	0	1	122.64	mV
91	Pier 1	187408.02	178438.28	0	0	0	0	0	0	1	9.98	mV
92	Pier 1	187388.50	178415.50	0	0	0	0	0	0	9	3765.62	mV
93	Pier 1	187394.00	178407.18	0	0	0	0	0	0	1	7.42	mV
94	Pier 1	187395.33	178406.68	0	0	0	0	0	0	1	8.28	mV
95	Pier 1	187379.43	178398.91	0	0	0	0	0	0	1	181.68	mV
96	Pier 1	187383.69	178394.26	0	0	0	0	0	0	7	7.18	mV
97	Pier 1	187389.14	178389.12	0	0	0	0	0	0	1	18.82	mV
98	Pier 1	187385.66	178388.07	0	0	0	0	0	0	1	8.52	mV
99	Pier 1	187383.00	178387.00	0	0	0	0	0	0	1	10.43	mV
100	Pier 1	187381.61	178380.98	0	0	0	0	0	0	1	58.15	mV
101	Pier 1	187383.57	178378.10	0	0	0	0	0	0	6	6.83	mV
102	Pier 1	187373.00	178381.00	0	0	0	0	0	0	9	363.84	mV
103	Pier 1	187364.50	178386.00	0	0	0	0	0	0	9	459.07	mV
104	Pier 1	187368.00	178379.00	0	0	0	0	0	0	9	10.83	mV
105	Pier 1	187367.50	178374.00	0	0	0	0	0	0	10	223.80	mV
106	Pier 1	187362.83	178377.46	0	0	0	0	0	0	9	20.09	mV
107	Pier 1	187360.85	178373.79	0	0	0	0	0	0	7	9.43	mV
108	Pier 1	187363.92	178367.85	0	0	0	0	0	0	1	53.06	mV
109	Pier 1	187366.70	178366.02	0	0	0	0	0	0	1	9.08	mV
110	Pier 1	187365.50	178364.50	0	0	0	0	0	0	1	7.27	mV
111	Pier 1	187363.99	178363.28	0	0	0	0	0	0	1	52.03	mV
112	Pier 1	187362.50	178362.00	0	0	0	0	0	0	1	15.11	mV
113	Pier 1	187359.34	178363.43	0	0	0	0	0	0	7	9.05	mV
114	Pier 1	187357.77	178361.02	0	0	0	0	0	0	1	10.90	mV
115	Pier 1	187355.00	178365.00	0	0	0	0	0	0	1	7.62	mV
116	Pier 1	187353.00	178362.24	0	0	0	0	0	0	1	62.87	mV
117	Pier 1	187363.00	178357.50	0	0	0	0	0	0	1	30.10	mV
118	Pier 1	187365.00	178359.00	0	0	0	0	0	0	1	243.72	mV
119	Pier 1	187367.00	178360.50	0	0	0	0	0	0	1	18.52	mV
120	Pier 1	187369.50	178355.50	0	0	0	0	0	0	1	9.71	mV
121	Pier 1	187373.89	178352.27	0	0	0	0	0	0	1	2482.33	mV

122	Pier 1	187376.00	178351.50	0	0	0	0	0	0	1	684.53	mV
123	Pier 1	187373.43	178356.23	0	0	0	0	0	0	1	7.77	mV
124	Pier 1	187374.86	178363.77	0	0	0	0	0	0	1	7.29	mV
125	Pier 1	187376.50	178370.00	0	0	0	0	0	0	1	7.24	mV
126	Pier 1	187380.69	178362.63	0	0	0	0	0	0	10	44.37	mV
127	Pier 1	187382.50	178364.50	0	0	0	0	0	0	1	12.03	mV
128	Pier 1	187386.22	178360.27	0	0	0	0	0	0	1	57.60	mV
129	Pier 1	187391.50	178353.00	0	0	0	0	0	0	1	30.57	mV
130	Pier 1	187390.50	178346.50	0	0	0	0	0	0	1	214.64	mV
131	Pier 1	187396.50	178340.00	0	0	0	0	0	0	1	18.75	mV
132	Pier 1	187397.04	178347.55	0	0	0	0	0	0	1	56.10	mV
133	Pier 1	187397.50	178354.50	0	0	0	0	0	0	1	132.84	mV
134	Pier 1	187403.77	178366.40	0	0	0	0	0	0	6	6.38	mV
135	Pier 1	187405.85	178368.49	0	0	0	0	0	0	7	7.93	mV
136	Pier 1	187405.98	178376.71	0	0	0	0	0	0	1	72.78	mV
137	Pier 1	187397.64	178380.80	0	0	0	0	0	0	1	31.30	mV
138	Pier 1	187410.86	178387.16	0	0	0	0	0	0	1	8.90	mV
139	Pier 1	187415.96	178385.00	0	0	0	0	0	0	6	6.15	mV
140	Pier 1	187425.00	178401.50	0	0	0	0	0	0	1	8.40	mV
141	Pier 1	187426.00	178403.50	0	0	0	0	0	0	1	7.96	mV
142	Pier 1	187438.00	178428.50	0	0	0	0	0	0	1	7.54	mV
143	Pier 1	187438.08	178430.06	0	0	0	0	0	0	1	11.02	mV
144	Pier 1	187442.73	178431.61	0	0	0	0	0	0	6	6.57	mV
145	Pier 1	187455.33	178456.76	0	0	0	0	0	0	6	6.90	mV
146	Pier 1	187453.00	178469.00	0	0	0	0	0	0	1	9.03	mV
147	Pier 1	187466.79	178478.57	0	0	0	0	0	0	6	6.94	mV
148	Pier 1	187472.50	178489.50	0	0	0	0	0	0	1	7.33	mV
149	Pier 1	187476.50	178494.82	0	0	0	0	0	0	1	9.01	mV
150	Pier 1	187477.53	178496.93	0	0	0	0	0	0	1	7.81	mV
151	Pier 1	187479.00	178501.00	0	0	0	0	0	0	1	7.63	mV
152	Pier 1	187465.69	178508.06	0	0	0	0	0	0	1	7.12	mV
153	Pier 1	187459.00	178493.00	0	0	0	0	0	0	1	10.42	mV
154	Pier 1	187437.50	178500.50	0	0	0	0	0	0	1	9.90	mV
155	Pier 1	187439.52	178504.02	0	0	0	0	0	0	7	9.72	mV
156	Pier 1	187441.59	178507.69	0	0	0	0	0	0	7	7.48	mV
157	Pier 1	187443.50	178512.50	0	0	0	0	0	0	7	9.16	mV
158	Pier 1	187442.50	178523.50	0	0	0	0	0	0	1	21.51	mV
159	Pier 1	187448.00	178521.00	0	0	0	0	0	0	7	7.68	mV
160	Pier 1	187450.00	178528.00	0	0	0	0	0	0	1	12.07	mV
161	Pier 1	187444.50	178529.50	0	0	0	0	0	0	1	54.45	mV
162	Pier 1	187442.17	178529.69	0	0	0	0	0	0	1	9.03	mV
163	Pier 1	187443.70	178534.65	0	0	0	0	0	0	7	7.82	mV
164	Pier 1	187442.50	178536.00	0	0	0	0	0	0	1	16.47	mV
165	Pier 1	187438.50	178534.00	0	0	0	0	0	0	1	21.15	mV
166	Pier 1	187437.50	178531.00	0	0	0	0	0	0	1	48.17	mV
167	Pier 1	187436.00	178531.50	0	0	0	0	0	0	1	20.49	mV
168	Pier 1	187437.05	178534.03	0	0	0	0	0	0	1	24.43	mV
169	Pier 1	187435.71	178537.32	0	0	0	0	0	0	1	25.80	mV
170	Pier 1	187432.50	178537.50	0	0	0	0	0	0	1	8.02	mV
171	Pier 1	187431.50	178533.50	0	0	0	0	0	0	1	7.54	mV
172	Pier 1	187432.00	178529.50	0	0	0	0	0	0	1	9.44	mV
173	Pier 1	187428.00	178531.50	0	0	0	0	0	0	1	8.79	mV
174	Pier 1	187425.00	178523.00	0	0	0	0	0	0	1	533.99	mV
175	Pier 1	187431.00	178516.00	0	0	0	0	0	0	1	7.28	mV
176	Pier 1	187430.85	178510.25	0	0	0	0	0	0	7	7.30	mV
177	Pier 1	187428.00	178509.50	0	0	0	0	0	0	1	40.83	mV
178	Pier 1	187419.50	178511.50	0	0	0	0	0	0	10	25247.60	mV
179	Pier 1	187413.00	178517.00	0	0	0	0	0	0	1	7.85	mV
180	Pier 1	187414.00	178519.00	0	0	0	0	0	0	1	9.21	mV
181	Pier 1	187416.09	178521.30	0	0	0	0	0	0	1	7.54	mV
182	Pier 1	187416.79	178526.77	0	0	0	0	0	0	1	28.35	mV

183	Pier 1	187423.25	178532.92	0	0	0	0	0	0	1	9.48	mV
184	Pier 1	187421.50	178534.50	0	0	0	0	0	0	1	11.80	mV
185	Pier 1	187424.50	178536.00	0	0	0	0	0	0	1	7.18	mV
186	Pier 1	187426.00	178538.50	0	0	0	0	0	0	1	9.34	mV
187	Pier 1	187425.00	178539.00	0	0	0	0	0	0	1	23.06	mV
188	Pier 1	187426.16	178542.69	0	0	0	0	0	0	1	30.92	mV
189	Pier 1	187427.87	178545.00	0	0	0	0	0	0	1	372.13	mV
190	Pier 1	187429.77	178545.07	0	0	0	0	0	0	1	44.76	mV
191	Pier 1	187432.50	178545.50	0	0	0	0	0	0	1	118.16	mV
192	Pier 1	187435.00	178545.50	0	0	0	0	0	0	1	19.62	mV
193	Pier 1	187430.00	178550.50	0	0	0	0	0	0	1	118.85	mV
194	Pier 1	187431.00	178553.00	0	0	0	0	0	0	1	28.60	mV
195	Pier 1	187433.50	178555.00	0	0	0	0	0	0	7	7.15	mV
196	Pier 1	187436.65	178558.08	0	0	0	0	0	0	1	74.79	mV
197	Pier 1	187435.00	178559.00	0	0	0	0	0	0	1	103.05	mV
198	Pier 1	187437.00	178561.50	0	0	0	0	0	0	1	14.03	mV
199	Pier 1	187435.68	178562.52	0	0	0	0	0	0	1	20.51	mV
200	Pier 1	187440.15	178562.72	0	0	0	0	0	0	1	6.97	mV
201	Pier 1	187439.50	178568.00	0	0	0	0	0	0	1	6899.17	mV
202	Pier 1	187444.51	178565.44	0	0	0	0	0	0	1	9.82	mV
203	Pier 1	187448.50	178563.00	0	0	0	0	0	0	1	130.24	mV
204	Pier 1	187449.00	178569.50	0	0	0	0	0	0	1	22.63	mV
205	Pier 1	187446.50	178572.50	0	0	0	0	0	0	1	282.24	mV
206	Pier 1	187444.00	178571.00	0	0	0	0	0	0	1	7.33	mV
207	Pier 1	187442.27	178571.81	0	0	0	0	0	0	1	15.01	mV
208	Pier 1	187441.33	178573.18	0	0	0	0	0	0	1	35.72	mV
209	Pier 1	187444.00	178576.00	0	0	0	0	0	0	1	13.72	mV
210	Pier 1	187447.50	178580.50	0	0	0	0	0	0	7	10.13	mV
211	Pier 1	187451.61	178580.11	0	0	0	0	0	0	1	74.79	mV
212	Pier 1	187453.00	178577.00	0	0	0	0	0	0	1	11.43	mV
213	Pier 1	187454.50	178574.00	0	0	0	0	0	0	1	17.29	mV
214	Pier 1	187455.86	178571.32	0	0	0	0	0	0	1	29.50	mV
215	Pier 1	187454.81	178570.03	0	0	0	0	0	0	1	24.08	mV
216	Pier 1	187455.00	178564.00	0	0	0	0	0	0	1	23.22	mV
217	Pier 1	187451.50	178558.00	0	0	0	0	0	0	1	9.60	mV
218	Pier 1	187440.00	178553.50	0	0	0	0	0	0	1	12.46	mV
219	Pier 1	187439.59	178549.85	0	0	0	0	0	0	10	1777.84	mV
220	Pier 1	187445.00	178544.50	0	0	0	0	0	0	1	35.13	mV
221	Pier 1	187446.00	178538.50	0	0	0	0	0	0	7	7.16	mV
222	Pier 1	187450.00	178541.50	0	0	0	0	0	0	7	7.19	mV
223	Pier 1	187451.38	178543.66	0	0	0	0	0	0	7	7.06	mV
224	Pier 1	187453.50	178548.00	0	0	0	0	0	0	1	8.48	mV
225	Pier 1	187457.00	178551.00	0	0	0	0	0	0	1	11.86	mV
226	Pier 1	187458.00	178549.50	0	0	0	0	0	0	1	12.26	mV
227	Pier 1	187465.50	178554.50	0	0	0	0	0	0	1	8.42	mV
228	Pier 1	187474.86	178563.50	0	0	0	0	0	0	1	9.70	mV
229	Pier 1	187475.81	178562.53	0	0	0	0	0	0	1	8.68	mV
230	Pier 1	187473.69	178558.69	0	0	0	0	0	0	1	14.28	mV
231	Pier 1	187472.00	178555.00	0	0	0	0	0	0	1	240.62	mV
232	Pier 1	187467.50	178547.50	0	0	0	0	0	0	1	17.15	mV
233	Pier 1	187469.23	178546.89	0	0	0	0	0	0	1	8.49	mV
234	Pier 1	187480.06	178530.38	0	0	0	0	0	0	6	6.49	mV
235	Pier 1	187486.00	178532.00	0	0	0	0	0	0	7	7.92	mV
236	Pier 1	187495.58	178534.77	0	0	0	0	0	0	6	6.44	mV
237	Pier 1	187501.95	178556.47	0	0	0	0	0	0	7	7.17	mV
238	Pier 1	187496.41	178557.57	0	0	0	0	0	0	1	9.03	mV
239	Pier 1	187497.77	178559.54	0	0	0	0	0	0	6	6.95	mV
240	Pier 1	187503.77	178568.52	0	0	0	0	0	0	7	7.46	mV
241	Pier 1	187515.91	178585.52	0	0	0	0	0	0	7	7.30	mV
242	Pier 1	187513.73	178603.40	0	0	0	0	0	0	1	15.38	mV
243	Pier 1	187515.00	178604.50	0	0	0	0	0	0	1	35.58	mV

244	Pier 1	187519.00	178601.00	0	0	0	0	0	0	7	10.19	mV
245	Pier 1	187520.50	178601.00	0	0	0	0	0	0	7	13.17	mV
246	Pier 1	187523.50	178599.50	0	0	0	0	0	0	7	7.05	mV
247	Pier 1	187526.62	178604.47	0	0	0	0	0	0	7	7.21	mV
248	Pier 1	187533.31	178608.86	0	0	0	0	0	0	1	7.25	mV
249	Pier 1	187534.50	178611.50	0	0	0	0	0	0	7	7.43	mV
250	Pier 1	187538.50	178619.00	0	0	0	0	0	0	1	9.02	mV
251	Pier 1	187529.00	178617.50	0	0	0	0	0	0	7	8.11	mV
252	Pier 1	187525.47	178625.44	0	0	0	0	0	0	7	9.42	mV
253	Pier 1	187527.00	178628.00	0	0	0	0	0	0	7	8.58	mV
254	Pier 1	187544.40	178631.00	0	0	0	0	0	0	1	7.65	mV
255	Pier 1	187549.50	178641.00	0	0	0	0	0	0	1	10.64	mV
256	Pier 1	187551.00	178643.50	0	0	0	0	0	0	1	8.86	mV
257	Pier 1	187545.08	178651.44	0	0	0	0	0	0	1	8.39	mV
258	Pier 1	187535.50	178644.50	0	0	0	0	0	0	1	33.22	mV
259	Pier 1	187527.50	178650.00	0	0	0	0	0	0	1	10.39	mV
260	Pier 1	187508.50	178637.00	0	0	0	0	0	0	1	30.13	mV
261	Pier 1	187506.50	178636.50	0	0	0	0	0	0	1	49.10	mV
262	Pier 1	187505.00	178635.50	0	0	0	0	0	0	1	42.57	mV
263	Pier 1	187504.74	178627.73	0	0	0	0	0	0	1	7.35	mV
264	Pier 1	187502.75	178628.14	0	0	0	0	0	0	1	8.16	mV
265	Pier 1	187499.00	178629.50	0	0	0	0	0	0	1	319.68	mV
266	Pier 1	187496.00	178632.50	0	0	0	0	0	0	1	7.63	mV
267	Pier 1	187492.50	178625.50	0	0	0	0	0	0	1	10.74	mV
268	Pier 1	187496.00	178625.50	0	0	0	0	0	0	1	95.11	mV
269	Pier 1	187497.50	178625.50	0	0	0	0	0	0	1	43.30	mV
270	Pier 1	187500.50	178620.00	0	0	0	0	0	0	1	8.92	mV
271	Pier 1	187499.00	178618.00	0	0	0	0	0	0	1	8.49	mV
272	Pier 1	187486.50	178616.00	0	0	0	0	0	0	1	9.61	mV
273	Pier 1	187487.00	178613.00	0	0	0	0	0	0	1	7.19	mV
274	Pier 1	187488.73	178610.66	0	0	0	0	0	0	1	23.57	mV
275	Pier 1	187482.05	178610.58	0	0	0	0	0	0	7	7.59	mV
276	Pier 1	187475.00	178606.50	0	0	0	0	0	0	1	136.87	mV
277	Pier 1	187473.50	178605.50	0	0	0	0	0	0	1	184.04	mV
278	Pier 1	187474.75	178602.72	0	0	0	0	0	0	1	9.70	mV
279	Pier 1	187479.50	178599.50	0	0	0	0	0	0	1	10.69	mV
280	Pier 1	187479.00	178595.00	0	0	0	0	0	0	1	214.53	mV
281	Pier 1	187476.50	178593.50	0	0	0	0	0	0	1	8.79	mV
282	Pier 1	187474.50	178591.00	0	0	0	0	0	0	1	12.96	mV
283	Pier 1	187473.50	178592.50	0	0	0	0	0	0	1	11.98	mV
284	Pier 1	187475.12	178595.25	0	0	0	0	0	0	7	7.62	mV
285	Pier 1	187473.38	178597.65	0	0	0	0	0	0	1	20.49	mV
286	Pier 1	187470.50	178599.50	0	0	0	0	0	0	1	82.77	mV
287	Pier 1	187470.00	178594.50	0	0	0	0	0	0	1	63.52	mV
288	Pier 1	187467.92	178592.39	0	0	0	0	0	0	1	68.96	mV
289	Pier 1	187466.06	178595.47	0	0	0	0	0	0	1	33.32	mV
290	Pier 1	187464.21	178593.18	0	0	0	0	0	0	1	32.67	mV
291	Pier 1	187465.50	178589.50	0	0	0	0	0	0	10	35.10	mV
292	Pier 1	187467.34	178586.68	0	0	0	0	0	0	1	9.74	mV
293	Pier 1	187472.50	178586.50	0	0	0	0	0	0	1	7.14	mV
294	Pier 1	187474.50	178582.00	0	0	0	0	0	0	1	7.49	mV
295	Pier 1	187477.00	178579.50	0	0	0	0	0	0	1	16.27	mV
296	Pier 1	187483.60	178579.32	0	0	0	0	0	0	1	15.99	mV
297	Pier 1	187474.67	178572.53	0	0	0	0	0	0	1	14.05	mV
298	Pier 1	187464.00	178573.50	0	0	0	0	0	0	1	11.44	mV
299	Pier 1	187458.17	178579.57	0	0	0	0	0	0	1	55.05	mV
300	Pier 1	187456.00	178581.50	0	0	0	0	0	0	1	1725.50	mV
301	Pier 1	187457.72	178586.82	0	0	0	0	0	0	1	48.39	mV
302	Pier 1	187450.00	178587.50	0	0	0	0	0	0	7	10.11	mV
303	Pier 1	187453.50	178594.50	0	0	0	0	0	0	1	242.29	mV
304	Pier 1	187455.00	178594.50	0	0	0	0	0	0	1	128.55	mV

305	Pier 1	187457.00	178594.00	0	0	0	0	0	0	1	117.51	mV
306	Pier 1	187455.50	178598.50	0	0	0	0	0	0	1	8.21	mV
307	Pier 1	187459.81	178596.10	0	0	0	0	0	0	1	44.60	mV
308	Pier 1	187462.50	178598.50	0	0	0	0	0	0	1	20.68	mV
309	Pier 1	187460.50	178602.00	0	0	0	0	0	0	1	8.25	mV
310	Pier 1	187462.88	178604.49	0	0	0	0	0	0	1	17.08	mV
311	Pier 1	187467.80	178607.11	0	0	0	0	0	0	1	48.36	mV
312	Pier 1	187469.56	178610.33	0	0	0	0	0	0	1	12.31	mV
313	Pier 1	187463.50	178614.00	0	0	0	0	0	0	1	79.90	mV
314	Pier 1	187474.00	178617.50	0	0	0	0	0	0	1	31.30	mV
315	Pier 1	187469.00	178621.00	0	0	0	0	0	0	1	9.02	mV
316	Pier 1	187467.38	178623.06	0	0	0	0	0	0	1	10.81	mV
317	Pier 1	187471.35	178623.18	0	0	0	0	0	0	1	7.41	mV
318	Pier 1	187470.00	178627.50	0	0	0	0	0	0	1	50.91	mV
319	Pier 1	187476.50	178626.50	0	0	0	0	0	0	1	14.35	mV
320	Pier 1	187474.00	178637.00	0	0	0	0	0	0	1	21.03	mV
321	Pier 1	187475.94	178638.90	0	0	0	0	0	0	7	7.45	mV
322	Pier 1	187477.50	178642.00	0	0	0	0	0	0	1	7.44	mV
323	Pier 1	187481.00	178643.50	0	0	0	0	0	0	1	10.11	mV
324	Pier 1	187479.00	178640.00	0	0	0	0	0	0	1	7.04	mV
325	Pier 1	187483.00	178637.00	0	0	0	0	0	0	1	7.26	mV
326	Pier 1	187482.50	178633.50	0	0	0	0	0	0	1	11.92	mV
327	Pier 1	187490.00	178635.00	0	0	0	0	0	0	1	13.18	mV
328	Pier 1	187492.76	178634.79	0	0	0	0	0	0	1	7.27	mV
329	Pier 1	187493.00	178641.50	0	0	0	0	0	0	1	23.13	mV
330	Pier 1	187491.00	178640.50	0	0	0	0	0	0	1	39.94	mV
331	Pier 1	187489.59	178649.34	0	0	0	0	0	0	1	50.21	mV
332	Pier 1	187490.57	178651.08	0	0	0	0	0	0	1	39.99	mV
333	Pier 1	187492.83	178652.76	0	0	0	0	0	0	1	43.08	mV
334	Pier 1	187491.00	178655.00	0	0	0	0	0	0	1	16.19	mV
335	Pier 1	187499.50	178657.50	0	0	0	0	0	0	1	57.08	mV
336	Pier 1	187500.09	178659.62	0	0	0	0	0	0	1	16.11	mV
337	Pier 1	187502.00	178657.50	0	0	0	0	0	0	1	80.64	mV
338	Pier 1	187508.00	178655.50	0	0	0	0	0	0	7	7.30	mV
339	Pier 1	187505.50	178659.50	0	0	0	0	0	0	1	14.18	mV
340	Pier 1	187502.00	178662.50	0	0	0	0	0	0	1	14.66	mV
341	Pier 1	187497.00	178665.50	0	0	0	0	0	0	10	9.06	mV
342	Pier 1	187491.50	178664.00	0	0	0	0	0	0	1	28.77	mV
343	Pier 1	187490.00	178661.00	0	0	0	0	0	0	1	16.90	mV
344	Pier 1	187488.63	178663.90	0	0	0	0	0	0	1	32.20	mV
345	Pier 1	187490.84	178668.16	0	0	0	0	0	0	1	161.27	mV
346	Pier 1	187494.50	178672.50	0	0	0	0	0	0	7	43.39	mV
347	Pier 1	187497.50	178671.00	0	0	0	0	0	0	1	11.19	mV
348	Pier 1	187499.00	178670.00	0	0	0	0	0	0	1	9.15	mV
349	Pier 1	187499.00	178675.00	0	0	0	0	0	0	7	14.34	mV
350	Pier 1	187496.00	178675.50	0	0	0	0	0	0	7	46.91	mV
351	Pier 1	187497.50	178678.00	0	0	0	0	0	0	7	47.83	mV
352	Pier 1	187499.00	178680.50	0	0	0	0	0	0	7	47.63	mV
353	Pier 1	187501.30	178678.27	0	0	0	0	0	0	7	16.39	mV
354	Pier 1	187506.50	178673.00	0	0	0	0	0	0	1	18.69	mV
355	Pier 1	187507.50	178670.00	0	0	0	0	0	0	1	13.73	mV
356	Pier 1	187524.54	178670.12	0	0	0	0	0	0	6	6.53	mV
357	Pier 1	187512.00	178680.50	0	0	0	0	0	0	1	12.71	mV
358	Pier 1	187513.49	178682.70	0	0	0	0	0	0	1	25.02	mV
359	Pier 1	187511.50	178683.00	0	0	0	0	0	0	1	9.92	mV
360	Pier 1	187510.42	178685.37	0	0	0	0	0	0	1	19.33	mV
361	Pier 1	187508.00	178683.50	0	0	0	0	0	0	1	10.58	mV
362	Pier 1	187504.50	178684.50	0	0	0	0	0	0	1	8.71	mV
363	Pier 1	187503.50	178682.50	0	0	0	0	0	0	1	28.13	mV
364	Pier 1	187501.00	178684.00	0	0	0	0	0	0	1	136.73	mV
365	Pier 1	187502.50	178692.00	0	0	0	0	0	0	10	210.68	mV

366	Pier 1	187506.00	178693.00	0	0	0	0	0	0	10	11.03	mV
367	Pier 1	187513.50	178693.50	0	0	0	0	0	0	10	40.90	mV
368	Pier 1	187516.60	178690.25	0	0	0	0	0	0	1	7.91	mV
369	Pier 1	187517.20	178687.55	0	0	0	0	0	0	1	27.57	mV
370	Pier 1	187519.50	178689.50	0	0	0	0	0	0	1	15.68	mV
371	Pier 1	187521.09	178692.64	0	0	0	0	0	0	7	7.27	mV
372	Pier 1	187521.50	178697.00	0	0	0	0	0	0	10	59.07	mV
373	Pier 1	187521.80	178699.01	0	0	0	0	0	0	10	26.99	mV
374	Pier 1	187525.00	178698.50	0	0	0	0	0	0	10	11.86	mV
375	Pier 1	187528.50	178700.00	0	0	0	0	0	0	1	7.62	mV
376	Pier 1	187531.00	178699.50	0	0	0	0	0	0	7	8.41	mV
377	Pier 1	187528.83	178695.22	0	0	0	0	0	0	7	8.16	mV
378	Pier 1	187527.46	178688.82	0	0	0	0	0	0	1	11.76	mV
379	Pier 1	187525.01	178688.70	0	0	0	0	0	0	1	18.17	mV
380	Pier 1	187526.00	178686.50	0	0	0	0	0	0	1	15.35	mV
381	Pier 1	187524.50	178685.50	0	0	0	0	0	0	1	14.19	mV
382	Pier 1	187527.50	178684.50	0	0	0	0	0	0	1	13.02	mV
383	Pier 1	187541.00	178685.50	0	0	0	0	0	0	1	11.13	mV
384	Pier 1	187543.50	178684.50	0	0	0	0	0	0	1	17.89	mV
385	Pier 1	187555.31	178672.30	0	0	0	0	0	0	1	8.35	mV
386	Pier 1	187557.50	178688.50	0	0	0	0	0	0	7	7.13	mV
387	Pier 1	187558.83	178691.24	0	0	0	0	0	0	7	7.22	mV
388	Pier 1	187560.15	178694.03	0	0	0	0	0	0	7	7.66	mV
389	Pier 1	187568.65	178686.56	0	0	0	0	0	0	7	7.22	mV
390	Pier 1	187579.00	178702.50	0	0	0	0	0	0	1	9.28	mV
391	Pier 1	187583.00	178725.50	0	0	0	0	0	0	7	7.77	mV
392	Pier 1	187576.91	178725.71	0	0	0	0	0	0	1	7.33	mV
393	Pier 1	187574.87	178723.05	0	0	0	0	0	0	1	8.73	mV
394	Pier 1	187568.80	178727.52	0	0	0	0	0	0	1	7.74	mV
395	Pier 1	187553.31	178733.92	0	0	0	0	0	0	1	10.37	mV
396	Pier 1	187552.17	178739.45	0	0	0	0	0	0	1	7.76	mV
397	Pier 1	187547.19	178741.12	0	0	0	0	0	0	1	54.78	mV
398	Pier 1	187543.77	178740.69	0	0	0	0	0	0	1	15.45	mV
399	Pier 1	187539.00	178737.00	0	0	0	0	0	0	1	12.35	mV
400	Pier 1	187541.00	178732.50	0	0	0	0	0	0	1	12.74	mV
401	Pier 1	187538.00	178729.50	0	0	0	0	0	0	1	850.32	mV
402	Pier 1	187540.50	178728.00	0	0	0	0	0	0	1	904.02	mV
403	Pier 1	187548.50	178728.50	0	0	0	0	0	0	1	18.71	mV
404	Pier 1	187549.50	178728.00	0	0	0	0	0	0	1	10.70	mV
405	Pier 1	187551.22	178726.52	0	0	0	0	0	0	1	22.21	mV
406	Pier 1	187551.98	178719.81	0	0	0	0	0	0	7	8.48	mV
407	Pier 1	187546.35	178717.31	0	0	0	0	0	0	1	51.67	mV
408	Pier 1	187550.51	178710.81	0	0	0	0	0	0	1	8.33	mV
409	Pier 1	187544.00	178706.50	0	0	0	0	0	0	7	12.68	mV
410	Pier 1	187550.54	178699.48	0	0	0	0	0	0	1	137.11	mV
411	Pier 1	187541.08	178693.19	0	0	0	0	0	0	1	16.30	mV
412	Pier 1	187539.00	178694.50	0	0	0	0	0	0	1	7.21	mV
413	Pier 1	187535.45	178699.06	0	0	0	0	0	0	7	8.02	mV
414	Pier 1	187532.50	178703.00	0	0	0	0	0	0	7	7.69	mV
415	Pier 1	187535.77	178709.68	0	0	0	0	0	0	7	7.10	mV
416	Pier 1	187536.76	178716.15	0	0	0	0	0	0	1	27.39	mV
417	Pier 1	187538.88	178716.23	0	0	0	0	0	0	1	33.25	mV
418	Pier 1	187542.50	178720.50	0	0	0	0	0	0	1	31.85	mV
419	Pier 1	187543.50	178723.00	0	0	0	0	0	0	1	7.03	mV
420	Pier 1	187540.00	178724.50	0	0	0	0	0	0	1	308.12	mV
421	Pier 1	187536.00	178724.50	0	0	0	0	0	0	1	9.30	mV
422	Pier 1	187532.50	178721.00	0	0	0	0	0	0	7	7.84	mV
423	Pier 1	187526.50	178720.50	0	0	0	0	0	0	1	447.40	mV
424	Pier 1	187527.00	178716.50	0	0	0	0	0	0	1	13.19	mV
425	Pier 1	187527.13	178713.13	0	0	0	0	0	0	1	13.67	mV
426	Pier 1	187528.00	178711.00	0	0	0	0	0	0	1	13.38	mV

427	Pier 1	187528.18	178706.76	0	0	0	0	0	0	1	129.79	mV
428	Pier 1	187528.50	178704.50	0	0	0	0	0	0	1	95.29	mV
429	Pier 1	187526.50	178703.50	0	0	0	0	0	0	1	134.47	mV
430	Pier 1	187525.50	178705.50	0	0	0	0	0	0	1	231.05	mV
431	Pier 1	187524.00	178702.50	0	0	0	0	0	0	1	303.53	mV
432	Pier 1	187522.00	178703.00	0	0	0	0	0	0	1	485.06	mV
433	Pier 1	187522.00	178705.50	0	0	0	0	0	0	1	211.78	mV
434	Pier 1	187519.14	178703.45	0	0	0	0	0	0	1	267.72	mV
435	Pier 1	187516.00	178703.50	0	0	0	0	0	0	1	1567.78	mV
436	Pier 1	187509.50	178704.50	0	0	0	0	0	0	10	290.32	mV
437	Pier 1	187510.50	178708.50	0	0	0	0	0	0	1	215.17	mV
438	Pier 1	187513.00	178707.00	0	0	0	0	0	0	1	30.97	mV
439	Pier 1	187515.00	178706.50	0	0	0	0	0	0	1	83.12	mV
440	Pier 1	187517.50	178706.00	0	0	0	0	0	0	1	108.92	mV
441	Pier 1	187520.50	178709.50	0	0	0	0	0	0	1	94.64	mV
442	Pier 1	187520.48	178715.15	0	0	0	0	0	0	1	43.05	mV
443	Pier 1	187518.50	178722.00	0	0	0	0	0	0	1	7.79	mV
444	Pier 1	187522.00	178725.00	0	0	0	0	0	0	1	8.71	mV
445	Pier 1	187524.50	178725.00	0	0	0	0	0	0	1	401.14	mV
446	Pier 1	187528.99	178725.77	0	0	0	0	0	0	1	8.56	mV
447	Pier 1	187533.50	178726.50	0	0	0	0	0	0	1	104.44	mV
448	Pier 1	187532.32	178730.14	0	0	0	0	0	0	1	51.56	mV
449	Pier 1	187529.00	178738.50	0	0	0	0	0	0	10	46.65	mV
450	Pier 1	187531.50	178738.00	0	0	0	0	0	0	10	31.74	mV
451	Pier 1	187533.50	178738.00	0	0	0	0	0	0	1	20.82	mV
452	Pier 1	187535.50	178737.00	0	0	0	0	0	0	1	10.44	mV
453	Pier 1	187537.50	178740.00	0	0	0	0	0	0	1	130.87	mV
454	Pier 1	187538.43	178743.08	0	0	0	0	0	0	1	47.84	mV
455	Pier 1	187533.50	178753.50	0	0	0	0	0	0	1	20.24	mV
456	Pier 1	187539.00	178753.00	0	0	0	0	0	0	1	7.03	mV
457	Pier 1	187539.84	178761.57	0	0	0	0	0	0	1	14.71	mV
458	Pier 1	187547.33	178759.24	0	0	0	0	0	0	1	25.95	mV
459	Pier 1	187550.67	178766.14	0	0	0	0	0	0	10	32.75	mV
460	Pier 1	187549.92	178768.87	0	0	0	0	0	0	1	11.60	mV
461	Pier 1	187548.50	178767.50	0	0	0	0	0	0	1	19.46	mV
462	Pier 1	187546.50	178768.50	0	0	0	0	0	0	7	7.66	mV
463	Pier 1	187544.50	178767.50	0	0	0	0	0	0	1	10.59	mV
464	Pier 1	187544.00	178766.00	0	0	0	0	0	0	1	12.92	mV
465	Pier 1	187541.30	178768.70	0	0	0	0	0	0	1	7.67	mV
466	Pier 1	187543.50	178773.50	0	0	0	0	0	0	1	34.31	mV
467	Pier 1	187546.10	178777.46	0	0	0	0	0	0	1	17.04	mV
468	Pier 1	187548.00	178776.00	0	0	0	0	0	0	1	7.32	mV
469	Pier 1	187549.50	178772.50	0	0	0	0	0	0	1	8.65	mV
470	Pier 1	187554.00	178773.50	0	0	0	0	0	0	7	8.70	mV
471	Pier 1	187554.00	178770.50	0	0	0	0	0	0	1	8.61	mV
472	Pier 1	187555.50	178770.50	0	0	0	0	0	0	1	27.02	mV
473	Pier 1	187558.50	178774.00	0	0	0	0	0	0	1	61.15	mV
474	Pier 1	187559.50	178773.00	0	0	0	0	0	0	1	65.09	mV
475	Pier 1	187560.42	178773.73	0	0	0	0	0	0	1	70.82	mV
476	Pier 1	187562.50	178773.50	0	0	0	0	0	0	1	67.49	mV
477	Pier 1	187565.86	178772.70	0	0	0	0	0	0	1	15.21	mV
478	Pier 1	187562.50	178767.50	0	0	0	0	0	0	1	15.15	mV
479	Pier 1	187561.00	178768.00	0	0	0	0	0	0	1	25.91	mV
480	Pier 1	187557.00	178762.50	0	0	0	0	0	0	7	7.63	mV
481	Pier 1	187555.00	178758.00	0	0	0	0	0	0	1	40.23	mV
482	Pier 1	187550.50	178753.50	0	0	0	0	0	0	1	138.99	mV
483	Pier 1	187553.11	178747.55	0	0	0	0	0	0	6	6.88	mV
484	Pier 1	187556.34	178747.45	0	0	0	0	0	0	1	7.10	mV
485	Pier 1	187565.70	178745.89	0	0	0	0	0	0	7	7.10	mV
486	Pier 1	187564.50	178754.50	0	0	0	0	0	0	1	14.17	mV
487	Pier 1	187565.50	178761.50	0	0	0	0	0	0	1	302.77	mV

488	Pier 1	187569.00	178765.50	0	0	0	0	0	0	7	8.41	mV
489	Pier 1	187578.00	178755.50	0	0	0	0	0	0	1	70.62	mV
490	Pier 1	187589.00	178750.00	0	0	0	0	0	0	1	9.78	mV
491	Pier 1	187590.00	178747.50	0	0	0	0	0	0	1	1494.10	mV
492	Pier 1	187584.50	178742.00	0	0	0	0	0	0	7	7.98	mV
493	Pier 1	187593.14	178741.45	0	0	0	0	0	0	7	8.04	mV
494	Pier 1	187599.50	178747.50	0	0	0	0	0	0	1	11.33	mV
495	Pier 1	187601.65	178761.66	0	0	0	0	0	0	6	6.74	mV
496	Pier 1	187604.92	178763.81	0	0	0	0	0	0	7	7.07	mV
497	Pier 1	187612.00	178762.50	0	0	0	0	0	0	1	10.72	mV
498	Pier 1	187612.17	178772.23	0	0	0	0	0	0	7	7.37	mV
499	Pier 1	187604.97	178785.09	0	0	0	0	0	0	7	7.86	mV
500	Pier 1	187623.50	178790.00	0	0	0	0	0	0	1	7.39	mV
501	Pier 1	187622.50	178794.00	0	0	0	0	0	0	1	10.26	mV
502	Pier 1	187623.80	178795.93	0	0	0	0	0	0	1	7.70	mV
503	Pier 1	187624.99	178805.96	0	0	0	0	0	0	1	16.35	mV
504	Pier 1	187626.91	178820.53	0	0	0	0	0	0	1	45.13	mV
505	Pier 1	187623.26	178825.73	0	0	0	0	0	0	1	14.50	mV
506	Pier 1	187631.87	178828.45	0	0	0	0	0	0	1	15.22	mV
507	Pier 1	187633.50	178827.00	0	0	0	0	0	0	1	13.15	mV
508	Pier 1	187636.00	178829.50	0	0	0	0	0	0	1	8.56	mV
509	Pier 1	187639.12	178829.71	0	0	0	0	0	0	1	17.18	mV
510	Pier 1	187639.75	178823.65	0	0	0	0	0	0	7	7.41	mV
511	Pier 1	187646.78	178831.55	0	0	0	0	0	0	1	11.14	mV
512	Pier 1	187650.00	178833.50	0	0	0	0	0	0	1	7.57	mV
513	Pier 1	187644.19	178832.53	0	0	0	0	0	0	1	9.82	mV
514	Pier 1	187640.28	178834.43	0	0	0	0	0	0	1	48.60	mV
515	Pier 1	187640.50	178854.00	0	0	0	0	0	0	7	7.91	mV
516	Pier 1	187648.29	178849.33	0	0	0	0	0	0	1	7.49	mV
517	Pier 1	187662.50	178861.50	0	0	0	0	0	0	1	11.69	mV
518	Pier 1	187659.50	178872.50	0	0	0	0	0	0	7	7.57	mV
519	Pier 1	187627.00	178875.00	0	0	0	0	0	0	7	7.12	mV
520	Pier 1	187618.50	178871.00	0	0	0	0	0	0	7	13.23	mV
521	Pier 1	187617.00	178871.50	0	0	0	0	0	0	7	9.25	mV
522	Pier 1	187615.50	178872.00	0	0	0	0	0	0	7	7.81	mV
523	Pier 1	187617.00	178868.00	0	0	0	0	0	0	7	12.87	mV
524	Pier 1	187619.00	178865.00	0	0	0	0	0	0	1	11.74	mV
525	Pier 1	187621.84	178857.12	0	0	0	0	0	0	7	8.38	mV
526	Pier 1	187614.00	178858.00	0	0	0	0	0	0	1	10.81	mV
527	Pier 1	187613.22	178864.38	0	0	0	0	0	0	1	7.09	mV
528	Pier 1	187613.50	178869.00	0	0	0	0	0	0	1	67.42	mV
529	Pier 1	187610.50	178869.50	0	0	0	0	0	0	1	10.66	mV
530	Pier 1	187610.00	178874.50	0	0	0	0	0	0	1	130.78	mV
531	Pier 1	187607.50	178874.50	0	0	0	0	0	0	1	20.17	mV
532	Pier 1	187604.00	178871.00	0	0	0	0	0	0	1	48.47	mV
533	Pier 1	187604.00	178868.00	0	0	0	0	0	0	1	10.65	mV
534	Pier 1	187606.50	178867.50	0	0	0	0	0	0	1	36.85	mV
535	Pier 1	187604.00	178864.50	0	0	0	0	0	0	1	26.64	mV
536	Pier 1	187598.50	178865.00	0	0	0	0	0	0	1	905.63	mV
537	Pier 1	187598.00	178862.00	0	0	0	0	0	0	1	1682.43	mV
538	Pier 1	187599.00	178859.00	0	0	0	0	0	0	1	651.05	mV
539	Pier 1	187595.00	178858.50	0	0	0	0	0	0	1	1638.88	mV
540	Pier 1	187596.31	178855.89	0	0	0	0	0	0	1	197.10	mV
541	Pier 1	187596.00	178852.00	0	0	0	0	0	0	1	22.40	mV
542	Pier 1	187601.39	178855.24	0	0	0	0	0	0	1	656.46	mV
543	Pier 1	187602.50	178849.00	0	0	0	0	0	0	1	804.40	mV
544	Pier 1	187607.50	178847.00	0	0	0	0	0	0	1	1234.79	mV
545	Pier 1	187602.50	178837.00	0	0	0	0	0	0	1	996.24	mV
546	Pier 1	187606.00	178837.50	0	0	0	0	0	0	1	25.83	mV
547	Pier 1	187608.00	178837.00	0	0	0	0	0	0	1	27.95	mV
548	Pier 1	187608.00	178833.50	0	0	0	0	0	0	1	10.54	mV

549	Pier 1	187612.00	178831.00	0	0	0	0	0	0	1	110.62	mV
550	Pier 1	187608.00	178827.50	0	0	0	0	0	0	1	19.12	mV
551	Pier 1	187606.00	178821.50	0	0	0	0	0	0	1	9.26	mV
552	Pier 1	187601.00	178824.50	0	0	0	0	0	0	1	8.20	mV
553	Pier 1	187595.99	178819.87	0	0	0	0	0	0	1	16.73	mV
554	Pier 1	187595.50	178811.00	0	0	0	0	0	0	1	140.08	mV
555	Pier 1	187602.00	178811.00	0	0	0	0	0	0	1	6678.04	mV
556	Pier 1	187606.00	178818.50	0	0	0	0	0	0	1	25.62	mV
557	Pier 1	187608.50	178815.50	0	0	0	0	0	0	1	9.64	mV
558	Pier 1	187610.50	178815.50	0	0	0	0	0	0	1	8.58	mV
559	Pier 1	187613.90	178809.42	0	0	0	0	0	0	1	335.16	mV
560	Pier 1	187609.96	178805.26	0	0	0	0	0	0	7	7.65	mV
561	Pier 1	187613.42	178800.68	0	0	0	0	0	0	1	7.82	mV
562	Pier 1	187604.50	178802.00	0	0	0	0	0	0	1	18.47	mV
563	Pier 1	187600.50	178800.50	0	0	0	0	0	0	1	34.04	mV
564	Pier 1	187587.75	178797.95	0	0	0	0	0	0	7	7.71	mV
565	Pier 1	187580.00	178795.50	0	0	0	0	0	0	1	8.88	mV
566	Pier 1	187578.50	178793.00	0	0	0	0	0	0	1	8.62	mV
567	Pier 1	187581.50	178790.00	0	0	0	0	0	0	1	251.22	mV
568	Pier 1	187586.42	178789.26	0	0	0	0	0	0	1	11.03	mV
569	Pier 1	187588.00	178787.00	0	0	0	0	0	0	1	50.30	mV
570	Pier 1	187592.00	178785.00	0	0	0	0	0	0	1	399.43	mV
571	Pier 1	187582.34	178779.40	0	0	0	0	0	0	1	8.77	mV
572	Pier 1	187580.83	178776.89	0	0	0	0	0	0	7	7.50	mV
573	Pier 1	187582.50	178773.00	0	0	0	0	0	0	1	12.22	mV
574	Pier 1	187578.00	178775.00	0	0	0	0	0	0	1	7.15	mV
575	Pier 1	187575.54	178786.99	0	0	0	0	0	0	1	7.25	mV
576	Pier 1	187573.13	178787.21	0	0	0	0	0	0	1	89.83	mV
577	Pier 1	187570.44	178789.14	0	0	0	0	0	0	1	8.47	mV
578	Pier 1	187565.00	178788.50	0	0	0	0	0	0	10	22.67	mV
579	Pier 1	187567.00	178784.50	0	0	0	0	0	0	1	8.88	mV
580	Pier 1	187569.00	178783.00	0	0	0	0	0	0	1	85.13	mV
581	Pier 1	187566.50	178782.00	0	0	0	0	0	0	1	53.23	mV
582	Pier 1	187562.50	178784.00	0	0	0	0	0	0	10	335.07	mV
583	Pier 1	187559.59	178783.77	0	0	0	0	0	0	10	8.87	mV
584	Pier 1	187560.00	178780.00	0	0	0	0	0	0	1	12.42	mV
585	Pier 1	187557.50	178780.50	0	0	0	0	0	0	1	263.24	mV
586	Pier 1	187555.00	178778.50	0	0	0	0	0	0	1	80.39	mV
587	Pier 1	187552.50	178779.00	0	0	0	0	0	0	10	45.32	mV
588	Pier 1	187548.49	178782.03	0	0	0	0	0	0	1	25.10	mV
589	Pier 1	187550.00	178785.50	0	0	0	0	0	0	1	39.34	mV
590	Pier 1	187552.00	178788.00	0	0	0	0	0	0	1	39.37	mV
591	Pier 1	187552.50	178785.00	0	0	0	0	0	0	1	9.62	mV
592	Pier 1	187554.50	178785.50	0	0	0	0	0	0	1	11.21	mV
593	Pier 1	187555.50	178788.50	0	0	0	0	0	0	1	9.30	mV
594	Pier 1	187555.38	178791.34	0	0	0	0	0	0	1	11.32	mV
595	Pier 1	187553.00	178792.00	0	0	0	0	0	0	1	25.75	mV
596	Pier 1	187555.00	178796.00	0	0	0	0	0	0	1	7.17	mV
597	Pier 1	187559.30	178794.06	0	0	0	0	0	0	1	7.17	mV
598	Pier 1	187560.50	178800.50	0	0	0	0	0	0	1	17.66	mV
599	Pier 1	187560.00	178805.50	0	0	0	0	0	0	10	32.57	mV
600	Pier 1	187561.50	178805.00	0	0	0	0	0	0	1	98.86	mV
601	Pier 1	187564.50	178801.00	0	0	0	0	0	0	1	273.51	mV
602	Pier 1	187567.50	178795.00	0	0	0	0	0	0	10	7.41	mV
603	Pier 1	187572.00	178796.50	0	0	0	0	0	0	1	908.50	mV
604	Pier 1	187574.27	178792.96	0	0	0	0	0	0	1	19.31	mV
605	Pier 1	187576.42	178795.58	0	0	0	0	0	0	1	7.34	mV
606	Pier 1	187574.89	178798.19	0	0	0	0	0	0	1	30.45	mV
607	Pier 1	187576.50	178801.50	0	0	0	0	0	0	1	7.62	mV
608	Pier 1	187572.00	178803.00	0	0	0	0	0	0	1	70.24	mV
609	Pier 1	187573.00	178807.50	0	0	0	0	0	0	1	14.90	mV

610	Pier 1	187571.37	178808.31	0	0	0	0	0	0	1	7.19	mV
611	Pier 1	187570.00	178814.00	0	0	0	0	0	0	1	401.33	mV
612	Pier 1	187568.50	178815.00	0	0	0	0	0	0	1	107.77	mV
613	Pier 1	187565.50	178814.50	0	0	0	0	0	0	1	14.13	mV
614	Pier 1	187568.00	178819.50	0	0	0	0	0	0	1	9.69	mV
615	Pier 1	187569.00	178822.50	0	0	0	0	0	0	1	12.60	mV
616	Pier 1	187570.45	178818.13	0	0	0	0	0	0	1	8.72	mV
617	Pier 1	187576.36	178817.98	0	0	0	0	0	0	1	162.42	mV
618	Pier 1	187577.00	178815.50	0	0	0	0	0	0	1	105.19	mV
619	Pier 1	187579.50	178813.50	0	0	0	0	0	0	1	41.88	mV
620	Pier 1	187580.00	178812.00	0	0	0	0	0	0	1	71.79	mV
621	Pier 1	187583.50	178811.00	0	0	0	0	0	0	1	17.16	mV
622	Pier 1	187586.81	178812.62	0	0	0	0	0	0	1	7.73	mV
623	Pier 1	187587.06	178815.45	0	0	0	0	0	0	1	8.15	mV
624	Pier 1	187589.50	178815.00	0	0	0	0	0	0	1	14.97	mV
625	Pier 1	187588.00	178818.50	0	0	0	0	0	0	1	24.35	mV
626	Pier 1	187588.42	178821.52	0	0	0	0	0	0	1	8.54	mV
627	Pier 1	187586.00	178821.95	0	0	0	0	0	0	1	17.64	mV
628	Pier 1	187585.00	178820.00	0	0	0	0	0	0	1	30.68	mV
629	Pier 1	187583.00	178818.00	0	0	0	0	0	0	1	15.72	mV
630	Pier 1	187583.00	178820.50	0	0	0	0	0	0	1	60.70	mV
631	Pier 1	187580.68	178823.21	0	0	0	0	0	0	1	55.60	mV
632	Pier 1	187586.50	178825.00	0	0	0	0	0	0	1	7.88	mV
633	Pier 1	187587.50	178830.50	0	0	0	0	0	0	1	11.56	mV
634	Pier 1	187584.76	178831.94	0	0	0	0	0	0	1	22.07	mV
635	Pier 1	187585.50	178836.50	0	0	0	0	0	0	1	87.42	mV
636	Pier 1	187580.00	178836.50	0	0	0	0	0	0	1	498.82	mV
637	Pier 1	187575.00	178834.00	0	0	0	0	0	0	7	7.04	mV
638	Pier 1	187580.50	178842.50	0	0	0	0	0	0	1	313.38	mV
639	Pier 1	187582.50	178846.50	0	0	0	0	0	0	1	31.74	mV
640	Pier 1	187585.50	178844.50	0	0	0	0	0	0	1	70.22	mV
641	Pier 1	187587.50	178842.52	0	0	0	0	0	0	1	12.33	mV
642	Pier 1	187589.36	178840.18	0	0	0	0	0	0	1	19.32	mV
643	Pier 1	187593.14	178840.45	0	0	0	0	0	0	1	7.79	mV
644	Pier 1	187591.50	178843.50	0	0	0	0	0	0	1	27.47	mV
645	Pier 1	187595.00	178844.00	0	0	0	0	0	0	1	9.75	mV
646	Pier 1	187596.00	178842.00	0	0	0	0	0	0	1	56.11	mV
647	Pier 1	187598.12	178842.95	0	0	0	0	0	0	1	15.50	mV
648	Pier 1	187596.88	178847.31	0	0	0	0	0	0	1	126.59	mV
649	Pier 1	187595.00	178847.50	0	0	0	0	0	0	1	37.64	mV
650	Pier 1	187591.50	178850.00	0	0	0	0	0	0	1	433.28	mV
651	Pier 1	187588.00	178849.00	0	0	0	0	0	0	1	1571.79	mV
652	Pier 1	187591.00	178853.50	0	0	0	0	0	0	1	9.09	mV
653	Pier 1	187586.50	178856.50	0	0	0	0	0	0	10	124.18	mV
654	Pier 1	187590.50	178860.00	0	0	0	0	0	0	1	201.64	mV
655	Pier 1	187592.00	178864.00	0	0	0	0	0	0	1	322.63	mV
656	Pier 1	187590.50	178865.00	0	0	0	0	0	0	1	101.24	mV
657	Pier 1	187595.67	178870.26	0	0	0	0	0	0	1	180.10	mV
658	Pier 1	187599.17	178870.12	0	0	0	0	0	0	1	358.25	mV
659	Pier 1	187597.00	178874.00	0	0	0	0	0	0	1	4728.81	mV
660	Pier 1	187602.50	178876.00	0	0	0	0	0	0	1	106.45	mV
661	Pier 1	187600.50	178882.00	0	0	0	0	0	0	1	34.03	mV
662	Pier 1	187606.31	178881.18	0	0	0	0	0	0	1	695.12	mV
663	Pier 1	187608.73	178879.24	0	0	0	0	0	0	1	69.05	mV
664	Pier 1	187610.50	178878.50	0	0	0	0	0	0	1	106.69	mV
665	Pier 1	187613.17	178877.90	0	0	0	0	0	0	7	7.36	mV
666	Pier 1	187612.92	178882.85	0	0	0	0	0	0	1	29.30	mV
667	Pier 1	187609.50	178884.50	0	0	0	0	0	0	1	2074.87	mV
668	Pier 1	187608.00	178888.50	0	0	0	0	0	0	1	71.70	mV
669	Pier 1	187609.50	178890.00	0	0	0	0	0	0	1	79.36	mV
670	Pier 1	187611.00	178887.50	0	0	0	0	0	0	1	9.31	mV

671	Pier 1	187612.99	178885.32	0	0	0	0	0	0	1	26.80	mV
672	Pier 1	187619.50	178885.00	0	0	0	0	0	0	7	7.06	mV
673	Pier 1	187619.00	178888.50	0	0	0	0	0	0	1	12.76	mV
674	Pier 1	187617.07	178889.95	0	0	0	0	0	0	1	40.92	mV
675	Pier 1	187620.23	178890.64	0	0	0	0	0	0	1	15.49	mV
676	Pier 1	187619.00	178891.50	0	0	0	0	0	0	1	7.94	mV
677	Pier 1	187619.00	178894.50	0	0	0	0	0	0	1	12.09	mV
678	Pier 1	187617.00	178893.50	0	0	0	0	0	0	1	32.82	mV
679	Pier 1	187615.00	178896.00	0	0	0	0	0	0	1	1342.37	mV
680	Pier 1	187611.61	178894.16	0	0	0	0	0	0	1	2129.25	mV
681	Pier 1	187608.50	178897.00	0	0	0	0	0	0	1	1371.82	mV
682	Pier 1	187614.00	178899.00	0	0	0	0	0	0	1	1319.12	mV
683	Pier 1	187619.50	178898.50	0	0	0	0	0	0	7	7.48	mV
684	Pier 1	187621.31	178896.89	0	0	0	0	0	0	1	7.50	mV
685	Pier 1	187629.00	178897.00	0	0	0	0	0	0	1	10.65	mV
686	Pier 1	187624.50	178906.00	0	0	0	0	0	0	1	27.58	mV
687	Pier 1	187628.00	178906.50	0	0	0	0	0	0	1	15.53	mV
688	Pier 1	187629.02	178908.42	0	0	0	0	0	0	1	17.53	mV
689	Pier 1	187625.00	178909.50	0	0	0	0	0	0	1	251.41	mV
690	Pier 1	187622.50	178909.50	0	0	0	0	0	0	1	1014.17	mV
691	Pier 1	187618.00	178906.50	0	0	0	0	0	0	1	2638.40	mV
692	Pier 1	187614.32	178906.99	0	0	0	0	0	0	1	300.00	mV
693	Pier 1	187616.50	178912.50	0	0	0	0	0	0	1	31.88	mV
694	Pier 1	187617.61	178915.32	0	0	0	0	0	0	1	27.95	mV
695	Pier 1	187619.50	178915.50	0	0	0	0	0	0	1	52.61	mV
696	Pier 1	187620.15	178919.93	0	0	0	0	0	0	1	319.79	mV
697	Pier 1	187622.50	178919.43	0	0	0	0	0	0	1	272.33	mV
698	Pier 1	187626.66	178917.75	0	0	0	0	0	0	1	7.21	mV
699	Pier 1	187622.63	178924.99	0	0	0	0	0	0	1	68.13	mV
700	Pier 1	187624.00	178928.50	0	0	0	0	0	0	10	387.52	mV
701	Pier 1	187627.39	178925.07	0	0	0	0	0	0	1	7.43	mV
702	Pier 1	187633.50	178922.00	0	0	0	0	0	0	1	217.30	mV
703	Pier 1	187632.50	178916.00	0	0	0	0	0	0	1	193.29	mV
704	Pier 1	187629.50	178912.50	0	0	0	0	0	0	1	19.71	mV
705	Pier 1	187632.00	178910.50	0	0	0	0	0	0	1	13.76	mV
706	Pier 1	187639.74	178908.14	0	0	0	0	0	0	1	399.69	mV
707	Pier 1	187648.87	178908.11	0	0	0	0	0	0	7	7.58	mV
708	Pier 1	187679.50	178903.00	0	0	0	0	0	0	1	38.71	mV
709	Pier 1	187674.22	178892.65	0	0	0	0	0	0	6	6.51	mV
710	Pier 1	187667.94	178886.65	0	0	0	0	0	0	1	7.87	mV
711	Pier 1	187666.50	178890.50	0	0	0	0	0	0	1	16.46	mV
712	Pier 1	187666.02	178894.78	0	0	0	0	0	0	1	1593.21	mV
713	Pier 1	187665.00	178909.00	0	0	0	0	0	0	1	8.45	mV
714	Pier 1	187661.48	178921.87	0	0	0	0	0	0	1	7.11	mV
715	Pier 1	187651.00	178926.00	0	0	0	0	0	0	1	7.31	mV
716	Pier 1	187648.00	178928.50	0	0	0	0	0	0	1	261.99	mV
717	Pier 1	187642.00	178932.50	0	0	0	0	0	0	1	47.96	mV
718	Pier 1	187637.50	178929.00	0	0	0	0	0	0	1	18.07	mV
719	Pier 1	187635.28	178929.61	0	0	0	0	0	0	1	7.77	mV
720	Pier 1	187634.00	178935.00	0	0	0	0	0	0	1	164.73	mV
721	Pier 1	187633.00	178936.00	0	0	0	0	0	0	1	806.16	mV
722	Pier 1	187631.50	178937.00	0	0	0	0	0	0	1	118.21	mV
723	Pier 1	187631.71	178941.27	0	0	0	0	0	0	10	544.83	mV
724	Pier 1	187633.62	178940.20	0	0	0	0	0	0	10	127.97	mV
725	Pier 1	187636.00	178941.00	0	0	0	0	0	0	1	35.55	mV
726	Pier 1	187638.68	178939.08	0	0	0	0	0	0	1	10.21	mV
727	Pier 1	187641.18	178941.07	0	0	0	0	0	0	1	117.33	mV
728	Pier 1	187642.95	178941.39	0	0	0	0	0	0	1	106.08	mV
729	Pier 1	187643.50	178943.00	0	0	0	0	0	0	1	110.29	mV
730	Pier 1	187642.00	178942.50	0	0	0	0	0	0	1	98.15	mV
731	Pier 1	187640.00	178943.50	0	0	0	0	0	0	1	41.87	mV

732	Pier 1	187637.00	178944.50	0	0	0	0	0	0	1	39.85	mV
733	Pier 1	187632.70	178945.68	0	0	0	0	0	0	1	31.17	mV
734	Pier 1	187634.26	178948.80	0	0	0	0	0	0	1	17.35	mV
735	Pier 1	187636.00	178952.00	0	0	0	0	0	0	1	25.94	mV
736	Pier 1	187638.00	178951.50	0	0	0	0	0	0	1	82.94	mV
737	Pier 1	187639.00	178948.00	0	0	0	0	0	0	1	131.65	mV
738	Pier 1	187642.00	178948.60	0	0	0	0	0	0	1	13.32	mV
739	Pier 1	187644.50	178947.00	0	0	0	0	0	0	1	151.06	mV
740	Pier 1	187645.50	178949.00	0	0	0	0	0	0	1	62.58	mV
741	Pier 1	187643.50	178951.00	0	0	0	0	0	0	1	72.12	mV
742	Pier 1	187641.50	178954.00	0	0	0	0	0	0	1	15.45	mV
743	Pier 1	187641.50	178958.00	0	0	0	0	0	0	1	325.82	mV
744	Pier 1	187643.50	178955.50	0	0	0	0	0	0	1	7.43	mV
745	Pier 1	187646.50	178954.50	0	0	0	0	0	0	1	29.96	mV
746	Pier 1	187648.00	178958.00	0	0	0	0	0	0	1	65.16	mV
747	Pier 1	187649.00	178961.50	0	0	0	0	0	0	1	16.04	mV
748	Pier 1	187655.00	178959.50	0	0	0	0	0	0	1	15.56	mV
749	Pier 1	187655.00	178953.50	0	0	0	0	0	0	1	10.63	mV
750	Pier 1	187649.86	178951.63	0	0	0	0	0	0	1	21.48	mV
751	Pier 1	187648.50	178949.00	0	0	0	0	0	0	1	186.16	mV
752	Pier 1	187649.50	178946.50	0	0	0	0	0	0	1	8.29	mV
753	Pier 1	187649.50	178943.00	0	0	0	0	0	0	1	9.98	mV
754	Pier 1	187651.00	178946.00	0	0	0	0	0	0	1	13.06	mV
755	Pier 1	187653.24	178945.14	0	0	0	0	0	0	7	7.13	mV
756	Pier 1	187656.50	178940.50	0	0	0	0	0	0	1	9.97	mV
757	Pier 1	187666.50	178950.00	0	0	0	0	0	0	1	14.23	mV
758	Pier 1	187663.00	178950.50	0	0	0	0	0	0	1	18.32	mV
759	Pier 1	187662.83	178952.89	0	0	0	0	0	0	1	20.96	mV
760	Pier 1	187661.00	178953.00	0	0	0	0	0	0	10	26.48	mV
761	Pier 1	187663.50	178957.00	0	0	0	0	0	0	1	1176.24	mV
762	Pier 1	187666.00	178954.50	0	0	0	0	0	0	1	201.40	mV
763	Pier 1	187668.50	178957.50	0	0	0	0	0	0	1	2087.32	mV
764	Pier 1	187692.14	178955.32	0	0	0	0	0	0	7	7.30	mV
765	Pier 1	187689.50	178950.52	0	0	0	0	0	0	7	7.09	mV
766	Pier 1	187694.78	178939.83	0	0	0	0	0	0	7	8.23	mV
767	Pier 1	187704.99	178941.42	0	0	0	0	0	0	1	10.60	mV
768	Pier 1	187700.68	178951.49	0	0	0	0	0	0	7	7.78	mV
769	Pier 1	187703.14	178956.44	0	0	0	0	0	0	7	7.02	mV
770	Pier 1	187710.50	178958.50	0	0	0	0	0	0	1	20.73	mV
771	Pier 1	187710.50	178960.00	0	0	0	0	0	0	1	25.51	mV
772	Pier 1	187722.74	178983.68	0	0	0	0	0	0	1	7.70	mV
773	Pier 1	187718.10	178996.22	0	0	0	0	0	0	7	7.94	mV
774	Pier 1	187709.00	179006.50	0	0	0	0	0	0	1	118.30	mV
775	Pier 1	187728.50	179012.00	0	0	0	0	0	0	7	7.14	mV
776	Pier 1	187730.11	179015.28	0	0	0	0	0	0	7	8.69	mV
777	Pier 1	187710.97	179019.62	0	0	0	0	0	0	1	615.79	mV
778	Pier 1	187706.00	179024.00	0	0	0	0	0	0	1	11.19	mV
779	Pier 1	187711.00	179043.50	0	0	0	0	0	0	7	8.17	mV
780	Pier 1	187699.50	179050.50	0	0	0	0	0	0	7	8.95	mV
781	Pier 1	187694.00	179052.50	0	0	0	0	0	0	1	13.66	mV
782	Pier 1	187692.00	179054.00	0	0	0	0	0	0	1	19.92	mV
783	Pier 1	187681.50	179050.00	0	0	0	0	0	0	1	84.46	mV
784	Pier 1	187682.13	179052.54	0	0	0	0	0	0	1	250.99	mV
785	Pier 1	187679.82	179056.42	0	0	0	0	0	0	1	13.23	mV
786	Pier 1	187679.00	179059.50	0	0	0	0	0	0	1	8.61	mV
787	Pier 1	187673.50	179065.50	0	0	0	0	0	0	1	8.16	mV
788	Pier 1	187668.50	179064.50	0	0	0	0	0	0	1	15.79	mV
789	Pier 1	187670.50	179063.00	0	0	0	0	0	0	1	11.18	mV
790	Pier 1	187671.20	179055.97	0	0	0	0	0	0	7	7.19	mV
791	Pier 1	187669.14	179054.27	0	0	0	0	0	0	1	8.06	mV
792	Pier 1	187663.00	179051.50	0	0	0	0	0	0	1	17.56	mV

793	Pier 1	187661.57	179054.23	0	0	0	0	0	0	1	10.28	mV
794	Pier 1	187663.50	179058.00	0	0	0	0	0	0	1	26.64	mV
795	Pier 1	187664.00	179063.00	0	0	0	0	0	0	1	10.67	mV
796	Pier 1	187652.00	179062.00	0	0	0	0	0	0	1	22.95	mV
797	Pier 1	187643.00	179068.00	0	0	0	0	0	0	1	15.26	mV
798	Pier 1	187644.50	179073.00	0	0	0	0	0	0	1	10.60	mV
799	Pier 1	187640.50	179081.50	0	0	0	0	0	0	1	16.74	mV
800	Pier 1	187635.84	179079.78	0	0	0	0	0	0	1	26.39	mV
801	Pier 1	187633.50	179080.50	0	0	0	0	0	0	1	141.47	mV
802	Pier 1	187632.44	179078.41	0	0	0	0	0	0	1	18.86	mV
803	Pier 1	187626.50	179080.00	0	0	0	0	0	0	1	23.93	mV
804	Pier 1	187628.00	179082.50	0	0	0	0	0	0	1	12.73	mV
805	Pier 1	187628.27	179087.77	0	0	0	0	0	0	1	720.73	mV
806	Pier 1	187620.50	179086.50	0	0	0	0	0	0	1	19.91	mV
807	Pier 1	187617.50	179083.50	0	0	0	0	0	0	1	23.56	mV
808	Pier 1	187615.00	179073.00	0	0	0	0	0	0	10	17631.90	mV
809	Pier 1	187618.00	179072.00	0	0	0	0	0	0	10	18020.30	mV
810	Pier 1	187622.00	179068.50	0	0	0	0	0	0	1	86.46	mV
811	Pier 1	187624.50	179063.50	0	0	0	0	0	0	1	32.98	mV
812	Pier 1	187620.50	179065.50	0	0	0	0	0	0	1	9.38	mV
813	Pier 1	187614.00	179066.50	0	0	0	0	0	0	10	16594.44	mV
814	Pier 1	187607.50	179064.00	0	0	0	0	0	0	10	20602.93	mV
815	Pier 1	187609.00	179060.50	0	0	0	0	0	0	1	13.12	mV
816	Pier 1	187608.45	179052.09	0	0	0	0	0	0	6	6.77	mV
817	Pier 1	187610.46	179048.45	0	0	0	0	0	0	7	7.24	mV
818	Pier 1	187621.50	179048.00	0	0	0	0	0	0	1	308.55	mV
819	Pier 1	187621.50	179051.50	0	0	0	0	0	0	1	81.95	mV
820	Pier 1	187620.00	179052.00	0	0	0	0	0	0	1	48.83	mV
821	Pier 1	187619.00	179055.50	0	0	0	0	0	0	1	70.79	mV
822	Pier 1	187622.50	179057.00	0	0	0	0	0	0	1	13.44	mV
823	Pier 1	187622.50	179053.50	0	0	0	0	0	0	1	112.32	mV
824	Pier 1	187628.50	179051.50	0	0	0	0	0	0	10	19.04	mV
825	Pier 1	187630.31	179050.50	0	0	0	0	0	0	1	7.63	mV
826	Pier 1	187634.00	179058.00	0	0	0	0	0	0	1	89.20	mV
827	Pier 1	187632.50	179058.50	0	0	0	0	0	0	1	102.66	mV
828	Pier 1	187629.84	179059.09	0	0	0	0	0	0	1	89.65	mV
829	Pier 1	187631.35	179064.25	0	0	0	0	0	0	1	28.00	mV
830	Pier 1	187632.00	179070.50	0	0	0	0	0	0	1	56.68	mV
831	Pier 1	187636.00	179070.00	0	0	0	0	0	0	1	9.16	mV
832	Pier 1	187643.50	179064.50	0	0	0	0	0	0	1	19.73	mV
833	Pier 1	187644.62	179058.81	0	0	0	0	0	0	1	210.45	mV
834	Pier 1	187641.50	179054.50	0	0	0	0	0	0	1	23.40	mV
835	Pier 1	187645.00	179054.00	0	0	0	0	0	0	1	52.40	mV
836	Pier 1	187647.00	179052.00	0	0	0	0	0	0	1	83.14	mV
837	Pier 1	187650.00	179055.00	0	0	0	0	0	0	1	154.77	mV
838	Pier 1	187654.19	179053.65	0	0	0	0	0	0	1	22.02	mV
839	Pier 1	187656.75	179048.35	0	0	0	0	0	0	1	95.82	mV
840	Pier 1	187656.00	179044.50	0	0	0	0	0	0	1	79.72	mV
841	Pier 1	187654.50	179039.00	0	0	0	0	0	0	10	11.75	mV
842	Pier 1	187660.50	179043.50	0	0	0	0	0	0	1	50.38	mV
843	Pier 1	187669.14	179043.26	0	0	0	0	0	0	10	4654.39	mV
844	Pier 1	187671.00	179042.50	0	0	0	0	0	0	10	14176.11	mV
845	Pier 1	187672.32	179046.36	0	0	0	0	0	0	1	72.00	mV
846	Pier 1	187680.50	179044.77	0	0	0	0	0	0	1	8.83	mV
847	Pier 1	187679.50	179041.50	0	0	0	0	0	0	1	13.60	mV
848	Pier 1	187678.50	179040.50	0	0	0	0	0	0	1	9.66	mV
849	Pier 1	187684.00	179037.00	0	0	0	0	0	0	1	14.33	mV
850	Pier 1	187686.00	179036.00	0	0	0	0	0	0	1	32.74	mV
851	Pier 1	187687.73	179040.27	0	0	0	0	0	0	1	12.95	mV
852	Pier 1	187691.50	179039.50	0	0	0	0	0	0	1	944.20	mV
853	Pier 1	187695.50	179032.00	0	0	0	0	0	0	1	18.37	mV

854	Pier 1	187689.50	179034.50	0	0	0	0	0	0	1	13.41	mV
855	Pier 1	187684.47	179032.85	0	0	0	0	0	0	1	9.40	mV
856	Pier 1	187681.27	179034.68	0	0	0	0	0	0	1	10.82	mV
857	Pier 1	187680.00	179035.50	0	0	0	0	0	0	1	7.20	mV
858	Pier 1	187674.00	179036.00	0	0	0	0	0	0	1	7.58	mV
859	Pier 1	187672.50	179034.00	0	0	0	0	0	0	1	190.87	mV
860	Pier 1	187671.00	179036.00	0	0	0	0	0	0	1	17.18	mV
861	Pier 1	187666.83	179031.69	0	0	0	0	0	0	10	38.57	mV
862	Pier 1	187662.00	179034.50	0	0	0	0	0	0	10	11.17	mV
863	Pier 1	187658.02	179032.55	0	0	0	0	0	0	1	9.12	mV
864	Pier 1	187655.00	179030.00	0	0	0	0	0	0	1	130.46	mV
865	Pier 1	187662.00	179029.50	0	0	0	0	0	0	1	185.01	mV
866	Pier 1	187664.50	179026.50	0	0	0	0	0	0	1	453.72	mV
867	Pier 1	187664.00	179021.00	0	0	0	0	0	0	1	87.08	mV
868	Pier 1	187669.58	179017.74	0	0	0	0	0	0	1	7.42	mV
869	Pier 1	187671.50	179013.00	0	0	0	0	0	0	1	84.37	mV
870	Pier 1	187671.69	179009.13	0	0	0	0	0	0	10	78.57	mV
871	Pier 1	187673.00	179006.50	0	0	0	0	0	0	10	193.99	mV
872	Pier 1	187675.12	179009.29	0	0	0	0	0	0	10	56.08	mV
873	Pier 1	187675.00	179012.50	0	0	0	0	0	0	1	14.41	mV
874	Pier 1	187678.00	179010.50	0	0	0	0	0	0	10	52.82	mV
875	Pier 1	187693.50	179017.50	0	0	0	0	0	0	1	8.13	mV
876	Pier 1	187688.47	179011.98	0	0	0	0	0	0	7	7.21	mV
877	Pier 1	187685.50	178996.50	0	0	0	0	0	0	1	8.43	mV
878	Pier 1	187679.50	178995.00	0	0	0	0	0	0	1	2506.35	mV
879	Pier 1	187679.95	178999.45	0	0	0	0	0	0	1	61.43	mV
880	Pier 1	187674.50	178998.00	0	0	0	0	0	0	1	945.47	mV
881	Pier 1	187665.50	179002.00	0	0	0	0	0	0	1	22.19	mV
882	Pier 1	187664.00	178997.50	0	0	0	0	0	0	1	24.60	mV
883	Pier 1	187665.00	178993.00	0	0	0	0	0	0	7	7.52	mV
884	Pier 1	187664.00	178989.50	0	0	0	0	0	0	7	7.80	mV
885	Pier 1	187662.50	178986.50	0	0	0	0	0	0	1	19.85	mV
886	Pier 1	187659.50	178987.00	0	0	0	0	0	0	1	16.80	mV
887	Pier 1	187661.00	178983.50	0	0	0	0	0	0	1	399.44	mV
888	Pier 1	187665.00	178982.50	0	0	0	0	0	0	1	101.31	mV
889	Pier 1	187668.00	178985.50	0	0	0	0	0	0	1	84.26	mV
890	Pier 1	187677.50	178977.00	0	0	0	0	0	0	1	18.56	mV
891	Pier 1	187664.50	178978.00	0	0	0	0	0	0	1	26.86	mV
892	Pier 1	187660.50	178979.00	0	0	0	0	0	0	1	21.71	mV
893	Pier 1	187658.00	178977.50	0	0	0	0	0	0	1	7.32	mV
894	Pier 1	187655.00	178977.50	0	0	0	0	0	0	1	15.67	mV
895	Pier 1	187656.00	178973.50	0	0	0	0	0	0	1	385.81	mV
896	Pier 1	187659.00	178970.50	0	0	0	0	0	0	1	485.23	mV
897	Pier 1	187662.00	178970.00	0	0	0	0	0	0	1	21.22	mV
898	Pier 1	187660.00	178968.00	0	0	0	0	0	0	1	13.86	mV
899	Pier 1	187652.50	178973.00	0	0	0	0	0	0	1	56.03	mV
900	Pier 1	187648.00	178970.50	0	0	0	0	0	0	1	19.08	mV
901	Pier 1	187646.00	178971.50	0	0	0	0	0	0	1	19.15	mV
902	Pier 1	187647.98	178976.17	0	0	0	0	0	0	1	15.45	mV
903	Pier 1	187652.00	178983.50	0	0	0	0	0	0	1	1759.37	mV
904	Pier 1	187654.47	178985.94	0	0	0	0	0	0	1	20.10	mV
905	Pier 1	187655.00	178989.00	0	0	0	0	0	0	1	106.82	mV
906	Pier 1	187656.50	178991.00	0	0	0	0	0	0	1	196.28	mV
907	Pier 1	187657.00	178994.00	0	0	0	0	0	0	1	121.86	mV
908	Pier 1	187659.70	178998.21	0	0	0	0	0	0	1	898.87	mV
909	Pier 1	187660.00	179001.50	0	0	0	0	0	0	1	780.23	mV
910	Pier 1	187661.50	179004.50	0	0	0	0	0	0	1	621.89	mV
911	Pier 1	187665.01	179006.23	0	0	0	0	0	0	1	13.19	mV
912	Pier 1	187667.50	179010.00	0	0	0	0	0	0	1	197.40	mV
913	Pier 1	187664.05	179013.26	0	0	0	0	0	0	1	162.86	mV
914	Pier 1	187662.50	179011.50	0	0	0	0	0	0	1	214.59	mV

915	Pier 1	187658.00	179015.00	0	0	0	0	0	0	1	23.15	mV
916	Pier 1	187659.50	179016.00	0	0	0	0	0	0	1	26.90	mV
917	Pier 1	187658.00	179018.00	0	0	0	0	0	0	7	7.58	mV
918	Pier 1	187652.00	179017.00	0	0	0	0	0	0	1	98.46	mV
919	Pier 1	187652.50	179020.00	0	0	0	0	0	0	1	202.24	mV
920	Pier 1	187649.50	179023.00	0	0	0	0	0	0	1	7.08	mV
921	Pier 1	187645.00	179024.50	0	0	0	0	0	0	7	8.15	mV
922	Pier 1	187645.50	179028.50	0	0	0	0	0	0	1	17.67	mV
923	Pier 1	187647.50	179029.50	0	0	0	0	0	0	1	38.33	mV
924	Pier 1	187645.50	179032.00	0	0	0	0	0	0	1	7.40	mV
925	Pier 1	187646.50	179034.00	0	0	0	0	0	0	1	9.60	mV
926	Pier 1	187648.05	179036.15	0	0	0	0	0	0	1	7.23	mV
927	Pier 1	187647.42	179038.57	0	0	0	0	0	0	1	26.53	mV
928	Pier 1	187648.38	179041.94	0	0	0	0	0	0	1	35.07	mV
929	Pier 1	187649.00	179045.00	0	0	0	0	0	0	1	80.39	mV
930	Pier 1	187646.00	179046.50	0	0	0	0	0	0	10	342.25	mV
931	Pier 1	187647.46	179048.12	0	0	0	0	0	0	10	503.41	mV
932	Pier 1	187643.77	179050.27	0	0	0	0	0	0	1	30.29	mV
933	Pier 1	187642.50	179046.50	0	0	0	0	0	0	1	83.19	mV
934	Pier 1	187639.00	179048.50	0	0	0	0	0	0	1	12.47	mV
935	Pier 1	187636.00	179045.00	0	0	0	0	0	0	9	100.91	mV
936	Pier 1	187639.00	179043.00	0	0	0	0	0	0	1	16.53	mV
937	Pier 1	187643.00	179043.50	0	0	0	0	0	0	1	101.07	mV
938	Pier 1	187645.50	179041.50	0	0	0	0	0	0	1	92.36	mV
939	Pier 1	187642.66	179038.43	0	0	0	0	0	0	1	27.76	mV
940	Pier 1	187639.00	179035.50	0	0	0	0	0	0	1	17.50	mV
941	Pier 1	187639.00	179026.50	0	0	0	0	0	0	1	10.13	mV
942	Pier 1	187636.50	179027.50	0	0	0	0	0	0	10	1144.37	mV
943	Pier 1	187634.00	179023.00	0	0	0	0	0	0	9	340.76	mV
944	Pier 1	187636.00	179021.00	0	0	0	0	0	0	1	37.15	mV
945	Pier 1	187634.50	179018.50	0	0	0	0	0	0	1	118.16	mV
946	Pier 1	187628.00	179008.00	0	0	0	0	0	0	1	39.20	mV
947	Pier 1	187625.50	179007.00	0	0	0	0	0	0	1	82.37	mV
948	Pier 1	187621.00	179010.50	0	0	0	0	0	0	1	45.90	mV
949	Pier 1	187617.50	179008.00	0	0	0	0	0	0	1	343.39	mV
950	Pier 1	187614.00	179011.50	0	0	0	0	0	0	10	1017.99	mV
951	Pier 1	187613.50	179016.00	0	0	0	0	0	0	9	21.27	mV
952	Pier 1	187615.50	179019.50	0	0	0	0	0	0	9	9.09	mV
953	Pier 1	187607.73	179016.00	0	0	0	0	0	0	6	6.53	mV
954	Pier 1	187602.00	179012.00	0	0	0	0	0	0	1	92.25	mV
955	Pier 1	187599.00	179018.00	0	0	0	0	0	0	10	768.82	mV
956	Pier 1	187601.04	179018.52	0	0	0	0	0	0	10	60.14	mV
957	Pier 1	187601.66	179020.85	0	0	0	0	0	0	1	30.63	mV
958	Pier 1	187603.94	179021.84	0	0	0	0	0	0	1	11.82	mV
959	Pier 1	187607.50	179024.00	0	0	0	0	0	0	1	22.91	mV
960	Pier 1	187609.50	179024.50	0	0	0	0	0	0	1	73.33	mV
961	Pier 1	187611.87	179024.58	0	0	0	0	0	0	1	16.59	mV
962	Pier 1	187609.50	179027.50	0	0	0	0	0	0	1	925.98	mV
963	Pier 1	187609.00	179030.50	0	0	0	0	0	0	1	8.85	mV
964	Pier 1	187607.50	179032.00	0	0	0	0	0	0	1	278.99	mV
965	Pier 1	187615.18	179031.47	0	0	0	0	0	0	1	23.00	mV
966	Pier 1	187618.00	179031.00	0	0	0	0	0	0	9	53.46	mV
967	Pier 1	187621.00	179031.50	0	0	0	0	0	0	9	26.33	mV
968	Pier 1	187612.00	179039.50	0	0	0	0	0	0	1	90.78	mV
969	Pier 1	187609.50	179041.50	0	0	0	0	0	0	1	57.28	mV
970	Pier 1	187608.00	179042.00	0	0	0	0	0	0	1	37.63	mV
971	Pier 1	187604.00	179040.50	0	0	0	0	0	0	1	26.55	mV
972	Pier 1	187598.50	179045.50	0	0	0	0	0	0	1	8.82	mV
973	Pier 1	187593.50	179035.50	0	0	0	0	0	0	1	9.88	mV
974	Pier 1	187597.50	179030.50	0	0	0	0	0	0	1	17.48	mV
975	Pier 1	187589.00	179021.50	0	0	0	0	0	0	10	21586.06	mV

976	Pier 1	187586.00	179020.00	0	0	0	0	0	0	10	18844.37	mV
977	Pier 1	187583.00	179013.00	0	0	0	0	0	0	7	7.57	mV
978	Pier 1	187590.50	179009.00	0	0	0	0	0	0	1	160.68	mV
979	Pier 1	187594.00	179013.00	0	0	0	0	0	0	1	9.19	mV
980	Pier 1	187595.00	179009.00	0	0	0	0	0	0	1	21.73	mV
981	Pier 1	187596.00	179008.00	0	0	0	0	0	0	1	41.89	mV
982	Pier 1	187597.00	179004.00	0	0	0	0	0	0	1	353.11	mV
983	Pier 1	187598.57	179005.91	0	0	0	0	0	0	1	1173.08	mV
984	Pier 1	187604.02	179005.48	0	0	0	0	0	0	6	6.43	mV
985	Pier 1	187606.50	179002.50	0	0	0	0	0	0	1	11.41	mV
986	Pier 1	187610.11	179003.65	0	0	0	0	0	0	1	700.77	mV
987	Pier 1	187614.00	179006.00	0	0	0	0	0	0	1	15.10	mV
988	Pier 1	187617.50	179005.00	0	0	0	0	0	0	1	737.96	mV
989	Pier 1	187622.00	179004.50	0	0	0	0	0	0	1	93.38	mV
990	Pier 1	187621.00	179002.00	0	0	0	0	0	0	1	52.42	mV
991	Pier 1	187622.00	179000.00	0	0	0	0	0	0	1	28.21	mV
992	Pier 1	187618.87	178998.65	0	0	0	0	0	0	10	20.39	mV
993	Pier 1	187623.00	178996.50	0	0	0	0	0	0	10	670.95	mV
994	Pier 1	187617.50	178991.50	0	0	0	0	0	0	1	95.14	mV
995	Pier 1	187616.53	178985.46	0	0	0	0	0	0	10	1055.62	mV
996	Pier 1	187612.50	178981.00	0	0	0	0	0	0	1	418.53	mV
997	Pier 1	187614.00	178979.00	0	0	0	0	0	0	1	9.62	mV
998	Pier 1	187609.00	178980.50	0	0	0	0	0	0	1	40.30	mV
999	Pier 1	187606.79	178982.41	0	0	0	0	0	0	1	23.94	mV
1000	Pier 1	187601.50	178983.00	0	0	0	0	0	0	1	11.69	mV
1001	Pier 1	187600.17	178985.13	0	0	0	0	0	0	1	7.52	mV
1002	Pier 1	187602.50	178989.00	0	0	0	0	0	0	1	50.86	mV
1003	Pier 1	187605.00	178989.50	0	0	0	0	0	0	10	99.85	mV
1004	Pier 1	187609.00	178990.50	0	0	0	0	0	0	10	322.04	mV
1005	Pier 1	187611.00	178996.50	0	0	0	0	0	0	10	15012.71	mV
1006	Pier 1	187607.50	178995.00	0	0	0	0	0	0	1	157.18	mV
1007	Pier 1	187604.31	178994.60	0	0	0	0	0	0	1	102.73	mV
1008	Pier 1	187603.00	178992.50	0	0	0	0	0	0	10	136.73	mV
1009	Pier 1	187598.50	178995.00	0	0	0	0	0	0	1	14.62	mV
1010	Pier 1	187596.50	178995.00	0	0	0	0	0	0	1	15.24	mV
1011	Pier 1	187593.00	178998.00	0	0	0	0	0	0	1	11.30	mV
1012	Pier 1	187592.50	179000.00	0	0	0	0	0	0	1	38.17	mV
1013	Pier 1	187590.00	178999.50	0	0	0	0	0	0	1	189.31	mV
1014	Pier 1	187590.50	178997.00	0	0	0	0	0	0	1	9.79	mV
1015	Pier 1	187590.50	178995.00	0	0	0	0	0	0	1	13.90	mV
1016	Pier 1	187587.50	178994.50	0	0	0	0	0	0	1	58.89	mV
1017	Pier 1	187584.50	178997.50	0	0	0	0	0	0	1	10.33	mV
1018	Pier 1	187586.00	179000.50	0	0	0	0	0	0	1	14.70	mV
1019	Pier 1	187581.00	179004.00	0	0	0	0	0	0	1	15.41	mV
1020	Pier 1	187576.50	179003.00	0	0	0	0	0	0	1	6344.52	mV
1021	Pier 1	187570.00	178988.00	0	0	0	0	0	0	1	27.84	mV
1022	Pier 1	187570.00	178980.50	0	0	0	0	0	0	1	20.78	mV
1023	Pier 1	187564.50	178981.00	0	0	0	0	0	0	1	9.29	mV
1024	Pier 1	187563.00	178978.00	0	0	0	0	0	0	1	7.20	mV
1025	Pier 1	187566.00	178974.00	0	0	0	0	0	0	1	27.33	mV
1026	Pier 1	187567.50	178973.00	0	0	0	0	0	0	1	10.93	mV
1027	Pier 1	187569.49	178972.17	0	0	0	0	0	0	1	19.96	mV
1028	Pier 1	187571.30	178971.89	0	0	0	0	0	0	1	21.95	mV
1029	Pier 1	187566.50	178969.00	0	0	0	0	0	0	1	22.85	mV
1030	Pier 1	187563.00	178967.00	0	0	0	0	0	0	1	12.90	mV
1031	Pier 1	187558.50	178966.00	0	0	0	0	0	0	1	13.11	mV
1032	Pier 1	187563.50	178963.50	0	0	0	0	0	0	1	7.37	mV
1033	Pier 1	187567.96	178963.67	0	0	0	0	0	0	1	56.69	mV
1034	Pier 1	187566.00	178958.50	0	0	0	0	0	0	1	55.43	mV
1035	Pier 1	187563.50	178954.50	0	0	0	0	0	0	1	89.51	mV
1036	Pier 1	187563.00	178953.00	0	0	0	0	0	0	1	59.40	mV

1037	Pier 1	187561.47	178950.71	0	0	0	0	0	0	10	777.83	mV
1038	Pier 1	187559.34	178948.71	0	0	0	0	0	0	10	110.40	mV
1039	Pier 1	187557.50	178950.50	0	0	0	0	0	0	1	162.98	mV
1040	Pier 1	187557.00	178953.00	0	0	0	0	0	0	1	26.68	mV
1041	Pier 1	187555.00	178958.50	0	0	0	0	0	0	1	22.74	mV
1042	Pier 1	187550.00	178953.00	0	0	0	0	0	0	1	7.27	mV
1043	Pier 1	187551.00	178950.00	0	0	0	0	0	0	1	25.41	mV
1044	Pier 1	187548.50	178948.50	0	0	0	0	0	0	1	43.46	mV
1045	Pier 1	187550.00	178947.00	0	0	0	0	0	0	1	30.27	mV
1046	Pier 1	187551.50	178946.50	0	0	0	0	0	0	1	19.21	mV
1047	Pier 1	187553.50	178947.50	0	0	0	0	0	0	1	19.39	mV
1048	Pier 1	187555.50	178946.50	0	0	0	0	0	0	1	24.11	mV
1049	Pier 1	187553.63	178942.85	0	0	0	0	0	0	1	7.73	mV
1050	Pier 1	187558.50	178944.00	0	0	0	0	0	0	1	2873.49	mV
1051	Pier 1	187564.00	178949.50	0	0	0	0	0	0	1	880.49	mV
1052	Pier 1	187565.50	178946.50	0	0	0	0	0	0	1	1241.31	mV
1053	Pier 1	187567.50	178948.00	0	0	0	0	0	0	10	4978.81	mV
1054	Pier 1	187570.03	178950.43	0	0	0	0	0	0	1	1106.16	mV
1055	Pier 1	187573.00	178956.50	0	0	0	0	0	0	1	139.81	mV
1056	Pier 1	187574.00	178954.50	0	0	0	0	0	0	1	9.91	mV
1057	Pier 1	187576.87	178953.17	0	0	0	0	0	0	1	13.31	mV
1058	Pier 1	187577.00	178955.50	0	0	0	0	0	0	1	31.86	mV
1059	Pier 1	187582.00	178956.00	0	0	0	0	0	0	1	7.70	mV
1060	Pier 1	187583.50	178956.00	0	0	0	0	0	0	1	13.00	mV
1061	Pier 1	187587.00	178955.00	0	0	0	0	0	0	10	2854.80	mV
1062	Pier 1	187589.34	178959.15	0	0	0	0	0	0	1	9.84	mV
1063	Pier 1	187586.50	178964.00	0	0	0	0	0	0	1	28.47	mV
1064	Pier 1	187579.72	178961.10	0	0	0	0	0	0	1	6240.65	mV
1065	Pier 1	187574.00	178962.50	0	0	0	0	0	0	1	8.44	mV
1066	Pier 1	187572.83	178960.70	0	0	0	0	0	0	1	29.81	mV
1067	Pier 1	187571.00	178964.00	0	0	0	0	0	0	1	8.97	mV
1068	Pier 1	187573.00	178967.00	0	0	0	0	0	0	1	10.28	mV
1069	Pier 1	187576.50	178968.00	0	0	0	0	0	0	1	273.53	mV
1070	Pier 1	187581.00	178968.50	0	0	0	0	0	0	1	8.25	mV
1071	Pier 1	187580.50	178971.50	0	0	0	0	0	0	1	39.98	mV
1072	Pier 1	187578.50	178971.00	0	0	0	0	0	0	1	152.23	mV
1073	Pier 1	187575.50	178976.00	0	0	0	0	0	0	1	8.74	mV
1074	Pier 1	187579.00	178975.00	0	0	0	0	0	0	1	264.21	mV
1075	Pier 1	187581.50	178977.50	0	0	0	0	0	0	1	97.88	mV
1076	Pier 1	187580.00	178982.50	0	0	0	0	0	0	1	34.94	mV
1077	Pier 1	187579.00	178984.50	0	0	0	0	0	0	1	17.68	mV
1078	Pier 1	187581.00	178985.50	0	0	0	0	0	0	1	8.71	mV
1079	Pier 1	187579.00	178993.50	0	0	0	0	0	0	1	8.16	mV
1080	Pier 1	187581.29	178995.66	0	0	0	0	0	0	7	7.34	mV
1081	Pier 1	187585.50	178991.50	0	0	0	0	0	0	1	9.23	mV
1082	Pier 1	187587.50	178991.50	0	0	0	0	0	0	1	7.34	mV
1083	Pier 1	187588.00	178988.50	0	0	0	0	0	0	1	45.73	mV
1084	Pier 1	187588.00	178986.50	0	0	0	0	0	0	1	16.90	mV
1085	Pier 1	187586.48	178983.24	0	0	0	0	0	0	1	2175.56	mV
1086	Pier 1	187587.00	178980.00	0	0	0	0	0	0	1	38.38	mV
1087	Pier 1	187589.50	178985.00	0	0	0	0	0	0	1	245.82	mV
1088	Pier 1	187591.66	178984.06	0	0	0	0	0	0	1	67.60	mV
1089	Pier 1	187593.00	178987.50	0	0	0	0	0	0	1	22.41	mV
1090	Pier 1	187596.50	178985.50	0	0	0	0	0	0	1	17.66	mV
1091	Pier 1	187598.78	178981.72	0	0	0	0	0	0	1	10.59	mV
1092	Pier 1	187599.50	178978.50	0	0	0	0	0	0	1	9.87	mV
1093	Pier 1	187601.00	178979.00	0	0	0	0	0	0	1	7.31	mV
1094	Pier 1	187605.50	178976.50	0	0	0	0	0	0	1	254.33	mV
1095	Pier 1	187609.00	178975.50	0	0	0	0	0	0	1	10.60	mV
1096	Pier 1	187611.96	178974.36	0	0	0	0	0	0	1	10.88	mV
1097	Pier 1	187608.00	178971.50	0	0	0	0	0	0	1	22.27	mV

1098	Pier 1	187607.50	178968.50	0	0	0	0	0	0	1	42.40	mV
1099	Pier 1	187602.50	178971.00	0	0	0	0	0	0	10	1311.58	mV
1100	Pier 1	187600.00	178971.00	0	0	0	0	0	0	1	213.35	mV
1101	Pier 1	187595.50	178963.50	0	0	0	0	0	0	1	48.05	mV
1102	Pier 1	187597.50	178962.00	0	0	0	0	0	0	1	34.06	mV
1103	Pier 1	187602.50	178963.50	0	0	0	0	0	0	1	119.62	mV
1104	Pier 1	187604.50	178963.50	0	0	0	0	0	0	1	17.86	mV
1105	Pier 1	187601.50	178955.50	0	0	0	0	0	0	10	292.65	mV
1106	Pier 1	187598.50	178955.50	0	0	0	0	0	0	1	41.04	mV
1107	Pier 1	187595.50	178949.00	0	0	0	0	0	0	10	462.59	mV
1108	Pier 1	187590.50	178948.50	0	0	0	0	0	0	10	18.59	mV
1109	Pier 1	187590.00	178951.00	0	0	0	0	0	0	1	7.21	mV
1110	Pier 1	187585.00	178949.50	0	0	0	0	0	0	1	741.41	mV
1111	Pier 1	187583.50	178948.50	0	0	0	0	0	0	1	201.42	mV
1112	Pier 1	187583.50	178947.00	0	0	0	0	0	0	1	208.72	mV
1113	Pier 1	187582.00	178944.50	0	0	0	0	0	0	1	71.88	mV
1114	Pier 1	187583.50	178942.50	0	0	0	0	0	0	1	22.40	mV
1115	Pier 1	187585.00	178940.50	0	0	0	0	0	0	1	39.12	mV
1116	Pier 1	187587.48	178942.26	0	0	0	0	0	0	1	19.82	mV
1117	Pier 1	187589.00	178945.00	0	0	0	0	0	0	1	905.93	mV
1118	Pier 1	187593.00	178944.50	0	0	0	0	0	0	1	64.73	mV
1119	Pier 1	187591.50	178942.00	0	0	0	0	0	0	1	53.45	mV
1120	Pier 1	187594.50	178941.00	0	0	0	0	0	0	10	6334.83	mV
1121	Pier 1	187591.40	178936.88	0	0	0	0	0	0	10	395.16	mV
1122	Pier 1	187584.00	178937.50	0	0	0	0	0	0	1	47.68	mV
1123	Pier 1	187586.00	178936.00	0	0	0	0	0	0	1	1979.26	mV
1124	Pier 1	187587.41	178934.27	0	0	0	0	0	0	1	3838.09	mV
1125	Pier 1	187589.00	178930.50	0	0	0	0	0	0	10	1328.03	mV
1126	Pier 1	187586.00	178930.50	0	0	0	0	0	0	1	22.96	mV
1127	Pier 1	187583.50	178933.50	0	0	0	0	0	0	1	32.23	mV
1128	Pier 1	187582.00	178932.50	0	0	0	0	0	0	1	9.96	mV
1129	Pier 1	187578.50	178933.00	0	0	0	0	0	0	1	104.68	mV
1130	Pier 1	187577.37	178931.06	0	0	0	0	0	0	1	19.52	mV
1131	Pier 1	187575.00	178930.50	0	0	0	0	0	0	1	32.64	mV
1132	Pier 1	187576.00	178932.50	0	0	0	0	0	0	1	55.43	mV
1133	Pier 1	187579.00	178937.50	0	0	0	0	0	0	1	17.51	mV
1134	Pier 1	187580.00	178940.50	0	0	0	0	0	0	1	313.07	mV
1135	Pier 1	187575.00	178942.50	0	0	0	0	0	0	1	13.35	mV
1136	Pier 1	187566.29	178939.88	0	0	0	0	0	0	6	6.14	mV
1137	Pier 1	187562.00	178938.50	0	0	0	0	0	0	1	8.48	mV
1138	Pier 1	187563.00	178933.50	0	0	0	0	0	0	1	266.64	mV
1139	Pier 1	187566.00	178933.00	0	0	0	0	0	0	1	42.52	mV
1140	Pier 1	187570.50	178935.00	0	0	0	0	0	0	1	7.93	mV
1141	Pier 1	187570.00	178932.50	0	0	0	0	0	0	1	22.02	mV
1142	Pier 1	187569.00	178930.50	0	0	0	0	0	0	1	32.27	mV
1143	Pier 1	187570.89	178930.10	0	0	0	0	0	0	1	18.94	mV
1144	Pier 1	187570.00	178926.50	0	0	0	0	0	0	10	20.46	mV
1145	Pier 1	187569.00	178924.00	0	0	0	0	0	0	1	13.39	mV
1146	Pier 1	187564.07	178922.87	0	0	0	0	0	0	6	6.17	mV
1147	Pier 1	187560.00	178927.50	0	0	0	0	0	0	1	99.03	mV
1148	Pier 1	187558.00	178927.50	0	0	0	0	0	0	1	88.84	mV
1149	Pier 1	187555.50	178923.34	0	0	0	0	0	0	1	1290.32	mV
1150	Pier 1	187552.00	178926.00	0	0	0	0	0	0	1	10730.52	mV
1151	Pier 1	187548.50	178924.50	0	0	0	0	0	0	1	9.31	mV
1152	Pier 1	187551.00	178931.50	0	0	0	0	0	0	1	686.37	mV
1153	Pier 1	187553.50	178928.50	0	0	0	0	0	0	1	749.21	mV
1154	Pier 1	187557.50	178931.00	0	0	0	0	0	0	1	2437.74	mV
1155	Pier 1	187557.00	178935.50	0	0	0	0	0	0	1	7280.31	mV
1156	Pier 1	187552.96	178934.95	0	0	0	0	0	0	1	448.64	mV
1157	Pier 1	187551.66	178936.65	0	0	0	0	0	0	1	110.47	mV
1158	Pier 1	187549.50	178938.00	0	0	0	0	0	0	1	8.41	mV

1159	Pier 1	187547.50	178938.00	0	0	0	0	0	0	1	9.20	mV
1160	Pier 1	187546.50	178941.50	0	0	0	0	0	0	1	8.15	mV
1161	Pier 1	187544.50	178941.50	0	0	0	0	0	0	1	15.19	mV
1162	Pier 1	187541.00	178936.00	0	0	0	0	0	0	1	11.75	mV
1163	Pier 1	187542.00	178932.00	0	0	0	0	0	0	1	11.30	mV
1164	Pier 1	187544.00	178931.50	0	0	0	0	0	0	1	7.31	mV
1165	Pier 1	187544.50	178929.50	0	0	0	0	0	0	1	7.34	mV
1166	Pier 1	187542.50	178925.00	0	0	0	0	0	0	1	9.41	mV
1167	Pier 1	187540.28	178927.93	0	0	0	0	0	0	1	8.24	mV
1168	Pier 1	187536.00	178925.50	0	0	0	0	0	0	1	8.12	mV
1169	Pier 1	187535.61	178921.19	0	0	0	0	0	0	10	20.28	mV
1170	Pier 1	187533.00	178919.50	0	0	0	0	0	0	10	76.70	mV
1171	Pier 1	187537.00	178916.00	0	0	0	0	0	0	1	94.68	mV
1172	Pier 1	187547.97	178919.35	0	0	0	0	0	0	1	7.98	mV
1173	Pier 1	187549.00	178914.00	0	0	0	0	0	0	10	690.03	mV
1174	Pier 1	187547.50	178910.50	0	0	0	0	0	0	1	81.84	mV
1175	Pier 1	187552.30	178907.74	0	0	0	0	0	0	1	26.90	mV
1176	Pier 1	187555.00	178914.00	0	0	0	0	0	0	1	47.77	mV
1177	Pier 1	187557.50	178912.00	0	0	0	0	0	0	1	11.04	mV
1178	Pier 1	187559.00	178910.50	0	0	0	0	0	0	1	65.60	mV
1179	Pier 1	187563.00	178906.50	0	0	0	0	0	0	1	43.13	mV
1180	Pier 1	187565.50	178908.50	0	0	0	0	0	0	1	60.66	mV
1181	Pier 1	187564.00	178914.50	0	0	0	0	0	0	1	29.02	mV
1182	Pier 1	187566.92	178913.85	0	0	0	0	0	0	1	32.47	mV
1183	Pier 1	187569.50	178915.50	0	0	0	0	0	0	1	44.45	mV
1184	Pier 1	187573.18	178920.10	0	0	0	0	0	0	10	11.42	mV
1185	Pier 1	187577.00	178917.00	0	0	0	0	0	0	1	90.23	mV
1186	Pier 1	187579.50	178919.50	0	0	0	0	0	0	1	32.97	mV
1187	Pier 1	187579.50	178923.00	0	0	0	0	0	0	1	33.12	mV
1188	Pier 1	187583.00	178925.50	0	0	0	0	0	0	10	561.78	mV
1189	Pier 1	187585.00	178924.50	0	0	0	0	0	0	10	678.31	mV
1190	Pier 1	187582.00	178917.50	0	0	0	0	0	0	1	51.79	mV
1191	Pier 1	187580.50	178915.50	0	0	0	0	0	0	1	38.75	mV
1192	Pier 1	187580.50	178913.00	0	0	0	0	0	0	1	131.39	mV
1193	Pier 1	187575.00	178906.50	0	0	0	0	0	0	10	108.61	mV
1194	Pier 1	187574.21	178908.80	0	0	0	0	0	0	1	9.68	mV
1195	Pier 1	187570.00	178908.00	0	0	0	0	0	0	1	9.54	mV
1196	Pier 1	187567.50	178905.50	0	0	0	0	0	0	1	8.40	mV
1197	Pier 1	187570.50	178901.00	0	0	0	0	0	0	1	324.59	mV
1198	Pier 1	187573.00	178902.50	0	0	0	0	0	0	1	34.78	mV
1199	Pier 1	187572.50	178901.00	0	0	0	0	0	0	1	41.03	mV
1200	Pier 1	187572.50	178898.50	0	0	0	0	0	0	1	79.86	mV
1201	Pier 1	187569.58	178893.80	0	0	0	0	0	0	1	115.11	mV
1202	Pier 1	187568.00	178890.00	0	0	0	0	0	0	1	85.05	mV
1203	Pier 1	187566.00	178888.50	0	0	0	0	0	0	1	202.94	mV
1204	Pier 1	187565.00	178890.50	0	0	0	0	0	0	1	430.09	mV
1205	Pier 1	187566.17	178892.12	0	0	0	0	0	0	1	268.40	mV
1206	Pier 1	187567.23	178893.99	0	0	0	0	0	0	1	176.58	mV
1207	Pier 1	187568.50	178897.00	0	0	0	0	0	0	1	51.11	mV
1208	Pier 1	187565.00	178898.50	0	0	0	0	0	0	1	21.76	mV
1209	Pier 1	187559.94	178898.28	0	0	0	0	0	0	1	76.22	mV
1210	Pier 1	187557.27	178897.57	0	0	0	0	0	0	1	67.50	mV
1211	Pier 1	187558.00	178895.00	0	0	0	0	0	0	1	29.17	mV
1212	Pier 1	187555.07	178893.80	0	0	0	0	0	0	1	7.15	mV
1213	Pier 1	187553.73	178896.98	0	0	0	0	0	0	1	7.58	mV
1214	Pier 1	187545.00	178901.00	0	0	0	0	0	0	1	8.59	mV
1215	Pier 1	187542.50	178897.00	0	0	0	0	0	0	1	13.95	mV
1216	Pier 1	187543.50	178891.50	0	0	0	0	0	0	1	24.58	mV
1217	Pier 1	187549.00	178892.50	0	0	0	0	0	0	1	40.29	mV
1218	Pier 1	187551.86	178892.23	0	0	0	0	0	0	1	12.66	mV
1219	Pier 1	187553.22	178890.24	0	0	0	0	0	0	1	7.50	mV

1220	Pier 1	187554.50	178886.00	0	0	0	0	0	0	1	22.56	mV
1221	Pier 1	187557.00	178886.00	0	0	0	0	0	0	1	126.86	mV
1222	Pier 1	187558.00	178889.50	0	0	0	0	0	0	1	8.63	mV
1223	Pier 1	187559.50	178888.00	0	0	0	0	0	0	1	46.13	mV
1224	Pier 1	187560.51	178885.78	0	0	0	0	0	0	1	24.85	mV
1225	Pier 1	187563.50	178885.50	0	0	0	0	0	0	1	150.96	mV
1226	Pier 1	187564.00	178883.50	0	0	0	0	0	0	10	266.70	mV
1227	Pier 1	187564.00	178881.00	0	0	0	0	0	0	10	106.75	mV
1228	Pier 1	187560.50	178882.00	0	0	0	0	0	0	1	207.79	mV
1229	Pier 1	187559.00	178883.00	0	0	0	0	0	0	1	97.82	mV
1230	Pier 1	187557.50	178880.50	0	0	0	0	0	0	1	25.50	mV
1231	Pier 1	187555.00	178879.00	0	0	0	0	0	0	1	65.86	mV
1232	Pier 1	187561.00	178876.00	0	0	0	0	0	0	1	163.89	mV
1233	Pier 1	187556.00	178873.50	0	0	0	0	0	0	1	71.27	mV
1234	Pier 1	187555.14	178869.50	0	0	0	0	0	0	1	150.78	mV
1235	Pier 1	187554.22	178872.53	0	0	0	0	0	0	1	101.45	mV
1236	Pier 1	187551.50	178874.50	0	0	0	0	0	0	1	1181.43	mV
1237	Pier 1	187549.00	178869.50	0	0	0	0	0	0	1	273.53	mV
1238	Pier 1	187547.50	178865.00	0	0	0	0	0	0	1	140.52	mV
1239	Pier 1	187544.00	178862.00	0	0	0	0	0	0	1	71.99	mV
1240	Pier 1	187545.00	178860.50	0	0	0	0	0	0	1	70.00	mV
1241	Pier 1	187553.15	178861.25	0	0	0	0	0	0	1	231.41	mV
1242	Pier 1	187548.50	178857.50	0	0	0	0	0	0	1	96.99	mV
1243	Pier 1	187550.50	178855.00	0	0	0	0	0	0	1	8438.00	mV
1244	Pier 1	187544.50	178851.00	0	0	0	0	0	0	1	11.21	mV
1245	Pier 1	187545.50	178846.50	0	0	0	0	0	0	1	1276.33	mV
1246	Pier 1	187545.00	178844.50	0	0	0	0	0	0	10	853.94	mV
1247	Pier 1	187542.50	178842.50	0	0	0	0	0	0	1	36.75	mV
1248	Pier 1	187541.00	178839.50	0	0	0	0	0	0	1	60.71	mV
1249	Pier 1	187539.00	178842.00	0	0	0	0	0	0	1	8.84	mV
1250	Pier 1	187533.50	178843.50	0	0	0	0	0	0	1	379.24	mV
1251	Pier 1	187540.00	178844.00	0	0	0	0	0	0	7	7.35	mV
1252	Pier 1	187541.50	178845.50	0	0	0	0	0	0	1	50.15	mV
1253	Pier 1	187540.00	178847.50	0	0	0	0	0	0	1	17.73	mV
1254	Pier 1	187535.50	178853.00	0	0	0	0	0	0	1	25.28	mV
1255	Pier 1	187526.50	178858.50	0	0	0	0	0	0	1	1454.02	mV
1256	Pier 1	187516.00	178855.00	0	0	0	0	0	0	1	15.59	mV
1257	Pier 1	187519.00	178859.00	0	0	0	0	0	0	1	257.37	mV
1258	Pier 1	187517.79	178866.16	0	0	0	0	0	0	10	44.70	mV
1259	Pier 1	187519.50	178870.50	0	0	0	0	0	0	1	75.78	mV
1260	Pier 1	187520.00	178876.08	0	0	0	0	0	0	1	12.97	mV
1261	Pier 1	187524.50	178872.50	0	0	0	0	0	0	1	35.20	mV
1262	Pier 1	187529.00	178870.50	0	0	0	0	0	0	1	76.79	mV
1263	Pier 1	187524.37	178865.81	0	0	0	0	0	0	1	10.52	mV
1264	Pier 1	187528.19	178865.07	0	0	0	0	0	0	1	759.86	mV
1265	Pier 1	187533.56	178860.79	0	0	0	0	0	0	1	89.26	mV
1266	Pier 1	187540.00	178867.50	0	0	0	0	0	0	1	12.12	mV
1267	Pier 1	187541.50	178867.00	0	0	0	0	0	0	1	11.25	mV
1268	Pier 1	187543.00	178867.50	0	0	0	0	0	0	1	13.89	mV
1269	Pier 1	187544.50	178869.00	0	0	0	0	0	0	1	29.39	mV
1270	Pier 1	187544.00	178871.50	0	0	0	0	0	0	1	25.90	mV
1271	Pier 1	187543.00	178874.00	0	0	0	0	0	0	1	9.35	mV
1272	Pier 1	187539.75	178873.17	0	0	0	0	0	0	1	18.13	mV
1273	Pier 1	187539.50	178876.50	0	0	0	0	0	0	1	8.89	mV
1274	Pier 1	187542.00	178876.00	0	0	0	0	0	0	1	10.34	mV
1275	Pier 1	187543.50	178877.00	0	0	0	0	0	0	1	15.46	mV
1276	Pier 1	187545.54	178880.89	0	0	0	0	0	0	1	3538.45	mV
1277	Pier 1	187541.50	178884.50	0	0	0	0	0	0	1	45.69	mV
1278	Pier 1	187538.50	178885.00	0	0	0	0	0	0	1	9.58	mV
1279	Pier 1	187538.00	178893.50	0	0	0	0	0	0	1	573.38	mV
1280	Pier 1	187536.00	178896.50	0	0	0	0	0	0	1	70.75	mV

1281	Pier 1	187535.50	178903.50	0	0	0	0	0	0	1	9.33	mV
1282	Pier 1	187528.50	178908.50	0	0	0	0	0	0	1	12.55	mV
1283	Pier 1	187524.00	178902.00	0	0	0	0	0	0	1	32.51	mV
1284	Pier 1	187530.50	178899.00	0	0	0	0	0	0	1	11.33	mV
1285	Pier 1	187530.00	178897.00	0	0	0	0	0	0	1	9.87	mV
1286	Pier 1	187528.00	178889.50	0	0	0	0	0	0	1	62.50	mV
1287	Pier 1	187524.50	178889.50	0	0	0	0	0	0	1	120.52	mV
1288	Pier 1	187522.00	178886.00	0	0	0	0	0	0	1	55.34	mV
1289	Pier 1	187518.66	178890.59	0	0	0	0	0	0	1	10.58	mV
1290	Pier 1	187515.50	178886.00	0	0	0	0	0	0	1	7.19	mV
1291	Pier 1	187515.50	178883.00	0	0	0	0	0	0	1	10.95	mV
1292	Pier 1	187512.00	178876.00	0	0	0	0	0	0	1	8.41	mV
1293	Pier 1	187511.00	178871.50	0	0	0	0	0	0	1	15.41	mV
1294	Pier 1	187506.50	178868.00	0	0	0	0	0	0	1	1218.01	mV
1295	Pier 1	187507.27	178863.15	0	0	0	0	0	0	1	23.55	mV
1296	Pier 1	187504.15	178863.90	0	0	0	0	0	0	1	28.98	mV
1297	Pier 1	187503.00	178860.50	0	0	0	0	0	0	1	21.70	mV
1298	Pier 1	187505.50	178860.00	0	0	0	0	0	0	1	170.07	mV
1299	Pier 1	187505.50	178855.50	0	0	0	0	0	0	1	18.52	mV
1300	Pier 1	187499.50	178854.00	0	0	0	0	0	0	1	43.57	mV
1301	Pier 1	187498.50	178850.50	0	0	0	0	0	0	1	50.98	mV
1302	Pier 1	187493.50	178841.50	0	0	0	0	0	0	1	18.71	mV
1303	Pier 1	187496.00	178843.50	0	0	0	0	0	0	1	13.52	mV
1304	Pier 1	187502.50	178845.50	0	0	0	0	0	0	1	42.41	mV
1305	Pier 1	187505.00	178848.50	0	0	0	0	0	0	1	15.75	mV
1306	Pier 1	187505.95	178844.35	0	0	0	0	0	0	1	268.97	mV
1307	Pier 1	187508.69	178842.45	0	0	0	0	0	0	1	7634.20	mV
1308	Pier 1	187513.00	178844.50	0	0	0	0	0	0	1	11.49	mV
1309	Pier 1	187516.18	178846.29	0	0	0	0	0	0	1	97.80	mV
1310	Pier 1	187516.00	178841.50	0	0	0	0	0	0	1	41.44	mV
1311	Pier 1	187517.50	178841.50	0	0	0	0	0	0	1	8.69	mV
1312	Pier 1	187522.02	178837.51	0	0	0	0	0	0	6	6.31	mV
1313	Pier 1	187519.50	178833.00	0	0	0	0	0	0	1	15.94	mV
1314	Pier 1	187517.50	178831.00	0	0	0	0	0	0	1	37.47	mV
1315	Pier 1	187521.50	178832.00	0	0	0	0	0	0	1	17.80	mV
1316	Pier 1	187524.97	178831.61	0	0	0	0	0	0	1	1638.96	mV
1317	Pier 1	187527.00	178828.00	0	0	0	0	0	0	1	22.31	mV
1318	Pier 1	187530.00	178831.00	0	0	0	0	0	0	1	57.29	mV
1319	Pier 1	187530.00	178834.00	0	0	0	0	0	0	1	27.93	mV
1320	Pier 1	187531.50	178837.00	0	0	0	0	0	0	1	21.37	mV
1321	Pier 1	187535.50	178837.00	0	0	0	0	0	0	1	29.31	mV
1322	Pier 1	187537.50	178836.00	0	0	0	0	0	0	1	176.38	mV
1323	Pier 1	187536.50	178833.50	0	0	0	0	0	0	1	9.76	mV
1324	Pier 1	187534.75	178833.71	0	0	0	0	0	0	1	8.30	mV
1325	Pier 1	187534.50	178832.00	0	0	0	0	0	0	1	8.37	mV
1326	Pier 1	187538.50	178831.50	0	0	0	0	0	0	10	383.45	mV
1327	Pier 1	187536.74	178828.52	0	0	0	0	0	0	10	28.05	mV
1328	Pier 1	187531.50	178826.00	0	0	0	0	0	0	1	19.51	mV
1329	Pier 1	187533.50	178825.50	0	0	0	0	0	0	1	7.27	mV
1330	Pier 1	187534.15	178823.56	0	0	0	0	0	0	1	7.29	mV
1331	Pier 1	187531.00	178821.00	0	0	0	0	0	0	1	8.66	mV
1332	Pier 1	187530.72	178816.98	0	0	0	0	0	0	1	1853.16	mV
1333	Pier 1	187528.00	178817.00	0	0	0	0	0	0	1	91.34	mV
1334	Pier 1	187528.50	178819.50	0	0	0	0	0	0	1	15.78	mV
1335	Pier 1	187526.58	178823.53	0	0	0	0	0	0	1	11.46	mV
1336	Pier 1	187525.19	178821.01	0	0	0	0	0	0	1	25.25	mV
1337	Pier 1	187523.50	178818.00	0	0	0	0	0	0	1	66.82	mV
1338	Pier 1	187526.00	178813.50	0	0	0	0	0	0	1	43.86	mV
1339	Pier 1	187524.00	178810.00	0	0	0	0	0	0	1	32.51	mV
1340	Pier 1	187526.00	178807.50	0	0	0	0	0	0	1	129.97	mV
1341	Pier 1	187522.50	178806.50	0	0	0	0	0	0	1	49.51	mV

1342	Pier 1	187519.00	178805.50	0	0	0	0	0	0	1	7.22	mV
1343	Pier 1	187517.50	178808.00	0	0	0	0	0	0	1	72.50	mV
1344	Pier 1	187519.96	178810.67	0	0	0	0	0	0	1	19.79	mV
1345	Pier 1	187521.50	178813.50	0	0	0	0	0	0	1	21.89	mV
1346	Pier 1	187518.00	178813.50	0	0	0	0	0	0	1	14.23	mV
1347	Pier 1	187512.50	178814.00	0	0	0	0	0	0	1	137.33	mV
1348	Pier 1	187516.00	178817.00	0	0	0	0	0	0	10	13.23	mV
1349	Pier 1	187517.50	178819.50	0	0	0	0	0	0	1	19.99	mV
1350	Pier 1	187520.50	178823.50	0	0	0	0	0	0	1	441.33	mV
1351	Pier 1	187510.27	178826.29	0	0	0	0	0	0	6	6.48	mV
1352	Pier 1	187507.50	178833.50	0	0	0	0	0	0	1	7.24	mV
1353	Pier 1	187503.00	178831.00	0	0	0	0	0	0	1	12.65	mV
1354	Pier 1	187486.00	178827.00	0	0	0	0	0	0	1	18.73	mV
1355	Pier 1	187484.00	178819.00	0	0	0	0	0	0	1	18.58	mV
1356	Pier 1	187483.00	178812.50	0	0	0	0	0	0	1	42.41	mV
1357	Pier 1	187478.00	178809.50	0	0	0	0	0	0	10	63.99	mV
1358	Pier 1	187480.42	178808.49	0	0	0	0	0	0	10	16487.14	mV
1359	Pier 1	187482.76	178806.00	0	0	0	0	0	0	10	9253.46	mV
1360	Pier 1	187495.91	178810.87	0	0	0	0	0	0	10	10473.21	mV
1361	Pier 1	187498.00	178812.50	0	0	0	0	0	0	10	34.98	mV
1362	Pier 1	187500.50	178807.50	0	0	0	0	0	0	1	8.81	mV
1363	Pier 1	187500.00	178799.00	0	0	0	0	0	0	1	8.83	mV
1364	Pier 1	187501.33	178798.22	0	0	0	0	0	0	1	16.24	mV
1365	Pier 1	187497.50	178789.50	0	0	0	0	0	0	1	12.18	mV
1366	Pier 1	187496.50	178784.50	0	0	0	0	0	0	1	12.50	mV
1367	Pier 1	187495.50	178782.50	0	0	0	0	0	0	1	13.38	mV
1368	Pier 1	187494.00	178780.00	0	0	0	0	0	0	1	27.41	mV
1369	Pier 1	187496.50	178778.50	0	0	0	0	0	0	1	43.22	mV
1370	Pier 1	187498.50	178783.00	0	0	0	0	0	0	1	22.98	mV
1371	Pier 1	187499.89	178786.46	0	0	0	0	0	0	1	7.87	mV
1372	Pier 1	187502.44	178788.36	0	0	0	0	0	0	1	7.25	mV
1373	Pier 1	187505.00	178789.50	0	0	0	0	0	0	1	15.12	mV
1374	Pier 1	187506.50	178790.50	0	0	0	0	0	0	1	7.74	mV
1375	Pier 1	187511.50	178792.50	0	0	0	0	0	0	1	14.71	mV
1376	Pier 1	187514.00	178796.00	0	0	0	0	0	0	1	9.32	mV
1377	Pier 1	187514.00	178802.00	0	0	0	0	0	0	10	73.22	mV
1378	Pier 1	187517.50	178799.00	0	0	0	0	0	0	1	205.19	mV
1379	Pier 1	187522.00	178799.50	0	0	0	0	0	0	1	7.62	mV
1380	Pier 1	187520.50	178797.00	0	0	0	0	0	0	1	14.69	mV
1381	Pier 1	187515.50	178792.50	0	0	0	0	0	0	1	46.35	mV
1382	Pier 1	187509.54	178788.95	0	0	0	0	0	0	1	33.88	mV
1383	Pier 1	187509.50	178787.00	0	0	0	0	0	0	1	17.98	mV
1384	Pier 1	187510.50	178784.50	0	0	0	0	0	0	1	45.82	mV
1385	Pier 1	187514.23	178784.07	0	0	0	0	0	0	10	445.57	mV
1386	Pier 1	187511.50	178781.50	0	0	0	0	0	0	1	41.12	mV
1387	Pier 1	187509.00	178782.00	0	0	0	0	0	0	1	15.49	mV
1388	Pier 1	187505.50	178779.00	0	0	0	0	0	0	1	39.06	mV
1389	Pier 1	187510.50	178779.00	0	0	0	0	0	0	1	28.49	mV
1390	Pier 1	187509.50	178777.00	0	0	0	0	0	0	1	22.00	mV
1391	Pier 1	187509.00	178774.00	0	0	0	0	0	0	10	274.23	mV
1392	Pier 1	187504.00	178774.00	0	0	0	0	0	0	1	66.64	mV
1393	Pier 1	187504.50	178772.50	0	0	0	0	0	0	1	21.40	mV
1394	Pier 1	187503.96	178769.77	0	0	0	0	0	0	1	128.86	mV
1395	Pier 1	187503.50	178768.00	0	0	0	0	0	0	1	212.97	mV
1396	Pier 1	187505.50	178767.00	0	0	0	0	0	0	10	60.68	mV
1397	Pier 1	187502.00	178763.50	0	0	0	0	0	0	1	67.67	mV
1398	Pier 1	187500.00	178762.00	0	0	0	0	0	0	1	61.70	mV
1399	Pier 1	187499.00	178763.00	0	0	0	0	0	0	1	34.93	mV
1400	Pier 1	187499.00	178765.00	0	0	0	0	0	0	1	47.23	mV
1401	Pier 1	187495.50	178761.00	0	0	0	0	0	0	1	22.90	mV
1402	Pier 1	187497.41	178760.02	0	0	0	0	0	0	1	9.19	mV

1403	Pier 1	187500.00	178760.00	0	0	0	0	0	0	1	126.30	mV
1404	Pier 1	187499.51	178758.21	0	0	0	0	0	0	1	485.92	mV
1405	Pier 1	187497.50	178757.50	0	0	0	0	0	0	1	148.57	mV
1406	Pier 1	187493.79	178755.09	0	0	0	0	0	0	1	13.07	mV
1407	Pier 1	187495.50	178754.00	0	0	0	0	0	0	1	8.91	mV
1408	Pier 1	187493.88	178751.66	0	0	0	0	0	0	1	14.08	mV
1409	Pier 1	187495.50	178750.50	0	0	0	0	0	0	1	121.14	mV
1410	Pier 1	187495.28	178747.85	0	0	0	0	0	0	1	20.17	mV
1411	Pier 1	187492.50	178749.50	0	0	0	0	0	0	1	7.57	mV
1412	Pier 1	187492.00	178752.50	0	0	0	0	0	0	1	34.01	mV
1413	Pier 1	187489.21	178753.39	0	0	0	0	0	0	1	22.65	mV
1414	Pier 1	187486.29	178756.93	0	0	0	0	0	0	1	14.42	mV
1415	Pier 1	187497.50	178772.50	0	0	0	0	0	0	10	557.82	mV
1416	Pier 1	187484.69	178772.36	0	0	0	0	0	0	1	37.84	mV
1417	Pier 1	187484.00	178777.50	0	0	0	0	0	0	1	11.28	mV
1418	Pier 1	187479.00	178775.00	0	0	0	0	0	0	1	29.29	mV
1419	Pier 1	187477.50	178779.50	0	0	0	0	0	0	1	25.61	mV
1420	Pier 1	187479.00	178782.50	0	0	0	0	0	0	1	52.95	mV
1421	Pier 1	187481.00	178783.00	0	0	0	0	0	0	1	77.76	mV
1422	Pier 1	187481.50	178785.50	0	0	0	0	0	0	1	16.85	mV
1423	Pier 1	187484.50	178782.50	0	0	0	0	0	0	1	73.43	mV
1424	Pier 1	187485.00	178787.00	0	0	0	0	0	0	1	7.45	mV
1425	Pier 1	187486.00	178791.00	0	0	0	0	0	0	1	143.51	mV
1426	Pier 1	187490.50	178791.50	0	0	0	0	0	0	1	16.07	mV
1427	Pier 1	187486.50	178794.00	0	0	0	0	0	0	1	55.34	mV
1428	Pier 1	187485.00	178794.00	0	0	0	0	0	0	1	24.67	mV
1429	Pier 1	187477.00	178792.50	0	0	0	0	0	0	1	20.06	mV
1430	Pier 1	187475.26	178784.49	0	0	0	0	0	0	10	8029.12	mV
1431	Pier 1	187476.13	178782.66	0	0	0	0	0	0	1	470.25	mV
1432	Pier 1	187464.69	178783.20	0	0	0	0	0	0	1	9.77	mV
1433	Pier 1	187459.50	178775.50	0	0	0	0	0	0	1	81.21	mV
1434	Pier 1	187458.17	178770.50	0	0	0	0	0	0	1	35.45	mV
1435	Pier 1	187456.00	178768.50	0	0	0	0	0	0	1	77.15	mV
1436	Pier 1	187454.00	178764.50	0	0	0	0	0	0	1	72.30	mV
1437	Pier 1	187452.50	178760.50	0	0	0	0	0	0	1	38.47	mV
1438	Pier 1	187450.00	178757.00	0	0	0	0	0	0	1	119.88	mV
1439	Pier 1	187447.50	178753.00	0	0	0	0	0	0	1	11.60	mV
1440	Pier 1	187447.50	178748.00	0	0	0	0	0	0	1	430.72	mV
1441	Pier 1	187451.92	178754.17	0	0	0	0	0	0	1	11.31	mV
1442	Pier 1	187456.50	178755.50	0	0	0	0	0	0	1	11.48	mV
1443	Pier 1	187462.50	178759.50	0	0	0	0	0	0	1	8.31	mV
1444	Pier 1	187462.50	178765.50	0	0	0	0	0	0	1	84.12	mV
1445	Pier 1	187463.00	178766.50	0	0	0	0	0	0	1	64.26	mV
1446	Pier 1	187465.50	178765.00	0	0	0	0	0	0	1	13.55	mV
1447	Pier 1	187467.50	178764.50	0	0	0	0	0	0	1	14.84	mV
1448	Pier 1	187470.29	178767.72	0	0	0	0	0	0	6	6.96	mV
1449	Pier 1	187473.00	178765.50	0	0	0	0	0	0	1	61.78	mV
1450	Pier 1	187475.50	178762.00	0	0	0	0	0	0	1	15.22	mV
1451	Pier 1	187469.00	178756.00	0	0	0	0	0	0	1	72.59	mV
1452	Pier 1	187469.00	178751.50	0	0	0	0	0	0	1	2613.37	mV
1453	Pier 1	187466.50	178752.50	0	0	0	0	0	0	1	753.64	mV
1454	Pier 1	187465.00	178750.00	0	0	0	0	0	0	1	277.16	mV
1455	Pier 1	187463.50	178745.00	0	0	0	0	0	0	1	264.56	mV
1456	Pier 1	187468.45	178747.41	0	0	0	0	0	0	1	54.60	mV
1457	Pier 1	187474.00	178741.50	0	0	0	0	0	0	1	14.09	mV
1458	Pier 1	187472.50	178738.50	0	0	0	0	0	0	1	8.84	mV
1459	Pier 1	187473.00	178734.00	0	0	0	0	0	0	10	140.80	mV
1460	Pier 1	187478.50	178731.50	0	0	0	0	0	0	10	96.45	mV
1461	Pier 1	187479.50	178733.50	0	0	0	0	0	0	10	88.59	mV
1462	Pier 1	187482.89	178737.37	0	0	0	0	0	0	1	14.69	mV
1463	Pier 1	187482.50	178743.00	0	0	0	0	0	0	1	7.26	mV

1464	Pier 1	187479.50	178749.00	0	0	0	0	0	0	1	14.77	mV
1465	Pier 1	187482.00	178750.50	0	0	0	0	0	0	1	4684.79	mV
1466	Pier 1	187487.96	178749.23	0	0	0	0	0	0	1	38.33	mV
1467	Pier 1	187485.00	178747.00	0	0	0	0	0	0	1	9.07	mV
1468	Pier 1	187485.50	178744.00	0	0	0	0	0	0	1	20.84	mV
1469	Pier 1	187490.00	178743.00	0	0	0	0	0	0	1	63.70	mV
1470	Pier 1	187492.00	178741.50	0	0	0	0	0	0	1	35.41	mV
1471	Pier 1	187489.50	178739.50	0	0	0	0	0	0	1	14.93	mV
1472	Pier 1	187486.50	178739.96	0	0	0	0	0	0	1	29.82	mV
1473	Pier 1	187487.00	178737.50	0	0	0	0	0	0	1	41.85	mV
1474	Pier 1	187488.00	178735.50	0	0	0	0	0	0	10	105.89	mV
1475	Pier 1	187486.00	178732.50	0	0	0	0	0	0	10	16.19	mV
1476	Pier 1	187484.50	178729.00	0	0	0	0	0	0	1	19.51	mV
1477	Pier 1	187483.00	178726.50	0	0	0	0	0	0	1	91.81	mV
1478	Pier 1	187477.00	178724.50	0	0	0	0	0	0	1	7.49	mV
1479	Pier 1	187481.50	178721.00	0	0	0	0	0	0	1	19.97	mV
1480	Pier 1	187479.00	178720.00	0	0	0	0	0	0	1	109.14	mV
1481	Pier 1	187474.50	178716.00	0	0	0	0	0	0	1	8.37	mV
1482	Pier 1	187476.50	178710.50	0	0	0	0	0	0	10	20.56	mV
1483	Pier 1	187473.00	178714.50	0	0	0	0	0	0	1	15.96	mV
1484	Pier 1	187470.50	178716.00	0	0	0	0	0	0	1	83.75	mV
1485	Pier 1	187469.00	178716.50	0	0	0	0	0	0	1	86.94	mV
1486	Pier 1	187469.00	178712.00	0	0	0	0	0	0	1	280.55	mV
1487	Pier 1	187467.00	178708.00	0	0	0	0	0	0	1	184.40	mV
1488	Pier 1	187468.50	178706.00	0	0	0	0	0	0	1	111.54	mV
1489	Pier 1	187472.00	178707.00	0	0	0	0	0	0	1	138.15	mV
1490	Pier 1	187473.50	178705.50	0	0	0	0	0	0	1	46.46	mV
1491	Pier 1	187472.00	178702.00	0	0	0	0	0	0	1	46.94	mV
1492	Pier 1	187469.00	178702.00	0	0	0	0	0	0	1	54.28	mV
1493	Pier 1	187463.50	178703.50	0	0	0	0	0	0	1	58.65	mV
1494	Pier 1	187461.46	178702.49	0	0	0	0	0	0	1	9.94	mV
1495	Pier 1	187458.00	178707.50	0	0	0	0	0	0	1	92.49	mV
1496	Pier 1	187455.50	178702.50	0	0	0	0	0	0	1	73.83	mV
1497	Pier 1	187455.00	178700.50	0	0	0	0	0	0	1	28.95	mV
1498	Pier 1	187457.50	178698.00	0	0	0	0	0	0	1	54.95	mV
1499	Pier 1	187459.00	178697.50	0	0	0	0	0	0	1	93.29	mV
1500	Pier 1	187460.00	178696.00	0	0	0	0	0	0	1	133.03	mV
1501	Pier 1	187454.50	178695.00	0	0	0	0	0	0	1	10.08	mV
1502	Pier 1	187449.30	178695.17	0	0	0	0	0	0	1	53.38	mV
1503	Pier 1	187447.50	178691.00	0	0	0	0	0	0	1	24.95	mV
1504	Pier 1	187450.50	178689.00	0	0	0	0	0	0	1	19.78	mV
1505	Pier 1	187452.50	178686.50	0	0	0	0	0	0	1	17.50	mV
1506	Pier 1	187454.00	178689.00	0	0	0	0	0	0	1	173.51	mV
1507	Pier 1	187456.00	178686.00	0	0	0	0	0	0	1	149.98	mV
1508	Pier 1	187458.00	178689.50	0	0	0	0	0	0	1	57.22	mV
1509	Pier 1	187456.00	178691.50	0	0	0	0	0	0	1	16.52	mV
1510	Pier 1	187459.24	178692.76	0	0	0	0	0	0	1	26.97	mV
1511	Pier 1	187463.00	178695.00	0	0	0	0	0	0	1	54.02	mV
1512	Pier 1	187465.00	178698.50	0	0	0	0	0	0	1	79.52	mV
1513	Pier 1	187466.50	178699.00	0	0	0	0	0	0	1	72.52	mV
1514	Pier 1	187469.50	178699.00	0	0	0	0	0	0	1	39.44	mV
1515	Pier 1	187468.53	178695.57	0	0	0	0	0	0	10	63.37	mV
1516	Pier 1	187467.00	178692.00	0	0	0	0	0	0	1	193.64	mV
1517	Pier 1	187463.50	178691.00	0	0	0	0	0	0	1	151.03	mV
1518	Pier 1	187464.50	178689.00	0	0	0	0	0	0	1	57.73	mV
1519	Pier 1	187464.00	178685.50	0	0	0	0	0	0	10	135.84	mV
1520	Pier 1	187462.00	178682.00	0	0	0	0	0	0	10	122.19	mV
1521	Pier 1	187460.00	178684.50	0	0	0	0	0	0	10	720.49	mV
1522	Pier 1	187457.50	178681.50	0	0	0	0	0	0	1	296.64	mV
1523	Pier 1	187456.03	178681.49	0	0	0	0	0	0	1	22.04	mV
1524	Pier 1	187452.77	178680.81	0	0	0	0	0	0	1	32.86	mV

1525	Pier 1	187451.50	178682.50	0	0	0	0	0	0	1	23.20	mV
1526	Pier 1	187449.50	178679.00	0	0	0	0	0	0	1	24.58	mV
1527	Pier 1	187450.00	178675.50	0	0	0	0	0	0	1	52.76	mV
1528	Pier 1	187449.00	178672.50	0	0	0	0	0	0	1	69.54	mV
1529	Pier 1	187446.00	178672.50	0	0	0	0	0	0	1	26.82	mV
1530	Pier 1	187444.00	178672.50	0	0	0	0	0	0	1	20.57	mV
1531	Pier 1	187443.00	178678.00	0	0	0	0	0	0	1	16.22	mV
1532	Pier 1	187439.40	178675.38	0	0	0	0	0	0	1	29.41	mV
1533	Pier 1	187437.00	178669.00	0	0	0	0	0	0	1	75.14	mV
1534	Pier 1	187446.50	178667.50	0	0	0	0	0	0	1	385.74	mV
1535	Pier 1	187450.50	178665.50	0	0	0	0	0	0	9	425.11	mV
1536	Pier 1	187446.50	178664.50	0	0	0	0	0	0	1	39.33	mV
1537	Pier 1	187441.00	178656.00	0	0	0	0	0	0	10	4313.63	mV
1538	Pier 1	187438.82	178656.57	0	0	0	0	0	0	10	234.67	mV
1539	Pier 1	187431.33	178658.72	0	0	0	0	0	0	1	18.46	mV
1540	Pier 1	187429.50	178659.00	0	0	0	0	0	0	1	7.98	mV
1541	Pier 1	187425.50	178660.50	0	0	0	0	0	0	1	37.62	mV
1542	Pier 1	187426.00	178672.00	0	0	0	0	0	0	1	67.76	mV
1543	Pier 1	187429.81	178673.04	0	0	0	0	0	0	1	17.16	mV
1544	Pier 1	187427.00	178676.00	0	0	0	0	0	0	10	705.85	mV
1545	Pier 1	187432.01	178680.64	0	0	0	0	0	0	1	119.68	mV
1546	Pier 1	187432.50	178684.50	0	0	0	0	0	0	1	524.61	mV
1547	Pier 1	187439.00	178687.50	0	0	0	0	0	0	1	7.77	mV
1548	Pier 1	187441.00	178692.50	0	0	0	0	0	0	1	194.26	mV
1549	Pier 1	187440.00	178692.00	0	0	0	0	0	0	1	185.55	mV
1550	Pier 1	187437.50	178691.50	0	0	0	0	0	0	10	235.59	mV
1551	Pier 1	187435.00	178691.00	0	0	0	0	0	0	10	50.71	mV
1552	Pier 1	187434.50	178695.50	0	0	0	0	0	0	1	485.92	mV
1553	Pier 1	187437.50	178694.50	0	0	0	0	0	0	10	52.00	mV
1554	Pier 1	187440.00	178699.00	0	0	0	0	0	0	1	248.02	mV
1555	Pier 1	187441.08	178701.84	0	0	0	0	0	0	1	33.89	mV
1556	Pier 1	187445.00	178708.50	0	0	0	0	0	0	1	9.28	mV
1557	Pier 1	187449.50	178710.50	0	0	0	0	0	0	1	22.35	mV
1558	Pier 1	187446.71	178710.81	0	0	0	0	0	0	1	59.60	mV
1559	Pier 1	187444.46	178713.20	0	0	0	0	0	0	1	32.52	mV
1560	Pier 1	187447.50	178713.50	0	0	0	0	0	0	1	319.81	mV
1561	Pier 1	187452.00	178719.50	0	0	0	0	0	0	1	12.02	mV
1562	Pier 1	187461.00	178713.50	0	0	0	0	0	0	1	39.83	mV
1563	Pier 1	187464.50	178718.00	0	0	0	0	0	0	1	11.03	mV
1564	Pier 1	187467.50	178720.50	0	0	0	0	0	0	1	32.09	mV
1565	Pier 1	187470.50	178720.00	0	0	0	0	0	0	1	81.10	mV
1566	Pier 1	187471.84	178722.97	0	0	0	0	0	0	1	48.44	mV
1567	Pier 1	187471.00	178728.00	0	0	0	0	0	0	1	11.16	mV
1568	Pier 1	187468.50	178728.00	0	0	0	0	0	0	1	15.82	mV
1569	Pier 1	187467.50	178729.50	0	0	0	0	0	0	1	17.05	mV
1570	Pier 1	187464.50	178729.00	0	0	0	0	0	0	1	10.75	mV
1571	Pier 1	187455.71	178729.66	0	0	0	0	0	0	10	13.01	mV
1572	Pier 1	187454.50	178736.50	0	0	0	0	0	0	10	2129.32	mV
1573	Pier 1	187449.09	178728.26	0	0	0	0	0	0	1	42.03	mV
1574	Pier 1	187448.04	178733.23	0	0	0	0	0	0	1	8.54	mV
1575	Pier 1	187444.00	178734.00	0	0	0	0	0	0	1	7.02	mV
1576	Pier 1	187442.00	178737.00	0	0	0	0	0	0	1	20.82	mV
1577	Pier 1	187435.00	178728.00	0	0	0	0	0	0	1	150.55	mV
1578	Pier 1	187436.50	178720.50	0	0	0	0	0	0	1	12.62	mV
1579	Pier 1	187435.50	178716.00	0	0	0	0	0	0	1	11.54	mV
1580	Pier 1	187431.50	178721.00	0	0	0	0	0	0	1	23.54	mV
1581	Pier 1	187430.00	178718.00	0	0	0	0	0	0	1	28.44	mV
1582	Pier 1	187431.00	178715.50	0	0	0	0	0	0	1	10.05	mV
1583	Pier 1	187429.50	178715.00	0	0	0	0	0	0	1	12.27	mV
1584	Pier 1	187433.47	178706.73	0	0	0	0	0	0	1	30.15	mV
1585	Pier 1	187425.50	178709.50	0	0	0	0	0	0	1	46.87	mV

1586	Pier 1	187424.36	178706.83	0	0	0	0	0	0	1	12.75	mV
1587	Pier 1	187424.75	178702.65	0	0	0	0	0	0	1	41.12	mV
1588	Pier 1	187421.50	178699.50	0	0	0	0	0	0	1	21.97	mV
1589	Pier 1	187420.50	178690.50	0	0	0	0	0	0	1	14.70	mV
1590	Pier 1	187418.50	178689.50	0	0	0	0	0	0	1	10.42	mV
1591	Pier 1	187415.00	178688.50	0	0	0	0	0	0	10	16781.22	mV
1592	Pier 1	187417.50	178684.00	0	0	0	0	0	0	1	140.53	mV
1593	Pier 1	187412.00	178681.50	0	0	0	0	0	0	10	13627.06	mV
1594	Pier 1	187410.46	178679.14	0	0	0	0	0	0	10	404.94	mV
1595	Pier 1	187412.00	178677.00	0	0	0	0	0	0	1	14.27	mV
1596	Pier 1	187413.00	178676.00	0	0	0	0	0	0	1	16.71	mV
1597	Pier 1	187408.50	178671.00	0	0	0	0	0	0	1	9.37	mV
1598	Pier 1	187405.50	178667.00	0	0	0	0	0	0	1	47.88	mV
1599	Pier 1	187402.00	178663.00	0	0	0	0	0	0	1	304.18	mV
1600	Pier 1	187407.00	178659.00	0	0	0	0	0	0	1	26.41	mV
1601	Pier 1	187403.50	178656.00	0	0	0	0	0	0	1	49.89	mV
1602	Pier 1	187400.00	178655.50	0	0	0	0	0	0	1	9.90	mV
1603	Pier 1	187402.00	178649.00	0	0	0	0	0	0	1	14.51	mV
1604	Pier 1	187394.50	178648.00	0	0	0	0	0	0	1	8.73	mV
1605	Pier 1	187394.00	178638.50	0	0	0	0	0	0	1	21.17	mV
1606	Pier 1	187390.00	178640.50	0	0	0	0	0	0	1	9.52	mV
1607	Pier 1	187388.50	178636.50	0	0	0	0	0	0	1	7.71	mV
1608	Pier 1	187386.00	178632.00	0	0	0	0	0	0	1	8.21	mV
1609	Pier 1	187389.00	178629.50	0	0	0	0	0	0	1	7.72	mV
1610	Pier 1	187384.00	178627.50	0	0	0	0	0	0	10	186.79	mV
1611	Pier 1	187376.80	178612.35	0	0	0	0	0	0	1	8.98	mV
1612	Pier 1	187380.50	178612.50	0	0	0	0	0	0	1	16.02	mV
1613	Pier 1	187382.68	178609.58	0	0	0	0	0	0	1	11.64	mV
1614	Pier 1	187384.50	178606.00	0	0	0	0	0	0	1	9.96	mV
1615	Pier 1	187388.32	178607.89	0	0	0	0	0	0	1	10.05	mV
1616	Pier 1	187390.50	178605.50	0	0	0	0	0	0	1	29.94	mV
1617	Pier 1	187394.50	178607.50	0	0	0	0	0	0	1	9.74	mV
1618	Pier 1	187394.50	178612.50	0	0	0	0	0	0	1	65.77	mV
1619	Pier 1	187396.00	178616.00	0	0	0	0	0	0	1	938.21	mV
1620	Pier 1	187398.50	178615.50	0	0	0	0	0	0	1	19.89	mV
1621	Pier 1	187404.00	178624.00	0	0	0	0	0	0	1	29.67	mV
1622	Pier 1	187402.00	178625.50	0	0	0	0	0	0	1	81.31	mV
1623	Pier 1	187405.50	178630.50	0	0	0	0	0	0	1	54.32	mV
1624	Pier 1	187408.00	178631.50	0	0	0	0	0	0	1	54.65	mV
1625	Pier 1	187405.00	178631.50	0	0	0	0	0	0	1	56.36	mV
1626	Pier 1	187401.00	178635.50	0	0	0	0	0	0	1	5504.25	mV
1627	Pier 1	187404.00	178636.00	0	0	0	0	0	0	1	792.80	mV
1628	Pier 1	187408.00	178635.00	0	0	0	0	0	0	1	275.24	mV
1629	Pier 1	187408.50	178638.50	0	0	0	0	0	0	1	52.41	mV
1630	Pier 1	187413.15	178638.48	0	0	0	0	0	0	1	8.09	mV
1631	Pier 1	187416.50	178643.00	0	0	0	0	0	0	1	17.81	mV
1632	Pier 1	187411.00	178643.50	0	0	0	0	0	0	1	640.35	mV
1633	Pier 1	187412.73	178646.15	0	0	0	0	0	0	1	81.93	mV
1634	Pier 1	187414.00	178649.00	0	0	0	0	0	0	1	264.56	mV
1635	Pier 1	187411.50	178655.50	0	0	0	0	0	0	1	113.40	mV
1636	Pier 1	187416.00	178657.50	0	0	0	0	0	0	1	10.37	mV
1637	Pier 1	187417.50	178653.00	0	0	0	0	0	0	1	15.61	mV
1638	Pier 1	187420.00	178649.50	0	0	0	0	0	0	1	11.52	mV
1639	Pier 1	187421.73	178649.85	0	0	0	0	0	0	1	24.50	mV
1640	Pier 1	187427.50	178650.00	0	0	0	0	0	0	1	51.20	mV
1641	Pier 1	187429.09	178646.34	0	0	0	0	0	0	1	17.21	mV
1642	Pier 1	187433.50	178651.50	0	0	0	0	0	0	1	23.43	mV
1643	Pier 1	187434.00	178648.00	0	0	0	0	0	0	1	459.88	mV
1644	Pier 1	187434.00	178642.50	0	0	0	0	0	0	1	39.47	mV
1645	Pier 1	187431.00	178638.50	0	0	0	0	0	0	10	115.56	mV
1646	Pier 1	187422.50	178638.00	0	0	0	0	0	0	1	239.79	mV

1647	Pier 1	187420.00	178631.50	0	0	0	0	0	0	1	10.92	mV
1648	Pier 1	187421.87	178629.75	0	0	0	0	0	0	1	8.89	mV
1649	Pier 1	187423.00	178627.50	0	0	0	0	0	0	1	11.31	mV
1650	Pier 1	187422.08	178625.00	0	0	0	0	0	0	1	17.69	mV
1651	Pier 1	187426.00	178624.00	0	0	0	0	0	0	9	178.75	mV
1652	Pier 1	187422.73	178622.75	0	0	0	0	0	0	1	63.38	mV
1653	Pier 1	187417.00	178622.50	0	0	0	0	0	0	1	10.14	mV
1654	Pier 1	187414.00	178625.50	0	0	0	0	0	0	1	32.93	mV
1655	Pier 1	187412.50	178626.00	0	0	0	0	0	0	1	32.91	mV
1656	Pier 1	187409.00	178618.00	0	0	0	0	0	0	1	14.53	mV
1657	Pier 1	187416.50	178614.50	0	0	0	0	0	0	1	7.78	mV
1658	Pier 1	187418.50	178613.00	0	0	0	0	0	0	1	192.14	mV
1659	Pier 1	187414.69	178612.57	0	0	0	0	0	0	1	7.75	mV
1660	Pier 1	187415.33	178610.02	0	0	0	0	0	0	1	10.66	mV
1661	Pier 1	187413.58	178606.53	0	0	0	0	0	0	1	49.58	mV
1662	Pier 1	187418.00	178602.50	0	0	0	0	0	0	9	106.93	mV
1663	Pier 1	187413.00	178600.00	0	0	0	0	0	0	9	26.17	mV
1664	Pier 1	187409.50	178597.00	0	0	0	0	0	0	10	38.11	mV
1665	Pier 1	187407.00	178592.00	0	0	0	0	0	0	1	127.58	mV
1666	Pier 1	187403.50	178591.50	0	0	0	0	0	0	1	12.27	mV
1667	Pier 1	187402.00	178587.00	0	0	0	0	0	0	1	1151.88	mV
1668	Pier 1	187397.00	178583.00	0	0	0	0	0	0	1	14.35	mV
1669	Pier 1	187391.53	178587.85	0	0	0	0	0	0	6	6.52	mV
1670	Pier 1	187397.00	178590.50	0	0	0	0	0	0	1	17.36	mV
1671	Pier 1	187394.00	178592.50	0	0	0	0	0	0	1	12.75	mV
1672	Pier 1	187391.00	178594.50	0	0	0	0	0	0	1	10.48	mV
1673	Pier 1	187389.18	178599.83	0	0	0	0	0	0	1	7.24	mV
1674	Pier 1	187381.99	178598.05	0	0	0	0	0	0	1	8.00	mV
1675	Pier 1	187374.00	178592.50	0	0	0	0	0	0	1	74.73	mV
1676	Pier 1	187373.00	178596.50	0	0	0	0	0	0	1	10.51	mV
1677	Pier 1	187372.00	178599.50	0	0	0	0	0	0	1	8.27	mV
1678	Pier 1	187367.50	178595.50	0	0	0	0	0	0	1	26.07	mV
1679	Pier 1	187366.00	178593.00	0	0	0	0	0	0	1	73.02	mV
1680	Pier 1	187365.00	178590.77	0	0	0	0	0	0	1	27.92	mV
1681	Pier 1	187364.00	178587.00	0	0	0	0	0	0	1	15.53	mV
1682	Pier 1	187363.50	178585.50	0	0	0	0	0	0	1	8.79	mV
1683	Pier 1	187368.00	178587.00	0	0	0	0	0	0	7	7.06	mV
1684	Pier 1	187372.07	178581.21	0	0	0	0	0	0	1	344.33	mV
1685	Pier 1	187370.71	178578.93	0	0	0	0	0	0	1	311.21	mV
1686	Pier 1	187373.50	178578.50	0	0	0	0	0	0	1	29.74	mV
1687	Pier 1	187374.50	178582.00	0	0	0	0	0	0	1	338.84	mV
1688	Pier 1	187374.00	178585.50	0	0	0	0	0	0	1	78.20	mV
1689	Pier 1	187375.00	178585.50	0	0	0	0	0	0	1	21.23	mV
1690	Pier 1	187381.50	178588.00	0	0	0	0	0	0	1	364.16	mV
1691	Pier 1	187382.00	178584.00	0	0	0	0	0	0	1	12.09	mV
1692	Pier 1	187387.50	178582.50	0	0	0	0	0	0	1	70.59	mV
1693	Pier 1	187388.50	178580.50	0	0	0	0	0	0	1	172.85	mV
1694	Pier 1	187390.50	178579.00	0	0	0	0	0	0	1	215.95	mV
1695	Pier 1	187391.50	178575.50	0	0	0	0	0	0	1	16.01	mV
1696	Pier 1	187399.50	178575.50	0	0	0	0	0	0	9	222.37	mV
1697	Pier 1	187391.00	178564.00	0	0	0	0	0	0	3	11.78	mV
1698	Pier 1	187390.35	178566.30	0	0	0	0	0	0	1	40.49	mV
1699	Pier 1	187384.83	178566.94	0	0	0	0	0	0	6	6.58	mV
1700	Pier 1	187384.00	178563.00	0	0	0	0	0	0	10	22.50	mV
1701	Pier 1	187385.55	178562.55	0	0	0	0	0	0	1	9.48	mV
1702	Pier 1	187389.00	178556.00	0	0	0	0	0	0	9	257.36	mV
1703	Pier 1	187387.44	178553.84	0	0	0	0	0	0	9	4677.41	mV
1704	Pier 1	187384.50	178555.50	0	0	0	0	0	0	1	9150.49	mV
1705	Pier 1	187381.00	178558.00	0	0	0	0	0	0	1	53.15	mV
1706	Pier 1	187379.50	178561.50	0	0	0	0	0	0	1	8.71	mV
1707	Pier 1	187377.00	178559.00	0	0	0	0	0	0	1	196.28	mV

1708	Pier 1	187374.00	178559.50	0	0	0	0	0	0	1	20.14	mV
1709	Pier 1	187373.41	178568.22	0	0	0	0	0	0	3	268.23	mV
1710	Pier 1	187371.50	178571.00	0	0	0	0	0	0	10	9335.18	mV
1711	Pier 1	187367.56	178570.49	0	0	0	0	0	0	10	149.48	mV
1712	Pier 1	187367.50	178568.50	0	0	0	0	0	0	1	33.05	mV
1713	Pier 1	187363.00	178567.00	0	0	0	0	0	0	1	940.76	mV
1714	Pier 1	187361.00	178573.00	0	0	0	0	0	0	1	14.04	mV
1715	Pier 1	187357.51	178570.23	0	0	0	0	0	0	10	2314.95	mV
1716	Pier 1	187355.00	178569.50	0	0	0	0	0	0	10	7220.60	mV
1717	Pier 1	187350.00	178562.50	0	0	0	0	0	0	1	509.58	mV
1718	Pier 1	187350.50	178557.50	0	0	0	0	0	0	3	967.27	mV
1719	Pier 1	187352.50	178559.50	0	0	0	0	0	0	1	164.84	mV
1720	Pier 1	187358.50	178559.00	0	0	0	0	0	0	1	13.49	mV
1721	Pier 1	187355.09	178554.42	0	0	0	0	0	0	3	10735.98	mV
1722	Pier 1	187353.00	178555.50	0	0	0	0	0	0	3	8989.93	mV
1723	Pier 1	187351.00	178552.00	0	0	0	0	0	0	3	118.64	mV
1724	Pier 1	187341.00	178549.00	0	0	0	0	0	0	1	13.94	mV
1725	Pier 1	187340.00	178545.50	0	0	0	0	0	0	1	15.12	mV
1726	Pier 1	187342.00	178545.50	0	0	0	0	0	0	1	16.66	mV
1727	Pier 1	187343.71	178545.43	0	0	0	0	0	0	1	22.79	mV
1728	Pier 1	187341.00	178542.00	0	0	0	0	0	0	1	55.86	mV
1729	Pier 1	187341.00	178537.50	0	0	0	0	0	0	7	11.82	mV
1730	Pier 1	187339.49	178535.24	0	0	0	0	0	0	1	10.23	mV
1731	Pier 1	187338.00	178535.50	0	0	0	0	0	0	7	7.80	mV
1732	Pier 1	187337.00	178534.00	0	0	0	0	0	0	7	7.36	mV
1733	Pier 1	187339.00	178530.50	0	0	0	0	0	0	1	18.60	mV
1734	Pier 1	187355.28	178374.82	187373.5	178378.6	187413.9	178460.8	187401.9	178462.7	8	999.00	mV
1735	Pier 1	187383.83	178551.44	187455.4	178680	187463.8	178677.4	187392	178544.2	8	999.00	mV
1736	Pier 1	187611.98	179015.11	187632.4	179006.8	187638.5	179050.6	187620	179045.8	8	999.00	mV

NWS Earle  
Pier 2 Master Target List

ID	GRIDCELLID	X1	Y1	X2	Y2	X3	Y3	X4	Y4	TYPE	AMPLITUDE	UNITS
1	Pier 2	188094.00	179833.50	0	0	0	0	0	0	1	7.97	mV
2	Pier 2	188096.50	179832.50	0	0	0	0	0	0	1	1295.63	mV
3	Pier 2	188102.49	179831.76	0	0	0	0	0	0	1	47.32	mV
4	Pier 2	188109.35	179830.12	0	0	0	0	0	0	1	7.24	mV
5	Pier 2	188112.50	179825.00	0	0	0	0	0	0	1	11.06	mV
6	Pier 2	188119.50	179827.00	0	0	0	0	0	0	10	106.33	mV
7	Pier 2	188122.35	179823.88	0	0	0	0	0	0	10	51.35	mV
8	Pier 2	188122.17	179834.08	0	0	0	0	0	0	6	6.41	mV
9	Pier 2	188122.00	179839.00	0	0	0	0	0	0	1	1397.64	mV
10	Pier 2	188124.97	179847.03	0	0	0	0	0	0	7	7.33	mV
11	Pier 2	188127.32	179844.51	0	0	0	0	0	0	1	17.66	mV
12	Pier 2	188131.00	179844.50	0	0	0	0	0	0	1	79.29	mV
13	Pier 2	188135.72	179834.34	0	0	0	0	0	0	1	38.99	mV
14	Pier 2	188131.50	179829.50	0	0	0	0	0	0	1	19.74	mV
15	Pier 2	188139.00	179831.50	0	0	0	0	0	0	1	7.61	mV
16	Pier 2	188140.50	179829.50	0	0	0	0	0	0	1	30.09	mV
17	Pier 2	188142.00	179830.50	0	0	0	0	0	0	7	7.26	mV
18	Pier 2	188142.50	179838.00	0	0	0	0	0	0	10	10.81	mV
19	Pier 2	188144.50	179838.00	0	0	0	0	0	0	1	24.19	mV
20	Pier 2	188149.50	179838.00	0	0	0	0	0	0	1	1532.13	mV
21	Pier 2	188147.50	179830.00	0	0	0	0	0	0	1	342.16	mV
22	Pier 2	188150.50	179829.00	0	0	0	0	0	0	1	7.43	mV
23	Pier 2	188154.00	179824.00	0	0	0	0	0	0	1	22.55	mV
24	Pier 2	188155.12	179820.16	0	0	0	0	0	0	1	38.22	mV
25	Pier 2	188156.50	179818.00	0	0	0	0	0	0	1	90.38	mV
26	Pier 2	188154.09	179816.04	0	0	0	0	0	0	1	37.17	mV
27	Pier 2	188151.05	179817.58	0	0	0	0	0	0	1	192.43	mV
28	Pier 2	188145.00	179821.50	0	0	0	0	0	0	1	10.97	mV
29	Pier 2	188140.00	179823.00	0	0	0	0	0	0	1	7.81	mV
30	Pier 2	188136.76	179816.50	0	0	0	0	0	0	7	7.90	mV
31	Pier 2	188142.00	179820.00	0	0	0	0	0	0	1	81.28	mV
32	Pier 2	188143.50	179819.00	0	0	0	0	0	0	1	18.02	mV
33	Pier 2	188146.32	179818.30	0	0	0	0	0	0	1	9.85	mV
34	Pier 2	188148.00	179814.50	0	0	0	0	0	0	1	8.24	mV
35	Pier 2	188148.31	179809.60	0	0	0	0	0	0	1	131.09	mV
36	Pier 2	188149.71	179806.08	0	0	0	0	0	0	1	12.03	mV
37	Pier 2	188155.83	179807.26	0	0	0	0	0	0	1	260.07	mV
38	Pier 2	188156.00	179810.50	0	0	0	0	0	0	1	39.00	mV
39	Pier 2	188154.03	179813.24	0	0	0	0	0	0	1	25.45	mV
40	Pier 2	188156.50	179813.00	0	0	0	0	0	0	1	127.27	mV
41	Pier 2	188160.03	179811.65	0	0	0	0	0	0	1	16808.63	mV
42	Pier 2	188163.59	179815.52	0	0	0	0	0	0	1	108.78	mV
43	Pier 2	188161.87	179818.44	0	0	0	0	0	0	1	46.31	mV
44	Pier 2	188159.29	179821.14	0	0	0	0	0	0	1	4014.63	mV
45	Pier 2	188159.81	179827.16	0	0	0	0	0	0	1	910.36	mV
46	Pier 2	188161.17	179824.54	0	0	0	0	0	0	1	53.89	mV
47	Pier 2	188162.74	179823.28	0	0	0	0	0	0	1	115.76	mV
48	Pier 2	188164.57	179821.22	0	0	0	0	0	0	1	13725.50	mV
49	Pier 2	188167.00	179825.00	0	0	0	0	0	0	1	593.11	mV
50	Pier 2	188167.64	179828.75	0	0	0	0	0	0	1	10669.76	mV
51	Pier 2	188164.50	179829.50	0	0	0	0	0	0	1	116.49	mV
52	Pier 2	188165.50	179832.50	0	0	0	0	0	0	1	92.66	mV
53	Pier 2	188162.49	179833.87	0	0	0	0	0	0	1	67.50	mV
54	Pier 2	188161.62	179832.52	0	0	0	0	0	0	1	76.61	mV
55	Pier 2	188159.73	179832.79	0	0	0	0	0	0	1	891.28	mV
56	Pier 2	188157.48	179832.59	0	0	0	0	0	0	1	47.61	mV
57	Pier 2	188155.50	179831.50	0	0	0	0	0	0	1	2360.00	mV
58	Pier 2	188153.10	179833.05	0	0	0	0	0	0	1	170.40	mV
59	Pier 2	188156.50	179835.00	0	0	0	0	0	0	1	971.09	mV
60	Pier 2	188157.00	179838.50	0	0	0	0	0	0	1	21.91	mV

61	Pier 2	188154.82	179840.01	0	0	0	0	0	0	1	329.82	mV
62	Pier 2	188153.33	179843.02	0	0	0	0	0	0	1	16.86	mV
63	Pier 2	188154.97	179844.33	0	0	0	0	0	0	7	9.43	mV
64	Pier 2	188156.00	179844.50	0	0	0	0	0	0	1	20.48	mV
65	Pier 2	188158.00	179843.00	0	0	0	0	0	0	1	19.17	mV
66	Pier 2	188160.00	179844.00	0	0	0	0	0	0	1	28.98	mV
67	Pier 2	188162.94	179844.05	0	0	0	0	0	0	1	53.21	mV
68	Pier 2	188164.00	179847.50	0	0	0	0	0	0	1	93.34	mV
69	Pier 2	188165.50	179846.50	0	0	0	0	0	0	1	10.48	mV
70	Pier 2	188166.09	179843.60	0	0	0	0	0	0	1	1166.53	mV
71	Pier 2	188164.54	179840.88	0	0	0	0	0	0	1	16.13	mV
72	Pier 2	188162.49	179841.03	0	0	0	0	0	0	1	20.63	mV
73	Pier 2	188162.76	179837.42	0	0	0	0	0	0	1	3776.27	mV
74	Pier 2	188168.08	179835.62	0	0	0	0	0	0	1	678.91	mV
75	Pier 2	188169.29	179832.20	0	0	0	0	0	0	1	3321.80	mV
76	Pier 2	188171.65	179835.23	0	0	0	0	0	0	1	586.06	mV
77	Pier 2	188171.00	179839.00	0	0	0	0	0	0	1	270.27	mV
78	Pier 2	188173.00	179840.50	0	0	0	0	0	0	1	162.75	mV
79	Pier 2	188170.14	179842.85	0	0	0	0	0	0	7	7.03	mV
80	Pier 2	188174.50	179845.00	0	0	0	0	0	0	1	1052.77	mV
81	Pier 2	188176.48	179847.45	0	0	0	0	0	0	1	45.91	mV
82	Pier 2	188178.74	179845.98	0	0	0	0	0	0	1	258.98	mV
83	Pier 2	188180.45	179850.23	0	0	0	0	0	0	1	538.52	mV
84	Pier 2	188182.91	179855.07	0	0	0	0	0	0	1	2383.01	mV
85	Pier 2	188179.00	179856.50	0	0	0	0	0	0	1	7047.32	mV
86	Pier 2	188176.38	179858.56	0	0	0	0	0	0	1	5090.45	mV
87	Pier 2	188174.50	179855.50	0	0	0	0	0	0	1	1172.31	mV
88	Pier 2	188178.31	179853.35	0	0	0	0	0	0	1	594.61	mV
89	Pier 2	188176.83	179849.89	0	0	0	0	0	0	1	78.73	mV
90	Pier 2	188173.14	179849.30	0	0	0	0	0	0	7	7.25	mV
91	Pier 2	188172.00	179847.50	0	0	0	0	0	0	1	13.89	mV
92	Pier 2	188170.07	179846.84	0	0	0	0	0	0	1	28.08	mV
93	Pier 2	188168.04	179848.28	0	0	0	0	0	0	7	7.62	mV
94	Pier 2	188168.50	179850.00	0	0	0	0	0	0	1	15.66	mV
95	Pier 2	188166.50	179850.00	0	0	0	0	0	0	1	10.70	mV
96	Pier 2	188164.48	179852.24	0	0	0	0	0	0	7	8.14	mV
97	Pier 2	188164.12	179850.54	0	0	0	0	0	0	7	8.70	mV
98	Pier 2	188162.00	179848.50	0	0	0	0	0	0	1	36.05	mV
99	Pier 2	188159.27	179850.99	0	0	0	0	0	0	7	7.96	mV
100	Pier 2	188153.50	179850.00	0	0	0	0	0	0	1	164.84	mV
101	Pier 2	188152.00	179851.00	0	0	0	0	0	0	1	100.08	mV
102	Pier 2	188151.50	179847.50	0	0	0	0	0	0	7	7.29	mV
103	Pier 2	188151.00	179846.00	0	0	0	0	0	0	7	8.16	mV
104	Pier 2	188148.04	179849.29	0	0	0	0	0	0	1	782.92	mV
105	Pier 2	188145.29	179852.11	0	0	0	0	0	0	1	6.98	mV
106	Pier 2	188148.50	179856.00	0	0	0	0	0	0	1	127.40	mV
107	Pier 2	188155.50	179859.50	0	0	0	0	0	0	1	431.65	mV
108	Pier 2	188158.00	179858.00	0	0	0	0	0	0	1	1505.90	mV
109	Pier 2	188158.50	179868.50	0	0	0	0	0	0	1	206.80	mV
110	Pier 2	188162.57	179865.59	0	0	0	0	0	0	1	208.21	mV
111	Pier 2	188166.50	179864.00	0	0	0	0	0	0	1	47.95	mV
112	Pier 2	188168.54	179870.44	0	0	0	0	0	0	7	8.54	mV
113	Pier 2	188169.60	179870.37	0	0	0	0	0	0	7	9.74	mV
114	Pier 2	188173.02	179869.29	0	0	0	0	0	0	7	7.80	mV
115	Pier 2	188173.50	179868.00	0	0	0	0	0	0	1	10.63	mV
116	Pier 2	188173.71	179865.40	0	0	0	0	0	0	1	11.49	mV
117	Pier 2	188173.00	179862.50	0	0	0	0	0	0	1	7.46	mV
118	Pier 2	188171.86	179860.22	0	0	0	0	0	0	7	6.96	mV
119	Pier 2	188174.60	179860.14	0	0	0	0	0	0	1	119.50	mV
120	Pier 2	188176.50	179863.50	0	0	0	0	0	0	1	45.41	mV
121	Pier 2	188178.00	179862.00	0	0	0	0	0	0	1	27.14	mV

122	Pier 2	188180.50	179861.00	0	0	0	0	0	0	1	127.19	mV
123	Pier 2	188183.76	179860.17	0	0	0	0	0	0	1	62.81	mV
124	Pier 2	188186.59	179860.47	0	0	0	0	0	0	1	46.82	mV
125	Pier 2	188185.28	179862.44	0	0	0	0	0	0	1	82.27	mV
126	Pier 2	188183.32	179864.18	0	0	0	0	0	0	1	175.56	mV
127	Pier 2	188185.10	179864.77	0	0	0	0	0	0	1	66.53	mV
128	Pier 2	188186.10	179865.19	0	0	0	0	0	0	1	53.53	mV
129	Pier 2	188188.25	179864.57	0	0	0	0	0	0	1	15.06	mV
130	Pier 2	188188.79	179868.14	0	0	0	0	0	0	1	786.75	mV
131	Pier 2	188186.21	179868.35	0	0	0	0	0	0	1	31.56	mV
132	Pier 2	188182.00	179868.50	0	0	0	0	0	0	1	9.11	mV
133	Pier 2	188180.39	179867.80	0	0	0	0	0	0	7	8.72	mV
134	Pier 2	188180.71	179865.95	0	0	0	0	0	0	1	19.61	mV
135	Pier 2	188177.00	179868.00	0	0	0	0	0	0	1	25.69	mV
136	Pier 2	188178.72	179875.32	0	0	0	0	0	0	7	8.13	mV
137	Pier 2	188178.00	179878.50	0	0	0	0	0	0	1	32.65	mV
138	Pier 2	188180.31	179878.94	0	0	0	0	0	0	7	10.26	mV
139	Pier 2	188180.92	179878.08	0	0	0	0	0	0	1	9.80	mV
140	Pier 2	188182.50	179881.00	0	0	0	0	0	0	1	7.29	mV
141	Pier 2	188184.33	179875.94	0	0	0	0	0	0	1	403.81	mV
142	Pier 2	188187.00	179874.00	0	0	0	0	0	0	1	182.96	mV
143	Pier 2	188190.50	179872.00	0	0	0	0	0	0	1	99.08	mV
144	Pier 2	188193.50	179870.00	0	0	0	0	0	0	1	67.98	mV
145	Pier 2	188191.00	179876.00	0	0	0	0	0	0	7	7.12	mV
146	Pier 2	188190.00	179877.00	0	0	0	0	0	0	7	7.83	mV
147	Pier 2	188188.72	179880.24	0	0	0	0	0	0	7	9.78	mV
148	Pier 2	188192.92	179882.26	0	0	0	0	0	0	7	8.11	mV
149	Pier 2	188194.00	179884.50	0	0	0	0	0	0	1	10.65	mV
150	Pier 2	188196.84	179884.32	0	0	0	0	0	0	1	25.92	mV
151	Pier 2	188195.00	179886.50	0	0	0	0	0	0	1	9.64	mV
152	Pier 2	188196.10	179889.67	0	0	0	0	0	0	7	7.51	mV
153	Pier 2	188201.00	179891.50	0	0	0	0	0	0	1	15.67	mV
154	Pier 2	188205.00	179897.50	0	0	0	0	0	0	1	11.15	mV
155	Pier 2	188201.00	179899.50	0	0	0	0	0	0	1	12.88	mV
156	Pier 2	188201.73	179901.25	0	0	0	0	0	0	1	9.56	mV
157	Pier 2	188201.20	179907.33	0	0	0	0	0	0	7	7.04	mV
158	Pier 2	188202.89	179908.23	0	0	0	0	0	0	7	8.01	mV
159	Pier 2	188204.52	179908.16	0	0	0	0	0	0	1	10.15	mV
160	Pier 2	188204.00	179906.00	0	0	0	0	0	0	7	8.14	mV
161	Pier 2	188208.23	179904.28	0	0	0	0	0	0	1	34.13	mV
162	Pier 2	188210.07	179908.84	0	0	0	0	0	0	1	2514.35	mV
163	Pier 2	188215.00	179917.44	0	0	0	0	0	0	1	884.56	mV
164	Pier 2	188215.09	179922.55	0	0	0	0	0	0	1	921.00	mV
165	Pier 2	188218.21	179923.25	0	0	0	0	0	0	1	29.51	mV
166	Pier 2	188220.50	179927.50	0	0	0	0	0	0	1	27.19	mV
167	Pier 2	188213.56	179926.06	0	0	0	0	0	0	1	573.94	mV
168	Pier 2	188211.00	179928.00	0	0	0	0	0	0	7	7.72	mV
169	Pier 2	188210.50	179923.50	0	0	0	0	0	0	1	22.68	mV
170	Pier 2	188208.50	179923.50	0	0	0	0	0	0	1	7.48	mV
171	Pier 2	188206.50	179926.00	0	0	0	0	0	0	1	28.31	mV
172	Pier 2	188201.00	179922.00	0	0	0	0	0	0	7	8.29	mV
173	Pier 2	188202.00	179921.50	0	0	0	0	0	0	7	8.37	mV
174	Pier 2	188200.30	179920.39	0	0	0	0	0	0	7	9.22	mV
175	Pier 2	188198.01	179924.72	0	0	0	0	0	0	7	8.31	mV
176	Pier 2	188198.47	179927.56	0	0	0	0	0	0	7	7.28	mV
177	Pier 2	188184.72	179933.52	0	0	0	0	0	0	1	215.52	mV
178	Pier 2	188181.28	179943.21	0	0	0	0	0	0	7	8.52	mV
179	Pier 2	188185.00	179949.50	0	0	0	0	0	0	1	1199.94	mV
180	Pier 2	188197.05	179949.66	0	0	0	0	0	0	7	7.10	mV
181	Pier 2	188204.50	179944.00	0	0	0	0	0	0	1	7.38	mV
182	Pier 2	188208.00	179938.00	0	0	0	0	0	0	7	11.44	mV

183	Pier 2	188206.32	179934.37	0	0	0	0	0	0	1	12.35	mV
184	Pier 2	188205.43	179931.70	0	0	0	0	0	0	1	11.05	mV
185	Pier 2	188207.00	179929.50	0	0	0	0	0	0	1	62.48	mV
186	Pier 2	188209.00	179934.00	0	0	0	0	0	0	1	8.29	mV
187	Pier 2	188210.50	179937.50	0	0	0	0	0	0	7	7.67	mV
188	Pier 2	188211.00	179938.50	0	0	0	0	0	0	7	9.31	mV
189	Pier 2	188212.00	179940.00	0	0	0	0	0	0	7	7.87	mV
190	Pier 2	188214.21	179934.79	0	0	0	0	0	0	7	7.02	mV
191	Pier 2	188217.50	179935.50	0	0	0	0	0	0	1	8.97	mV
192	Pier 2	188222.00	179936.00	0	0	0	0	0	0	1	120.39	mV
193	Pier 2	188224.50	179934.00	0	0	0	0	0	0	1	105.49	mV
194	Pier 2	188226.53	179939.26	0	0	0	0	0	0	1	17.24	mV
195	Pier 2	188222.00	179940.50	0	0	0	0	0	0	1	118.03	mV
196	Pier 2	188218.50	179939.50	0	0	0	0	0	0	1	95.34	mV
197	Pier 2	188217.00	179940.50	0	0	0	0	0	0	1	94.91	mV
198	Pier 2	188215.50	179946.00	0	0	0	0	0	0	7	8.72	mV
199	Pier 2	188214.43	179946.26	0	0	0	0	0	0	7	7.74	mV
200	Pier 2	188213.50	179948.00	0	0	0	0	0	0	1	8.61	mV
201	Pier 2	188213.92	179950.55	0	0	0	0	0	0	1	19.06	mV
202	Pier 2	188214.67	179952.74	0	0	0	0	0	0	1	12.58	mV
203	Pier 2	188216.35	179959.84	0	0	0	0	0	0	1	668.10	mV
204	Pier 2	188212.00	179962.50	0	0	0	0	0	0	1	85.07	mV
205	Pier 2	188215.50	179975.00	0	0	0	0	0	0	1	45.08	mV
206	Pier 2	188220.50	179970.43	0	0	0	0	0	0	7	10.10	mV
207	Pier 2	188222.23	179970.34	0	0	0	0	0	0	1	12.04	mV
208	Pier 2	188223.92	179969.46	0	0	0	0	0	0	7	7.58	mV
209	Pier 2	188226.54	179969.71	0	0	0	0	0	0	7	7.78	mV
210	Pier 2	188231.18	179976.04	0	0	0	0	0	0	7	7.13	mV
211	Pier 2	188231.18	179970.58	0	0	0	0	0	0	7	8.91	mV
212	Pier 2	188231.97	179967.02	0	0	0	0	0	0	7	7.28	mV
213	Pier 2	188231.02	179964.89	0	0	0	0	0	0	7	8.79	mV
214	Pier 2	188228.21	179964.62	0	0	0	0	0	0	7	8.26	mV
215	Pier 2	188230.13	179962.43	0	0	0	0	0	0	7	10.94	mV
216	Pier 2	188228.99	179960.09	0	0	0	0	0	0	7	9.59	mV
217	Pier 2	188225.72	179959.41	0	0	0	0	0	0	7	7.44	mV
218	Pier 2	188224.00	179948.00	0	0	0	0	0	0	1	10.06	mV
219	Pier 2	188225.00	179950.48	0	0	0	0	0	0	7	8.47	mV
220	Pier 2	188225.73	179952.94	0	0	0	0	0	0	7	8.97	mV
221	Pier 2	188235.85	179957.11	0	0	0	0	0	0	1	34.67	mV
222	Pier 2	188236.50	179960.00	0	0	0	0	0	0	1	33.75	mV
223	Pier 2	188242.50	179970.50	0	0	0	0	0	0	1	419.49	mV
224	Pier 2	188244.50	179974.30	0	0	0	0	0	0	1	33.72	mV
225	Pier 2	188243.66	179980.06	0	0	0	0	0	0	1	50.26	mV
226	Pier 2	188239.00	179982.00	0	0	0	0	0	0	7	7.27	mV
227	Pier 2	188238.00	179980.50	0	0	0	0	0	0	7	9.18	mV
228	Pier 2	188233.00	179983.50	0	0	0	0	0	0	7	8.04	mV
229	Pier 2	188228.50	179985.50	0	0	0	0	0	0	1	149.03	mV
230	Pier 2	188230.98	179987.36	0	0	0	0	0	0	7	7.67	mV
231	Pier 2	188232.09	179989.23	0	0	0	0	0	0	1	12.35	mV
232	Pier 2	188228.83	179997.35	0	0	0	0	0	0	7	7.34	mV
233	Pier 2	188236.00	179999.00	0	0	0	0	0	0	7	7.61	mV
234	Pier 2	188235.61	179997.05	0	0	0	0	0	0	7	7.65	mV
235	Pier 2	188236.44	179996.37	0	0	0	0	0	0	7	7.06	mV
236	Pier 2	188239.53	179997.13	0	0	0	0	0	0	7	8.02	mV
237	Pier 2	188239.71	179990.45	0	0	0	0	0	0	1	59.80	mV
238	Pier 2	188238.29	179987.94	0	0	0	0	0	0	1	12.17	mV
239	Pier 2	188237.80	179985.75	0	0	0	0	0	0	7	7.88	mV
240	Pier 2	188240.50	179986.00	0	0	0	0	0	0	1	29.22	mV
241	Pier 2	188241.90	179988.76	0	0	0	0	0	0	1	283.41	mV
242	Pier 2	188245.00	179991.00	0	0	0	0	0	0	7	7.75	mV
243	Pier 2	188249.50	179986.50	0	0	0	0	0	0	1	131.95	mV

244	Pier 2	188250.36	179989.31	0	0	0	0	0	0	1	236.56	mV
245	Pier 2	188249.15	179993.97	0	0	0	0	0	0	1	120.79	mV
246	Pier 2	188252.54	179994.51	0	0	0	0	0	0	1	180.23	mV
247	Pier 2	188254.37	179996.78	0	0	0	0	0	0	1	8.60	mV
248	Pier 2	188254.50	179999.50	0	0	0	0	0	0	1	52.48	mV
249	Pier 2	188250.00	180001.50	0	0	0	0	0	0	1	93.61	mV
250	Pier 2	188248.50	180002.50	0	0	0	0	0	0	1	15.94	mV
251	Pier 2	188246.13	180001.61	0	0	0	0	0	0	7	8.73	mV
252	Pier 2	188247.50	180005.00	0	0	0	0	0	0	7	7.20	mV
253	Pier 2	188250.76	180004.73	0	0	0	0	0	0	1	62.50	mV
254	Pier 2	188251.67	180008.31	0	0	0	0	0	0	7	12.28	mV
255	Pier 2	188252.66	180010.49	0	0	0	0	0	0	7	11.90	mV
256	Pier 2	188253.72	180012.94	0	0	0	0	0	0	1	15.54	mV
257	Pier 2	188255.00	180016.00	0	0	0	0	0	0	1	9.67	mV
258	Pier 2	188245.98	180010.95	0	0	0	0	0	0	7	8.07	mV
259	Pier 2	188244.00	180014.50	0	0	0	0	0	0	7	7.21	mV
260	Pier 2	188246.50	180018.56	0	0	0	0	0	0	7	9.39	mV
261	Pier 2	188245.50	180021.00	0	0	0	0	0	0	1	8.40	mV
262	Pier 2	188240.82	180022.57	0	0	0	0	0	0	7	7.64	mV
263	Pier 2	188244.00	180022.50	0	0	0	0	0	0	1	8.93	mV
264	Pier 2	188249.54	180024.39	0	0	0	0	0	0	6	6.07	mV
265	Pier 2	188251.50	180029.00	0	0	0	0	0	0	7	7.36	mV
266	Pier 2	188241.42	180033.32	0	0	0	0	0	0	1	24.52	mV
267	Pier 2	188238.00	180035.50	0	0	0	0	0	0	1	86.40	mV
268	Pier 2	188246.50	180036.50	0	0	0	0	0	0	1	8.54	mV
269	Pier 2	188249.23	180036.58	0	0	0	0	0	0	1	13.13	mV
270	Pier 2	188250.56	180035.38	0	0	0	0	0	0	1	13.05	mV
271	Pier 2	188252.70	180034.19	0	0	0	0	0	0	1	14.59	mV
272	Pier 2	188255.41	180037.51	0	0	0	0	0	0	7	8.21	mV
273	Pier 2	188252.08	180038.64	0	0	0	0	0	0	7	7.42	mV
274	Pier 2	188254.08	180048.83	0	0	0	0	0	0	1	183.54	mV
275	Pier 2	188258.84	180044.91	0	0	0	0	0	0	7	7.41	mV
276	Pier 2	188266.79	180044.55	0	0	0	0	0	0	7	9.24	mV
277	Pier 2	188269.00	180049.50	0	0	0	0	0	0	7	8.25	mV
278	Pier 2	188269.64	180051.07	0	0	0	0	0	0	7	9.24	mV
279	Pier 2	188267.80	180055.26	0	0	0	0	0	0	7	7.87	mV
280	Pier 2	188264.50	180057.00	0	0	0	0	0	0	7	9.48	mV
281	Pier 2	188258.46	180062.56	0	0	0	0	0	0	7	7.23	mV
282	Pier 2	188261.93	180068.77	0	0	0	0	0	0	7	7.41	mV
283	Pier 2	188263.80	180070.05	0	0	0	0	0	0	7	7.29	mV
284	Pier 2	188270.70	180070.31	0	0	0	0	0	0	7	9.26	mV
285	Pier 2	188271.47	180072.66	0	0	0	0	0	0	7	8.85	mV
286	Pier 2	188272.10	180073.61	0	0	0	0	0	0	7	8.22	mV
287	Pier 2	188269.23	180082.67	0	0	0	0	0	0	1	8.26	mV
288	Pier 2	188276.94	180082.71	0	0	0	0	0	0	7	7.46	mV
289	Pier 2	188281.95	180078.99	0	0	0	0	0	0	7	7.06	mV
290	Pier 2	188281.50	180076.63	0	0	0	0	0	0	7	7.87	mV
291	Pier 2	188280.57	180073.44	0	0	0	0	0	0	7	7.99	mV
292	Pier 2	188280.50	180064.00	0	0	0	0	0	0	1	11.86	mV
293	Pier 2	188274.94	180061.10	0	0	0	0	0	0	7	9.23	mV
294	Pier 2	188272.70	180056.38	0	0	0	0	0	0	7	9.54	mV
295	Pier 2	188287.00	180049.00	0	0	0	0	0	0	1	931.29	mV
296	Pier 2	188279.90	180037.51	0	0	0	0	0	0	7	7.51	mV
297	Pier 2	188276.00	180028.00	0	0	0	0	0	0	10	8.21	mV
298	Pier 2	188269.72	180027.19	0	0	0	0	0	0	1	123.46	mV
299	Pier 2	188269.50	180022.99	0	0	0	0	0	0	1	138.87	mV
300	Pier 2	188265.50	180024.00	0	0	0	0	0	0	1	84.15	mV
301	Pier 2	188260.73	180032.50	0	0	0	0	0	0	1	8.33	mV
302	Pier 2	188260.50	180027.00	0	0	0	0	0	0	1	203.63	mV
303	Pier 2	188258.29	180021.95	0	0	0	0	0	0	7	12.11	mV
304	Pier 2	188259.69	180018.74	0	0	0	0	0	0	1	40.11	mV

305	Pier 2	188263.68	180012.13	0	0	0	0	0	0	1	22.70	mV
306	Pier 2	188260.50	180006.50	0	0	0	0	0	0	1	303.41	mV
307	Pier 2	188300.00	179968.50	0	0	0	0	0	0	1	33.90	mV
308	Pier 2	188301.00	179971.00	0	0	0	0	0	0	1	9.50	mV
309	Pier 2	188303.00	179970.50	0	0	0	0	0	0	1	7.74	mV
310	Pier 2	188304.50	179970.00	0	0	0	0	0	0	1	8.29	mV
311	Pier 2	188306.25	179972.15	0	0	0	0	0	0	1	20.44	mV
312	Pier 2	188307.94	179971.40	0	0	0	0	0	0	1	36.87	mV
313	Pier 2	188311.23	179967.87	0	0	0	0	0	0	1	156.74	mV
314	Pier 2	188310.50	179963.50	0	0	0	0	0	0	1	9.06	mV
315	Pier 2	188305.50	179963.00	0	0	0	0	0	0	10	96.72	mV
316	Pier 2	188301.50	179965.00	0	0	0	0	0	0	1	33.38	mV
317	Pier 2	188301.99	179960.31	0	0	0	0	0	0	1	24.24	mV
318	Pier 2	188299.50	179961.50	0	0	0	0	0	0	1	114.79	mV
319	Pier 2	188296.50	179961.50	0	0	0	0	0	0	1	221.05	mV
320	Pier 2	188295.00	179956.00	0	0	0	0	0	0	1	70.17	mV
321	Pier 2	188297.24	179954.38	0	0	0	0	0	0	1	370.19	mV
322	Pier 2	188294.00	179947.50	0	0	0	0	0	0	1	110.79	mV
323	Pier 2	188295.00	179945.50	0	0	0	0	0	0	1	75.01	mV
324	Pier 2	188298.50	179946.50	0	0	0	0	0	0	1	39.61	mV
325	Pier 2	188291.00	179948.50	0	0	0	0	0	0	1	668.10	mV
326	Pier 2	188287.87	179943.76	0	0	0	0	0	0	1	35.88	mV
327	Pier 2	188288.00	179936.00	0	0	0	0	0	0	1	38.41	mV
328	Pier 2	188283.50	179934.50	0	0	0	0	0	0	1	13.69	mV
329	Pier 2	188284.00	179927.50	0	0	0	0	0	0	1	8.81	mV
330	Pier 2	188285.58	179926.78	0	0	0	0	0	0	1	7.59	mV
331	Pier 2	188291.00	179925.50	0	0	0	0	0	0	1	71.45	mV
332	Pier 2	188293.00	179924.00	0	0	0	0	0	0	1	68.90	mV
333	Pier 2	188293.50	179922.50	0	0	0	0	0	0	1	16.53	mV
334	Pier 2	188293.65	179918.99	0	0	0	0	0	0	1	38.16	mV
335	Pier 2	188297.09	179917.27	0	0	0	0	0	0	1	18.20	mV
336	Pier 2	188296.50	179913.50	0	0	0	0	0	0	1	7.24	mV
337	Pier 2	188303.76	179904.34	0	0	0	0	0	0	1	73.98	mV
338	Pier 2	188305.50	179903.50	0	0	0	0	0	0	1	142.76	mV
339	Pier 2	188309.20	179902.80	0	0	0	0	0	0	7	7.44	mV
340	Pier 2	188298.01	179896.87	0	0	0	0	0	0	1	16.32	mV
341	Pier 2	188300.50	179887.50	0	0	0	0	0	0	1	10.42	mV
342	Pier 2	188291.49	179883.85	0	0	0	0	0	0	6	6.71	mV
343	Pier 2	188289.83	179884.68	0	0	0	0	0	0	1	17.01	mV
344	Pier 2	188287.67	179877.79	0	0	0	0	0	0	1	8.32	mV
345	Pier 2	188285.75	179878.88	0	0	0	0	0	0	1	100.72	mV
346	Pier 2	188287.00	179887.00	0	0	0	0	0	0	1	75.30	mV
347	Pier 2	188285.92	179897.65	0	0	0	0	0	0	1	23.38	mV
348	Pier 2	188283.67	179898.75	0	0	0	0	0	0	1	23.93	mV
349	Pier 2	188285.00	179901.50	0	0	0	0	0	0	1	23.93	mV
350	Pier 2	188287.35	179900.40	0	0	0	0	0	0	1	38.87	mV
351	Pier 2	188290.50	179906.50	0	0	0	0	0	0	1	370.70	mV
352	Pier 2	188286.89	179907.72	0	0	0	0	0	0	1	257.94	mV
353	Pier 2	188290.00	179913.00	0	0	0	0	0	0	1	590.48	mV
354	Pier 2	188284.74	179920.26	0	0	0	0	0	0	1	9.85	mV
355	Pier 2	188282.50	179922.00	0	0	0	0	0	0	1	9.29	mV
356	Pier 2	188281.00	179923.00	0	0	0	0	0	0	1	17.37	mV
357	Pier 2	188277.50	179921.50	0	0	0	0	0	0	1	244.30	mV
358	Pier 2	188279.00	179911.00	0	0	0	0	0	0	1	76.95	mV
359	Pier 2	188274.50	179911.00	0	0	0	0	0	0	1	747.03	mV
360	Pier 2	188271.50	179906.00	0	0	0	0	0	0	1	238.85	mV
361	Pier 2	188274.00	179904.50	0	0	0	0	0	0	1	27.03	mV
362	Pier 2	188267.00	179897.50	0	0	0	0	0	0	1	756.99	mV
363	Pier 2	188270.00	179895.50	0	0	0	0	0	0	1	25.17	mV
364	Pier 2	188269.89	179891.32	0	0	0	0	0	0	1	17.46	mV
365	Pier 2	188269.02	179886.98	0	0	0	0	0	0	1	12.14	mV

366	Pier 2	188263.00	179889.00	0	0	0	0	0	0	1	10.00	mV
367	Pier 2	188260.50	179886.00	0	0	0	0	0	0	1	22.02	mV
368	Pier 2	188257.00	179879.50	0	0	0	0	0	0	1	228.32	mV
369	Pier 2	188270.00	179881.50	0	0	0	0	0	0	1	97.00	mV
370	Pier 2	188271.00	179877.50	0	0	0	0	0	0	1	666.46	mV
371	Pier 2	188274.00	179875.00	0	0	0	0	0	0	1	7.75	mV
372	Pier 2	188275.50	179875.00	0	0	0	0	0	0	1	11.34	mV
373	Pier 2	188278.50	179873.50	0	0	0	0	0	0	1	119.85	mV
374	Pier 2	188268.50	179872.50	0	0	0	0	0	0	1	169.83	mV
375	Pier 2	188266.50	179874.00	0	0	0	0	0	0	1	94.22	mV
376	Pier 2	188267.00	179868.00	0	0	0	0	0	0	1	47.32	mV
377	Pier 2	188266.50	179863.00	0	0	0	0	0	0	1	103.74	mV
378	Pier 2	188256.58	179860.99	0	0	0	0	0	0	7	8.53	mV
379	Pier 2	188254.30	179861.88	0	0	0	0	0	0	1	23.38	mV
380	Pier 2	188249.50	179863.50	0	0	0	0	0	0	1	9.46	mV
381	Pier 2	188249.50	179857.00	0	0	0	0	0	0	1	7.04	mV
382	Pier 2	188251.00	179857.00	0	0	0	0	0	0	1	10.01	mV
383	Pier 2	188258.26	179847.56	0	0	0	0	0	0	10	7.24	mV
384	Pier 2	188263.50	179851.50	0	0	0	0	0	0	10	15.78	mV
385	Pier 2	188266.50	179854.00	0	0	0	0	0	0	1	15.75	mV
386	Pier 2	188267.50	179849.50	0	0	0	0	0	0	1	248.61	mV
387	Pier 2	188266.50	179843.00	0	0	0	0	0	0	1	8.79	mV
388	Pier 2	188259.73	179840.29	0	0	0	0	0	0	1	189.05	mV
389	Pier 2	188257.53	179840.43	0	0	0	0	0	0	1	98.95	mV
390	Pier 2	188255.00	179841.50	0	0	0	0	0	0	1	17.02	mV
391	Pier 2	188253.00	179840.00	0	0	0	0	0	0	1	11.67	mV
392	Pier 2	188250.50	179834.50	0	0	0	0	0	0	1	21.50	mV
393	Pier 2	188248.50	179836.50	0	0	0	0	0	0	1	15.73	mV
394	Pier 2	188246.53	179837.73	0	0	0	0	0	0	1	48.25	mV
395	Pier 2	188249.00	179842.50	0	0	0	0	0	0	1	32.11	mV
396	Pier 2	188251.50	179842.00	0	0	0	0	0	0	1	10.04	mV
397	Pier 2	188251.00	179846.50	0	0	0	0	0	0	1	389.06	mV
398	Pier 2	188242.50	179845.50	0	0	0	0	0	0	1	82.76	mV
399	Pier 2	188242.00	179843.00	0	0	0	0	0	0	1	25.78	mV
400	Pier 2	188238.59	179833.60	0	0	0	0	0	0	1	147.30	mV
401	Pier 2	188235.50	179832.00	0	0	0	0	0	0	10	104.12	mV
402	Pier 2	188232.10	179825.32	0	0	0	0	0	0	7	7.21	mV
403	Pier 2	188233.00	179821.00	0	0	0	0	0	0	1	8.14	mV
404	Pier 2	188231.17	179817.08	0	0	0	0	0	0	1	130.04	mV
405	Pier 2	188226.50	179813.50	0	0	0	0	0	0	1	56.66	mV
406	Pier 2	188226.00	179810.50	0	0	0	0	0	0	1	24.97	mV
407	Pier 2	188226.21	179806.39	0	0	0	0	0	0	1	156.02	mV
408	Pier 2	188222.80	179805.93	0	0	0	0	0	0	1	772.64	mV
409	Pier 2	188225.74	179802.98	0	0	0	0	0	0	1	533.21	mV
410	Pier 2	188228.50	179805.50	0	0	0	0	0	0	1	123.22	mV
411	Pier 2	188230.50	179809.00	0	0	0	0	0	0	1	20.52	mV
412	Pier 2	188230.00	179812.00	0	0	0	0	0	0	1	35.57	mV
413	Pier 2	188232.00	179812.00	0	0	0	0	0	0	1	193.79	mV
414	Pier 2	188236.50	179814.00	0	0	0	0	0	0	1	17.88	mV
415	Pier 2	188238.15	179820.53	0	0	0	0	0	0	1	50.16	mV
416	Pier 2	188244.00	179819.50	0	0	0	0	0	0	1	14.22	mV
417	Pier 2	188247.23	179824.35	0	0	0	0	0	0	1	40.34	mV
418	Pier 2	188252.50	179817.50	0	0	0	0	0	0	1	27.97	mV
419	Pier 2	188253.98	179814.78	0	0	0	0	0	0	1	335.05	mV
420	Pier 2	188250.00	179812.00	0	0	0	0	0	0	1	32.49	mV
421	Pier 2	188245.00	179803.50	0	0	0	0	0	0	1	18.55	mV
422	Pier 2	188242.00	179804.00	0	0	0	0	0	0	1	33.20	mV
423	Pier 2	188239.76	179804.65	0	0	0	0	0	0	1	25.03	mV
424	Pier 2	188237.00	179805.00	0	0	0	0	0	0	1	36.41	mV
425	Pier 2	188233.50	179801.50	0	0	0	0	0	0	1	636.96	mV
426	Pier 2	188231.63	179798.90	0	0	0	0	0	0	1	189.03	mV

427	Pier 2	188230.00	179795.50	0	0	0	0	0	0	1	48.93	mV
428	Pier 2	188228.00	179796.50	0	0	0	0	0	0	1	120.84	mV
429	Pier 2	188222.50	179798.50	0	0	0	0	0	0	1	14.64	mV
430	Pier 2	188221.50	179796.00	0	0	0	0	0	0	1	278.92	mV
431	Pier 2	188223.00	179795.00	0	0	0	0	0	0	1	48.74	mV
432	Pier 2	188227.50	179793.50	0	0	0	0	0	0	1	693.95	mV
433	Pier 2	188228.76	179791.78	0	0	0	0	0	0	1	177.60	mV
434	Pier 2	188226.00	179789.50	0	0	0	0	0	0	1	16.52	mV
435	Pier 2	188222.84	179785.88	0	0	0	0	0	0	1	13.13	mV
436	Pier 2	188221.30	179783.34	0	0	0	0	0	0	1	201.40	mV
437	Pier 2	188215.49	179789.02	0	0	0	0	0	0	1	854.36	mV
438	Pier 2	188213.97	179781.25	0	0	0	0	0	0	1	13.14	mV
439	Pier 2	188215.87	179779.85	0	0	0	0	0	0	1	24.05	mV
440	Pier 2	188213.00	179778.00	0	0	0	0	0	0	1	27.34	mV
441	Pier 2	188211.63	179777.17	0	0	0	0	0	0	7	8.30	mV
442	Pier 2	188215.62	179776.43	0	0	0	0	0	0	1	22.26	mV
443	Pier 2	188216.85	179774.08	0	0	0	0	0	0	1	331.69	mV
444	Pier 2	188219.50	179777.50	0	0	0	0	0	0	1	4751.42	mV
445	Pier 2	188222.80	179774.87	0	0	0	0	0	0	1	794.45	mV
446	Pier 2	188224.00	179781.00	0	0	0	0	0	0	1	180.65	mV
447	Pier 2	188229.50	179782.50	0	0	0	0	0	0	1	93.73	mV
448	Pier 2	188230.48	179784.94	0	0	0	0	0	0	1	20.80	mV
449	Pier 2	188240.50	179794.00	0	0	0	0	0	0	1	18.31	mV
450	Pier 2	188244.00	179797.50	0	0	0	0	0	0	1	39.51	mV
451	Pier 2	188247.00	179798.00	0	0	0	0	0	0	1	12.37	mV
452	Pier 2	188258.17	179796.88	0	0	0	0	0	0	7	8.30	mV
453	Pier 2	188265.80	179805.42	0	0	0	0	0	0	1	14.02	mV
454	Pier 2	188265.65	179810.05	0	0	0	0	0	0	1	1767.80	mV
455	Pier 2	188268.00	179808.00	0	0	0	0	0	0	1	87.41	mV
456	Pier 2	188267.50	179804.00	0	0	0	0	0	0	1	10.47	mV
457	Pier 2	188270.00	179798.00	0	0	0	0	0	0	7	8.16	mV
458	Pier 2	188278.00	179801.00	0	0	0	0	0	0	1	80.86	mV
459	Pier 2	188273.00	179795.50	0	0	0	0	0	0	7	7.24	mV
460	Pier 2	188270.00	179790.00	0	0	0	0	0	0	7	7.92	mV
461	Pier 2	188268.15	179790.58	0	0	0	0	0	0	1	15.02	mV
462	Pier 2	188264.00	179785.50	0	0	0	0	0	0	1	8.39	mV
463	Pier 2	188264.74	179784.98	0	0	0	0	0	0	7	10.35	mV
464	Pier 2	188263.68	179782.75	0	0	0	0	0	0	7	8.68	mV
465	Pier 2	188262.78	179783.17	0	0	0	0	0	0	7	10.90	mV
466	Pier 2	188261.18	179785.90	0	0	0	0	0	0	1	50.61	mV
467	Pier 2	188259.50	179787.50	0	0	0	0	0	0	1	43.56	mV
468	Pier 2	188258.00	179788.00	0	0	0	0	0	0	1	12.55	mV
469	Pier 2	188255.50	179788.50	0	0	0	0	0	0	1	27.59	mV
470	Pier 2	188252.00	179789.00	0	0	0	0	0	0	1	8.34	mV
471	Pier 2	188253.50	179786.50	0	0	0	0	0	0	7	8.47	mV
472	Pier 2	188251.34	179785.86	0	0	0	0	0	0	7	7.25	mV
473	Pier 2	188244.20	179781.70	0	0	0	0	0	0	1	90.54	mV
474	Pier 2	188240.93	179778.13	0	0	0	0	0	0	10	520.43	mV
475	Pier 2	188238.57	179776.02	0	0	0	0	0	0	10	931.06	mV
476	Pier 2	188235.00	179776.00	0	0	0	0	0	0	10	39.35	mV
477	Pier 2	188230.00	179768.00	0	0	0	0	0	0	10	40.20	mV
478	Pier 2	188233.86	179766.73	0	0	0	0	0	0	7	8.00	mV
479	Pier 2	188237.79	179764.48	0	0	0	0	0	0	1	43.37	mV
480	Pier 2	188236.61	179768.22	0	0	0	0	0	0	1	14.70	mV
481	Pier 2	188239.45	179770.44	0	0	0	0	0	0	1	28.34	mV
482	Pier 2	188241.00	179770.00	0	0	0	0	0	0	1	136.08	mV
483	Pier 2	188242.50	179768.50	0	0	0	0	0	0	1	10.59	mV
484	Pier 2	188244.00	179767.50	0	0	0	0	0	0	7	8.34	mV
485	Pier 2	188246.00	179767.50	0	0	0	0	0	0	1	61.42	mV
486	Pier 2	188244.30	179770.06	0	0	0	0	0	0	7	7.18	mV
487	Pier 2	188245.60	179775.61	0	0	0	0	0	0	6	6.93	mV

488	Pier 2	188249.00	179775.50	0	0	0	0	0	0	1	64.90	mV
489	Pier 2	188253.00	179772.00	0	0	0	0	0	0	1	8.46	mV
490	Pier 2	188254.50	179772.00	0	0	0	0	0	0	1	59.79	mV
491	Pier 2	188257.00	179771.00	0	0	0	0	0	0	1	35.61	mV
492	Pier 2	188258.59	179773.77	0	0	0	0	0	0	7	8.30	mV
493	Pier 2	188259.21	179775.02	0	0	0	0	0	0	7	10.17	mV
494	Pier 2	188259.63	179775.94	0	0	0	0	0	0	7	7.91	mV
495	Pier 2	188260.14	179774.66	0	0	0	0	0	0	7	9.79	mV
496	Pier 2	188259.50	179769.00	0	0	0	0	0	0	1	61.74	mV
497	Pier 2	188260.00	179766.50	0	0	0	0	0	0	7	7.29	mV
498	Pier 2	188258.50	179766.00	0	0	0	0	0	0	7	7.73	mV
499	Pier 2	188258.37	179763.66	0	0	0	0	0	0	7	7.81	mV
500	Pier 2	188259.00	179763.00	0	0	0	0	0	0	1	7.94	mV
501	Pier 2	188256.43	179763.27	0	0	0	0	0	0	7	7.00	mV
502	Pier 2	188256.26	179758.71	0	0	0	0	0	0	7	8.72	mV
503	Pier 2	188259.30	179757.42	0	0	0	0	0	0	7	7.71	mV
504	Pier 2	188265.00	179753.50	0	0	0	0	0	0	7	7.29	mV
505	Pier 2	188266.19	179753.33	0	0	0	0	0	0	7	8.91	mV
506	Pier 2	188263.09	179757.25	0	0	0	0	0	0	7	8.16	mV
507	Pier 2	188263.51	179758.32	0	0	0	0	0	0	7	8.43	mV
508	Pier 2	188261.00	179760.50	0	0	0	0	0	0	1	8.34	mV
509	Pier 2	188263.50	179761.63	0	0	0	0	0	0	7	7.50	mV
510	Pier 2	188265.00	179763.50	0	0	0	0	0	0	7	11.14	mV
511	Pier 2	188269.00	179765.50	0	0	0	0	0	0	7	8.68	mV
512	Pier 2	188273.50	179768.00	0	0	0	0	0	0	1	175.80	mV
513	Pier 2	188268.78	179770.29	0	0	0	0	0	0	7	7.40	mV
514	Pier 2	188270.00	179771.50	0	0	0	0	0	0	1	9.64	mV
515	Pier 2	188271.00	179774.00	0	0	0	0	0	0	1	8.93	mV
516	Pier 2	188269.00	179773.50	0	0	0	0	0	0	1	8.61	mV
517	Pier 2	188263.31	179774.55	0	0	0	0	0	0	1	23.24	mV
518	Pier 2	188265.50	179778.00	0	0	0	0	0	0	7	7.85	mV
519	Pier 2	188268.25	179778.35	0	0	0	0	0	0	7	8.70	mV
520	Pier 2	188273.13	179781.28	0	0	0	0	0	0	7	8.02	mV
521	Pier 2	188275.00	179780.00	0	0	0	0	0	0	7	8.34	mV
522	Pier 2	188274.55	179778.36	0	0	0	0	0	0	7	8.92	mV
523	Pier 2	188275.77	179779.51	0	0	0	0	0	0	7	8.41	mV
524	Pier 2	188280.50	179785.50	0	0	0	0	0	0	7	8.28	mV
525	Pier 2	188292.50	179796.00	0	0	0	0	0	0	1	34.60	mV
526	Pier 2	188289.20	179810.98	0	0	0	0	0	0	1	137.21	mV
527	Pier 2	188285.31	179813.64	0	0	0	0	0	0	1	917.37	mV
528	Pier 2	188297.00	179834.15	0	0	0	0	0	0	7	7.33	mV
529	Pier 2	188296.71	179835.77	0	0	0	0	0	0	7	8.13	mV
530	Pier 2	188295.50	179837.50	0	0	0	0	0	0	1	9.31	mV
531	Pier 2	188287.63	179842.80	0	0	0	0	0	0	1	9.21	mV
532	Pier 2	188285.50	179843.50	0	0	0	0	0	0	1	121.63	mV
533	Pier 2	188283.25	179845.42	0	0	0	0	0	0	1	99.05	mV
534	Pier 2	188293.36	179846.85	0	0	0	0	0	0	7	7.36	mV
535	Pier 2	188297.08	179850.78	0	0	0	0	0	0	7	7.08	mV
536	Pier 2	188310.27	179848.95	0	0	0	0	0	0	7	8.05	mV
537	Pier 2	188306.00	179858.00	0	0	0	0	0	0	7	7.53	mV
538	Pier 2	188305.39	179862.88	0	0	0	0	0	0	7	7.32	mV
539	Pier 2	188308.90	179871.13	0	0	0	0	0	0	7	7.72	mV
540	Pier 2	188316.42	179871.17	0	0	0	0	0	0	7	7.40	mV
541	Pier 2	188310.86	179875.33	0	0	0	0	0	0	7	7.24	mV
542	Pier 2	188310.99	179877.89	0	0	0	0	0	0	7	7.86	mV
543	Pier 2	188309.70	179880.10	0	0	0	0	0	0	7	9.46	mV
544	Pier 2	188308.75	179880.63	0	0	0	0	0	0	7	9.30	mV
545	Pier 2	188316.00	179883.50	0	0	0	0	0	0	7	7.24	mV
546	Pier 2	188317.81	179888.10	0	0	0	0	0	0	7	7.62	mV
547	Pier 2	188330.01	179899.90	0	0	0	0	0	0	7	7.48	mV
548	Pier 2	188325.50	179901.00	0	0	0	0	0	0	1	78.43	mV

549	Pier 2	188326.00	179907.50	0	0	0	0	0	0	7	7.15	mV
550	Pier 2	188329.21	179909.16	0	0	0	0	0	0	7	7.33	mV
551	Pier 2	188331.00	179908.50	0	0	0	0	0	0	1	8.24	mV
552	Pier 2	188331.54	179916.89	0	0	0	0	0	0	7	7.51	mV
553	Pier 2	188320.50	179929.50	0	0	0	0	0	0	7	7.21	mV
554	Pier 2	188311.50	179925.00	0	0	0	0	0	0	1	18.57	mV
555	Pier 2	188306.83	179925.01	0	0	0	0	0	0	1	36.04	mV
556	Pier 2	188307.00	179930.50	0	0	0	0	0	0	1	24.42	mV
557	Pier 2	188302.95	179931.95	0	0	0	0	0	0	1	144.47	mV
558	Pier 2	188300.50	179932.50	0	0	0	0	0	0	1	71.40	mV
559	Pier 2	188299.00	179935.50	0	0	0	0	0	0	1	49.40	mV
560	Pier 2	188303.00	179937.50	0	0	0	0	0	0	1	47.86	mV
561	Pier 2	188305.35	179936.64	0	0	0	0	0	0	1	87.65	mV
562	Pier 2	188307.50	179938.00	0	0	0	0	0	0	1	73.82	mV
563	Pier 2	188306.00	179947.00	0	0	0	0	0	0	1	10.17	mV
564	Pier 2	188306.75	179948.67	0	0	0	0	0	0	1	7.59	mV
565	Pier 2	188305.50	179950.50	0	0	0	0	0	0	1	9.75	mV
566	Pier 2	188307.00	179953.50	0	0	0	0	0	0	1	13.78	mV
567	Pier 2	188305.00	179955.50	0	0	0	0	0	0	1	23.02	mV
568	Pier 2	188307.50	179957.00	0	0	0	0	0	0	1	13.04	mV
569	Pier 2	188310.50	179958.00	0	0	0	0	0	0	1	7.79	mV
570	Pier 2	188319.00	179952.50	0	0	0	0	0	0	1	106.75	mV
571	Pier 2	188321.89	179960.17	0	0	0	0	0	0	1	79.96	mV
572	Pier 2	188329.54	179957.17	0	0	0	0	0	0	7	7.55	mV
573	Pier 2	188330.46	179956.79	0	0	0	0	0	0	7	8.46	mV
574	Pier 2	188326.50	179950.50	0	0	0	0	0	0	1	9.11	mV
575	Pier 2	188329.04	179945.89	0	0	0	0	0	0	7	9.72	mV
576	Pier 2	188330.78	179949.66	0	0	0	0	0	0	7	8.20	mV
577	Pier 2	188333.00	179951.50	0	0	0	0	0	0	1	24.42	mV
578	Pier 2	188336.88	179949.39	0	0	0	0	0	0	1	23.83	mV
579	Pier 2	188339.06	179944.85	0	0	0	0	0	0	7	9.18	mV
580	Pier 2	188339.10	179933.93	0	0	0	0	0	0	7	7.98	mV
581	Pier 2	188338.45	179931.47	0	0	0	0	0	0	7	7.55	mV
582	Pier 2	188344.64	179940.81	0	0	0	0	0	0	7	7.60	mV
583	Pier 2	188345.52	179940.33	0	0	0	0	0	0	7	8.48	mV
584	Pier 2	188351.77	179939.28	0	0	0	0	0	0	7	8.06	mV
585	Pier 2	188346.14	179945.67	0	0	0	0	0	0	7	9.22	mV
586	Pier 2	188351.03	179951.37	0	0	0	0	0	0	7	8.13	mV
587	Pier 2	188348.75	179955.41	0	0	0	0	0	0	7	7.19	mV
588	Pier 2	188343.50	179962.50	0	0	0	0	0	0	1	66.28	mV
589	Pier 2	188340.00	179964.00	0	0	0	0	0	0	1	101.49	mV
590	Pier 2	188328.00	179969.50	0	0	0	0	0	0	7	8.49	mV
591	Pier 2	188328.00	179972.00	0	0	0	0	0	0	7	7.63	mV
592	Pier 2	188317.00	179975.50	0	0	0	0	0	0	1	130.69	mV
593	Pier 2	188314.00	179979.50	0	0	0	0	0	0	1	184.97	mV
594	Pier 2	188315.00	179983.00	0	0	0	0	0	0	1	26.01	mV
595	Pier 2	188308.50	179982.00	0	0	0	0	0	0	1	46.68	mV
596	Pier 2	188306.50	179983.00	0	0	0	0	0	0	1	12.20	mV
597	Pier 2	188307.50	179986.00	0	0	0	0	0	0	10	7.98	mV
598	Pier 2	188310.50	179989.50	0	0	0	0	0	0	1	353.26	mV
599	Pier 2	188313.00	179988.50	0	0	0	0	0	0	1	16.87	mV
600	Pier 2	188314.50	179987.00	0	0	0	0	0	0	1	7.85	mV
601	Pier 2	188315.43	179986.68	0	0	0	0	0	0	1	9.26	mV
602	Pier 2	188314.03	179990.80	0	0	0	0	0	0	1	17.54	mV
603	Pier 2	188313.50	179996.50	0	0	0	0	0	0	1	43.20	mV
604	Pier 2	188315.64	179994.94	0	0	0	0	0	0	1	24.72	mV
605	Pier 2	188321.42	179995.74	0	0	0	0	0	0	1	16.38	mV
606	Pier 2	188332.06	179985.58	0	0	0	0	0	0	1	58.68	mV
607	Pier 2	188348.40	179989.54	0	0	0	0	0	0	7	7.11	mV
608	Pier 2	188345.00	180002.00	0	0	0	0	0	0	1	14.88	mV
609	Pier 2	188359.00	180006.00	0	0	0	0	0	0	1	166.35	mV

610	Pier 2	188361.00	180004.00	0	0	0	0	0	0	1	22.05	mV
611	Pier 2	188367.03	180003.10	0	0	0	0	0	0	7	8.13	mV
612	Pier 2	188365.55	179997.84	0	0	0	0	0	0	7	9.29	mV
613	Pier 2	188364.61	179998.18	0	0	0	0	0	0	7	10.13	mV
614	Pier 2	188362.50	179994.00	0	0	0	0	0	0	7	7.21	mV
615	Pier 2	188370.93	179992.16	0	0	0	0	0	0	7	8.15	mV
616	Pier 2	188370.70	180000.59	0	0	0	0	0	0	7	7.93	mV
617	Pier 2	188373.00	180006.50	0	0	0	0	0	0	7	8.32	mV
618	Pier 2	188382.70	180012.49	0	0	0	0	0	0	7	7.36	mV
619	Pier 2	188382.19	180013.57	0	0	0	0	0	0	7	8.00	mV
620	Pier 2	188386.03	180017.09	0	0	0	0	0	0	1	10.42	mV
621	Pier 2	188385.07	180017.37	0	0	0	0	0	0	1	10.63	mV
622	Pier 2	188381.45	180023.21	0	0	0	0	0	0	7	8.86	mV
623	Pier 2	188383.90	180026.90	0	0	0	0	0	0	7	7.79	mV
624	Pier 2	188386.57	180035.30	0	0	0	0	0	0	7	7.37	mV
625	Pier 2	188391.93	180040.09	0	0	0	0	0	0	1	10.90	mV
626	Pier 2	188391.00	180034.50	0	0	0	0	0	0	7	8.04	mV
627	Pier 2	188389.84	180034.22	0	0	0	0	0	0	7	8.03	mV
628	Pier 2	188390.46	180032.26	0	0	0	0	0	0	7	7.15	mV
629	Pier 2	188397.15	180032.22	0	0	0	0	0	0	7	8.46	mV
630	Pier 2	188399.47	180037.22	0	0	0	0	0	0	7	7.67	mV
631	Pier 2	188401.03	180040.03	0	0	0	0	0	0	7	8.08	mV
632	Pier 2	188400.52	180051.37	0	0	0	0	0	0	9	7.24	mV
633	Pier 2	188401.64	180055.78	0	0	0	0	0	0	7	7.48	mV
634	Pier 2	188400.82	180056.41	0	0	0	0	0	0	7	7.20	mV
635	Pier 2	188404.05	180058.13	0	0	0	0	0	0	7	7.62	mV
636	Pier 2	188404.92	180057.64	0	0	0	0	0	0	7	7.99	mV
637	Pier 2	188407.92	180066.52	0	0	0	0	0	0	7	8.31	mV
638	Pier 2	188406.00	180066.00	0	0	0	0	0	0	7	7.68	mV
639	Pier 2	188401.00	180069.00	0	0	0	0	0	0	7	7.03	mV
640	Pier 2	188383.93	180068.00	0	0	0	0	0	0	1	8.91	mV
641	Pier 2	188373.75	180057.83	0	0	0	0	0	0	9	7.11	mV
642	Pier 2	188363.50	180057.50	0	0	0	0	0	0	1	22.17	mV
643	Pier 2	188360.50	180058.50	0	0	0	0	0	0	1	9.24	mV
644	Pier 2	188337.82	180050.07	0	0	0	0	0	0	1	99.79	mV
645	Pier 2	188331.00	180043.50	0	0	0	0	0	0	1	39.48	mV
646	Pier 2	188333.50	180081.50	0	0	0	0	0	0	1	11.59	mV
647	Pier 2	188320.16	180088.22	0	0	0	0	0	0	1	18.64	mV
648	Pier 2	188302.50	180077.00	0	0	0	0	0	0	10	77.93	mV
649	Pier 2	188306.37	180087.80	0	0	0	0	0	0	1	1409.59	mV
650	Pier 2	188303.50	180088.50	0	0	0	0	0	0	1	200.93	mV
651	Pier 2	188287.50	180089.00	0	0	0	0	0	0	7	7.74	mV
652	Pier 2	188287.00	180092.50	0	0	0	0	0	0	7	8.12	mV
653	Pier 2	188285.98	180092.95	0	0	0	0	0	0	7	7.75	mV
654	Pier 2	188281.91	180091.68	0	0	0	0	0	0	7	7.57	mV
655	Pier 2	188280.55	180089.49	0	0	0	0	0	0	7	10.57	mV
656	Pier 2	188279.32	180087.51	0	0	0	0	0	0	7	7.71	mV
657	Pier 2	188278.30	180087.98	0	0	0	0	0	0	1	15.84	mV
658	Pier 2	188278.22	180102.65	0	0	0	0	0	0	7	7.19	mV
659	Pier 2	188275.00	180106.50	0	0	0	0	0	0	1	38.58	mV
660	Pier 2	188279.28	180106.08	0	0	0	0	0	0	7	7.47	mV
661	Pier 2	188282.37	180104.29	0	0	0	0	0	0	7	7.17	mV
662	Pier 2	188286.00	180103.00	0	0	0	0	0	0	7	8.31	mV
663	Pier 2	188287.00	180104.50	0	0	0	0	0	0	7	9.28	mV
664	Pier 2	188286.69	180108.27	0	0	0	0	0	0	7	7.03	mV
665	Pier 2	188295.24	180106.31	0	0	0	0	0	0	7	7.37	mV
666	Pier 2	188291.61	180115.53	0	0	0	0	0	0	7	9.96	mV
667	Pier 2	188293.50	180117.72	0	0	0	0	0	0	7	9.46	mV
668	Pier 2	188294.50	180118.98	0	0	0	0	0	0	7	8.32	mV
669	Pier 2	188297.57	180122.17	0	0	0	0	0	0	7	7.68	mV
670	Pier 2	188298.69	180126.01	0	0	0	0	0	0	6	6.64	mV

671	Pier 2	188299.21	180129.45	0	0	0	0	0	0	7	8.43	mV
672	Pier 2	188293.98	180124.40	0	0	0	0	0	0	1	24.04	mV
673	Pier 2	188292.07	180126.83	0	0	0	0	0	0	1	20.87	mV
674	Pier 2	188290.00	180126.50	0	0	0	0	0	0	1	8.86	mV
675	Pier 2	188289.19	180133.21	0	0	0	0	0	0	7	7.21	mV
676	Pier 2	188289.08	180134.82	0	0	0	0	0	0	7	9.76	mV
677	Pier 2	188247.82	180142.85	0	0	0	0	0	0	1	10.71	mV
678	Pier 2	188246.88	180143.18	0	0	0	0	0	0	1	10.83	mV
679	Pier 2	188243.56	180137.60	0	0	0	0	0	0	7	8.54	mV
680	Pier 2	188245.22	180136.01	0	0	0	0	0	0	7	7.85	mV
681	Pier 2	188236.48	180120.41	0	0	0	0	0	0	1	15.03	mV
682	Pier 2	188240.20	180118.89	0	0	0	0	0	0	1	18.67	mV
683	Pier 2	188252.96	180116.74	0	0	0	0	0	0	1	9.35	mV
684	Pier 2	188244.71	180109.85	0	0	0	0	0	0	6	6.59	mV
685	Pier 2	188231.30	180107.80	0	0	0	0	0	0	7	8.15	mV
686	Pier 2	188228.73	180100.37	0	0	0	0	0	0	7	7.86	mV
687	Pier 2	188227.07	180095.22	0	0	0	0	0	0	7	7.93	mV
688	Pier 2	188226.10	180095.46	0	0	0	0	0	0	7	7.31	mV
689	Pier 2	188221.47	180087.76	0	0	0	0	0	0	7	7.40	mV
690	Pier 2	188230.00	180078.50	0	0	0	0	0	0	1	13.44	mV
691	Pier 2	188230.50	180063.50	0	0	0	0	0	0	1	10.63	mV
692	Pier 2	188220.50	180048.00	0	0	0	0	0	0	1	9.84	mV
693	Pier 2	188213.09	180066.01	0	0	0	0	0	0	7	7.84	mV
694	Pier 2	188212.11	180066.24	0	0	0	0	0	0	7	7.62	mV
695	Pier 2	188211.62	180062.94	0	0	0	0	0	0	7	8.66	mV
696	Pier 2	188206.18	180057.59	0	0	0	0	0	0	7	7.54	mV
697	Pier 2	188201.70	180047.59	0	0	0	0	0	0	7	7.24	mV
698	Pier 2	188198.82	180037.63	0	0	0	0	0	0	7	7.47	mV
699	Pier 2	188211.00	180015.00	0	0	0	0	0	0	1	128.99	mV
700	Pier 2	188207.72	179991.10	0	0	0	0	0	0	1	275.20	mV
701	Pier 2	188199.00	179999.50	0	0	0	0	0	0	7	8.84	mV
702	Pier 2	188183.90	180010.13	0	0	0	0	0	0	7	7.55	mV
703	Pier 2	188184.72	180009.20	0	0	0	0	0	0	7	9.53	mV
704	Pier 2	188172.32	179978.52	0	0	0	0	0	0	7	7.65	mV
705	Pier 2	188156.00	179976.50	0	0	0	0	0	0	1	60.84	mV
706	Pier 2	188160.00	179975.00	0	0	0	0	0	0	1	354.34	mV
707	Pier 2	188162.54	179974.03	0	0	0	0	0	0	1	7.60	mV
708	Pier 2	188173.00	179967.50	0	0	0	0	0	0	7	7.11	mV
709	Pier 2	188165.56	179963.00	0	0	0	0	0	0	1	7.00	mV
710	Pier 2	188164.94	179963.98	0	0	0	0	0	0	7	7.67	mV
711	Pier 2	188162.73	179964.15	0	0	0	0	0	0	1	9.92	mV
712	Pier 2	188155.00	179959.00	0	0	0	0	0	0	1	16.61	mV
713	Pier 2	188150.41	179960.48	0	0	0	0	0	0	1	40.43	mV
714	Pier 2	188129.02	179916.74	0	0	0	0	0	0	1	9.62	mV
715	Pier 2	188133.00	179926.00	0	0	0	0	0	0	1	7.45	mV
716	Pier 2	188135.50	179927.00	0	0	0	0	0	0	1	9.37	mV
717	Pier 2	188138.75	179925.71	0	0	0	0	0	0	1	166.79	mV
718	Pier 2	188144.80	179921.40	0	0	0	0	0	0	7	9.36	mV
719	Pier 2	188145.74	179921.06	0	0	0	0	0	0	7	9.50	mV
720	Pier 2	188142.86	179918.16	0	0	0	0	0	0	7	11.00	mV
721	Pier 2	188141.50	179917.00	0	0	0	0	0	0	7	7.26	mV
722	Pier 2	188147.56	179914.64	0	0	0	0	0	0	1	12.04	mV
723	Pier 2	188151.48	179923.69	0	0	0	0	0	0	1	133.61	mV
724	Pier 2	188148.00	179929.00	0	0	0	0	0	0	1	9.91	mV
725	Pier 2	188149.93	179932.24	0	0	0	0	0	0	7	8.24	mV
726	Pier 2	188163.00	179933.50	0	0	0	0	0	0	1	7.26	mV
727	Pier 2	188162.00	179919.50	0	0	0	0	0	0	10	102.84	mV
728	Pier 2	188172.94	179925.84	0	0	0	0	0	0	1	7.64	mV
729	Pier 2	188185.00	179912.00	0	0	0	0	0	0	1	8.54	mV
730	Pier 2	188189.63	179903.08	0	0	0	0	0	0	7	7.41	mV
731	Pier 2	188192.00	179906.00	0	0	0	0	0	0	1	18.35	mV

732	Pier 2	188193.04	179904.88	0	0	0	0	0	0	7	11.50	mV
733	Pier 2	188194.67	179906.09	0	0	0	0	0	0	7	7.64	mV
734	Pier 2	188194.50	179900.50	0	0	0	0	0	0	1	8.66	mV
735	Pier 2	188198.52	179900.40	0	0	0	0	0	0	7	11.18	mV
736	Pier 2	188198.38	179897.63	0	0	0	0	0	0	7	8.29	mV
737	Pier 2	188195.50	179892.00	0	0	0	0	0	0	1	190.01	mV
738	Pier 2	188193.50	179893.50	0	0	0	0	0	0	1	66.46	mV
739	Pier 2	188188.30	179894.30	0	0	0	0	0	0	6	6.06	mV
740	Pier 2	188189.28	179891.22	0	0	0	0	0	0	7	8.54	mV
741	Pier 2	188188.47	179889.64	0	0	0	0	0	0	7	7.35	mV
742	Pier 2	188187.00	179890.00	0	0	0	0	0	0	1	7.17	mV
743	Pier 2	188184.50	179891.00	0	0	0	0	0	0	1	10.05	mV
744	Pier 2	188183.07	179895.53	0	0	0	0	0	0	1	16.54	mV
745	Pier 2	188184.04	179897.38	0	0	0	0	0	0	1	14.83	mV
746	Pier 2	188182.00	179899.50	0	0	0	0	0	0	7	7.73	mV
747	Pier 2	188181.47	179897.84	0	0	0	0	0	0	1	8.97	mV
748	Pier 2	188177.00	179899.00	0	0	0	0	0	0	1	17.89	mV
749	Pier 2	188174.59	179900.81	0	0	0	0	0	0	1	39.17	mV
750	Pier 2	188167.00	179904.00	0	0	0	0	0	0	1	11.80	mV
751	Pier 2	188170.16	179897.81	0	0	0	0	0	0	1	7.35	mV
752	Pier 2	188173.00	179897.00	0	0	0	0	0	0	7	8.65	mV
753	Pier 2	188174.68	179896.12	0	0	0	0	0	0	1	9.06	mV
754	Pier 2	188176.00	179889.00	0	0	0	0	0	0	1	14.07	mV
755	Pier 2	188158.50	179885.50	0	0	0	0	0	0	1	23.44	mV
756	Pier 2	188158.00	179888.50	0	0	0	0	0	0	1	40.44	mV
757	Pier 2	188150.41	179889.09	0	0	0	0	0	0	1	9764.05	mV
758	Pier 2	188152.68	179875.81	0	0	0	0	0	0	1	8.93	mV
759	Pier 2	188149.00	179868.00	0	0	0	0	0	0	1	1804.77	mV
760	Pier 2	188143.00	179874.50	0	0	0	0	0	0	1	1402.46	mV
761	Pier 2	188137.32	179870.95	0	0	0	0	0	0	1	17011.11	mV
762	Pier 2	188129.80	179890.56	0	0	0	0	0	0	7	8.01	mV
763	Pier 2	188112.00	179883.00	0	0	0	0	0	0	1	102.48	mV
764	Pier 2	188115.50	179882.12	0	0	0	0	0	0	1	363.08	mV
765	Pier 2	188121.77	179879.53	0	0	0	0	0	0	1	8.14	mV
766	Pier 2	188122.69	179879.78	0	0	0	0	0	0	1	7.06	mV
767	Pier 2	188123.32	179876.28	0	0	0	0	0	0	7	11.44	mV
768	Pier 2	188124.18	179875.81	0	0	0	0	0	0	7	8.48	mV
769	Pier 2	188122.83	179873.99	0	0	0	0	0	0	7	8.51	mV
770	Pier 2	188121.76	179871.86	0	0	0	0	0	0	7	8.68	mV
771	Pier 2	188126.23	179868.82	0	0	0	0	0	0	1	7.27	mV
772	Pier 2	188126.51	179867.34	0	0	0	0	0	0	6	6.30	mV
773	Pier 2	188117.55	179863.55	0	0	0	0	0	0	7	9.42	mV
774	Pier 2	188117.48	179861.53	0	0	0	0	0	0	7	12.49	mV
775	Pier 2	188117.29	179860.04	0	0	0	0	0	0	7	8.50	mV
776	Pier 2	188116.44	179858.39	0	0	0	0	0	0	7	11.66	mV
777	Pier 2	188114.86	179858.09	0	0	0	0	0	0	7	10.01	mV
778	Pier 2	188113.98	179858.58	0	0	0	0	0	0	7	8.68	mV
779	Pier 2	188110.28	179854.12	0	0	0	0	0	0	7	7.27	mV
780	Pier 2	188111.65	179850.48	0	0	0	0	0	0	7	9.48	mV
781	Pier 2	188116.00	179845.50	0	0	0	0	0	0	10	12.27	mV
782	Pier 2	188112.00	179844.50	0	0	0	0	0	0	7	9.52	mV
783	Pier 2	188106.93	179844.61	0	0	0	0	0	0	1	20481.97	mV
784	Pier 2	188104.00	179848.50	0	0	0	0	0	0	1	8.64	mV
785	Pier 2	188102.00	179851.00	0	0	0	0	0	0	1	9.86	mV
786	Pier 2	188103.06	179852.81	0	0	0	0	0	0	7	7.21	mV
787	Pier 2	188100.83	179859.42	0	0	0	0	0	0	1	626.64	mV
788	Pier 2	188099.03	179852.71	0	0	0	0	0	0	1	45.97	mV
789	Pier 2	188101.50	179844.00	0	0	0	0	0	0	1	17.34	mV
790	Pier 2	188103.50	179843.00	0	0	0	0	0	0	1	8.81	mV
791	Pier 2	188100.50	179838.50	0	0	0	0	0	0	1	14.83	mV
792	Pier 2	188091.50	179839.50	0	0	0	0	0	0	1	7.06	mV

793	Pier 2	188370.22	180027.36	188357.9	180049	188387.8	180068.7	188405	180048.9	8	999.00	mV
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NWS Earle  
SSS Survey Targets

**Pier 1 Additional Side Scan Sonar Targets**

<b>Target ID</b>	<b>Longitude</b> WGS84	<b>Latitude</b> WGS84	<b>Easting</b> NAD83 NJ State Plane, Meters	<b>Northing</b> NAD83 NJ State Plane, Meters	<b>Length</b> meters	<b>Width</b> meters	<b>Height</b> meters
1-1	-74.03.35.598	40.26.25.908	187336.5307	178518.4873	2.27	0.88	0.34
1-2	-74.03.35.358	40.26.25.908	187342.1863	178518.5155	1.41	0.45	0.58
1-3	-74.03.35.064	40.26.25.872	187349.12	178517.4397	1.45	0.94	0.79
1-4	-74.03.33.882	40.26.25.926	187376.9657	178519.2441	0.98	0.77	0.11
1-5	-74.03.33.462	40.26.26.202	187386.8206	178527.8059	0.65	0.28	0.1
1-6	-74.03.33.312	40.26.26.388	187390.3267	178533.5603	3.85	0.53	0.13
1-7	-74.03.33.180	40.26.26.550	187393.4124	178538.5722	6.49	0.27	0.23
1-8	-74.03.33.132	40.26.26.802	187394.5047	178546.3502	0.65	0.26	0.15
1-9	-74.03.32.550	40.26.27.468	187408.117	178566.9596	6.94	0.3	0.24
1-10	-74.03.32.514	40.26.27.534	187408.9552	178568.9995	2.2	0.39	0.31
1-11	-74.03.32.160	40.26.28.032	187417.2205	178584.4006	6.87	0.53	0.26
1-12	-74.03.32.034	40.26.28.518	187420.1148	178599.4048	1.39	0.8	0.12
1-13	-74.03.31.278	40.26.29.580	187437.7662	178632.2484	1.07	0.8	0.26
1-14	-74.03.31.014	40.26.30.012	187443.9207	178645.6034	1.6	0.63	0.23
1-15	-74.03.30.612	40.26.30.480	187453.3216	178660.085	1.47	0.33	0.44
1-16	-74.03.30.408	40.26.30.702	187458.0946	178666.956	4.18	0.24	0.27
1-17	-74.03.30.228	40.26.30.906	187462.3047	178673.2691	2.04	1.1	0.19
1-18	-74.03.30.174	40.26.30.984	187463.5652	178675.6812	1.65	1.75	0.25
1-19	-74.03.30.312	40.26.31.206	187460.2791	178682.5119	1.07	0.32	0.46
1-20	-74.03.30.138	40.26.31.254	187464.3719	178684.0129	0.86	0.56	0.59
1-21	-74.03.29.910	40.26.31.602	187469.691	178694.7729	8.67	0.18	0.38
1-22	-74.03.29.796	40.26.31.686	187472.3644	178697.3771	8.11	0.4	0.72
1-23	-74.03.29.724	40.26.31.728	187474.0545	178698.6809	8.39	0.31	1.09
1-24	-74.03.29.508	40.26.31.962	187479.1084	178705.9235	4.98	0.38	0.4
1-25	-74.03.29.556	40.26.32.094	187477.9569	178709.989	1.65	0.35	0.59
1-26	-74.03.29.664	40.26.31.758	187475.4638	178699.6133	7.18	0.8	1.38
1-27	-74.03.29.286	40.26.32.328	187484.2832	178717.238	0.77	0.43	0.36
1-28	-74.03.28.998	40.26.32.832	187490.992	178732.8165	8.24	0.6	0.27
1-29	-74.03.28.962	40.26.32.784	187491.8478	178731.3403	9.2	0.81	0.44
1-30	-74.03.29.292	40.26.32.328	187484.1419	178717.2373	0.58	0.22	0.42
1-31	-74.03.28.842	40.26.33.078	187494.6301	178740.4221	0.89	0.78	0.21
1-32	-74.03.28.608	40.26.33.450	187500.0868	178751.9231	1.92	0.43	0.17
1-33	-74.03.28.014	40.26.34.206	187513.9673	178775.31	1.14	0.34	0.3
1-34	-74.03.27.900	40.26.34.440	187516.6175	178782.5406	3.12	0.77	0.25
1-35	-74.03.27.876	40.26.34.638	187517.1525	178788.6502	1.39	0.24	0.23
1-36	-74.03.27.378	40.26.35.166	187528.8059	178804.9937	2.22	0.69	0.76
1-37	-74.03.27.024	40.26.35.616	187537.0781	178818.9146	1.84	0.52	0.47
1-38	-74.03.26.994	40.26.35.868	187537.7461	178826.6904	5.77	0	0.43
1-39	-74.03.26.922	40.26.35.946	187539.4307	178829.1046	5.75	0.85	0.36
1-40	-74.03.26.988	40.26.35.736	187537.9079	178822.6199	8.84	0.45	0.23
1-41	-74.03.26.862	40.26.35.874	187540.8556	178826.891	9.92	0.22	0.15
1-42	-74.03.26.694	40.26.36.396	187544.7338	178843.0106	1.17	0.63	0.33
1-43	-74.03.25.728	40.26.37.620	187567.3074	178880.8758	1.37	1.16	0.25
1-44	-74.03.25.800	40.26.37.692	187565.5997	178883.0879	3.17	0.13	0.2
1-45	-74.03.25.380	40.26.38.034	187575.4436	178893.6857	1.17	1.01	0.41
1-46	-74.03.25.386	40.26.38.190	187575.2781	178898.4964	0.56	0.24	0.32
1-47	-74.03.25.326	40.26.38.424	187576.6558	178905.7206	1.33	0.27	0.26

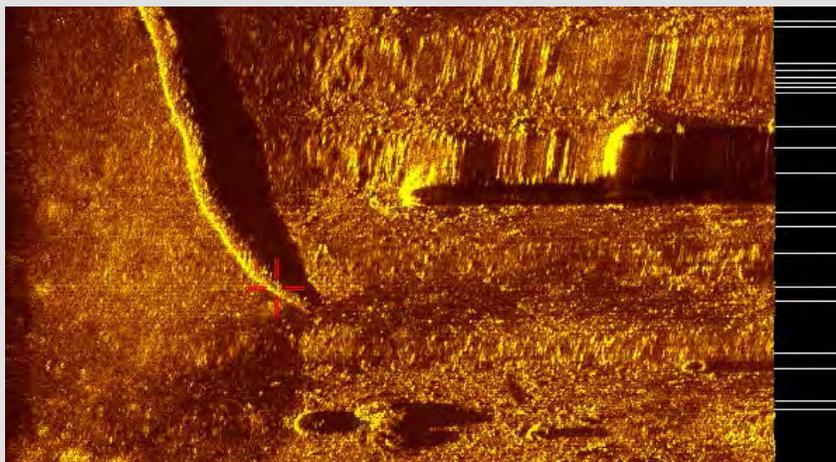
**Pier 1 Additional Side Scan Sonar Targets**

<b>Target ID</b>	<b>Longitude</b> WGS84	<b>Latitude</b> WGS84	<b>Easting</b> NAD83 NJ State Plane, Meters	<b>Northing</b> NAD83 NJ State Plane, Meters	<b>Length</b> meters	<b>Width</b> meters	<b>Height</b> meters
1-48	-74.03.25.098	40.26.38.550	187582.0089	178909.6337	0.44	0.57	0.52
1-49	-74.03.25.002	40.26.38.694	187584.2487	178914.0863	0.36	0.13	0.58
1-50	-74.03.24.744	40.26.38.958	187590.2873	178922.2592	2.43	0.4	0.39
1-51	-74.03.24.984	40.26.38.988	187584.6274	178923.1561	0.27	0.3	0.94
1-52	-74.03.24.888	40.26.38.754	187586.9257	178915.9503	6.72	0.39	0.36
1-53	-74.03.24.834	40.26.38.868	187588.1805	178919.4728	7.46	0.56	0.4
1-54	-74.03.24.738	40.26.38.958	187590.4287	178922.2599	2.68	0.32	0.45
1-55	-74.03.24.792	40.26.39.096	187589.1349	178926.5098	0.58	0.56	0.98
1-56	-74.03.24.696	40.26.39.234	187591.3757	178930.7774	6.56	0.66	0.33
1-57	-74.03.24.438	40.26.39.510	187597.4125	178939.3204	0.66	0.27	0.87
1-58	-74.03.24.366	40.26.39.480	187599.1137	178938.4036	0.45	0.56	0.59
1-59	-74.03.24.378	40.26.39.702	187598.7966	178945.2492	2.05	0.42	0.94
1-60	-74.03.24.270	40.26.40.068	187601.2848	178956.5503	0.4	2.97	1.86
1-61	-74.03.23.760	40.26.40.494	187613.2364	178969.7495	0.87	1.56	0.72
1-62	-74.03.23.574	40.26.40.968	187617.5458	178984.3908	1.19	0.27	0.3
1-63	-74.03.22.836	40.26.41.760	187634.8131	179008.9053	0.75	0.61	0.26
1-64	-74.03.22.836	40.26.41.874	187634.7954	179012.4213	1.34	1.05	0.46
1-65	-74.03.22.008	40.26.42.738	187654.1722	179039.1672	0.93	0.77	0.39
1-66	-74.03.21.618	40.26.42.510	187663.3973	179032.1813	2	0.67	0.6
1-67	-74.03.21.324	40.26.42.912	187670.2626	179044.6148	0.52	0.4	0.13
1-68	-74.03.32.496	40.26.28.434	187409.2408	178596.7597	7.36	0.54	0.23
1-69	-74.03.31.110	40.26.30.384	187441.6012	178657.0655	0.77	0.49	0.26
1-70	-74.03.30.270	40.26.31.242	187461.2632	178683.6272	0.4	0.44	0.45
1-71	-74.03.29.352	40.26.32.868	187482.6447	178733.8851	0.73	0.41	0.19
1-72	-74.03.28.656	40.26.34.098	187498.8557	178771.9033	1.96	1.45	0.82
1-73	-74.03.28.698	40.26.34.110	187497.8641	178772.2684	0.21	0.29	0.88
1-74	-74.03.25.434	40.26.38.850	187574.045	178918.8467	0.52	0.42	1.52
1-75	-74.03.25.068	40.26.39.102	187582.6304	178926.6622	1.49	0.54	0.27
1-76	-74.03.24.216	40.26.40.560	187602.4811	178971.7312	0.28	0.62	0.55
1-77	-74.03.23.892	40.26.41.142	187610.0256	178989.7197	1.05	0.97	0.61
1-78	-74.03.23.826	40.26.41.376	187611.5446	178996.9447	0.61	0.72	1.11
1-79	-74.03.23.082	40.26.42.156	187628.9551	179021.0898	0.99	1.76	0.61
1-80	-74.03.23.178	40.26.42.270	187626.6753	179024.5944	1.09	1.07	0.78
1-81	-74.03.23.154	40.26.42.258	187627.2427	179024.2272	1.68	1.52	0.75
1-82	-74.03.23.172	40.26.42.192	187626.8288	179022.1895	1.05	1.27	0.63
1-83	-74.03.23.202	40.26.42.078	187626.1396	179018.6699	1.55	0.57	0.58
1-84	-74.03.23.142	40.26.41.976	187627.5692	179015.531	0.66	0.86	0.31
1-85	-74.03.22.746	40.26.42.408	187636.8334	179028.9018	1.03	0.53	0.31
1-86	-74.03.22.944	40.26.42.504	187632.153	179031.8393	1.65	0.7	0.72
1-87	-74.03.22.296	40.26.43.020	187647.3422	179047.8307	0.4	0.42	0.62
1-88	-74.03.32.544	40.26.28.620	187408.081	178602.4908	3.77	0.2	0.22
1-89	-74.03.29.622	40.26.32.808	187476.2915	178732.0027	5.19	0.44	0.17
1-90	-74.03.24.864	40.26.40.044	187587.2916	178955.7399	0.46	0.34	0.41
1-91	-74.03.23.826	40.26.41.196	187611.5725	178991.393	0.61	0.68	0.47
1-92	-74.03.23.814	40.26.41.406	187611.8227	178997.8714	0.72	0.57	1.26
1-93	-74.03.23.802	40.26.41.862	187612.0349	179011.9369	0.75	0.71	0.92
1-94	-74.03.22.920	40.26.42.522	187632.7157	179032.3973	1.12	0.66	0.65
1-95	-74.03.22.986	40.26.42.690	187631.1345	179037.571	0.23	0.24	0.5
1-96	-74.03.34.518	40.26.26.700	187361.8592	178543.0413	1.01	0.95	0.23

**Pier 1 Additional Side Scan Sonar Targets**

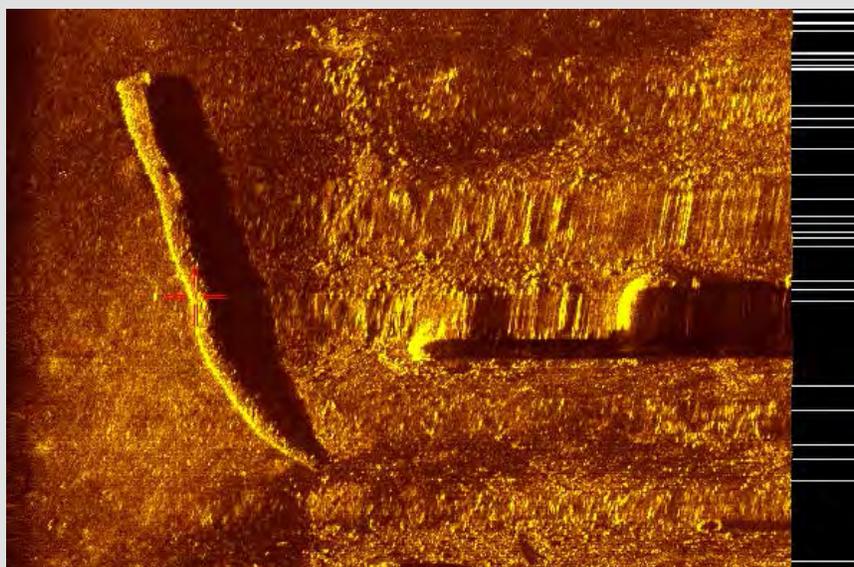
<b>Target ID</b>	<b>Longitude</b> WGS84	<b>Latitude</b> WGS84	<b>Easting</b> NAD83 NJ State Plane, Meters	<b>Northing</b> NAD83 NJ State Plane, Meters	<b>Length</b> meters	<b>Width</b> meters	<b>Height</b> meters
1-97	-74.03.25.962	40.26.39.078	187561.568	178925.8164	0.5	0.4	0.33
1-98	-74.03.23.760	40.26.41.904	187613.018	179013.2373	0.54	0.86	0.75
1-99	-74.03.23.082	40.26.43.110	187628.8073	179050.5134	0.58	0.58	0.52
1-100	-74.03.34.578	40.26.26.856	187360.4213	178547.8457	0.53	0.54	0.21
1-101	-74.03.34.110	40.26.27.624	187371.3316	178571.5876	0.71	0.73	0.12
1-102	-74.03.31.284	40.26.31.548	187437.3215	178692.9455	1.32	0.68	0.26
1-103	-74.03.30.450	40.26.32.772	187456.7857	178730.7948	1.01	0.52	0.98
1-104	-74.03.30.522	40.26.32.952	187455.0613	178736.338	1.29	1	0.3
1-105	-74.03.30.486	40.26.32.784	187455.9355	178731.1607	0.9	0.68	0.81
1-106	-74.03.28.602	40.26.35.466	187499.917	178814.102	2.59	0.49	0.16
1-107	-74.03.26.508	40.26.38.748	187548.7531	178915.5739	1.02	0.56	0.25
1-108	-74.03.25.962	40.26.39.864	187561.4465	178950.0585	1.13	1.03	0.64
1-109	-74.03.25.668	40.26.39.816	187568.3816	178948.6128	1.01	0.41	0.16
1-110	-74.03.24.318	40.26.42.042	187599.8482	179017.4275	1.43	0.48	0.54
1-111	-74.03.24.210	40.26.42.348	187602.3457	179026.8781	2.2	0.48	1.62
1-112	-74.03.34.728	40.26.27.558	187356.7786	178569.4794	1.98	0.51	0.62
1-113	-74.03.34.830	40.26.27.552	187354.3759	178569.2824	0.81	1.39	1.33
1-114	-74.03.30.318	40.26.33.522	187459.7806	178753.9422	0.7	0.46	0.22
1-115	-74.03.29.646	40.26.34.500	187475.465	178784.1852	1.45	0.64	0.68
1-116	-74.03.29.610	40.26.34.578	187476.3012	178786.5951	1.66	0.45	1.07
1-117	-74.03.29.352	40.26.35.202	187482.2845	178805.8712	5.8	1.14	1.27
1-118	-74.03.29.394	40.26.35.220	187481.2921	178806.4214	4.9	1.47	1.26
1-119	-74.03.29.454	40.26.35.292	187479.8671	178808.635	5	1.36	1
1-120	n/a						
1-121	-74.03.27.612	40.26.38.064	187522.8442	178894.3473	2.61	0.9	1.68
1-122	-74.03.27.222	40.26.38.490	187531.9684	178907.5322	0.85	0.56	0.55
1-123	-74.03.25.938	40.26.39.870	187562.0111	178950.2464	2.49	1.3	0.39
1-124	-74.03.24.150	40.26.42.366	187603.7567	179027.4403	1.98	1.12	1.11
1-125	-74.03.22.986	40.26.44.400	187630.8696	179090.3115	0.7	0.54	0.51
1-126	-74.03.23.112	40.26.44.478	187627.8885	179092.7023	3.76	1.11	1.09
1-127	-74.03.24.414	40.26.43.242	187597.4004	179054.427	3.24	0.71	1.82
1-128	-74.03.24.936	40.26.42.126	187585.2729	179019.9452	5.67	1.89	0.85
1-129	-74.03.25.380	40.26.42.078	187574.8181	179018.4123	0.85	0.6	1.07
1-130	-74.03.25.500	40.26.41.562	187572.0703	179002.4834	3.98	1.04	0.63
1-131	-74.03.26.076	40.26.40.860	187558.6062	178980.764	1.04	0.95	0.44
1-132	-74.03.26.136	40.26.40.842	187557.1951	178980.2018	0.78	0.82	0.38
1-133	-74.03.27.576	40.26.38.040	187523.6963	178893.6114	4.19	0.76	1.79
1-134	-74.03.28.560	40.26.37.326	187500.6195	178871.4738	0.87	0.65	0.51
1-135	-74.03.28.782	40.26.36.972	187495.443	178860.5294	1.51	1.59	0.74
1-136	-74.03.31.110	40.26.33.390	187441.1379	178749.7777	1.87	1.17	0.39
1-137	-74.03.31.854	40.26.32.556	187423.7344	178723.9676	1.28	1.3	0.21
1-138	-74.03.32.442	40.26.31.140	187410.0966	178680.2255	6.73	1.29	0.5
1-139	-74.03.32.448	40.26.31.230	187409.9413	178683.0007	6.52	1.02	0.33
1-140	-74.03.33.696	40.26.29.406	187380.8133	178626.5974	0.68	0.7	0.31
1-141	-74.03.34.248	40.26.28.878	187367.8868	178610.2477	0.85	0.9	0.48
1-142	-74.03.34.386	40.26.28.704	187364.6616	178604.8649	1.88	0.59	0.18

### Target-1-1



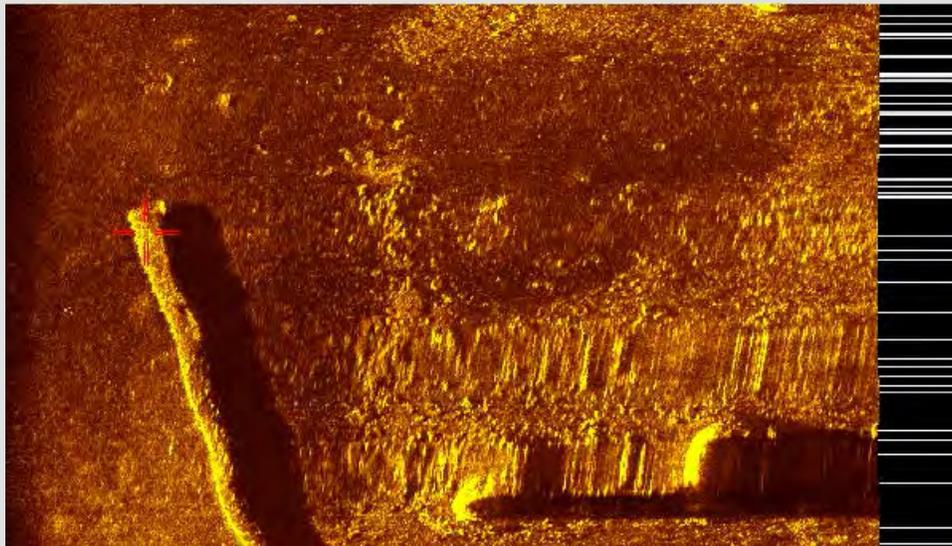
Target Latitude: 40:26.4318 N Target Longitude: 74:03.5933 W  
Heading: 121 Degrees Ground Range: 8.9 Meters to Starboard  
Speed: 1.9 Knots File: 14L.jsf  
Length: 2.27 Meters Width: 0.88 Meters  
Height: 0.34 Meters

### Target-1-2



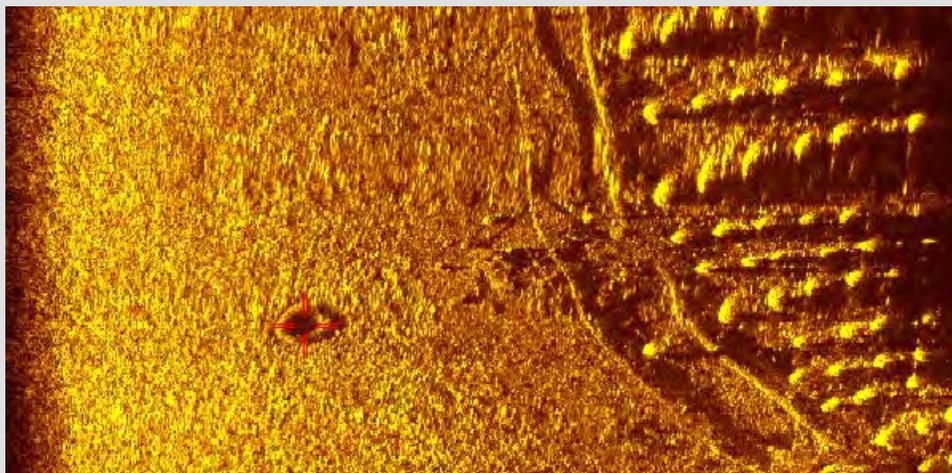
Target Latitude: 40:26.4318 N Target Longitude: 74:03.5893 W  
Heading: 116 Degrees Ground Range: 6.2 Meters to Starboard  
Speed: 2.3 Knots File: 14L.jsf  
Length: 1.41 Meters Width: 0.45 Meters  
Height: 0.58 Meters

### Target-1-3



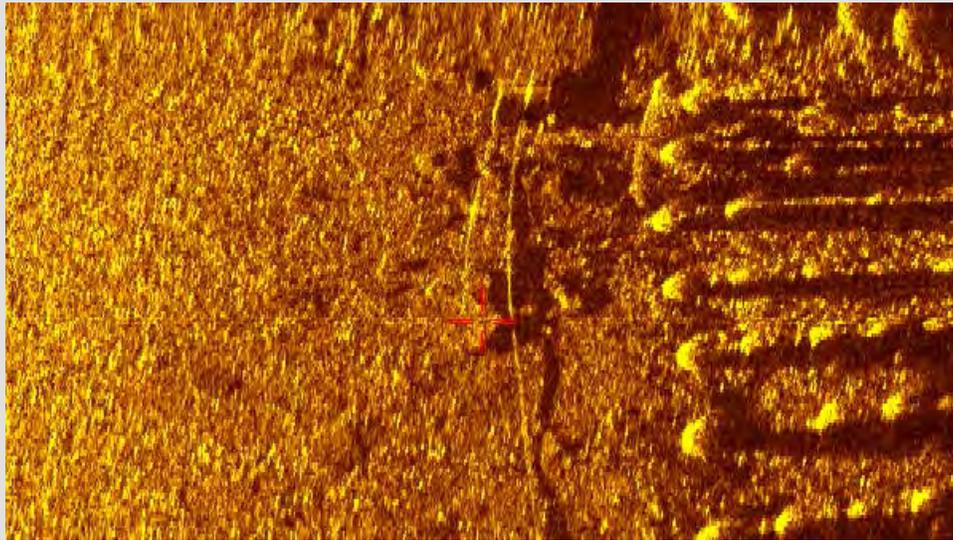
Target Latitude: 40:26.4312 N Target Longitude: 74:03.5844 W  
Heading: 113 Degrees Ground Range: 4.2 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.45 Meters Width: 0.94 Meters  
Height: 0.79 Meters

### Target-1-4



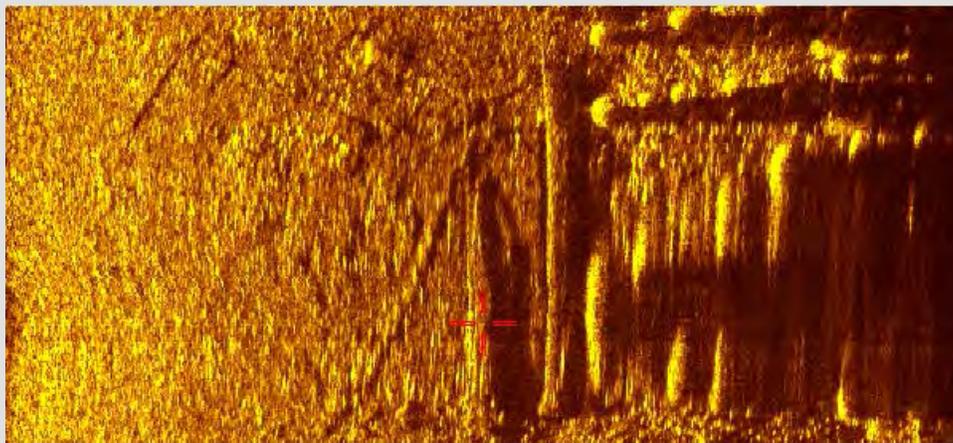
Target Latitude: 40:26.4321 N Target Longitude: 74:03.5647 W  
Heading: 49 Degrees Ground Range: 5.8 Meters to Starboard  
Speed: 2.1 Knots File: 14L.jsf  
Length: 0.98 Meters Width: 0.77 Meters  
Height: 0.11 Meters

### Target-1-5



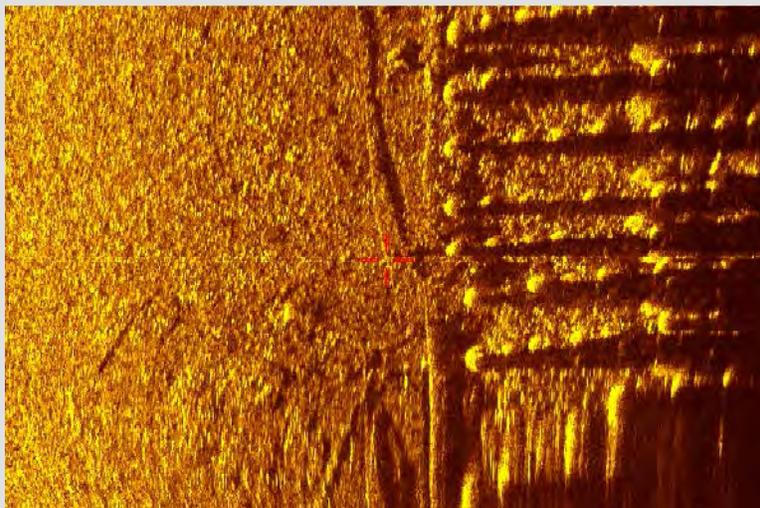
Target Latitude: 40:26.4367 N Target Longitude: 74:03.5577 W  
Heading: 25 Degrees Ground Range: 8.8 Meters to Starboard  
Speed: 2.1 Knots File: 14L.jsf  
Length: 0.65 Meters Width: 0.28 Meters  
Height: 0.10 Meters

### Target-1-6



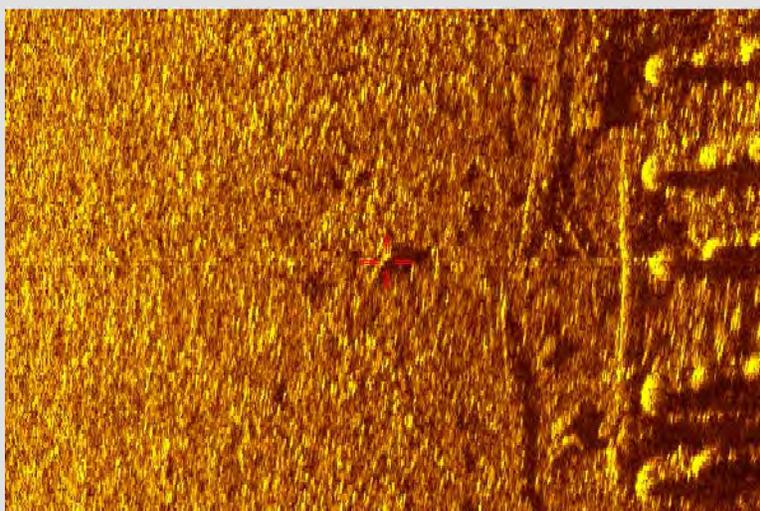
Target Latitude: 40:26.4398 N Target Longitude: 74:03.5552 W  
Heading: 24 Degrees Ground Range: 10.1 Meters to Starboard  
Speed: 2.1 Knots File: 14L.jsf  
Length: 3.85 Meters Width: 0.53 Meters  
Height: 0.13 Meters

### Target-1-7



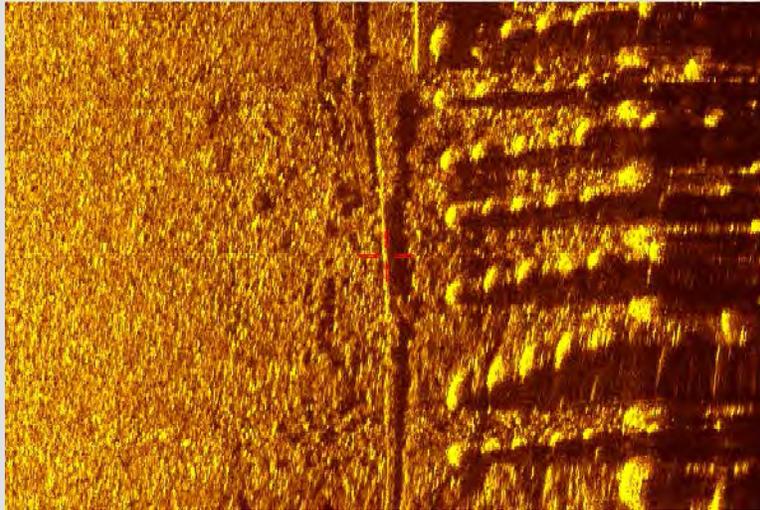
Target Latitude: 40:26.4425 N Target Longitude: 74:03.5530 W  
Heading: 27 Degrees Ground Range: 10.3 Meters to Starboard  
Speed: 2.5 Knots File: 14L.jsf  
Length: 6.49 Meters Width: 0.27 Meters  
Height: 0.23 Meters

### Target-1-8



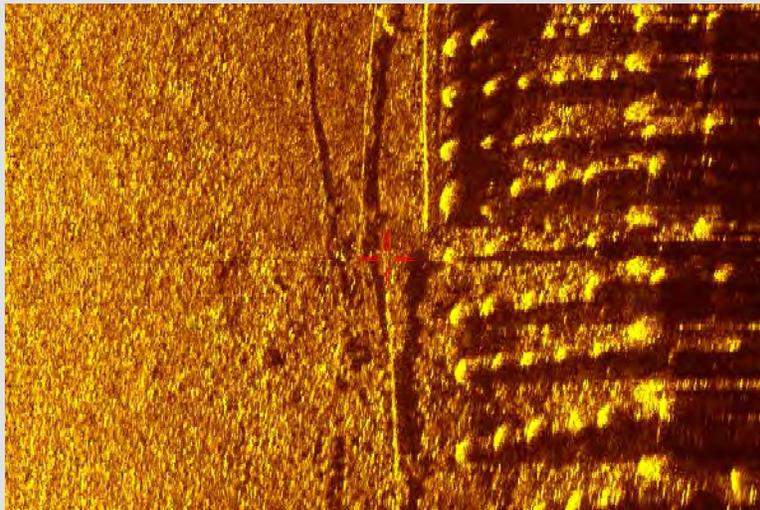
Target Latitude: 40:26.4467 N Target Longitude: 74:03.5522 W  
Heading: 29 Degrees Ground Range: 7.8 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 0.65 Meters Width: 0.26 Meters  
Height: 0.15 Meters

### Target-1-9



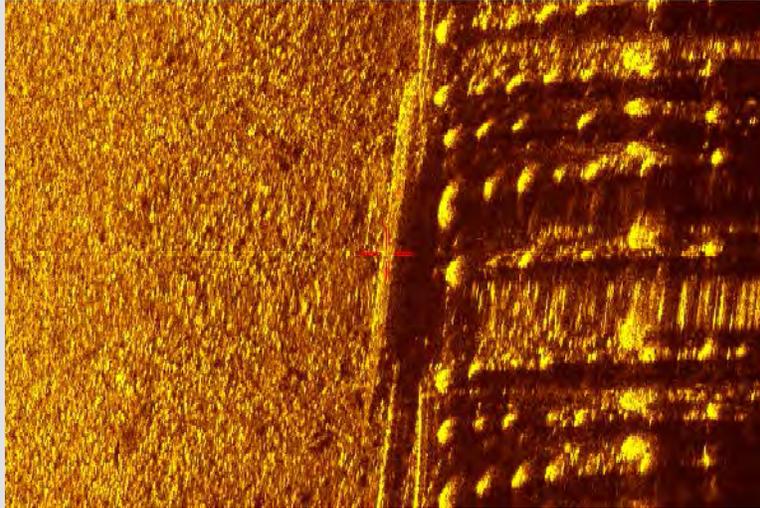
Target Latitude: 40:26.4578 N Target Longitude: 74:03.5425 W  
Heading: 25 Degrees Ground Range: 10.9 Meters to Starboard  
Speed: 3.0 Knots File: 14L.jsf  
Length: 6.94 Meters Width: 0.30 Meters  
Height: 0.24 Meters

### Target-1-10



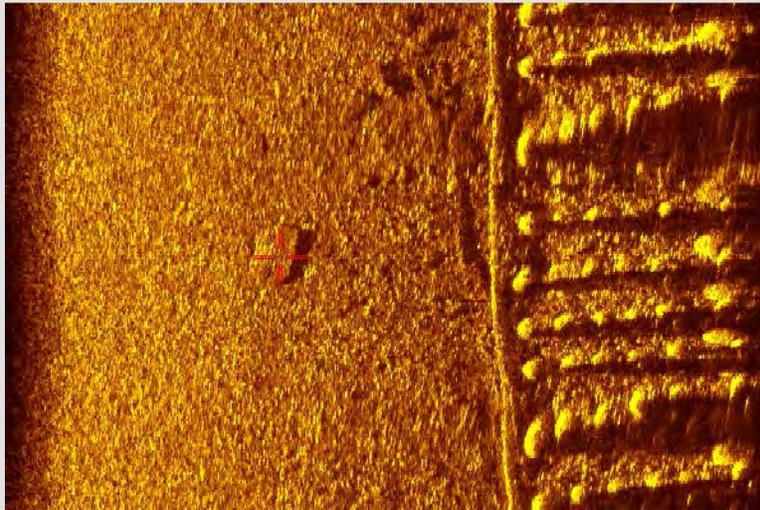
Target Latitude: 40:26.4589 N Target Longitude: 74:03.5419 W  
Heading: 29 Degrees Ground Range: 10.6 Meters to Starboard  
Speed: 2.9 Knots File: 14L.jsf  
Length: 2.20 Meters Width: 0.39 Meters  
Height: 0.31 Meters

### Target-1-11



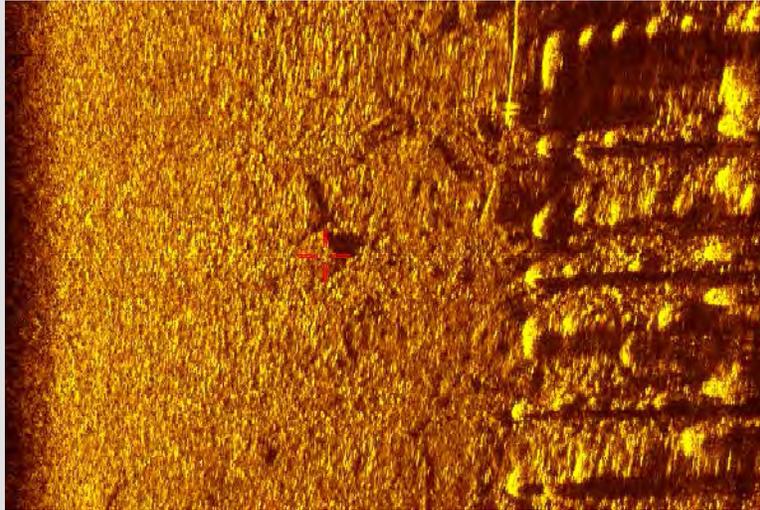
Target Latitude: 40:26.4672 N Target Longitude: 74:03.5360 W  
Heading: 29 Degrees Ground Range: 11.1 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 6.87 Meters Width: 0.53 Meters  
Height: 0.26 Meters

### Target-1-12



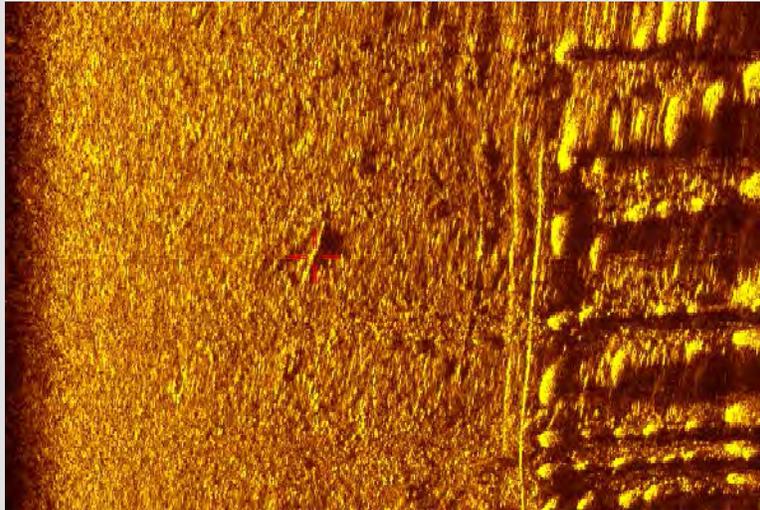
Target Latitude: 40:26.4753 N Target Longitude: 74:03.5339 W  
Heading: 30 Degrees Ground Range: 6.7 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.39 Meters Width: 0.80 Meters  
Height: 0.12 Meters

### Target-1-13



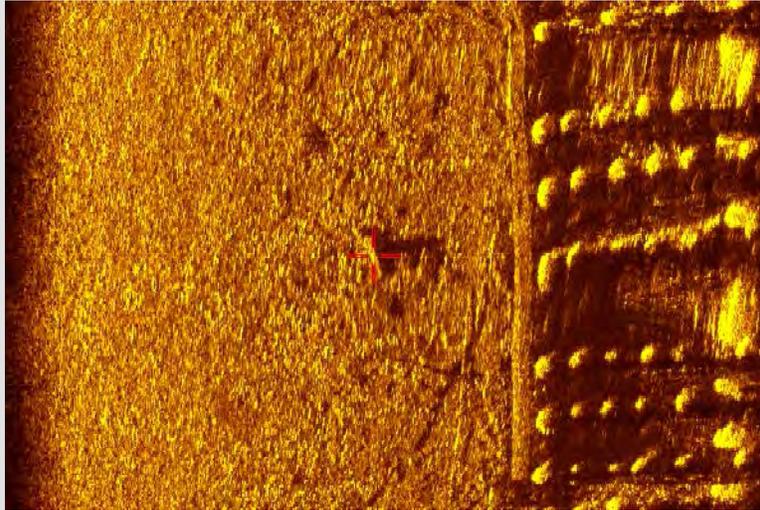
Target Latitude: 40:26.4930 N Target Longitude: 74:03.5213 W  
Heading: 20 Degrees Ground Range: 7.7 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 1.07 Meters Width: 0.80 Meters  
Height: 0.26 Meters

### Target-1-14



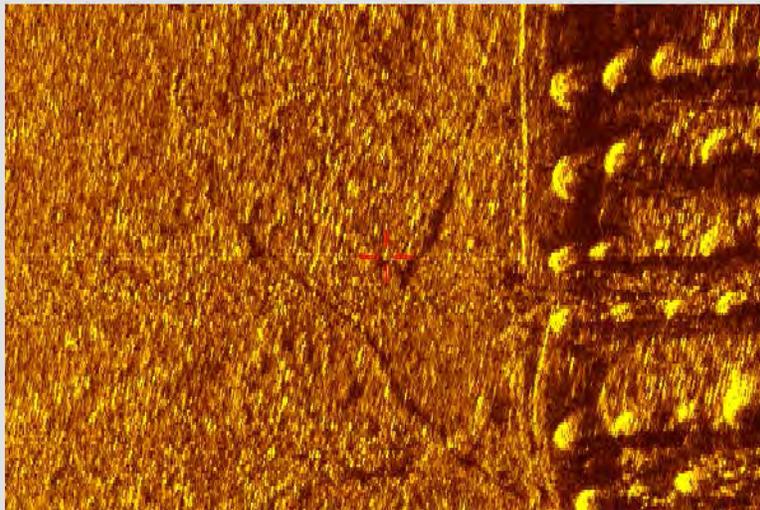
Target Latitude: 40:26.5002 N Target Longitude: 74:03.5169 W  
Heading: 26 Degrees Ground Range: 7.5 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.60 Meters Width: 0.63 Meters  
Height: 0.23 Meters

### Target-1-15



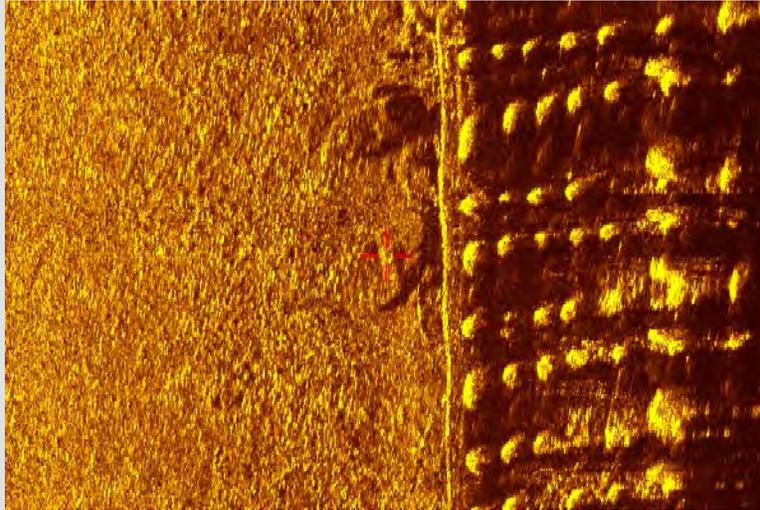
Target Latitude: 40:26.5080 N Target Longitude: 74:03.5102 W  
Heading: 27 Degrees Ground Range: 8.8 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.47 Meters Width: 0.33 Meters  
Height: 0.44 Meters

### Target-1-16



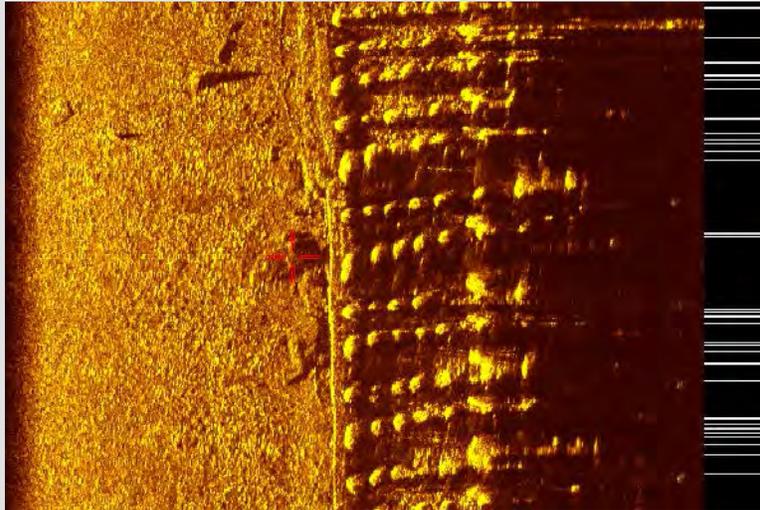
Target Latitude: 40:26.5117 N Target Longitude: 74:03.5068 W  
Heading: 30 Degrees Ground Range: 9.7 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 4.18 Meters Width: 0.24 Meters  
Height: 0.27 Meters

### Target-1-17



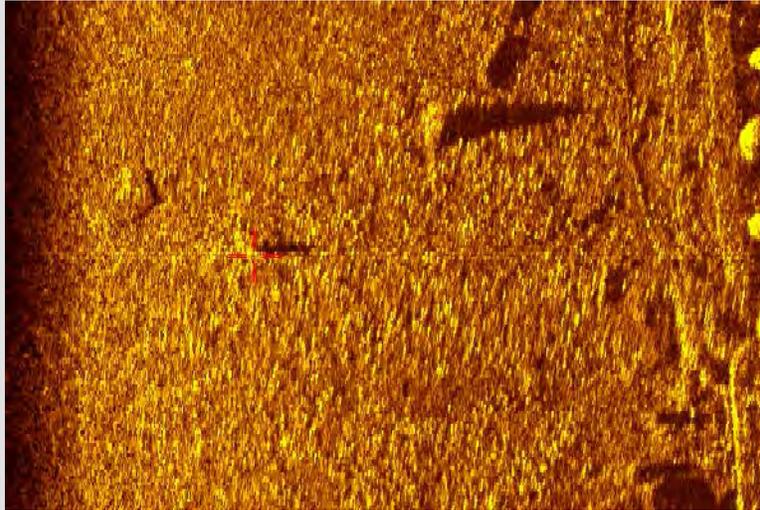
Target Latitude: 40:26.5151 N Target Longitude: 74:03.5038 W  
Heading: 28 Degrees Ground Range: 10.3 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 2.04 Meters Width: 1.10 Meters  
Height: 0.19 Meters

### Target-1-18



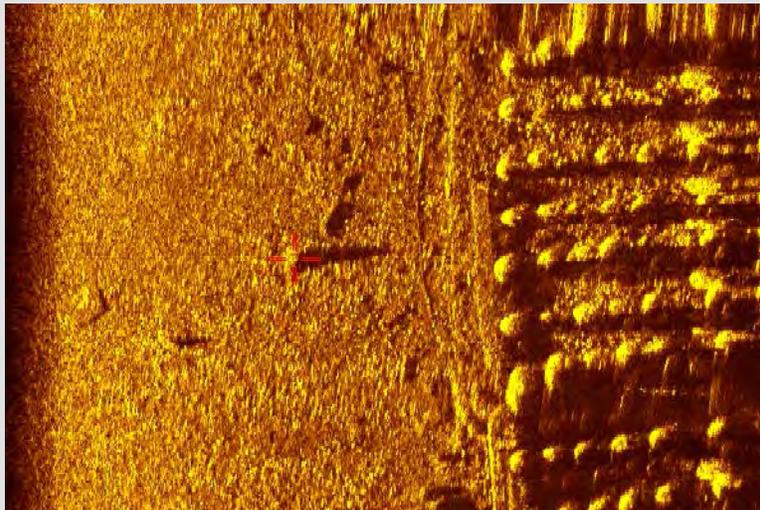
Target Latitude: 40:26.5164 N Target Longitude: 74:03.5029 W  
Heading: 29 Degrees Ground Range: 10.3 Meters to Starboard  
Speed: 2.9 Knots File: 14L.jsf  
Length: 1.65 Meters Width: 1.75 Meters  
Height: 0.25 Meters

### Target-1-19



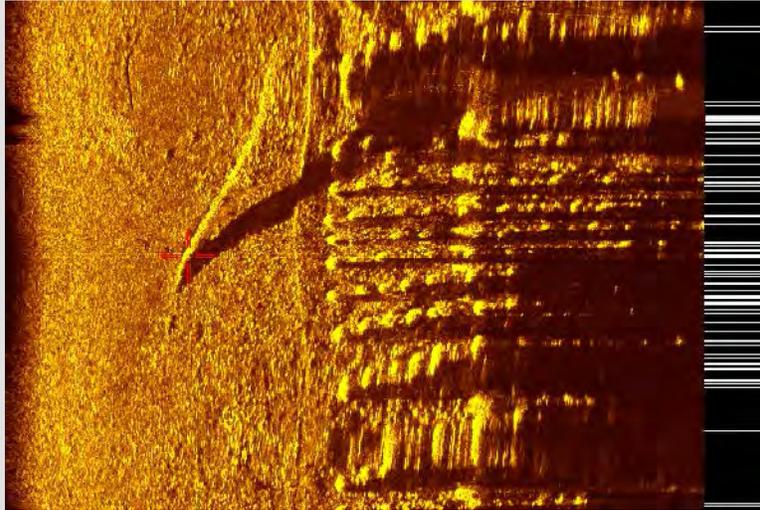
Target Latitude: 40:26.5201 N Target Longitude: 74:03.5052 W  
Heading: 28 Degrees Ground Range: 4.1 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.07 Meters Width: 0.32 Meters  
Height: 0.46 Meters

### Target-1-20



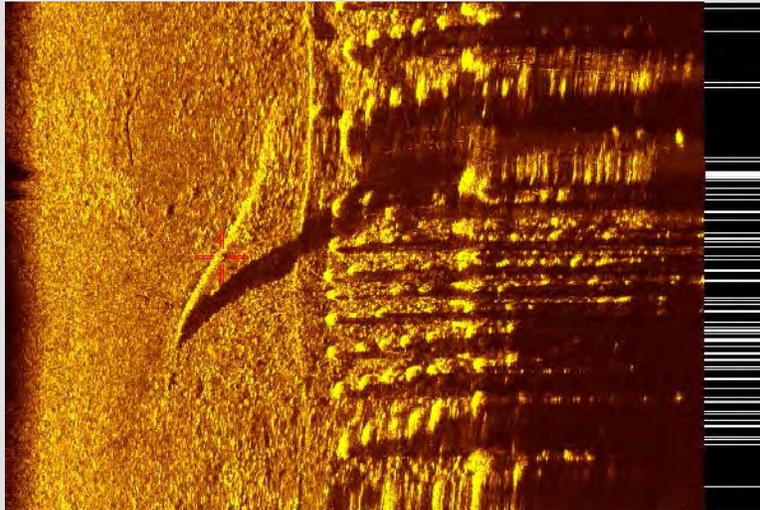
Target Latitude: 40:26.5209 N Target Longitude: 74:03.5023 W  
Heading: 27 Degrees Ground Range: 7.0 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.86 Meters Width: 0.56 Meters  
Height: 0.59 Meters

### Target-1-21



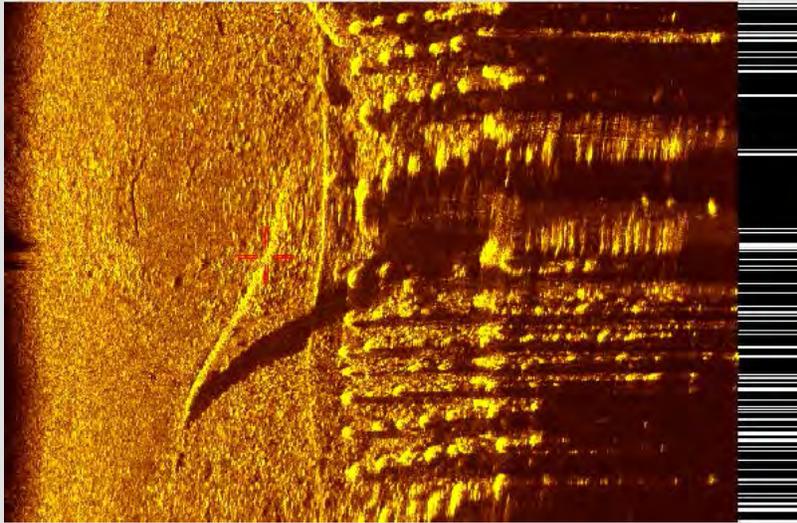
Target Latitude: 40:26.5267 N Target Longitude: 74:03.4985 W  
Heading: 25 Degrees Ground Range: 6.7 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 8.67 Meters Width: 0.18 Meters  
Height: 0.38 Meters

### Target-1-22



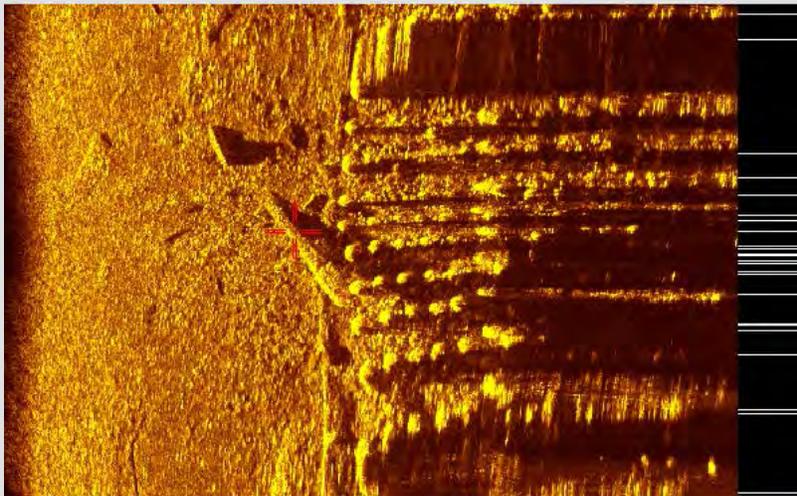
Target Latitude: 40:26.5281 N Target Longitude: 74:03.4966 W  
Heading: 20 Degrees Ground Range: 7.8 Meters to Starboard  
Speed: 2.5 Knots File: 14L.jsf  
Length: 8.11 Meters Width: 0.40 Meters  
Height: 0.72 Meters

### Target-1-23



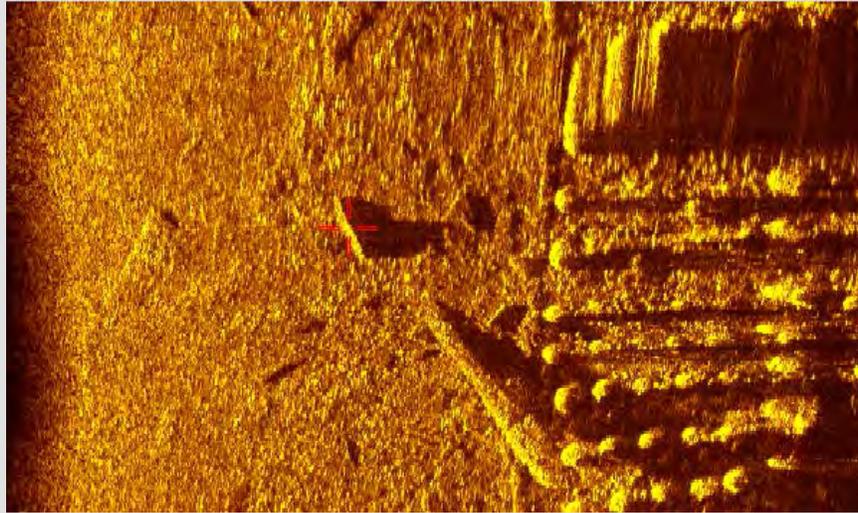
Target Latitude: 40:26.5288 N Target Longitude: 74:03.4954 W  
Heading: 26 Degrees Ground Range: 9.0 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 8.39 Meters Width: 0.31 Meters  
Height: 1.09 Meters

### Target-1-24



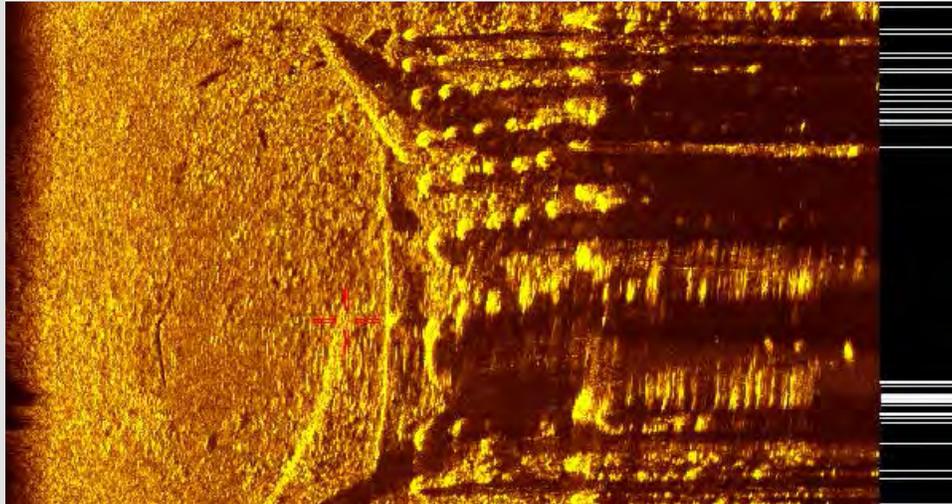
Target Latitude: 40:26.5327 N Target Longitude: 74:03.4918 W  
Heading: 24 Degrees Ground Range: 9.9 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 4.98 Meters Width: 0.38 Meters  
Height: 0.40 Meters

### Target-1-25



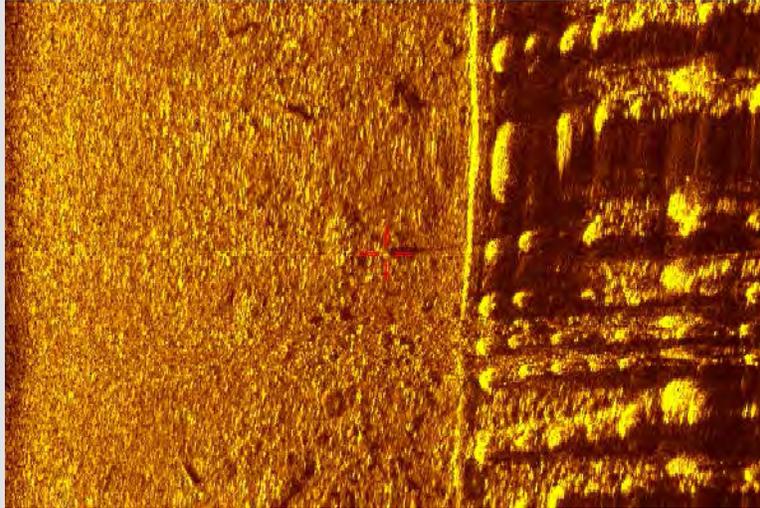
Target Latitude: 40:26.5349 N Target Longitude: 74:03.4926 W  
Heading: 21 Degrees Ground Range: 7.4 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 1.65 Meters Width: 0.35 Meters  
Height: 0.59 Meters

### Target-1-26



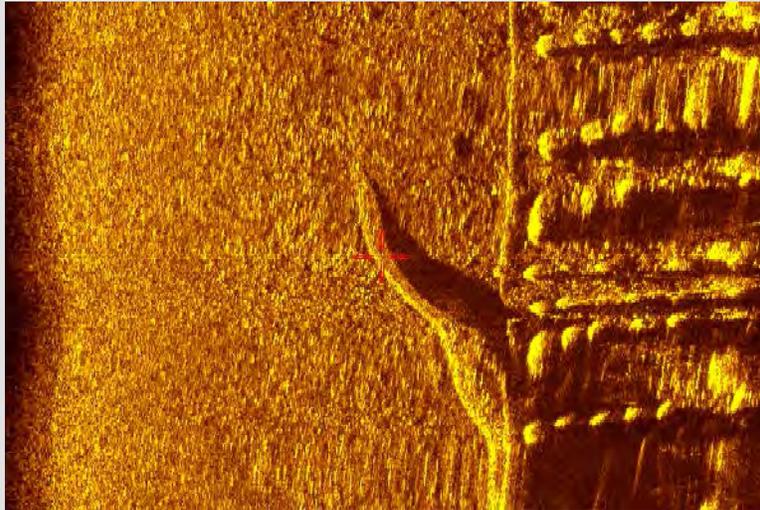
Target Latitude: 40:26.5293 N Target Longitude: 74:03.4944 W  
Heading: 24 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 7.18 Meters Width: 0.80 Meters  
Height: 1.38 Meters

### Target-1-27



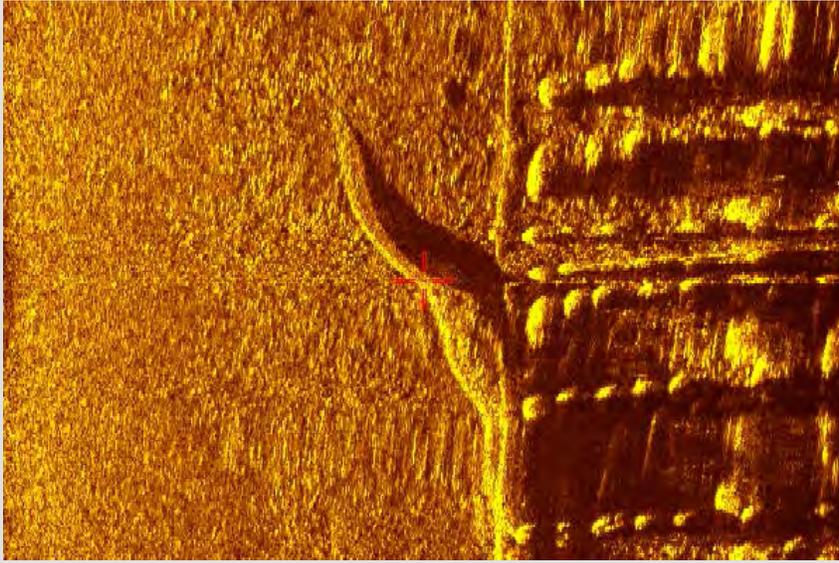
Target Latitude: 40:26.5388 N Target Longitude: 74:03.4881 W  
Heading: 25 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.77 Meters Width: 0.43 Meters  
Height: 0.36 Meters

### Target-1-28



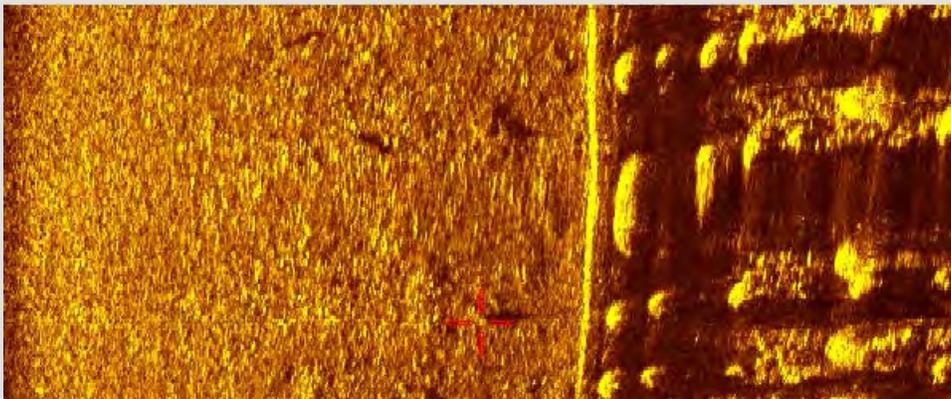
Target Latitude: 40:26.5472 N Target Longitude: 74:03.4833 W  
Heading: 26 Degrees Ground Range: 9.1 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 8.24 Meters Width: 0.60 Meters  
Height: 0.27 Meters

### Target-1-29



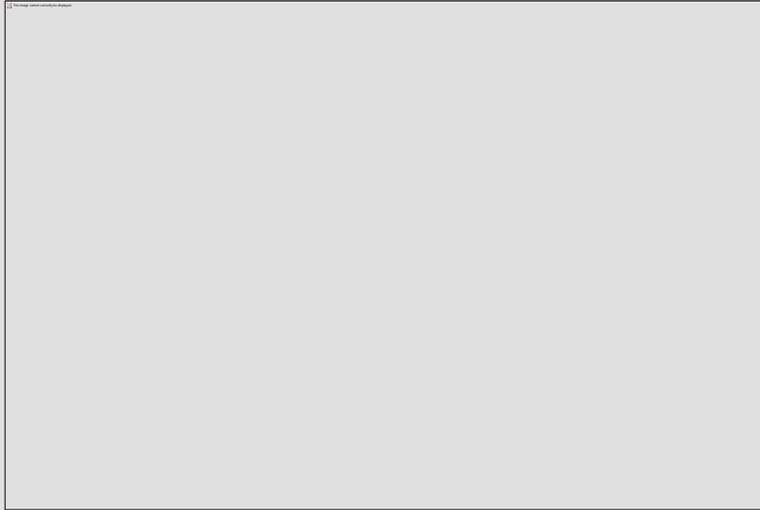
Target Latitude: 40:26.5464 N Target Longitude: 74:03.4827 W  
Heading: 23 Degrees Ground Range: 10.3 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 9.20 Meters Width: 0.81 Meters  
Height: 0.44 Meters

### Target-1-30



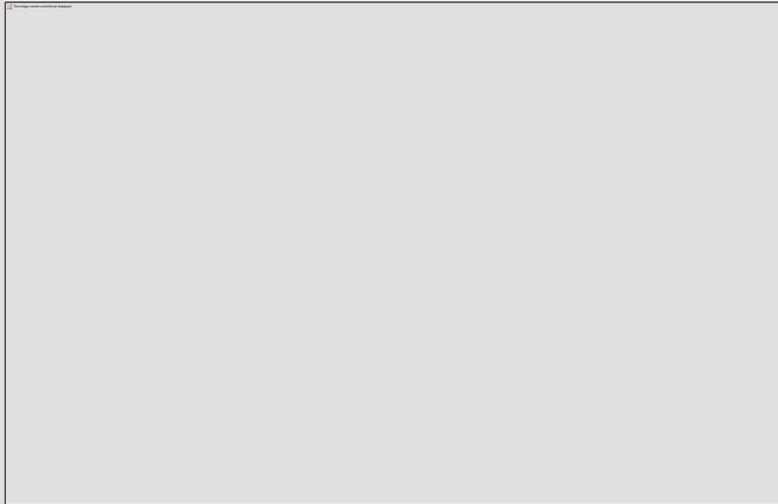
Target Latitude: 40:26.5388 N Target Longitude: 74:03.4882 W  
Heading: 25 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.58 Meters Width: 0.22 Meters  
Height: 0.42 Meters

### Target-1-31



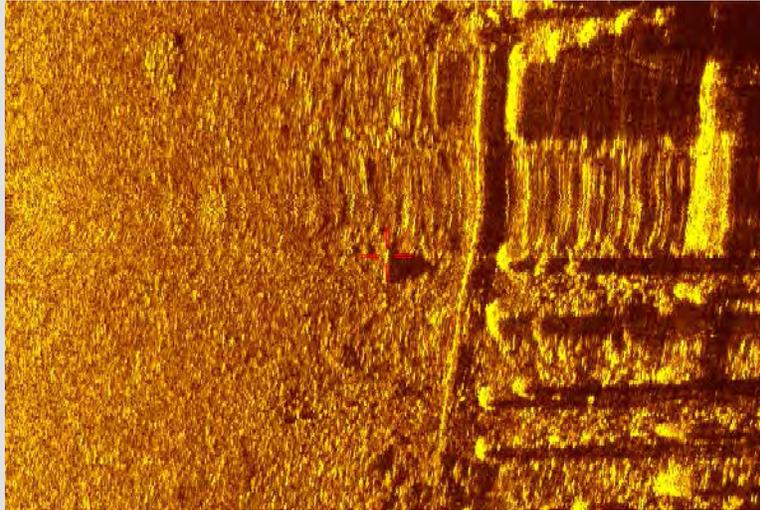
Target Latitude: 40:26.5513 N Target Longitude: 74:03.4807 W  
Heading: 26 Degrees Ground Range: 8.8 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 0.89 Meters Width: 0.78 Meters  
Height: 0.21 Meters

### Target-1-32



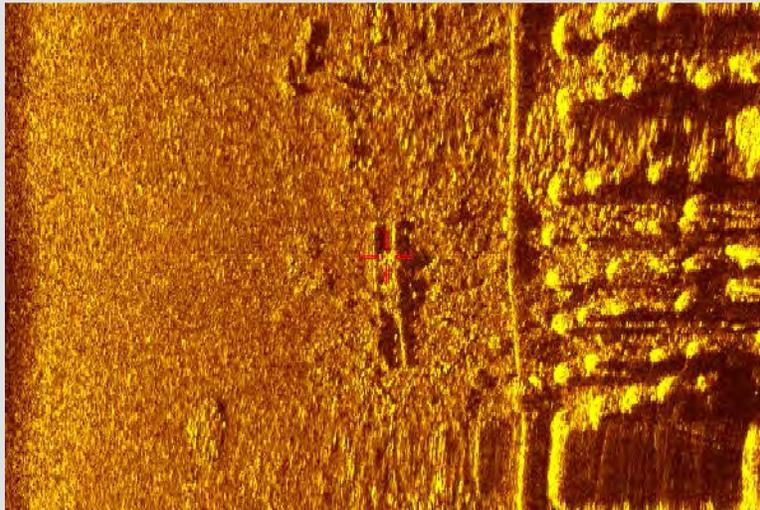
Target Latitude: 40:26.5575 N Target Longitude: 74:03.4768 W  
Heading: 28 Degrees Ground Range: 8.3 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.92 Meters Width: 0.43 Meters  
Height: 0.17 Meters

### Target-1-33



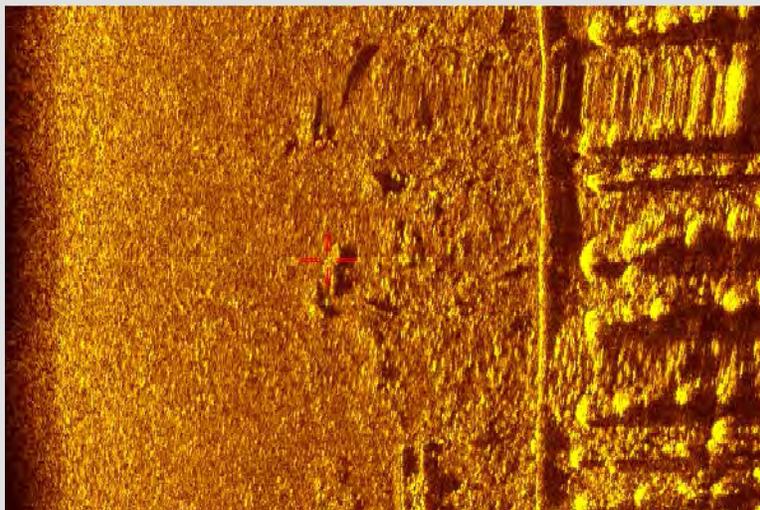
Target Latitude: 40:26.5701 N Target Longitude: 74:03.4669 W  
Heading: 22 Degrees Ground Range: 10.8 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 1.14 Meters Width: 0.34 Meters  
Height: 0.30 Meters

### Target-1-34



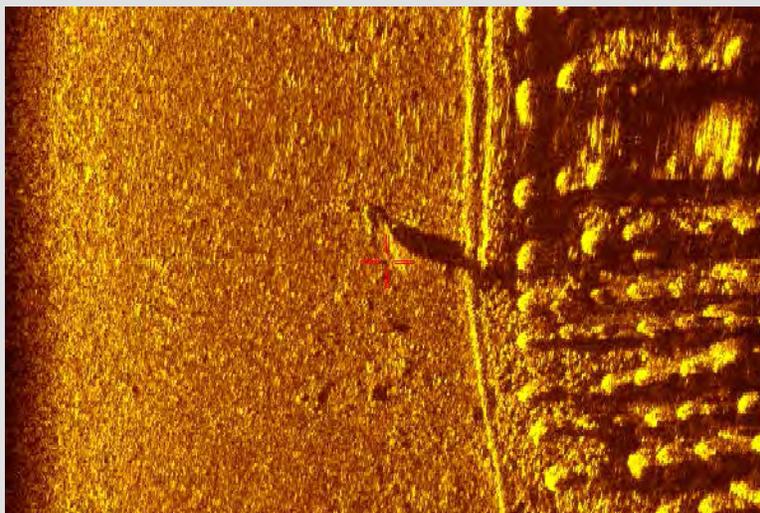
Target Latitude: 40:26.5740 N Target Longitude: 74:03.4650 W  
Heading: 27 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 3.12 Meters Width: 0.77 Meters  
Height: 0.25 Meters

### Target-1-35



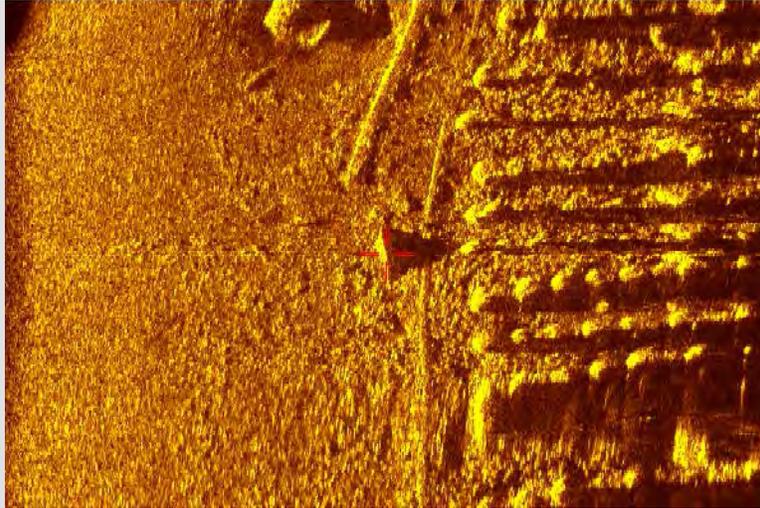
Target Latitude: 40:26.5773 N Target Longitude: 74:03.4646 W  
Heading: 26 Degrees Ground Range: 7.8 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 1.39 Meters Width: 0.24 Meters  
Height: 0.23 Meters

### Target-1-36



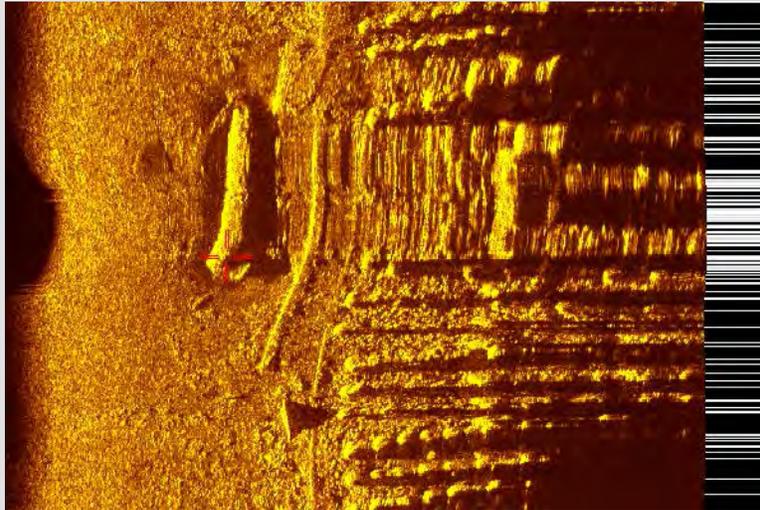
Target Latitude: 40:26.5861 N Target Longitude: 74:03.4563 W  
Heading: 27 Degrees Ground Range: 9.4 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 2.22 Meters Width: 0.69 Meters  
Height: 0.76 Meters

### Target-1-37



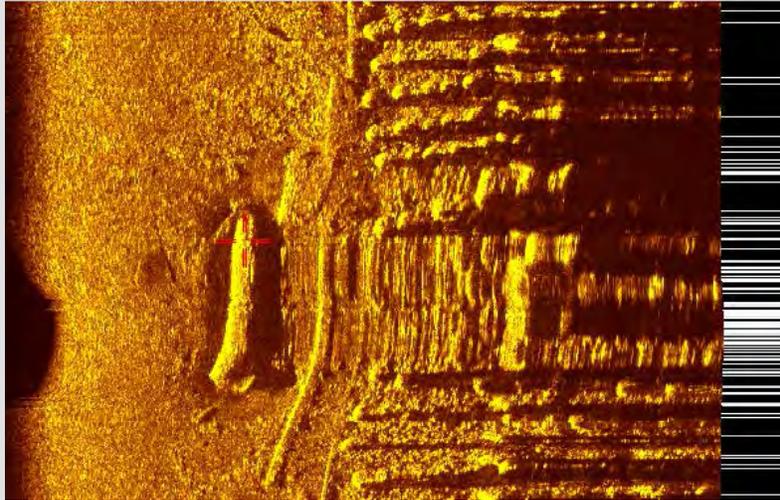
Target Latitude: 40:26.5936 N Target Longitude: 74:03.4504 W  
Heading: 26 Degrees Ground Range: 10.1 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.84 Meters Width: 0.52 Meters  
Height: 0.47 Meters

### Target-1-38



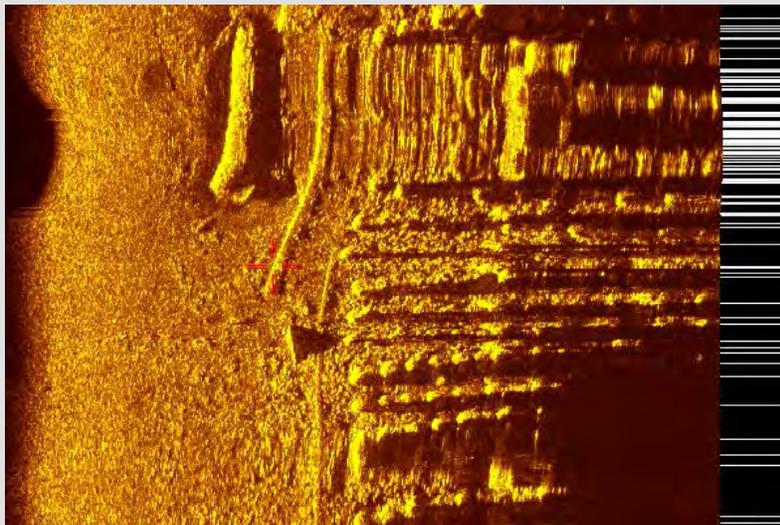
Target Latitude: 40:26.5978 N Target Longitude: 74:03.4499 W  
Heading: 22 Degrees Ground Range: 8.0 Meters to Starboard  
Speed: 2.5 Knots File: 14L.jsf  
Length: 5.77 Meters Height: 0.43 Meters  
Area: 0.09 Meters

### Target-1-39



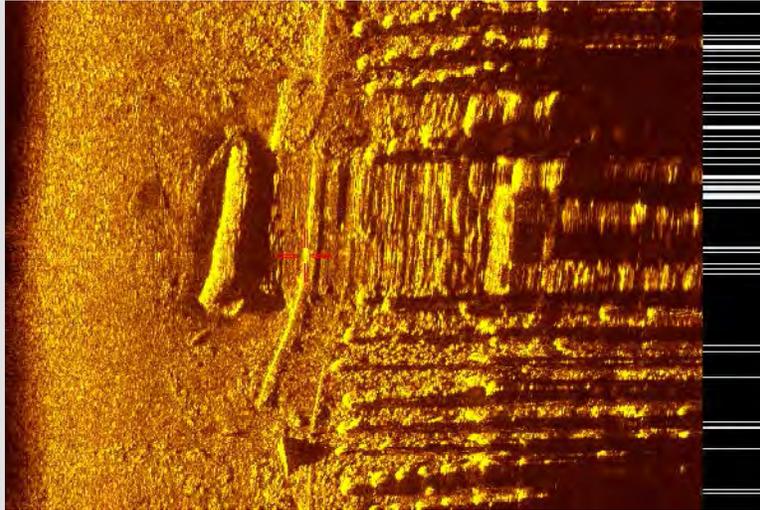
Target Latitude: 40:26.5991 N Target Longitude: 74:03.4487 W  
Heading: 30 Degrees Ground Range: 8.4 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 5.75 Meters Width: 0.85 Meters  
Height: 0.36 Meters

### Target-1-40



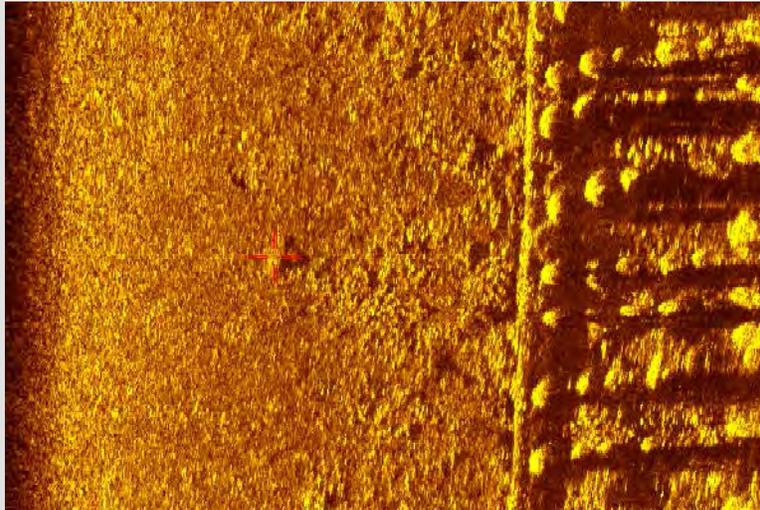
Target Latitude: 40:26.5956 N Target Longitude: 74:03.4498 W  
Heading: 21 Degrees Ground Range: 9.5 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 8.84 Meters Width: 0.45 Meters  
Height: 0.23 Meters

### Target-1-41



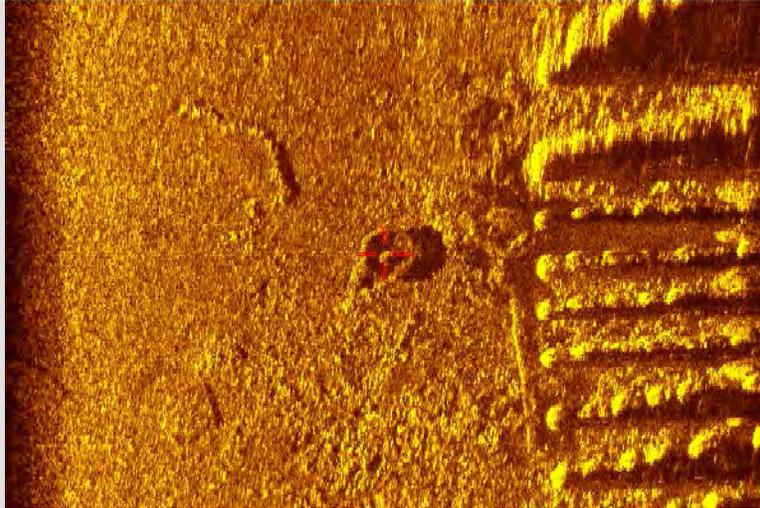
Target Latitude: 40:26.5979 N Target Longitude: 74:03.4477 W  
Heading: 22 Degrees Ground Range: 10.8 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 9.92 Meters Width: 0.22 Meters  
Height: 0.15 Meters

### Target-1-42



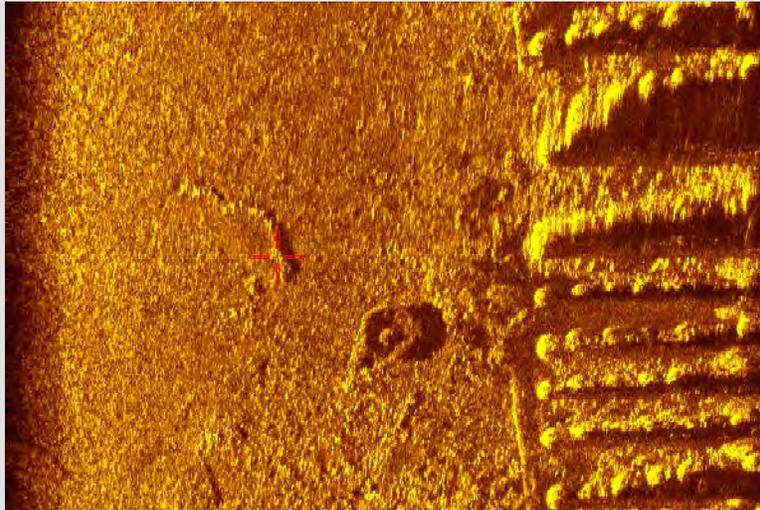
Target Latitude: 40:26.6066 N Target Longitude: 74:03.4449 W  
Heading: 25 Degrees Ground Range: 6.6 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.17 Meters Width: 0.63 Meters  
Height: 0.33 Meters

### Target-1-43



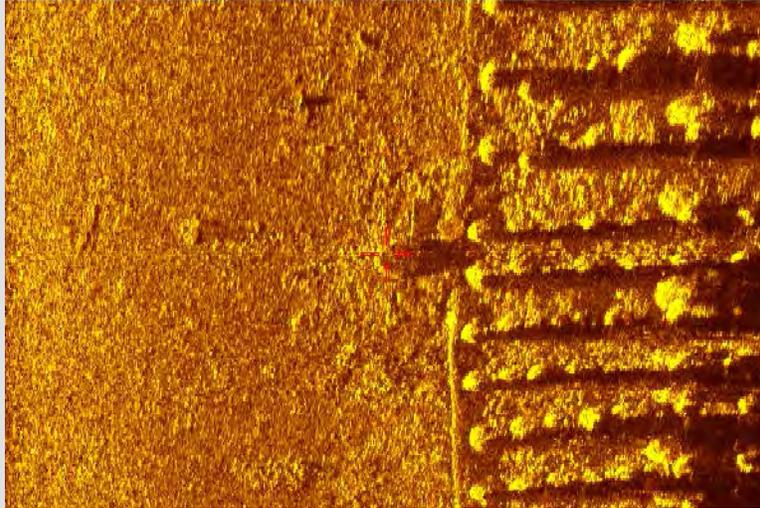
Target Latitude: 40:26.6270 N Target Longitude: 74:03.4288 W  
Heading: 28 Degrees Ground Range: 9.1 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 1.37 Meters Width: 1.16 Meters  
Height: 0.25 Meters

### Target-1-44



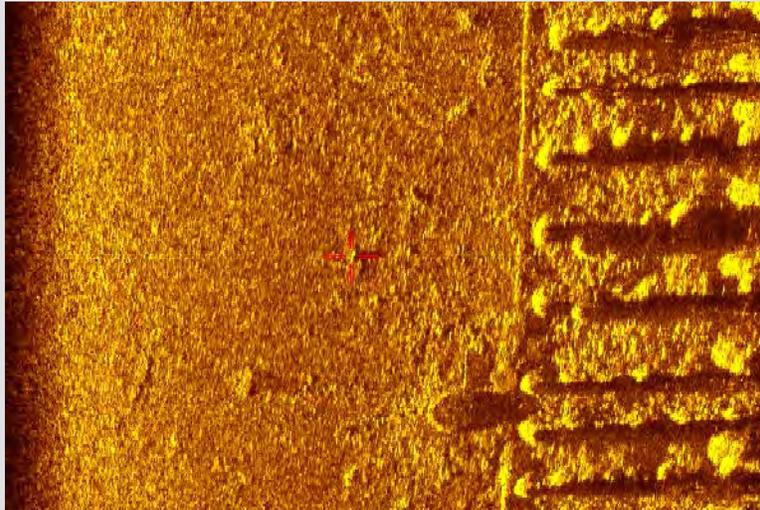
Target Latitude: 40:26.6282 N Target Longitude: 74:03.4300 W  
Heading: 29 Degrees Ground Range: 6.7 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 3.17 Meters Width: 0.13 Meters  
Height: 0.20 Meters

### Target-1-45



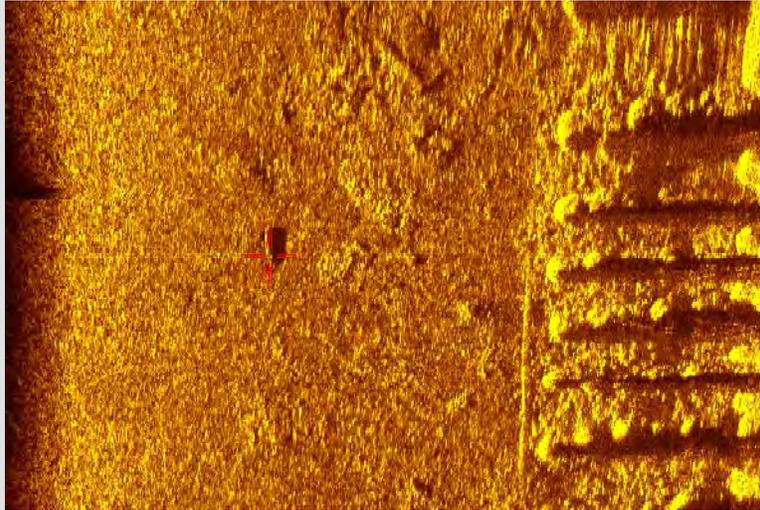
Target Latitude: 40:26.6339 N Target Longitude: 74:03.4230 W  
Heading: 24 Degrees Ground Range: 10.4 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 1.17 Meters Width: 1.01 Meters  
Height: 0.41 Meters

### Target-1-46



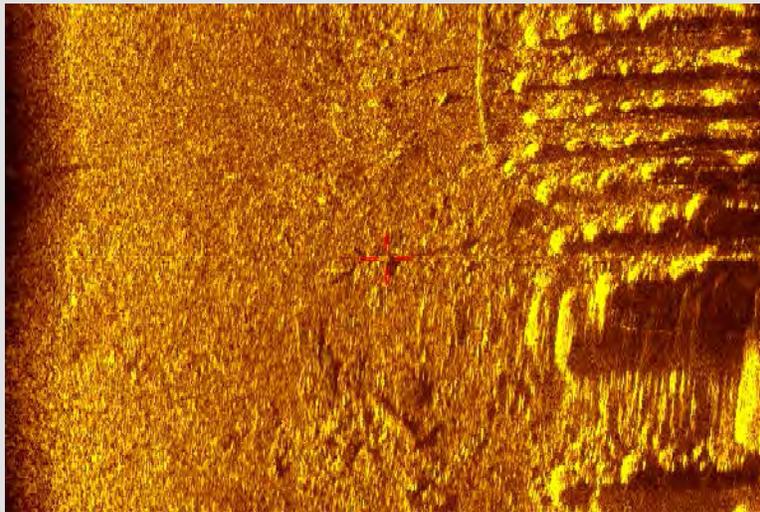
Target Latitude: 40:26.6365 N Target Longitude: 74:03.4231 W  
Heading: 24 Degrees Ground Range: 8.4 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.56 Meters Width: 0.24 Meters  
Height: 0.32 Meters

### Target-1-47



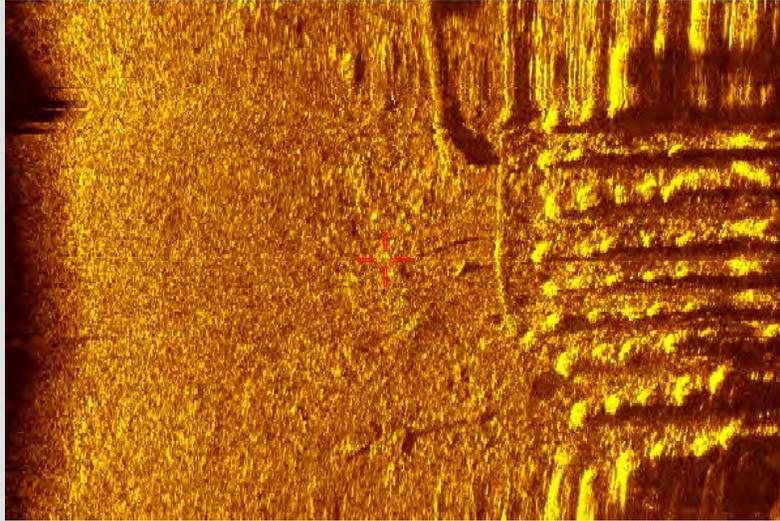
Target Latitude: 40:26.6404 N Target Longitude: 74:03.4221 W  
Heading: 23 Degrees Ground Range: 6.5 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.33 Meters Width: 0.27 Meters  
Height: 0.26 Meters

### Target-1-48



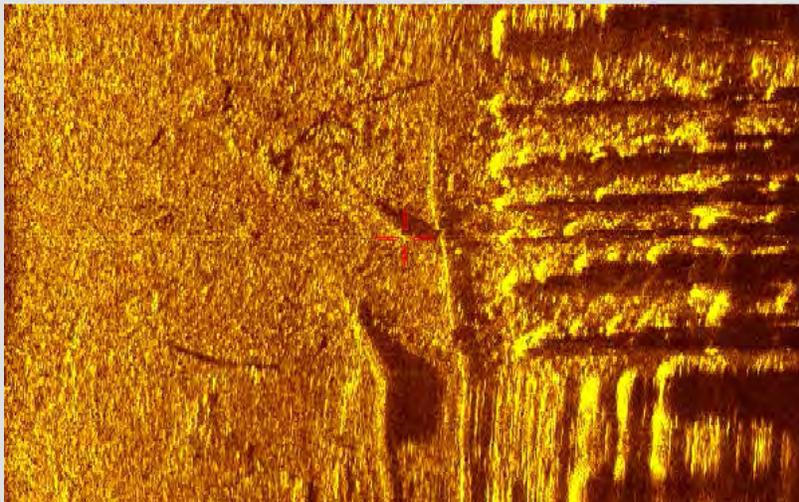
Target Latitude: 40:26.6425 N Target Longitude: 74:03.4183 W  
Heading: 32 Degrees Ground Range: 9.3 Meters to Starboard  
Speed: 3.0 Knots File: 14L.jsf  
Length: 0.44 Meters Width: 0.57 Meters  
Height: 0.52 Meters

### Target-1-49



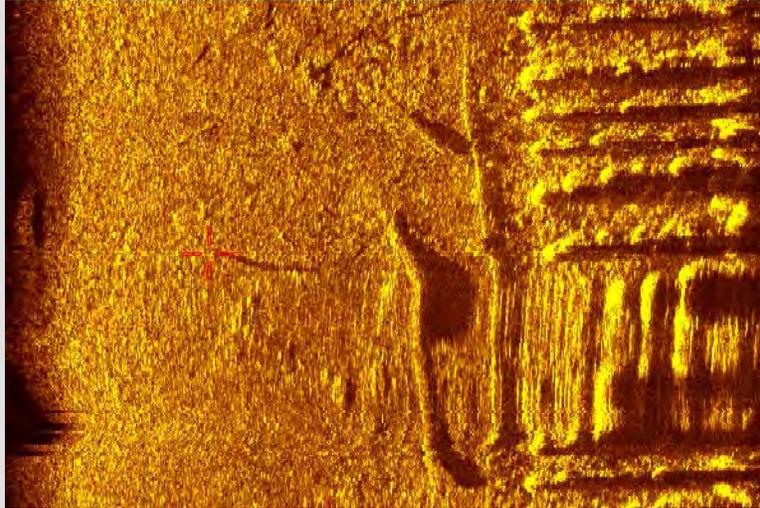
Target Latitude: 40:26.6449 N Target Longitude: 74:03.4167 W  
Heading: 29 Degrees Ground Range: 8.9 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.36 Meters Width: 0.13 Meters  
Height: 0.58 Meters

### Target-1-50



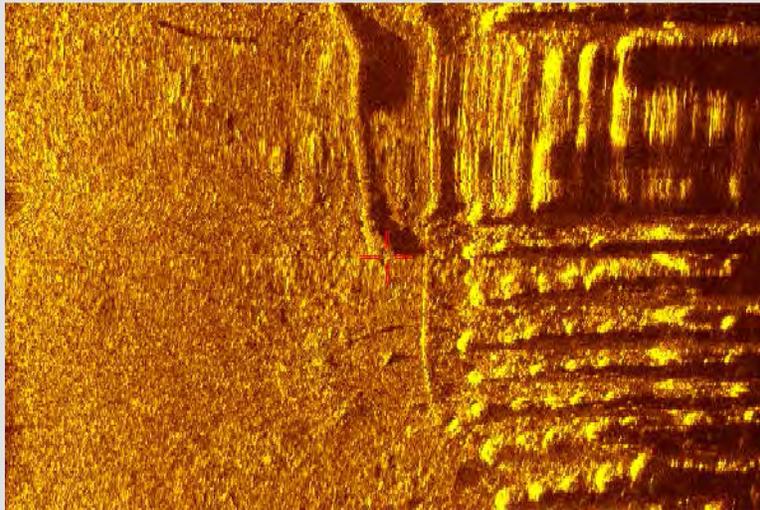
Target Latitude: 40:26.6493 N Target Longitude: 74:03.4124 W  
Heading: 27 Degrees Ground Range: 10.4 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 2.43 Meters Width: 0.40 Meters  
Height: 0.39 Meters

### Target-1-51



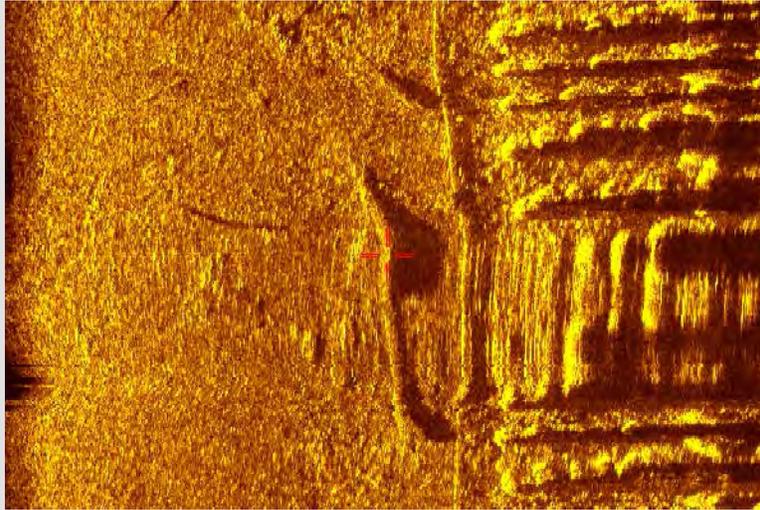
Target Latitude: 40:26.6498 N Target Longitude: 74:03.4164 W  
Heading: 32 Degrees Ground Range: 5.1 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 0.27 Meters Width: 0.30 Meters  
Height: 0.94 Meters

### Target-1-52



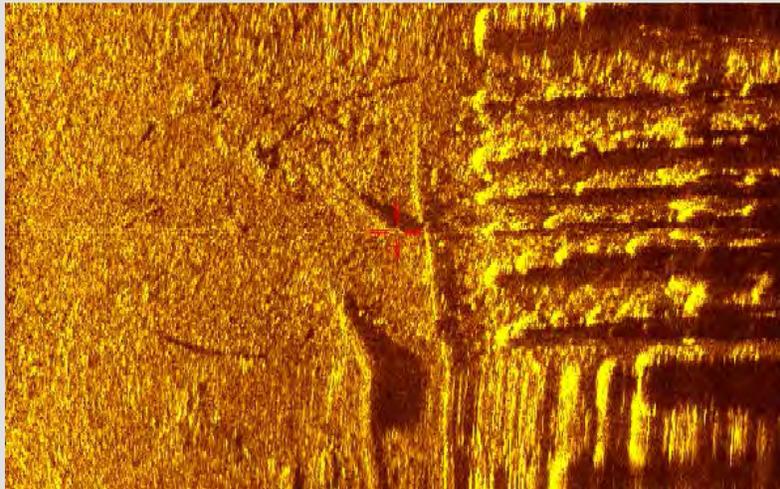
Target Latitude: 40:26.6459 N Target Longitude: 74:03.4148 W  
Heading: 28 Degrees Ground Range: 10.6 Meters to Starboard  
Speed: 2.5 Knots File: 14L.jsf  
Length: 6.72 Meters Width: 0.39 Meters  
Height: 0.36 Meters

### Target-1-53



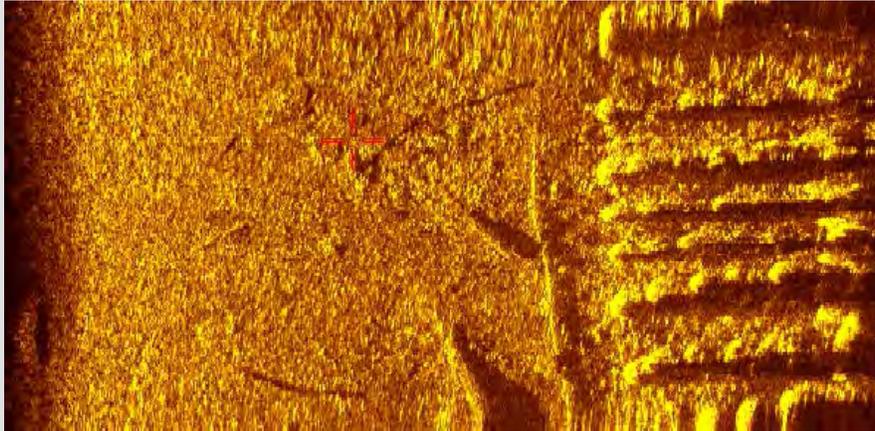
Target Latitude: 40:26.6478 N Target Longitude: 74:03.4139 W  
Heading: 31 Degrees Ground Range: 9.9 Meters to Starboard  
Speed: 2.9 Knots File: 14L.jsf  
Length: 7.46 Meters Width: 0.56 Meters  
Height: 0.40 Meters

### Target-1-54



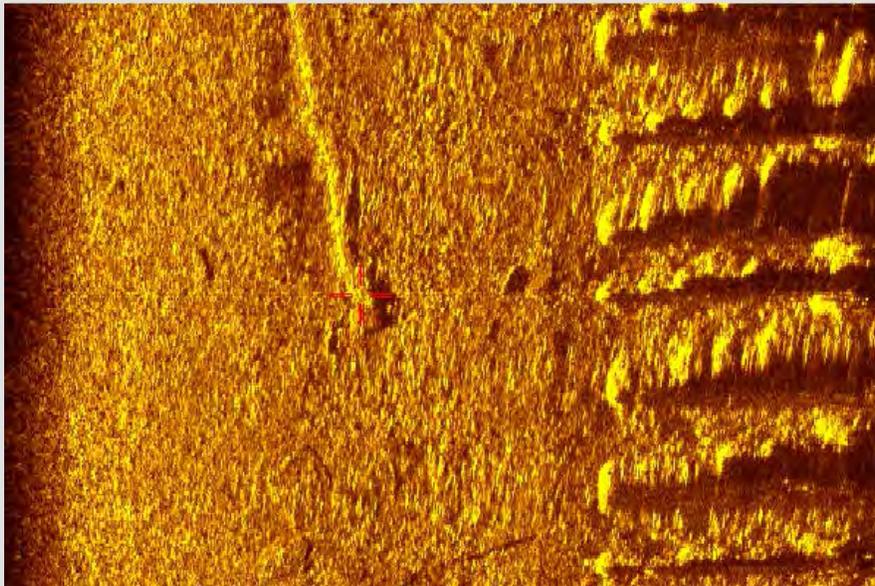
Target Latitude: 40:26.6493 N Target Longitude: 74:03.4123 W  
Heading: 27 Degrees Ground Range: 10.6 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 2.68 Meters Width: 0.32 Meters  
Height: 0.45 Meters

### Target-1-55



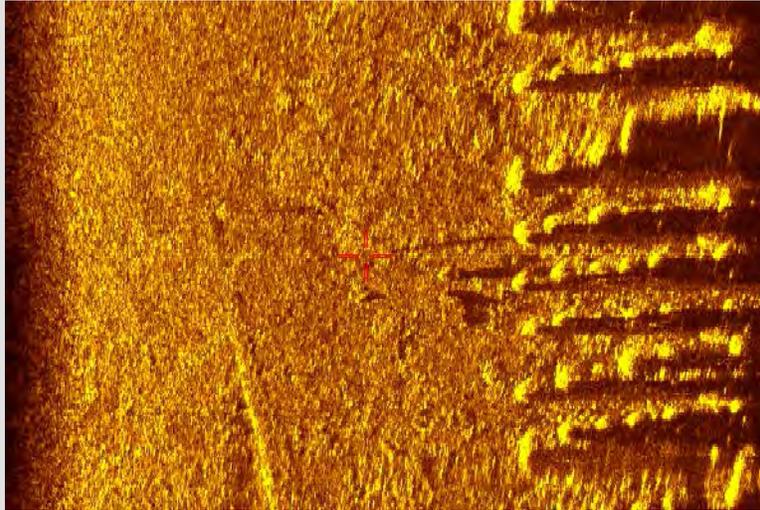
Target Latitude: 40:26.6516 N Target Longitude: 74:03.4132 W  
Heading: 24 Degrees Ground Range: 7.4 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.58 Meters Width: 0.56 Meters  
Height: 0.98 Meters

### Target-1-56



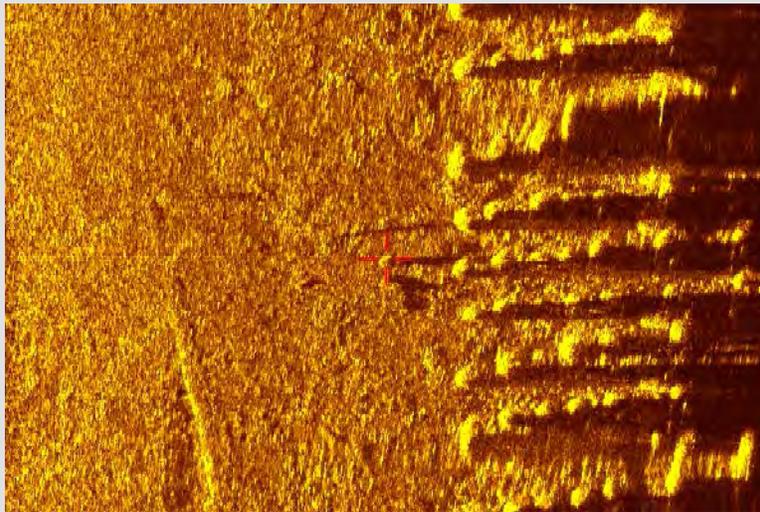
Target Latitude: 40:26.6539 N Target Longitude: 74:03.4116 W  
Heading: 29 Degrees Ground Range: 7.6 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 6.56 Meters Width: 0.66 Meters  
Height: 0.33 Meters

### Target-1-57



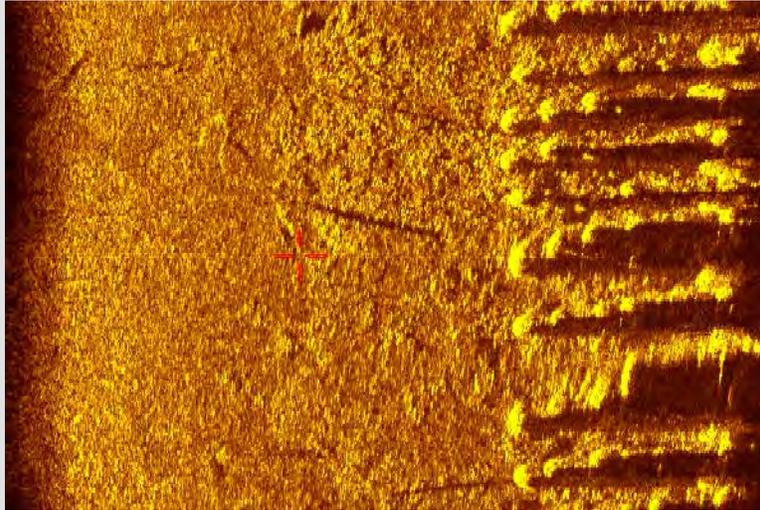
Target Latitude: 40:26.6585 N Target Longitude: 74:03.4073 W  
Heading: 28 Degrees Ground Range: 8.7 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.66 Meters Width: 0.27 Meters  
Height: 0.87 Meters

### Target-1-58



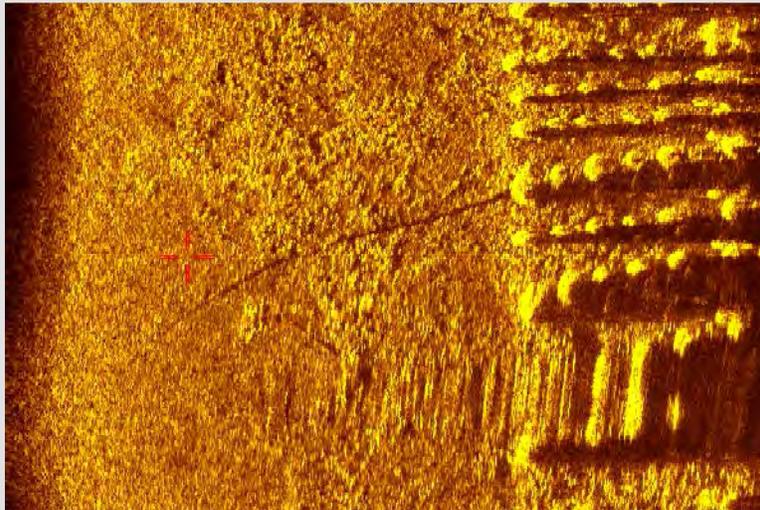
Target Latitude: 40:26.6580 N Target Longitude: 74:03.4061 W  
Heading: 28 Degrees Ground Range: 10.6 Meters to Starboard  
Speed: 2.7 Knots File: 14L.jsf  
Length: 0.45 Meters Width: 0.56 Meters  
Height: 0.59 Meters

### Target-1-59



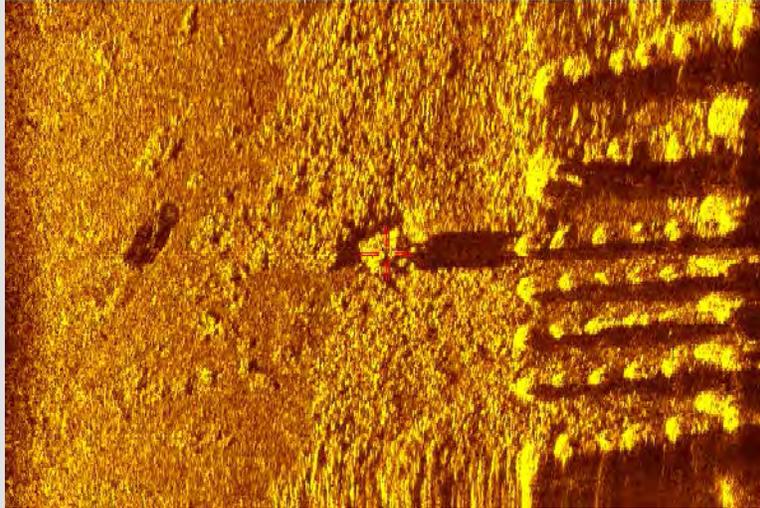
Target Latitude: 40:26.6617 N Target Longitude: 74:03.4063 W  
Heading: 28 Degrees Ground Range: 7.2 Meters to Starboard  
Speed: 3.0 Knots File: 14L.jsf  
Length: 2.05 Meters Width: 0.42 Meters  
Height: 0.94 Meters

### Target-1-60



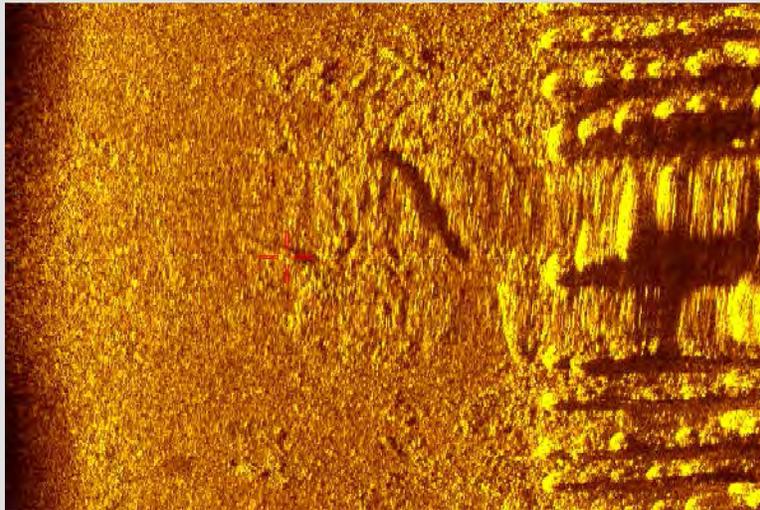
Target Latitude: 40:26.6678 N Target Longitude: 74:03.4045 W  
Heading: 30 Degrees Ground Range: 4.6 Meters to Starboard  
Speed: 3.0 Knots File: 14L.jsf  
Length: 0.40 Meters Width: 2.97 Meters  
Height: 1.86 Meters

### Target-1-61



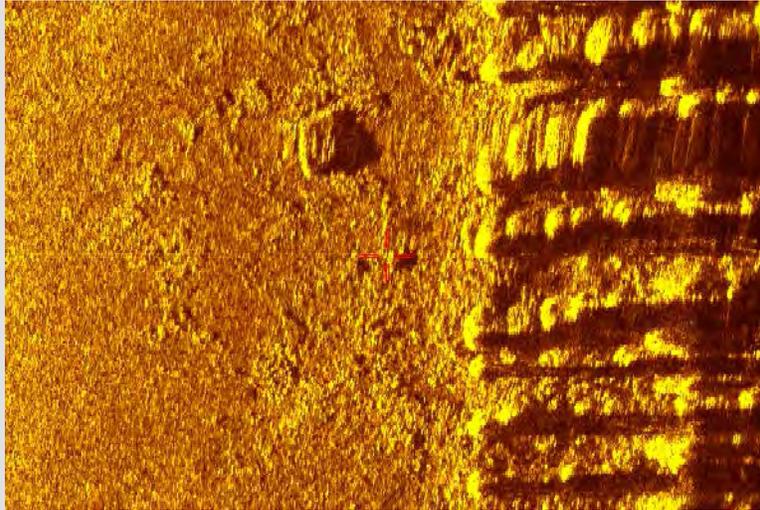
Target Latitude: 40:26.6749 N Target Longitude: 74:03.3960 W  
Heading: 26 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 0.87 Meters Width: 1.56 Meters  
Height: 0.72 Meters

### Target-1-62



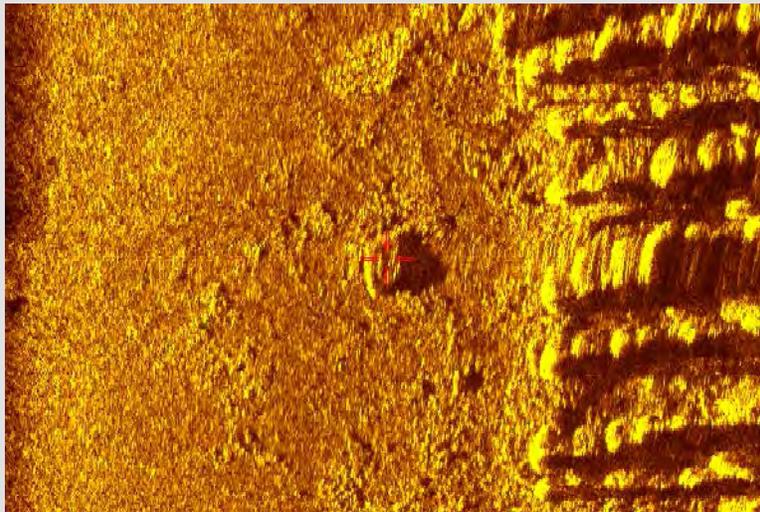
Target Latitude: 40:26.6828 N Target Longitude: 74:03.3929 W  
Heading: 29 Degrees Ground Range: 6.9 Meters to Starboard  
Speed: 2.9 Knots File: 14L.jsf  
Length: 1.19 Meters Width: 0.27 Meters  
Height: 0.30 Meters

### Target-1-63



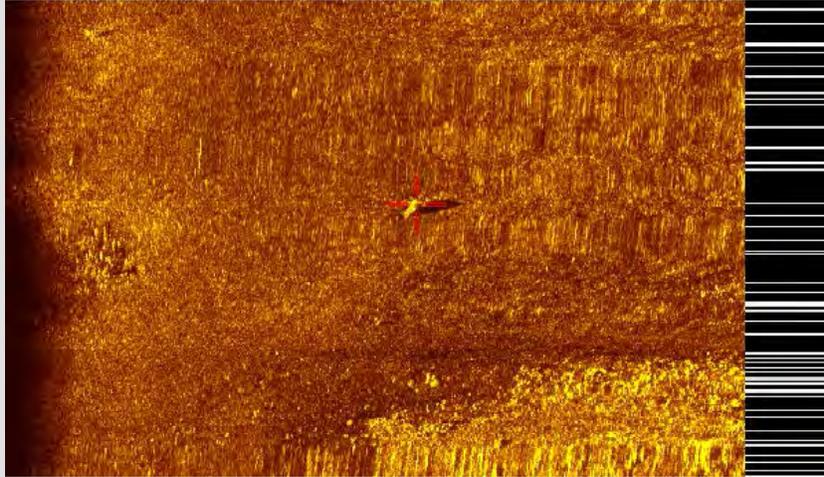
Target Latitude: 40:26.6960 N Target Longitude: 74:03.3806 W  
Heading: 28 Degrees Ground Range: 11.5 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 0.75 Meters Width: 0.61 Meters  
Height: 0.26 Meters

### Target-1-64



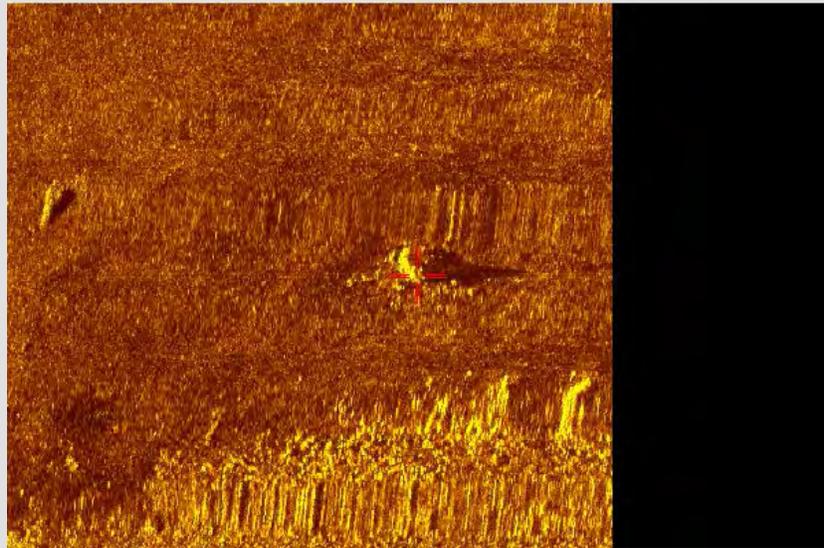
Target Latitude: 40:26.6979 N Target Longitude: 74:03.3806 W  
Heading: 27 Degrees Ground Range: 10.0 Meters to Starboard  
Speed: 2.8 Knots File: 14L.jsf  
Length: 1.34 Meters Width: 1.05 Meters  
Height: 0.46 Meters

### Target-1-65



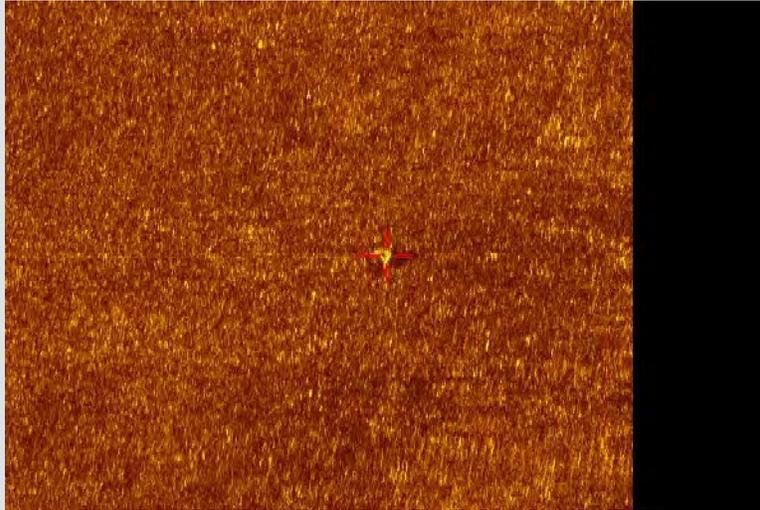
Target Latitude: 40:26.7123 N Target Longitude: 74:03.3668 W  
Heading: 24 Degrees Ground Range: 13.9 Meters to Starboard  
Speed: 2.6 Knots File: 14L.jsf  
Length: 0.93 Meters Width: 0.77 Meters  
Height: 0.39 Meters

### Target-1-66



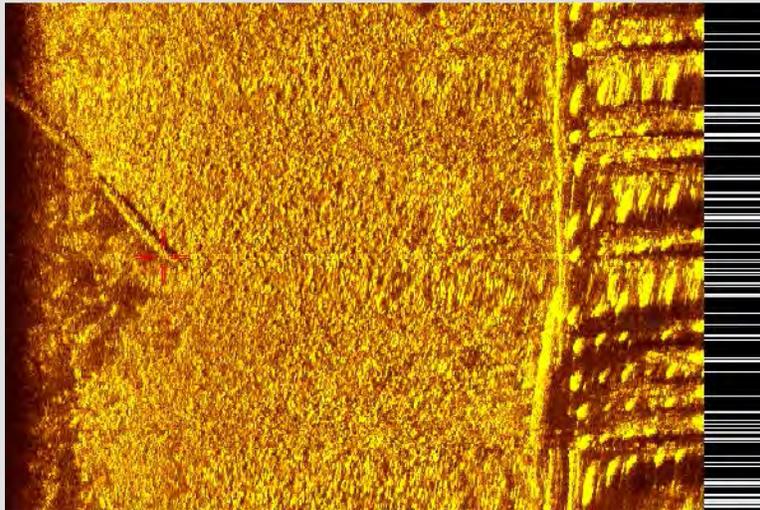
Target Latitude: 40:26.7085 N Target Longitude: 74:03.3603 W  
Heading: 26 Degrees Ground Range: 18.2 Meters to Starboard  
Speed: 3.0 Knots File: 13L.jsf  
Length: 2.00 Meters Width: 0.67 Meters  
Height: 0.60 Meters

### Target-1-67



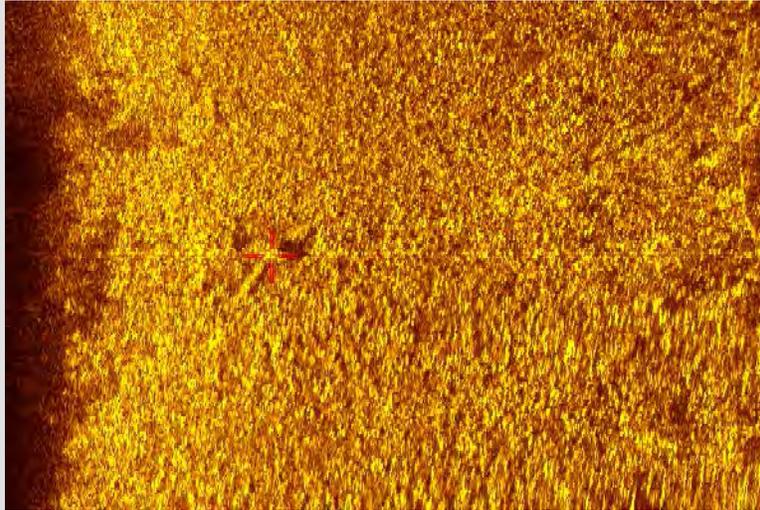
Target Latitude: 40:26.7152 N Target Longitude: 74:03.3554 W  
Heading: 25 Degrees Ground Range: 18.8 Meters to Starboard  
Speed: 3.0 Knots File: 13L.jsf  
Length: 0.52 Meters Width: 0.40 Meters  
Height: 0.13 Meters

### Target-1-68



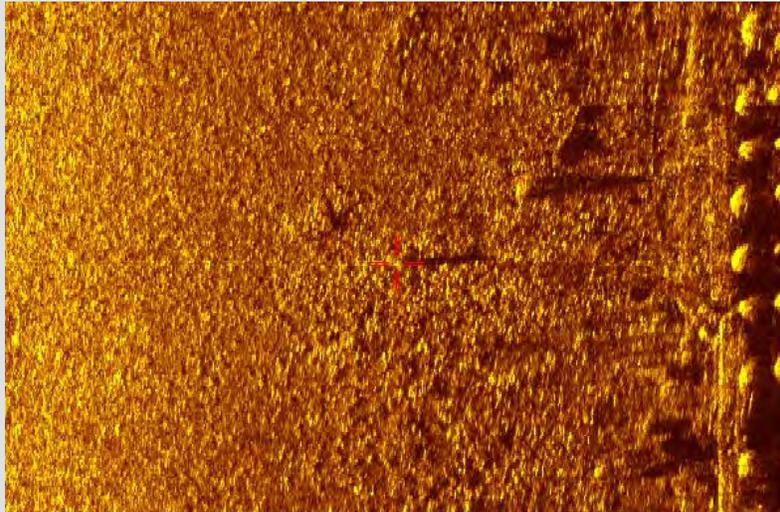
Target Latitude: 40:26.4739 N Target Longitude: 74:03.5416 W  
Heading: 27 Degrees Ground Range: 5.8 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 7.36 Meters Width: 0.54 Meters  
Height: 0.23 Meters

### Target-1-69



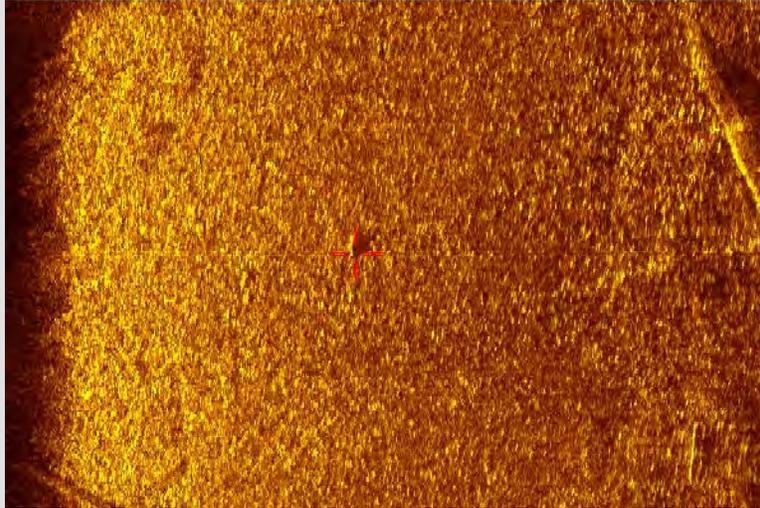
Target Latitude: 40:26.5064 N Target Longitude: 74:03.5185 W  
Heading: 33 Degrees Ground Range: 6.5 Meters to Starboard  
Speed: 3.3 Knots File: 15L.jsf  
Length: 0.77 Meters Width: 0.49 Meters  
Height: 0.26 Meters

### Target-1-70



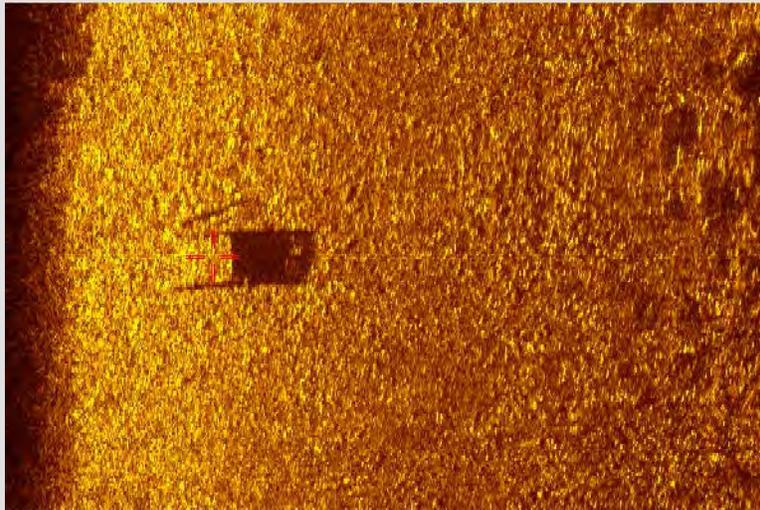
Target Latitude: 40:26.5207 N Target Longitude: 74:03.5045 W  
Heading: 25 Degrees Ground Range: 11.7 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 0.40 Meters Width: 0.44 Meters  
Height: 0.45 Meters

### Target-1-71



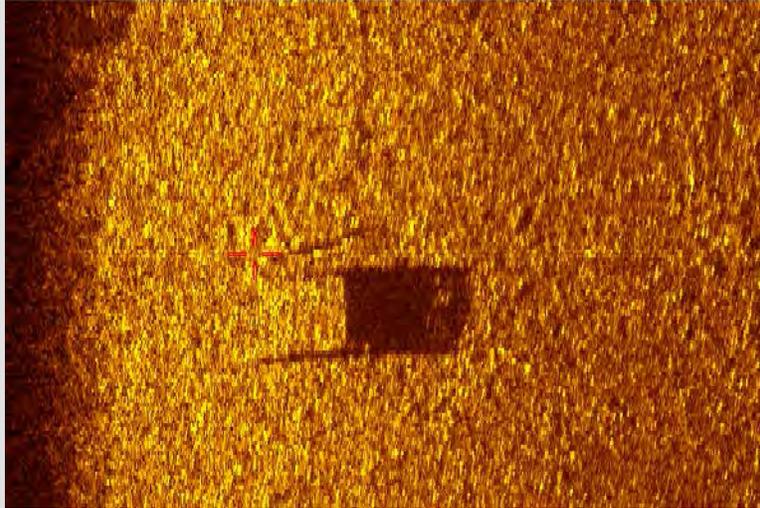
Target Latitude: 40:26.5478 N Target Longitude: 74:03.4892 W  
Heading: 27 Degrees Ground Range: 8.5 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 0.73 Meters Width: 0.41 Meters  
Height: 0.19 Meters

### Target-1-72



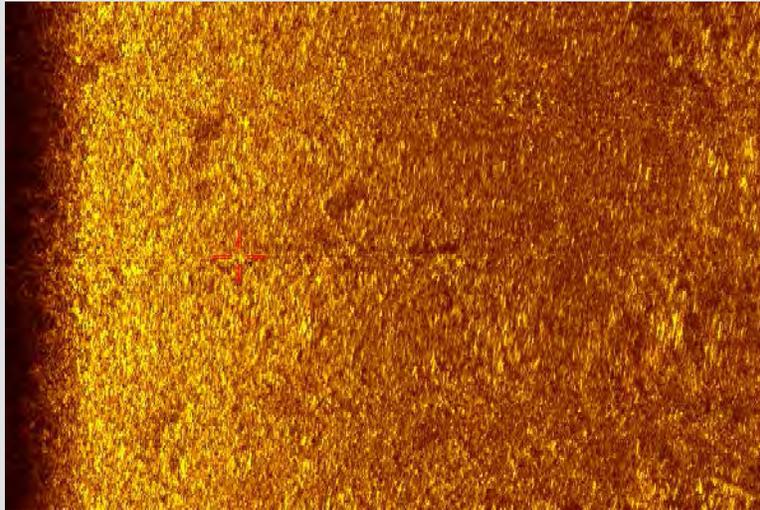
Target Latitude: 40:26.5683 N Target Longitude: 74:03.4776 W  
Heading: 25 Degrees Ground Range: 5.1 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 1.96 Meters Width: 1.45 Meters  
Height: 0.82 Meters

### Target-1-73



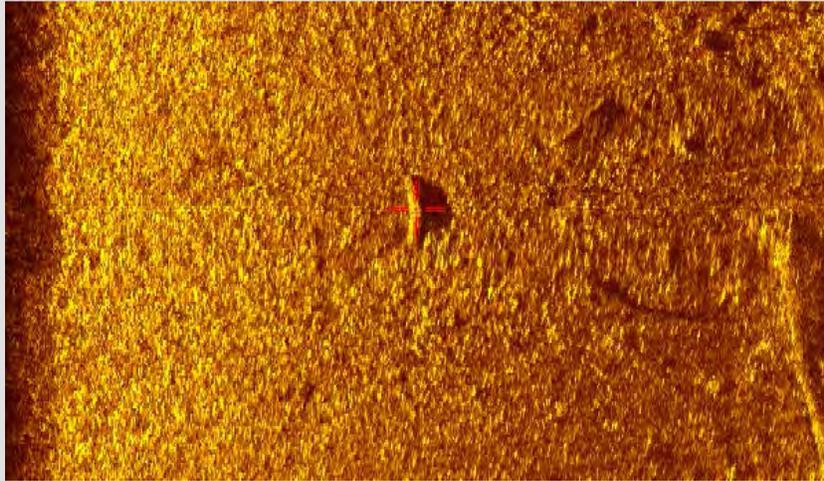
Target Latitude: 40:26.5685 N Target Longitude: 74:03.4783 W  
Heading: 25 Degrees Ground Range: 4.2 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 0.21 Meters Width: 0.29 Meters  
Height: 0.88 Meters

### Target-1-74



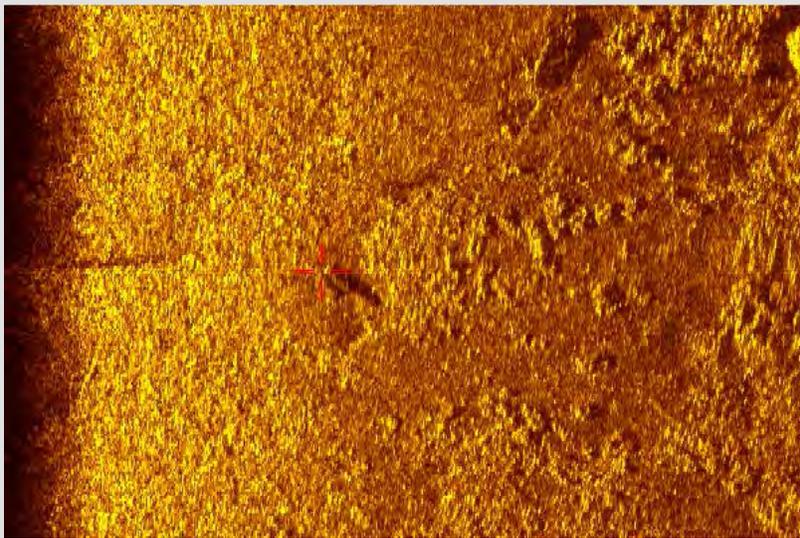
Target Latitude: 40:26.6475 N Target Longitude: 74:03.4239 W  
Heading: 26 Degrees Ground Range: 5.8 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 0.52 Meters Width: 0.42 Meters  
Height: 1.52 Meters

### Target-1-75



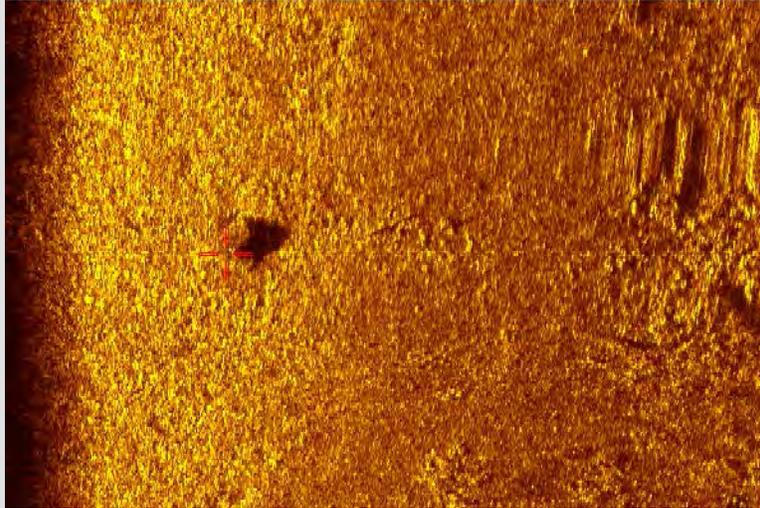
Target Latitude: 40:26.6517 N Target Longitude: 74:03.4178 W  
Heading: 28 Degrees Ground Range: 9.9 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 1.49 Meters Width: 0.54 Meters  
Height: 0.27 Meters

### Target-1-76



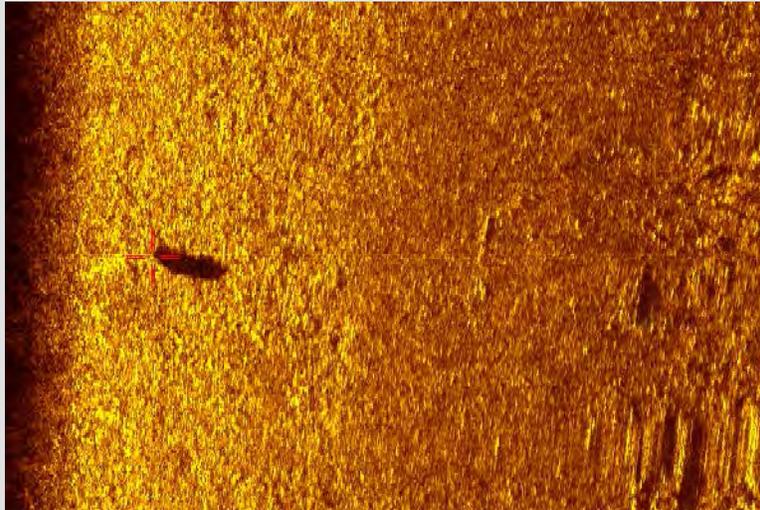
Target Latitude: 40:26.6760 N Target Longitude: 74:03.4036 W  
Heading: 27 Degrees Ground Range: 7.4 Meters to Starboard  
Speed: 3.2 Knots File: 15L.jsf  
Length: 0.28 Meters Width: 0.62 Meters  
Height: 0.55 Meters

### Target-1-77



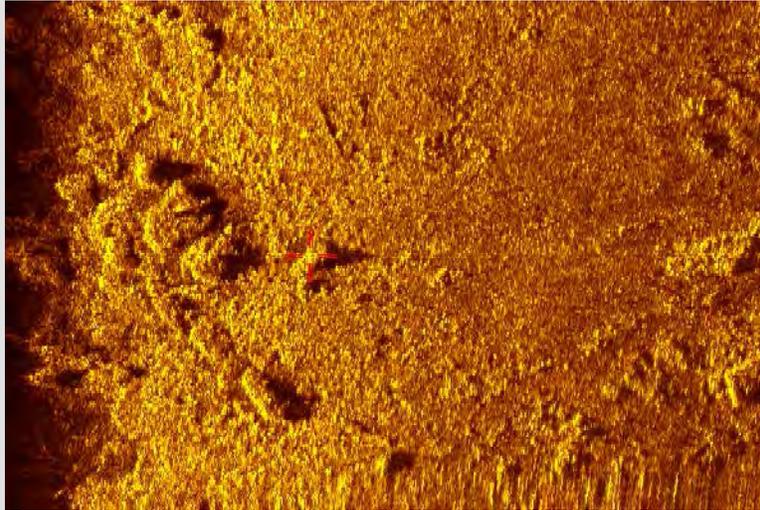
Target Latitude: 40:26.6857 N Target Longitude: 74:03.3982 W  
Heading: 22 Degrees Ground Range: 5.5 Meters to Starboard  
Speed: 2.9 Knots File: 15L.jsf  
Length: 1.05 Meters Width: 0.97 Meters  
Height: 0.61 Meters

### Target-1-78



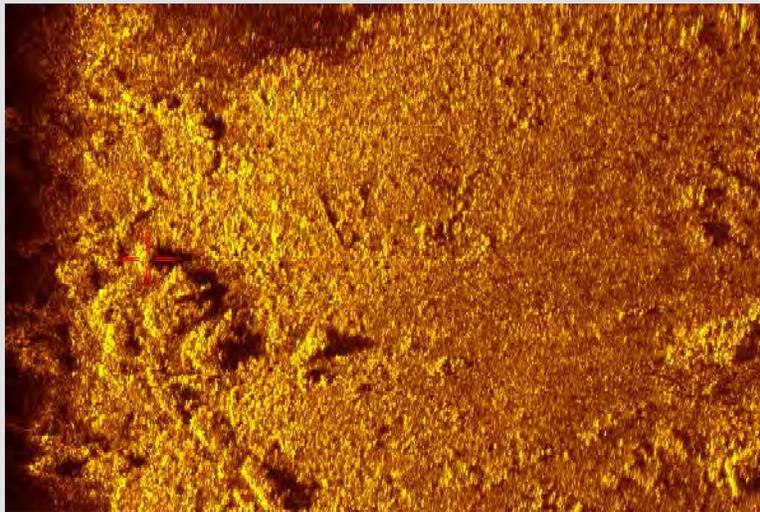
Target Latitude: 40:26.6896 N Target Longitude: 74:03.3971 W  
Heading: 29 Degrees Ground Range: 3.8 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 0.61 Meters Width: 0.72 Meters  
Height: 1.11 Meters

### Target-1-79



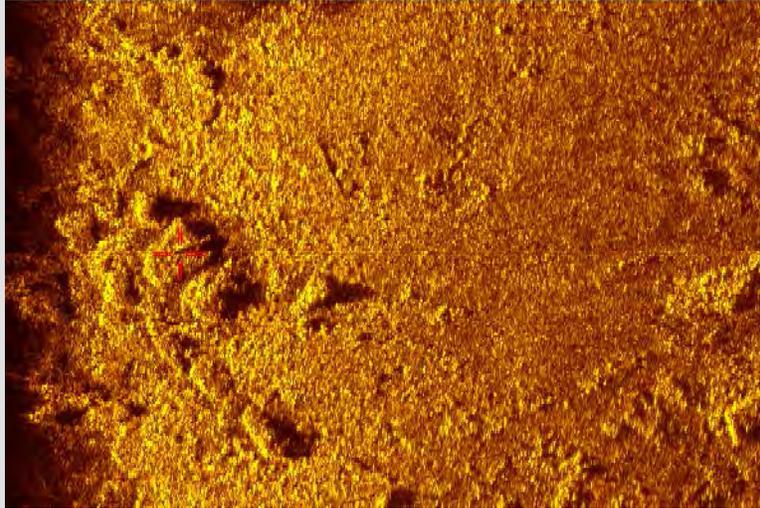
Target Latitude: 40:26.7026 N Target Longitude: 74:03.3847 W  
Heading: 32 Degrees Ground Range: 7.5 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 0.99 Meters Width: 1.76 Meters  
Height: 0.61 Meters

### Target-1-80



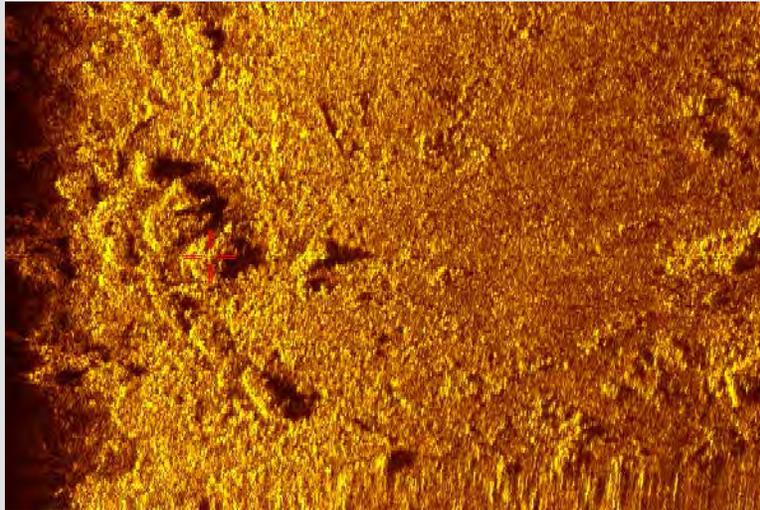
Target Latitude: 40:26.7045 N Target Longitude: 74:03.3863 W  
Heading: 28 Degrees Ground Range: 3.7 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 1.09 Meters Width: 1.07 Meters  
Height: 0.78 Meters

### Target-1-81



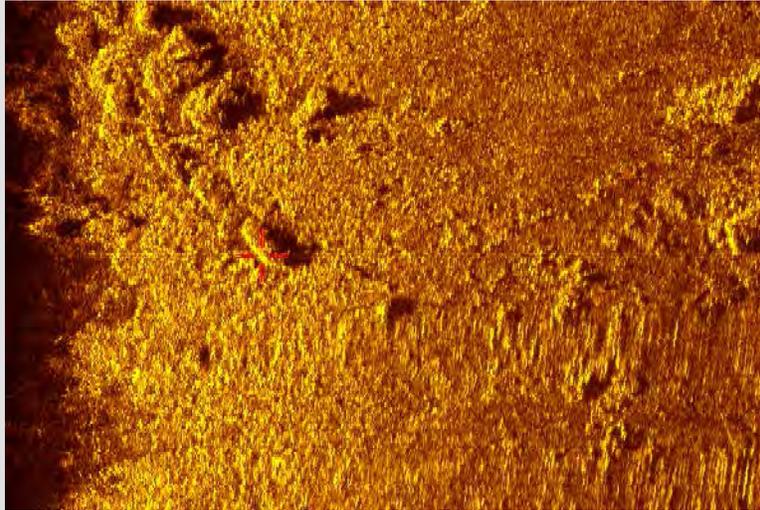
Target Latitude: 40:26.7043 N Target Longitude: 74:03.3859 W  
Heading: 28 Degrees Ground Range: 4.4 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 1.68 Meters Width: 1.52 Meters  
Height: 0.75 Meters

### Target-1-82



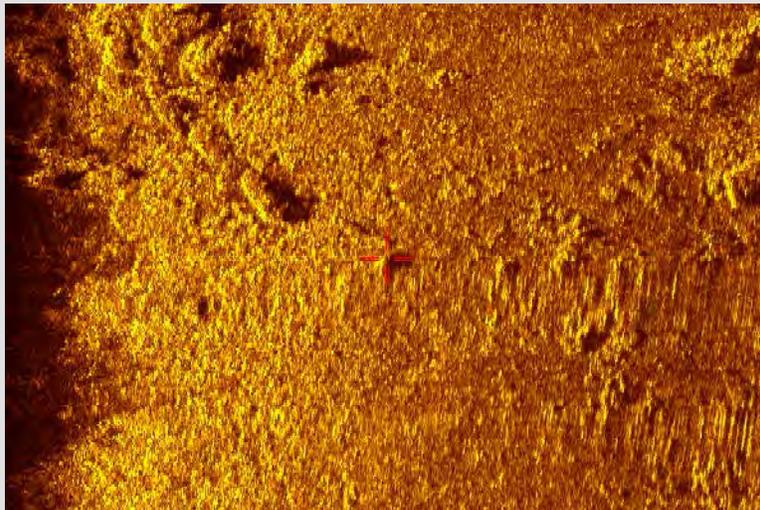
Target Latitude: 40:26.7032 N Target Longitude: 74:03.3862 W  
Heading: 32 Degrees Ground Range: 5.2 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 1.05 Meters Width: 1.27 Meters  
Height: 0.63 Meters

### Target-1-83



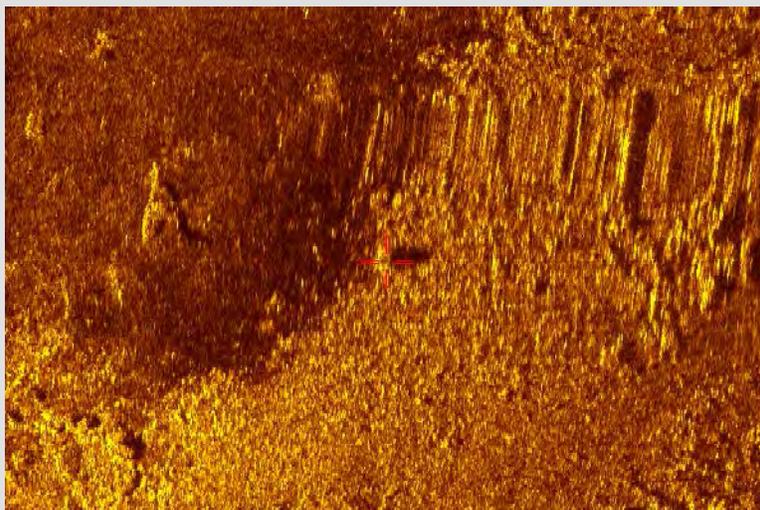
Target Latitude: 40:26.7013 N Target Longitude: 74:03.3867 W  
Heading: 33 Degrees Ground Range: 6.4 Meters to Starboard  
Speed: 3.2 Knots File: 15L.jsf  
Length: 1.55 Meters Width: 0.57 Meters  
Height: 0.58 Meters

### Target-1-84



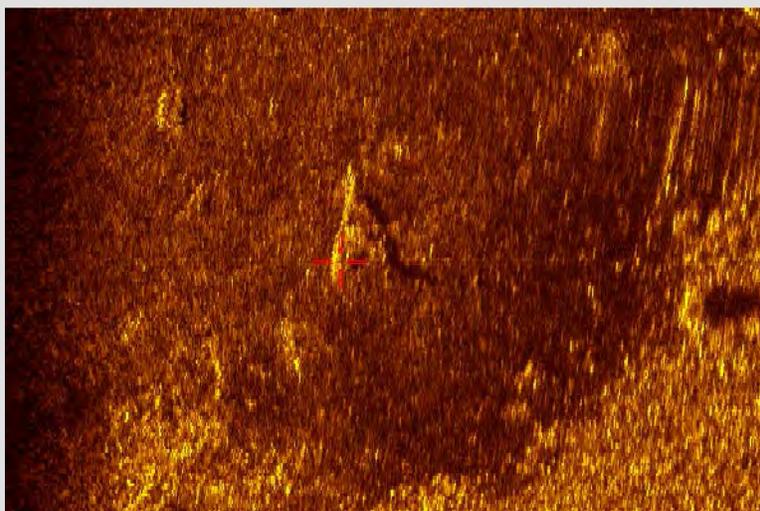
Target Latitude: 40:26.6996 N Target Longitude: 74:03.3857 W  
Heading: 35 Degrees Ground Range: 9.3 Meters to Starboard  
Speed: 3.1 Knots File: 15L.jsf  
Length: 0.66 Meters Width: 0.86 Meters  
Height: 0.31 Meters

### Target-1-85



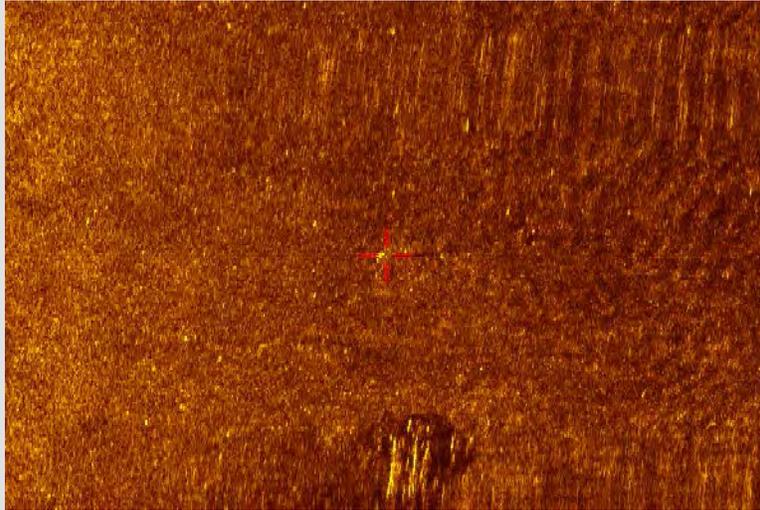
Target Latitude: 40:26.7068 N Target Longitude: 74:03.3791 W  
Heading: 23 Degrees Ground Range: 11.1 Meters to Starboard  
Speed: 2.8 Knots File: 15L.jsf  
Length: 1.03 Meters Width: 0.53 Meters  
Height: 0.31 Meters

### Target-1-86



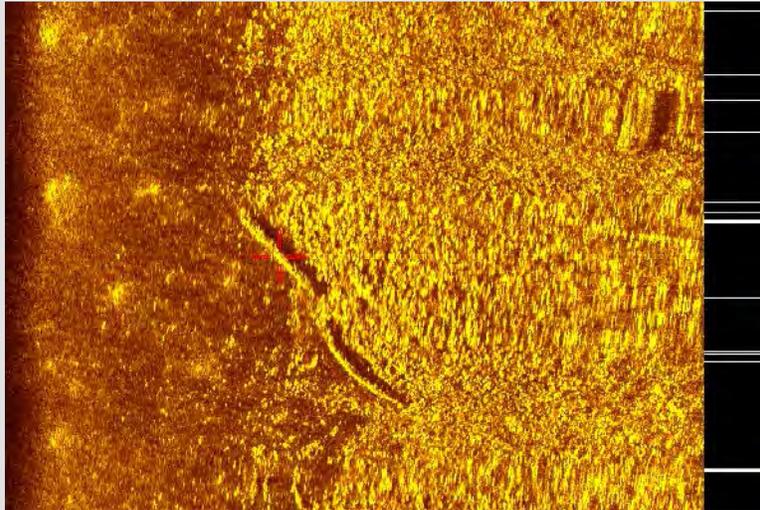
Target Latitude: 40:26.7084 N Target Longitude: 74:03.3824 W  
Heading: 27 Degrees Ground Range: 5.6 Meters to Starboard  
Speed: 2.9 Knots File: 15L.jsf  
Length: 1.65 Meters Width: 0.70 Meters  
Height: 0.72 Meters

### Target-1-87



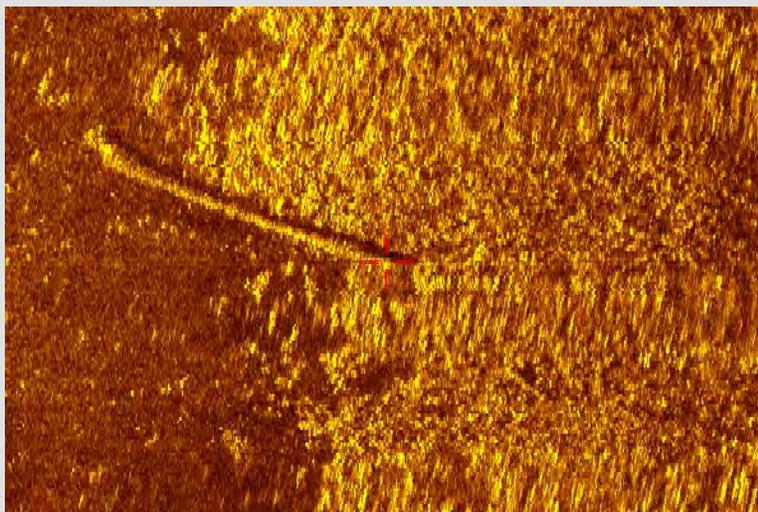
Target Latitude: 40:26.7170 N Target Longitude: 74:03.3716 W  
Heading: 28 Degrees Ground Range: 11.6 Meters to Starboard  
Speed: 3.0 Knots File: 15L.jsf  
Length: 0.40 Meters Width: 0.42 Meters  
Height: 0.62 Meters

### Target-1-88



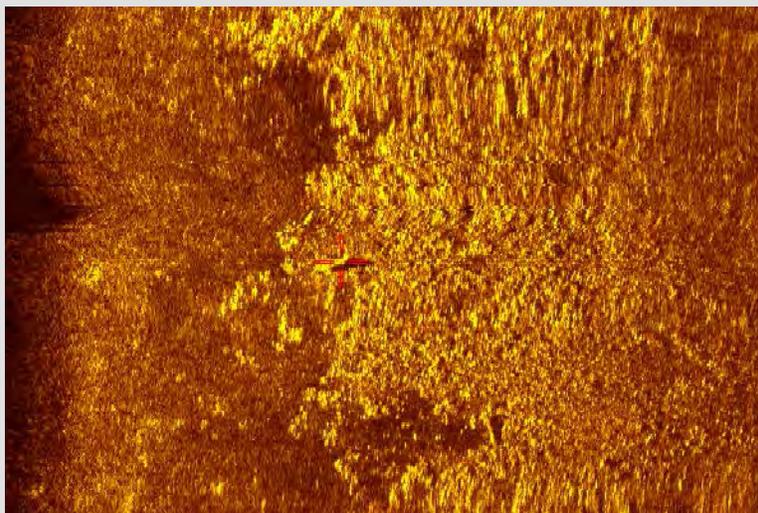
Target Latitude: 40:26.4770 N Target Longitude: 74:03.5424 W  
Heading: 26 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.8 Knots File: 16L.jsf  
Length: 3.77 Meters Width: 0.20 Meters  
Height: 0.22 Meters

### Target-1-89



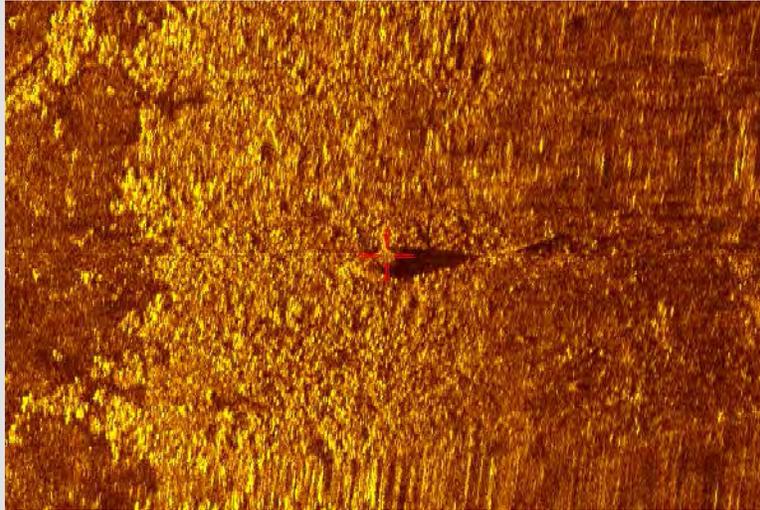
Target Latitude: 40:26.5468 N Target Longitude: 74:03.4937 W  
Heading: 29 Degrees Ground Range: 11.1 Meters to Starboard  
Speed: 2.8 Knots File: 16L.jsf  
Length: 5.19 Meters Width: 0.44 Meters  
Height: 0.17 Meters

### Target-1-90



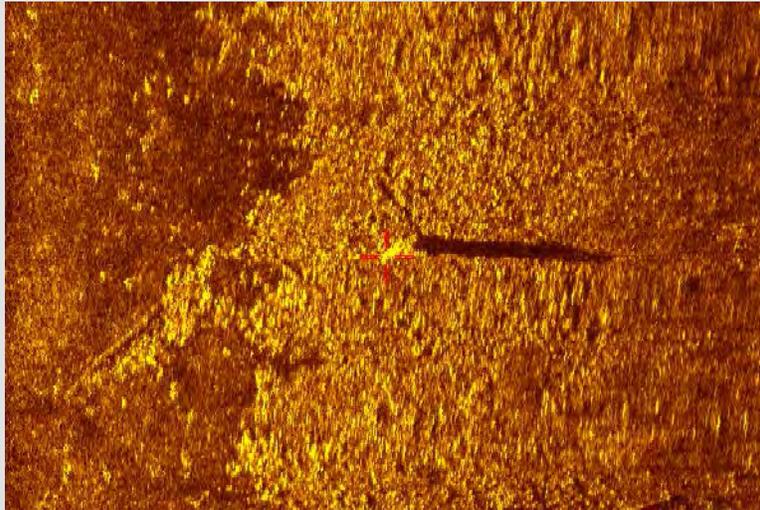
Target Latitude: 40:26.6674 N Target Longitude: 74:03.4144 W  
Heading: 25 Degrees Ground Range: 8.2 Meters to Starboard  
Speed: 2.5 Knots File: 16L.jsf  
Length: 0.46 Meters Width: 0.34 Meters  
Height: 0.41 Meters

### Target-1-91



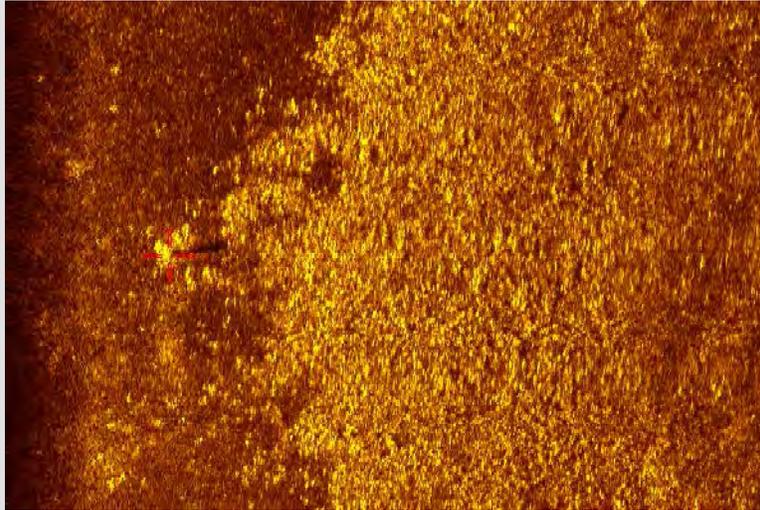
Target Latitude: 40:26.6866 N Target Longitude: 74:03.3971 W  
Heading: 28 Degrees Ground Range: 13.4 Meters to Starboard  
Speed: 2.7 Knots File: 16L.jsf  
Length: 0.61 Meters Width: 0.68 Meters  
Height: 0.47 Meters

### Target-1-92



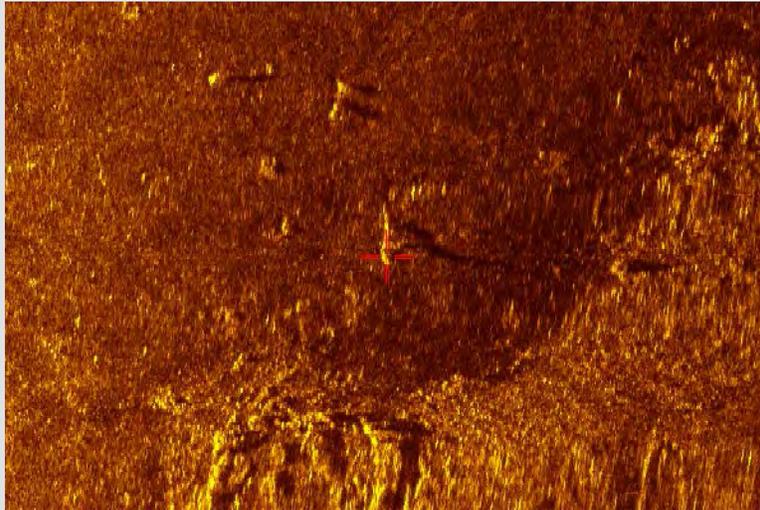
Target Latitude: 40:26.6901 N Target Longitude: 74:03.3969 W  
Heading: 28 Degrees Ground Range: 10.7 Meters to Starboard  
Speed: 2.8 Knots File: 16L.jsf  
Length: 0.72 Meters Width: 0.57 Meters  
Height: 1.26 Meters

### Target-1-93



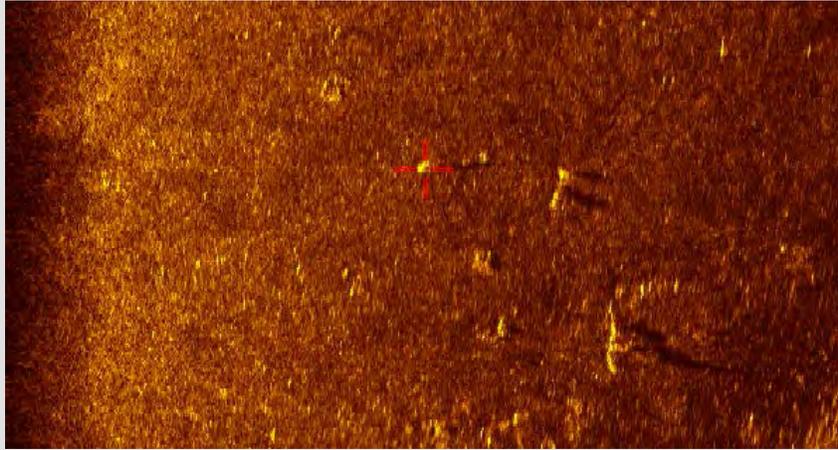
Target Latitude: 40:26.6977 N Target Longitude: 74:03.3967 W  
Heading: 29 Degrees Ground Range: 4.2 Meters to Starboard  
Speed: 2.7 Knots File: 16L.jsf  
Length: 0.75 Meters Width: 0.71 Meters  
Height: 0.92 Meters

### Target-1-94



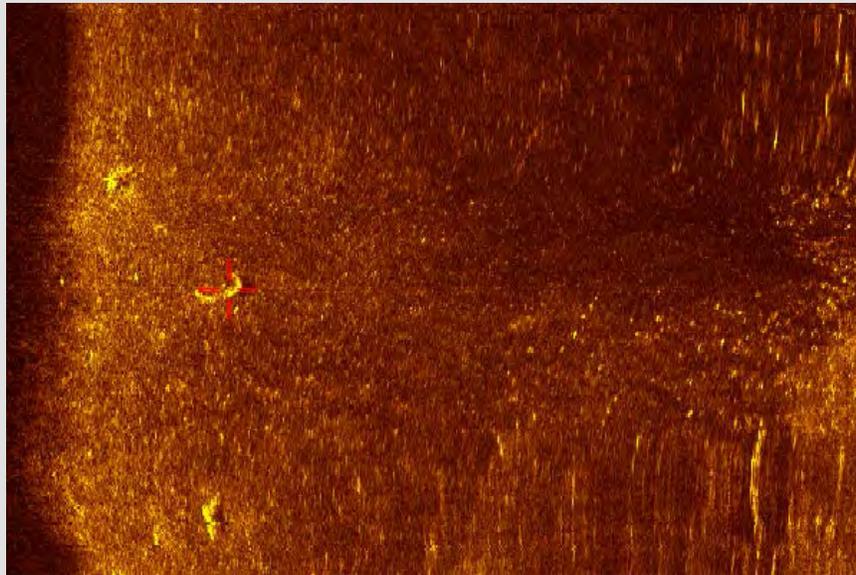
Target Latitude: 40:26.7087 N Target Longitude: 74:03.3820 W  
Heading: 27 Degrees Ground Range: 13.2 Meters to Starboard  
Speed: 2.8 Knots File: 16L.jsf  
Length: 1.12 Meters Width: 0.66 Meters  
Height: 0.65 Meters

### Target-1-95



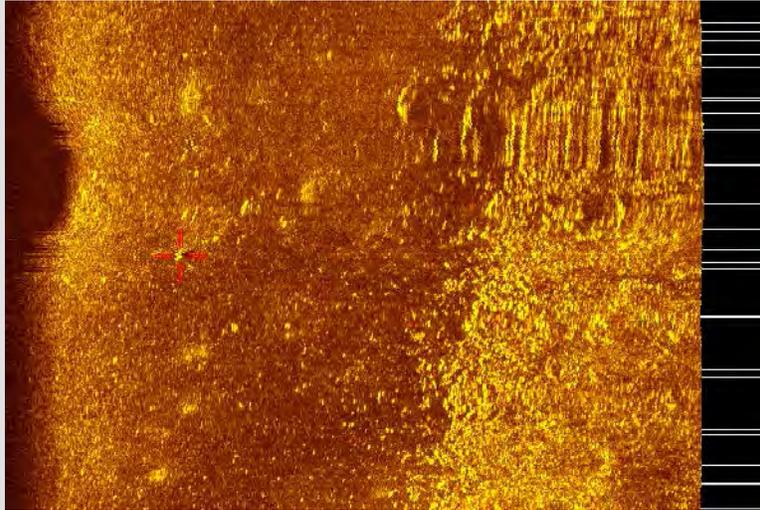
Target Latitude: 40:26.7115 N Target Longitude: 74:03.3831 W  
Heading: 29 Degrees Ground Range: 9.3 Meters to Starboard  
Speed: 2.8 Knots File: 16L.jsf  
Length: 0.23 Meters Width: 0.24 Meters  
Height: 0.50 Meters

### Target-1-96



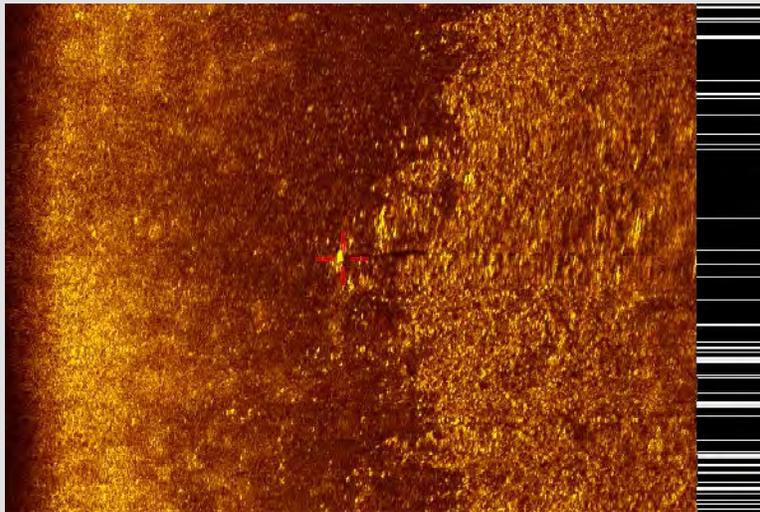
Target Latitude: 40:26.4450 N Target Longitude: 74:03.5753 W  
Heading: 19 Degrees Ground Range: 4.9 Meters to Starboard  
Speed: 2.7 Knots File: 17L.jsf  
Length: 1.01 Meters Width: 0.95 Meters  
Height: 0.23 Meters

### Target-1-97



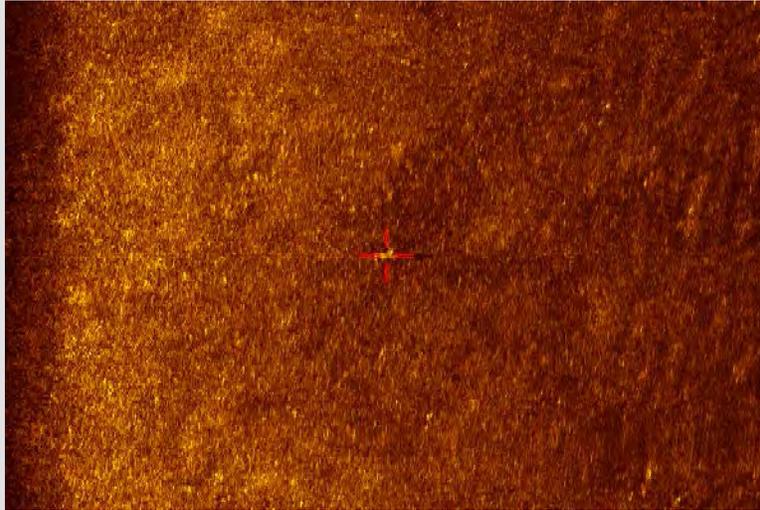
Target Latitude: 40:26.6513 N Target Longitude: 74:03.4327 W  
Heading: 22 Degrees Ground Range: 6.4 Meters to Starboard  
Speed: 2.6 Knots File: 17L.jsf  
Length: 0.50 Meters Width: 0.40 Meters  
Height: 0.33 Meters

### Target-1-98



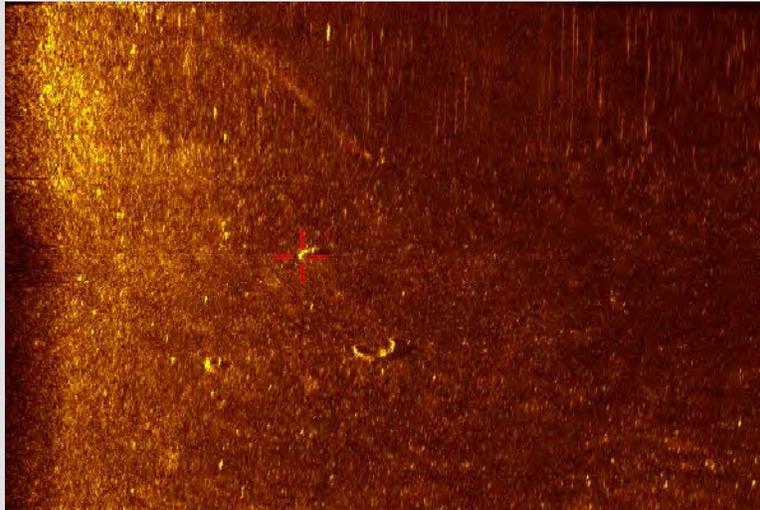
Target Latitude: 40:26.6984 N Target Longitude: 74:03.3960 W  
Heading: 23 Degrees Ground Range: 12.2 Meters to Starboard  
Speed: 2.8 Knots File: 17L.jsf  
Length: 0.54 Meters Width: 0.86 Meters  
Height: 0.75 Meters

### Target-1-99



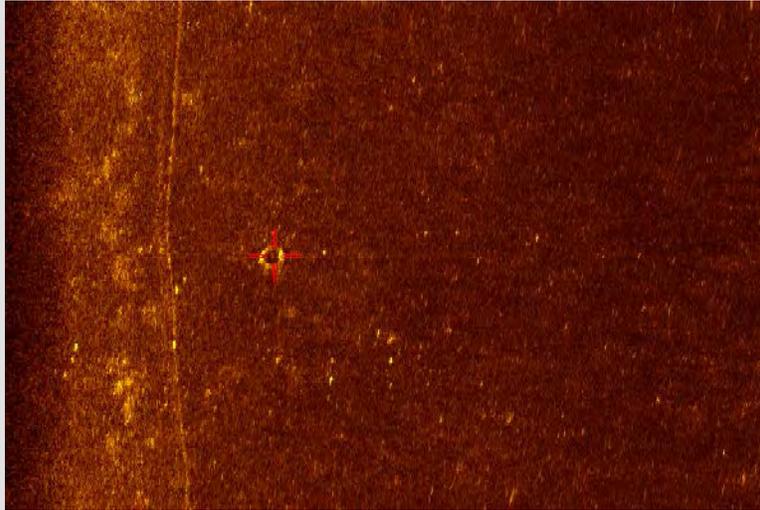
Target Latitude: 40:26.7185 N Target Longitude: 74:03.3847 W  
Heading: 31 Degrees Ground Range: 9.6 Meters to Starboard  
Speed: 3.0 Knots File: 17L.jsf  
Length: 0.58 Meters Width: 0.58 Meters  
Height: 0.52 Meters

### Target-1-100



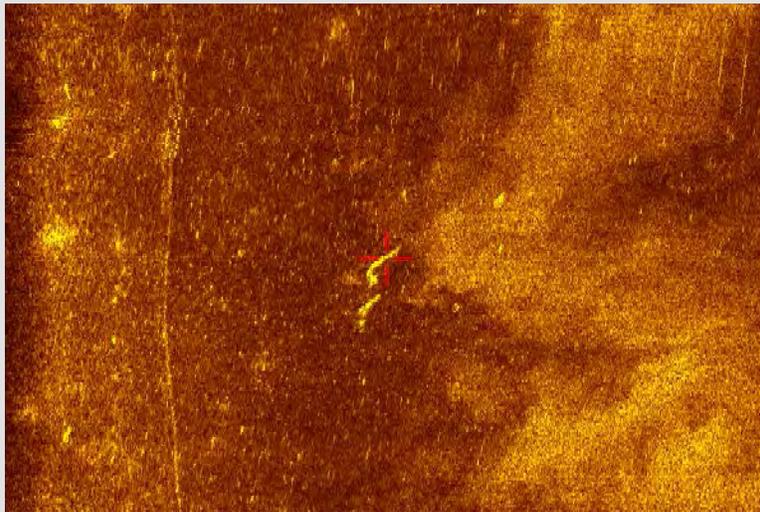
Target Latitude: 40:26.4476 N Target Longitude: 74:03.5763 W  
Heading: 357 Degrees Ground Range: 7.2 Meters to Starboard  
Speed: 2.3 Knots File: 18L.jsf  
Length: 0.53 Meters Width: 0.54 Meters  
Height: 0.21 Meters

### Target-1-101



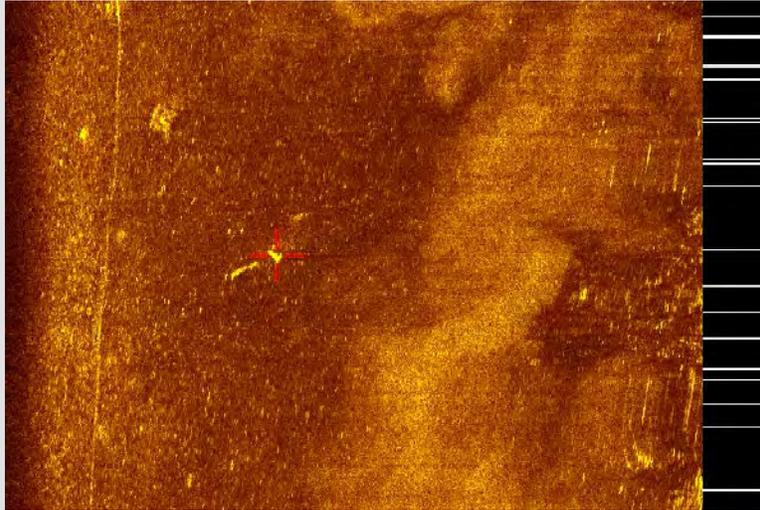
Target Latitude: 40:26.4604 N Target Longitude: 74:03.5685 W  
Heading: 28 Degrees Ground Range: 6.6 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 0.71 Meters Width: 0.73 Meters  
Height: 0.12 Meters

### Target-1-102



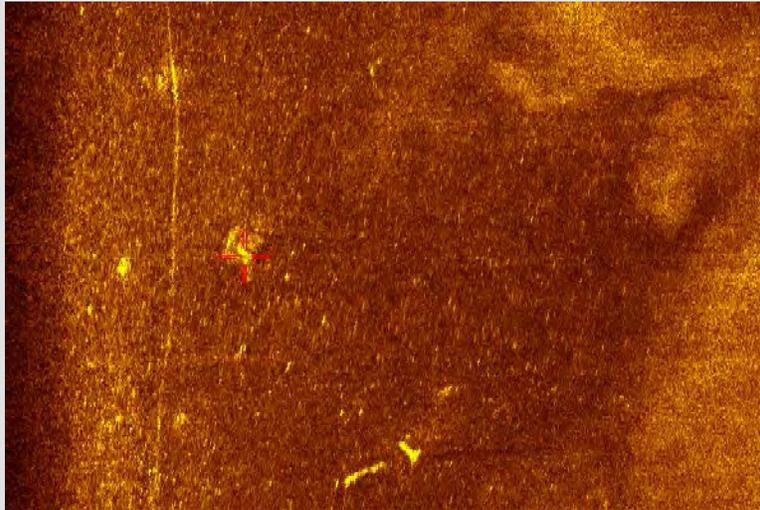
Target Latitude: 40:26.5258 N Target Longitude: 74:03.5214 W  
Heading: 29 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 2.9 Knots File: 18L.jsf  
Length: 1.32 Meters Width: 0.68 Meters  
Height: 0.26 Meters

### Target-1-103



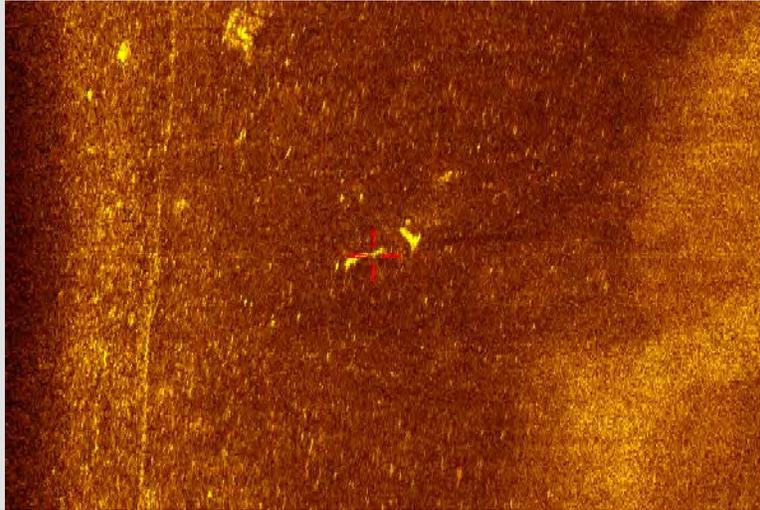
Target Latitude: 40:26.5462 N Target Longitude: 74:03.5075 W  
Heading: 23 Degrees Ground Range: 9.8 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 1.01 Meters Width: 0.52 Meters  
Height: 0.98 Meters

### Target-1-104



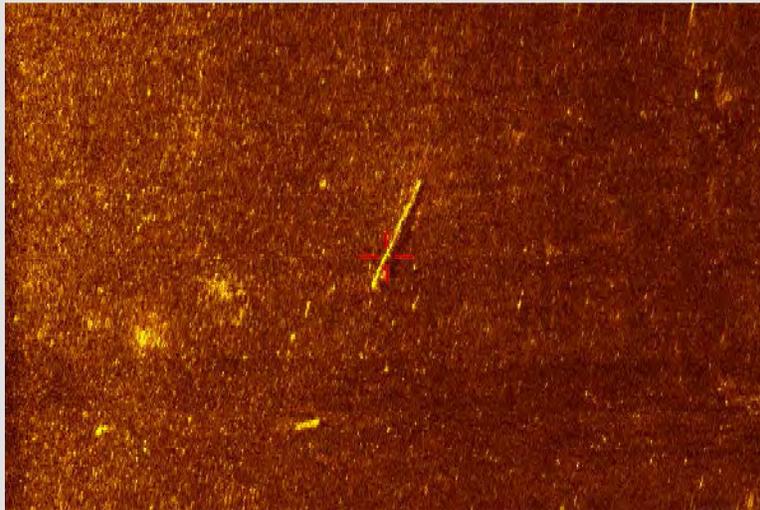
Target Latitude: 40:26.5492 N Target Longitude: 74:03.5087 W  
Heading: 24 Degrees Ground Range: 5.9 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 1.29 Meters Width: 1.00 Meters  
Height: 0.30 Meters

### Target-1-105



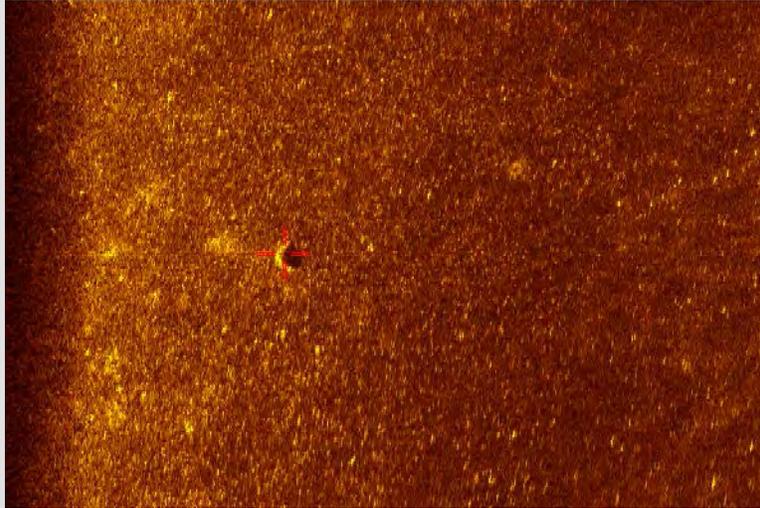
Target Latitude: 40:26.5464 N Target Longitude: 74:03.5081 W  
Heading: 23 Degrees Ground Range: 8.9 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 0.90 Meters Width: 0.68 Meters  
Height: 0.81 Meters

### Target-1-106



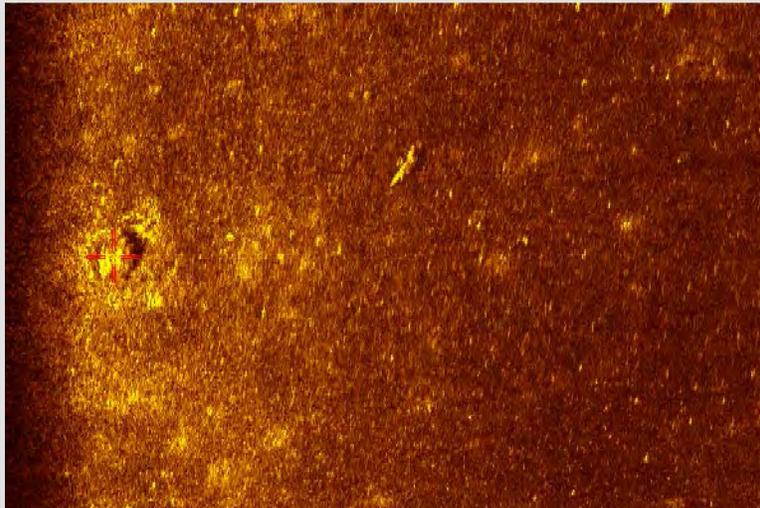
Target Latitude: 40:26.5911 N Target Longitude: 74:03.4767 W  
Heading: 25 Degrees Ground Range: 10.6 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 2.59 Meters Width: 0.49 Meters  
Height: 0.16 Meters

### Target-1-107



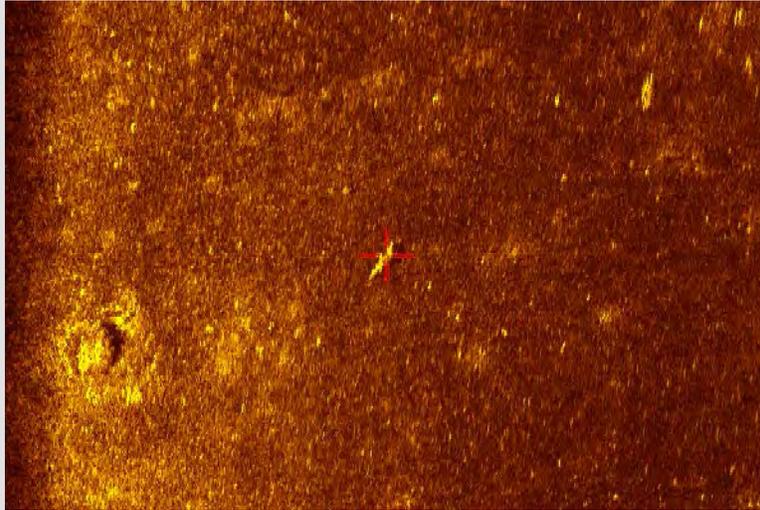
Target Latitude: 40:26.6458 N Target Longitude: 74:03.4418 W  
Heading: 30 Degrees Ground Range: 6.8 Meters to Starboard  
Speed: 3.2 Knots File: 18L.jsf  
Length: 1.02 Meters Width: 0.56 Meters  
Height: 0.25 Meters

### Target-1-108



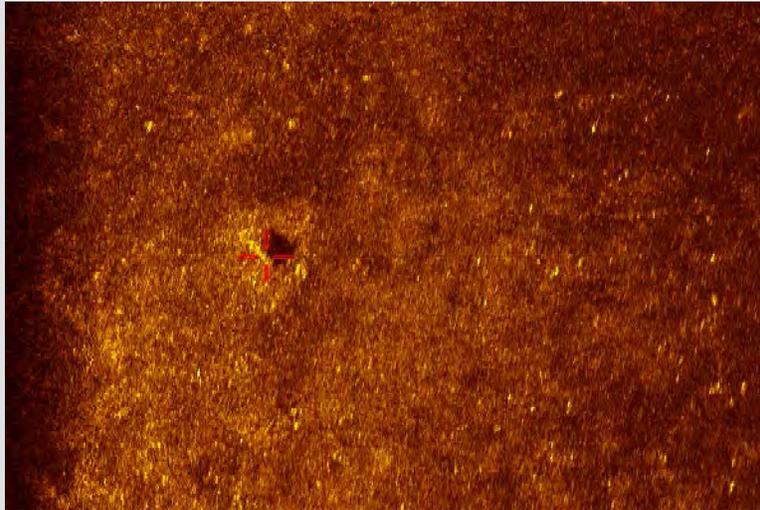
Target Latitude: 40:26.6644 N Target Longitude: 74:03.4327 W  
Heading: 26 Degrees Ground Range: 2.9 Meters to Starboard  
Speed: 3.1 Knots File: 18L.jsf  
Length: 1.13 Meters Width: 1.03 Meters  
Height: 0.64 Meters

### Target-1-109



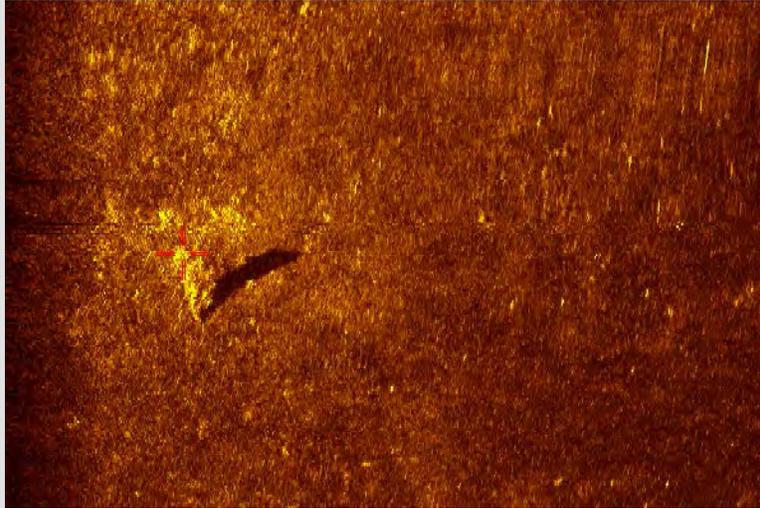
Target Latitude: 40:26.6636 N Target Longitude: 74:03.4278 W  
Heading: 26 Degrees Ground Range: 9.7 Meters to Starboard  
Speed: 3.0 Knots File: 18L.jsf  
Length: 1.01 Meters Width: 0.41 Meters  
Height: 0.16 Meters

### Target-1-110



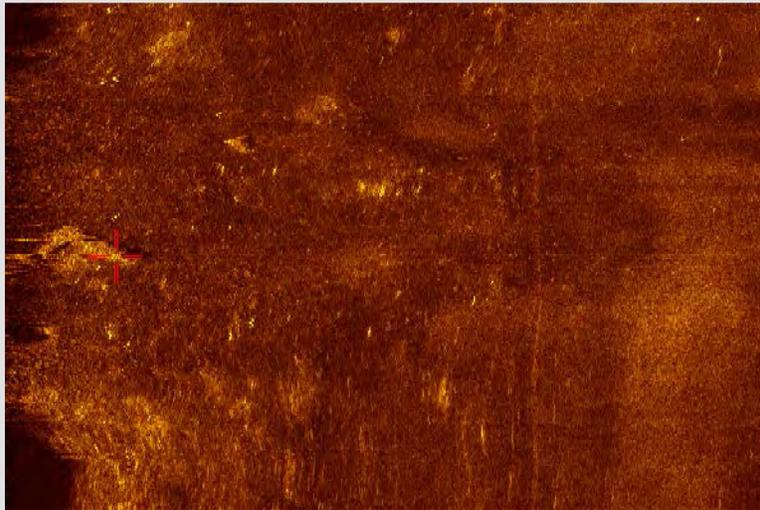
Target Latitude: 40:26.7007 N Target Longitude: 74:03.4053 W  
Heading: 28 Degrees Ground Range: 6.5 Meters to Starboard  
Speed: 3.1 Knots File: 18L.jsf  
Length: 1.43 Meters Width: 0.48 Meters  
Height: 0.54 Meters

### Target-1-111



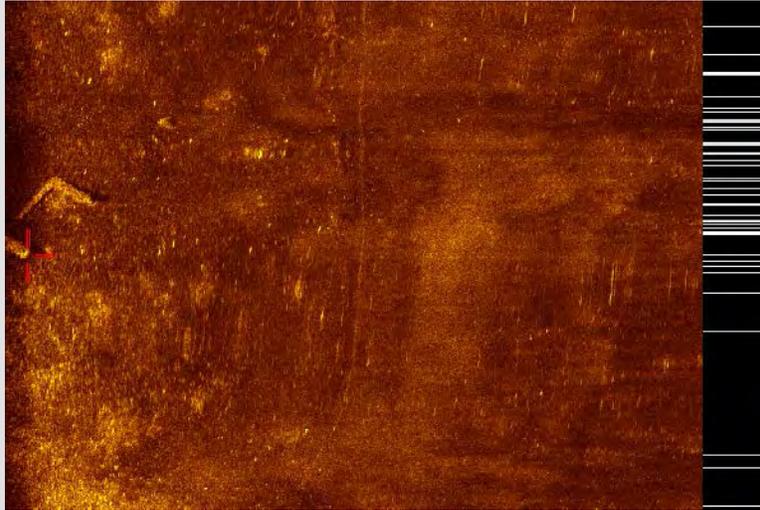
Target Latitude: 40:26.7058 N Target Longitude: 74:03.4035 W  
Heading: 25 Degrees Ground Range: 4.6 Meters to Starboard  
Speed: 2.9 Knots File: 18L.jsf  
Length: 2.20 Meters Width: 0.48 Meters  
Height: 1.62 Meters

### Target-1-112



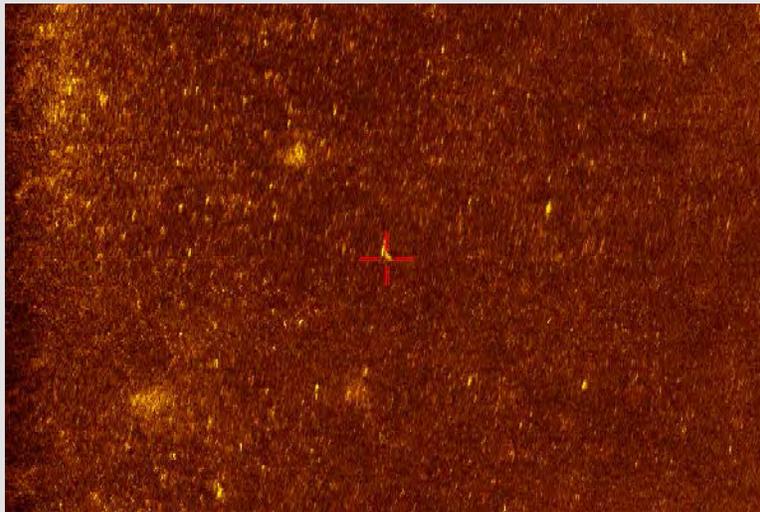
Target Latitude: 40:26.4593 N Target Longitude: 74:03.5788 W  
Heading: 30 Degrees Ground Range: 2.9 Meters to Starboard  
Speed: 2.8 Knots File: 19L.jsf  
Length: 1.98 Meters Width: 0.51 Meters  
Height: 0.62 Meters

### Target-1-113



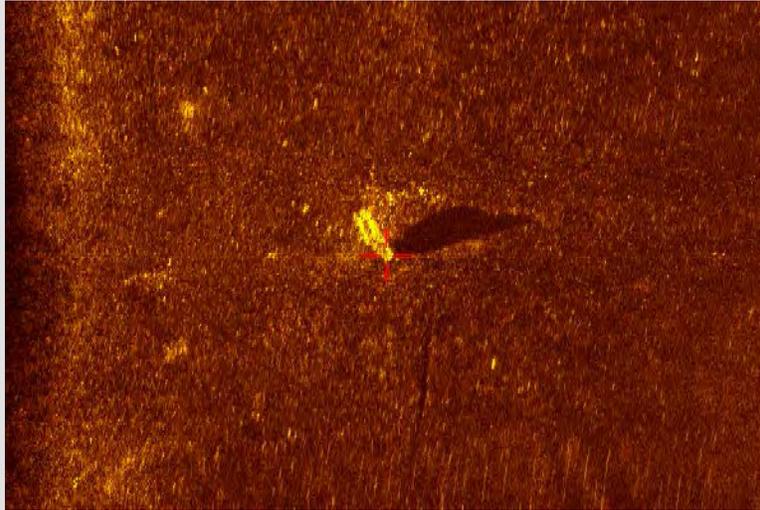
Target Latitude: 40:26.4592 N Target Longitude: 74:03.5805 W  
Heading: 33 Degrees Ground Range: 1.1 Meters to Starboard  
Speed: 2.8 Knots File: 19L.jsf  
Length: 0.81 Meters Width: 1.39 Meters  
Height: 1.33 Meters

### Target-1-114



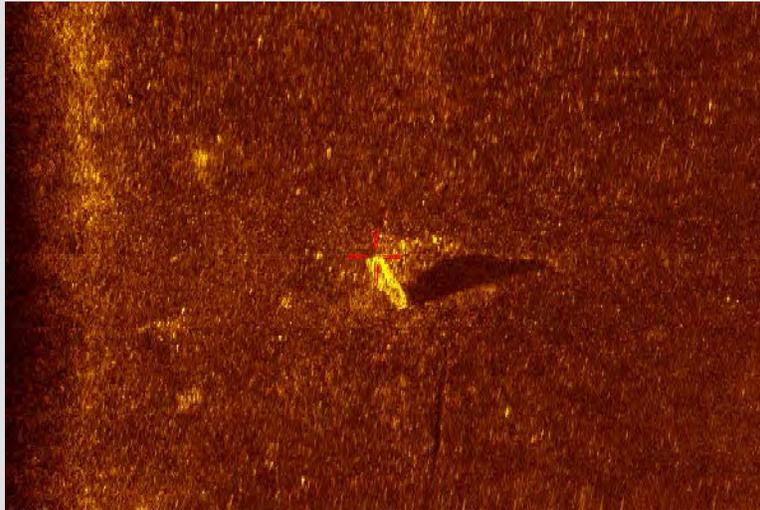
Target Latitude: 40:26.5587 N Target Longitude: 74:03.5053 W  
Heading: 27 Degrees Ground Range: 9.6 Meters to Starboard  
Speed: 3.1 Knots File: 19L.jsf  
Length: 0.70 Meters Width: 0.46 Meters  
Height: 0.22 Meters

### Target-1-115



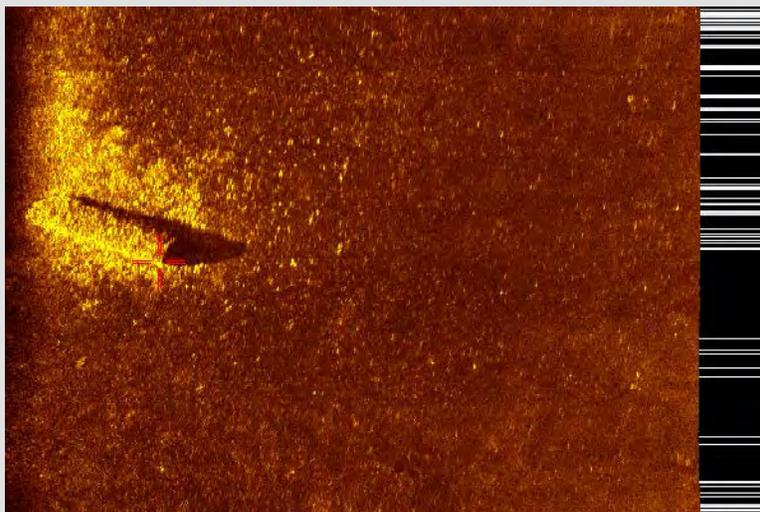
Target Latitude: 40:26.5750 N Target Longitude: 74:03.4941 W  
Heading: 31 Degrees Ground Range: 9.5 Meters to Starboard  
Speed: 3.1 Knots File: 19L.jsf  
Length: 1.45 Meters Width: 0.64 Meters  
Height: 0.68 Meters

### Target-1-116



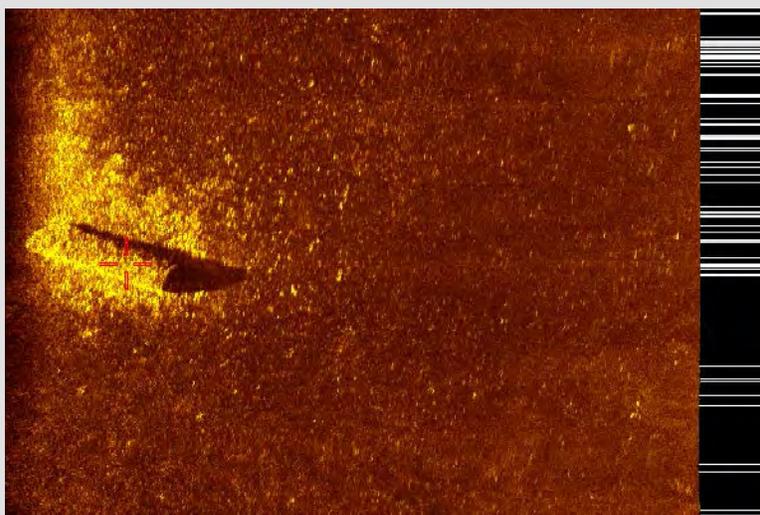
Target Latitude: 40:26.5763 N Target Longitude: 74:03.4935 W  
Heading: 24 Degrees Ground Range: 9.0 Meters to Starboard  
Speed: 3.0 Knots File: 19L.jsf  
Length: 1.66 Meters Width: 0.45 Meters  
Height: 1.07 Meters

### Target-1-117



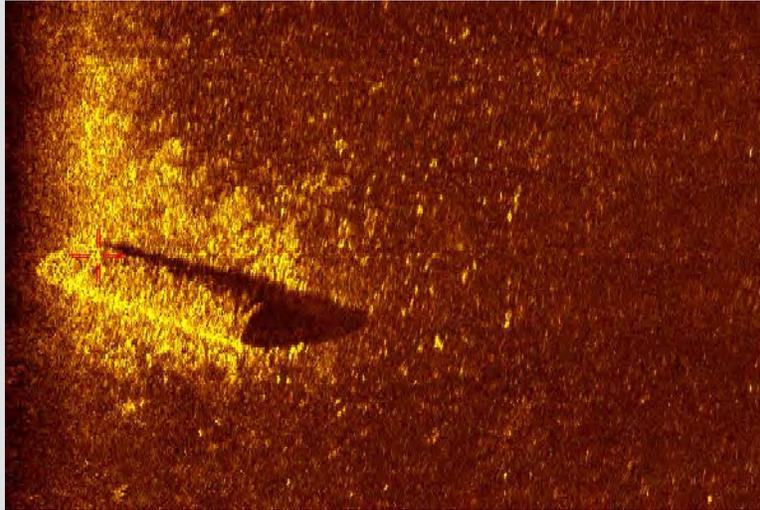
Target Latitude: 40:26.5867 N Target Longitude: 74:03.4892 W  
Heading: 26 Degrees Ground Range: 5.7 Meters to Starboard  
Speed: 3.0 Knots File: 19L.jsf  
Length: 5.80 Meters Width: 1.14 Meters  
Height: 1.27 Meters

### Target-1-118



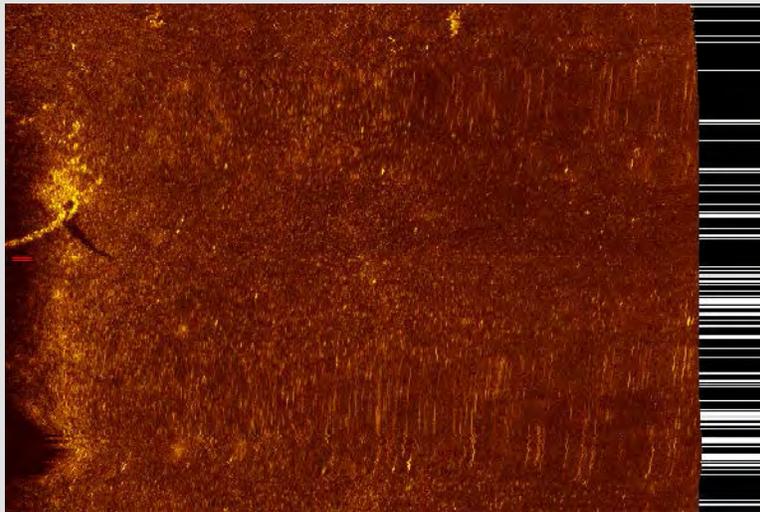
Target Latitude: 40:26.5870 N Target Longitude: 74:03.4899 W  
Heading: 26 Degrees Ground Range: 4.6 Meters to Starboard  
Speed: 3.0 Knots File: 19L.jsf  
Length: 4.90 Meters Width: 1.47 Meters  
Height: 1.26 Meters

### Target-1-119



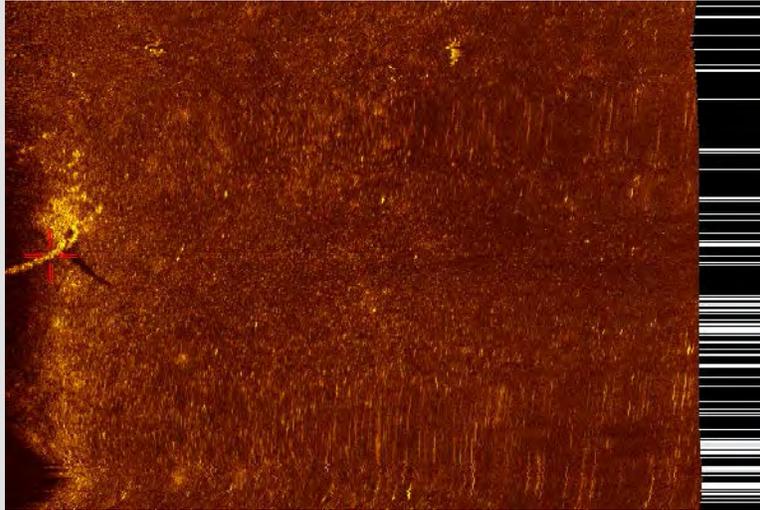
Target Latitude: 40:26.5882 N Target Longitude: 74:03.4909 W  
Heading: 26 Degrees Ground Range: 2.5 Meters to Starboard  
Speed: 2.9 Knots File: 19L.jsf  
Length: 5.00 Meters Width: 1.36 Meters  
Height: 1.00 Meters

### Target-1-120



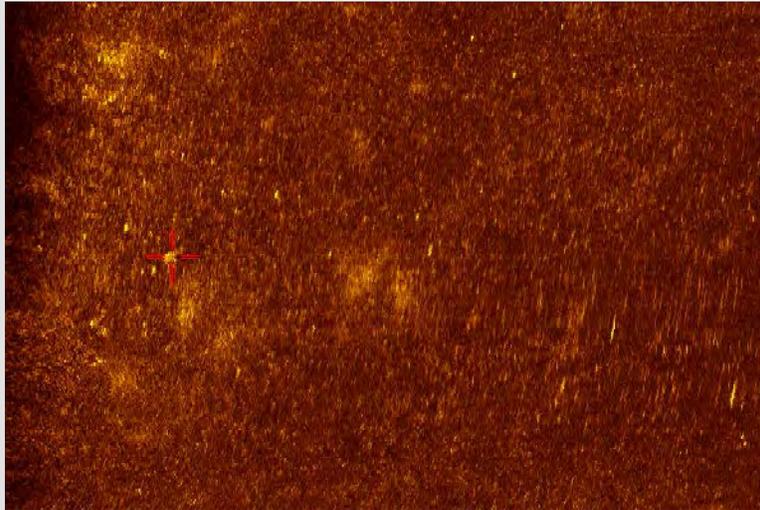
Target Latitude: 0:00.0000 S Target Longitude: 0:00.0000 W  
Heading: 24 Degrees Ground Range: -1.5 Meters to Starboard  
Speed: 2.8 Knots File: 19L.jsf  
Length: 3.06 Meters Width: 0.56 Meters  
Height: 2.90 Meters

### Target-1-121



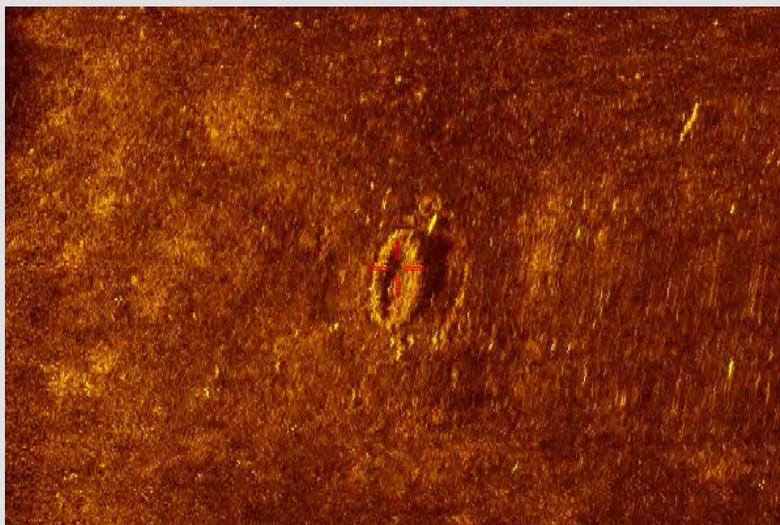
Target Latitude: 40:26.6344 N Target Longitude: 74:03.4602 W  
Heading: 24 Degrees Ground Range: 2.0 Meters to Starboard  
Speed: 2.8 Knots File: 19L.jsf  
Length: 2.61 Meters Width: 0.90 Meters  
Height: 1.68 Meters

### Target-1-122



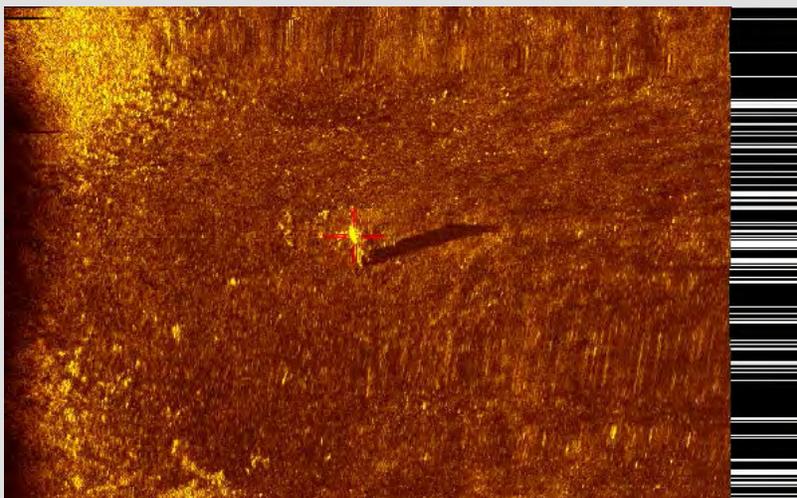
Target Latitude: 40:26.6415 N Target Longitude: 74:03.4537 W  
Heading: 30 Degrees Ground Range: 4.3 Meters to Starboard  
Speed: 2.9 Knots File: 19L.jsf  
Length: 0.85 Meters Width: 0.56 Meters  
Height: 0.55 Meters

### Target-1-123



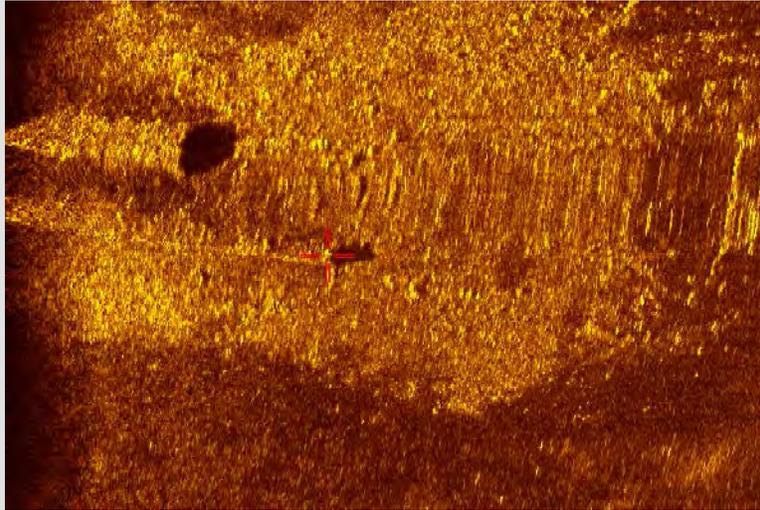
Target Latitude: 40:26.6645 N Target Longitude: 74:03.4323 W  
Heading: 33 Degrees Ground Range: 10.5 Meters to Starboard  
Speed: 3.1 Knots File: 19L.jsf  
Length: 2.49 Meters Width: 1.30 Meters  
Height: 0.39 Meters

### Target-1-124



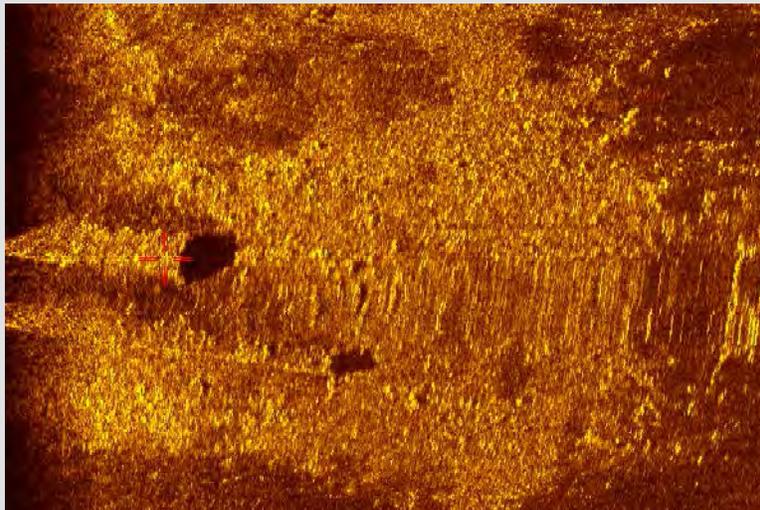
Target Latitude: 40:26.7061 N Target Longitude: 74:03.4025 W  
Heading: 31 Degrees Ground Range: 12.0 Meters to Starboard  
Speed: 3.0 Knots File: 19L.jsf  
Length: 1.98 Meters Width: 1.12 Meters  
Height: 1.11 Meters

### Target-1-125



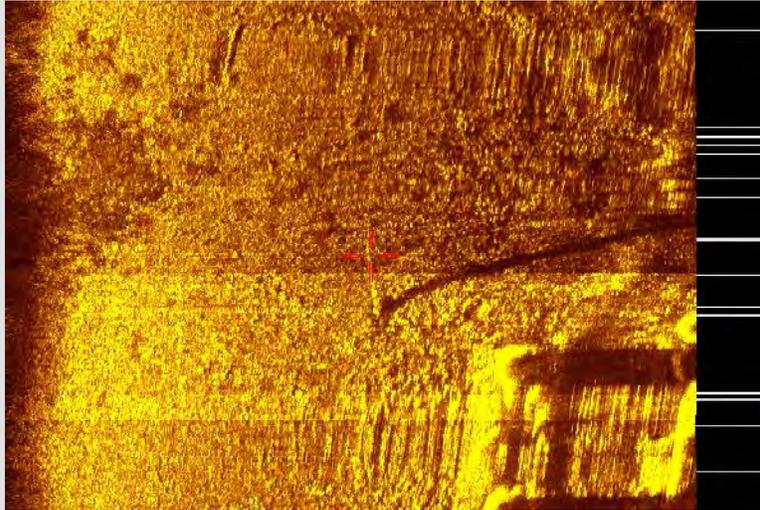
Target Latitude: 40:26.7400 N Target Longitude: 74:03.3831 W  
Heading: 25 Degrees Ground Range: 7.9 Meters to Starboard  
Speed: 2.6 Knots File: Unknown  
Length: 0.70 Meters Width: 0.54 Meters  
Height: 0.51 Meters

### Target-1-126



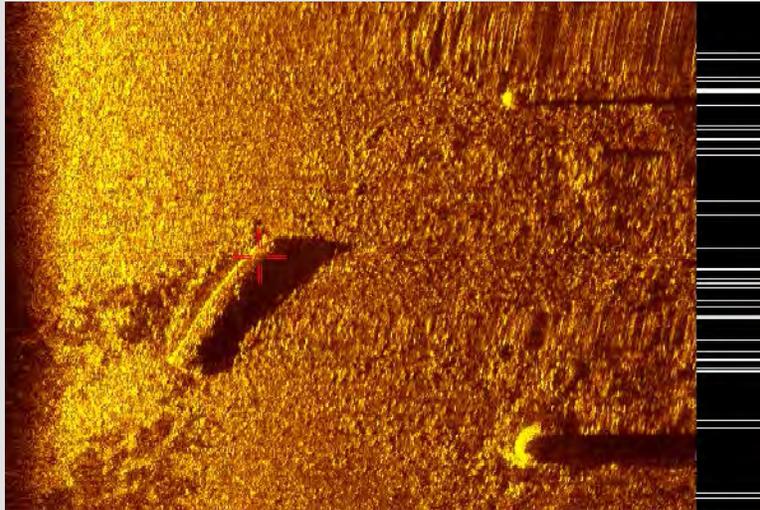
Target Latitude: 40:26.7413 N Target Longitude: 74:03.3852 W  
Heading: 32 Degrees Ground Range: 4.1 Meters to Starboard  
Speed: 2.9 Knots File: Unknown  
Length: 3.76 Meters Width: 1.11 Meters  
Height: 1.09 Meters

### Target-1-127



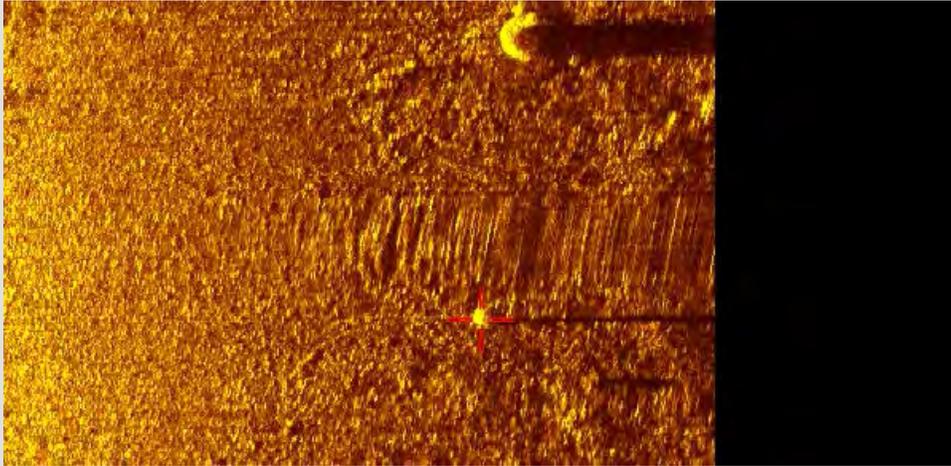
Target Latitude: 40:26.7207 N Target Longitude: 74:03.4069 W  
Heading: 208 Degrees Ground Range: 13.2 Meters to Starboard  
Speed: 3.0 Knots File: 17R.jsf  
Length: 3.24 Meters Width: 0.71 Meters  
Height: 1.82 Meters

### Target-1-128



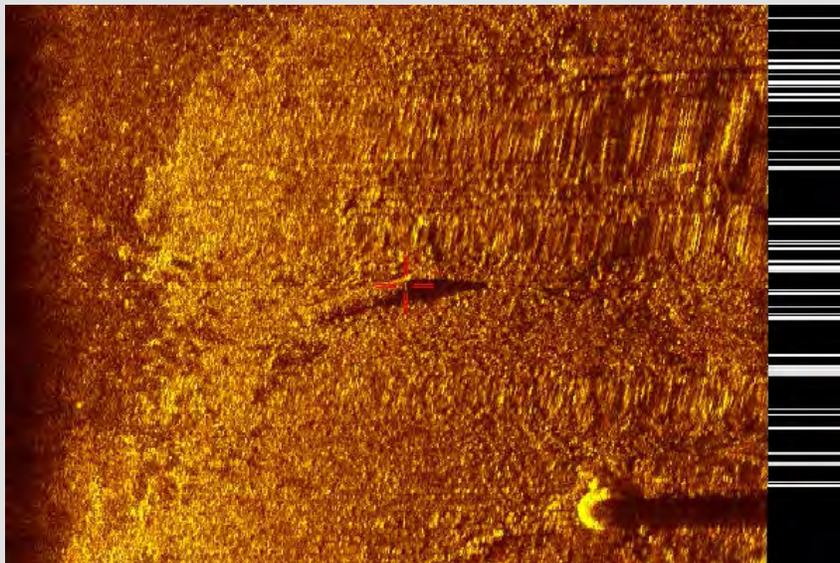
Target Latitude: 40:26.7021 N Target Longitude: 74:03.4156 W  
Heading: 205 Degrees Ground Range: 9.3 Meters to Starboard  
Speed: 3.2 Knots File: 17R.jsf  
Length: 5.67 Meters Width: 1.89 Meters  
Height: 0.85 Meters

### Target-1-129



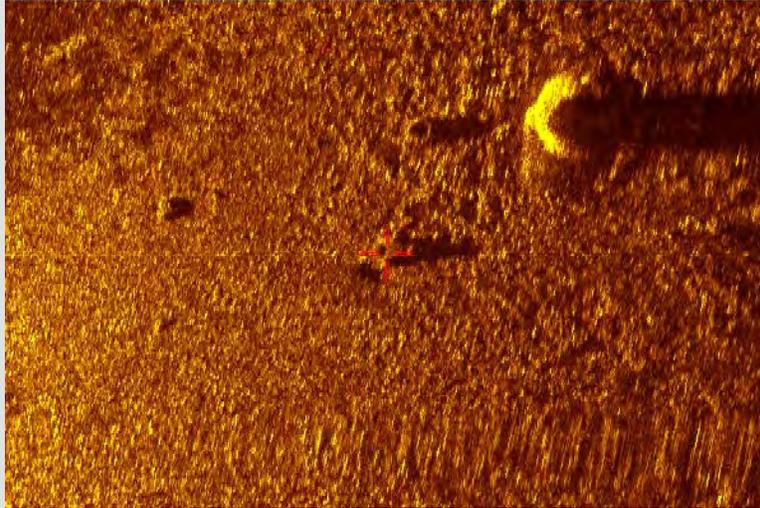
Target Latitude: 40:26.7013 N Target Longitude: 74:03.4230 W  
Heading: 207 Degrees Ground Range: 18.0 Meters to Starboard  
Speed: 3.2 Knots File: 17R.jsf  
Length: 0.85 Meters Width: 0.60 Meters  
Height: 1.07 Meters

### Target-1-130



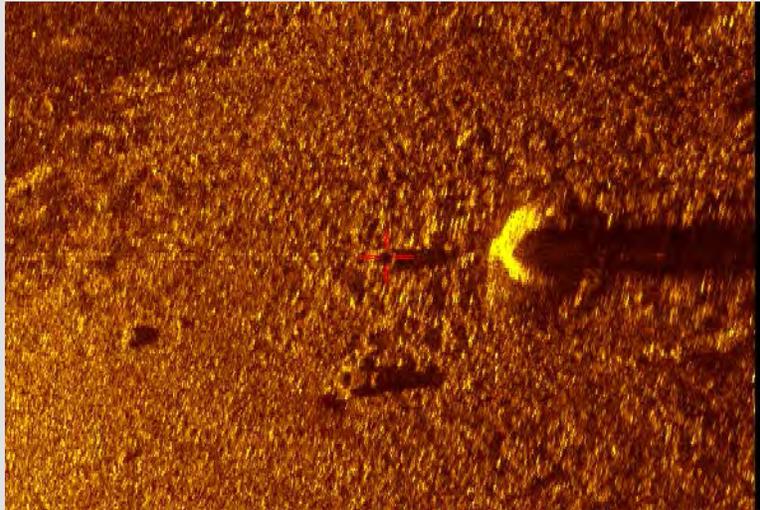
Target Latitude: 40:26.6927 N Target Longitude: 74:03.4250 W  
Heading: 204 Degrees Ground Range: 13.1 Meters to Starboard  
Speed: 3.0 Knots File: 17R.jsf  
Length: 3.98 Meters Width: 1.04 Meters  
Height: 0.63 Meters

### Target-1-131



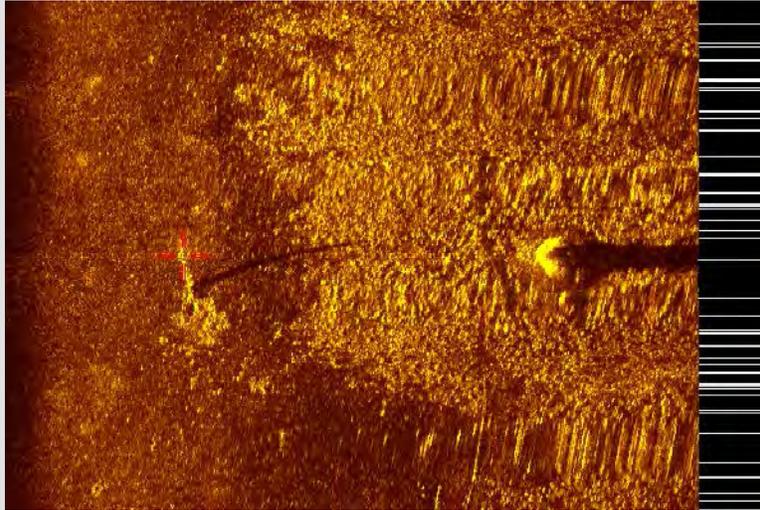
Target Latitude: 40:26.6810 N Target Longitude: 74:03.4346 W  
Heading: 206 Degrees Ground Range: 15.2 Meters to Starboard  
Speed: 3.1 Knots File: 17R.jsf  
Length: 1.04 Meters Width: 0.95 Meters  
Height: 0.44 Meters

### Target-1-132



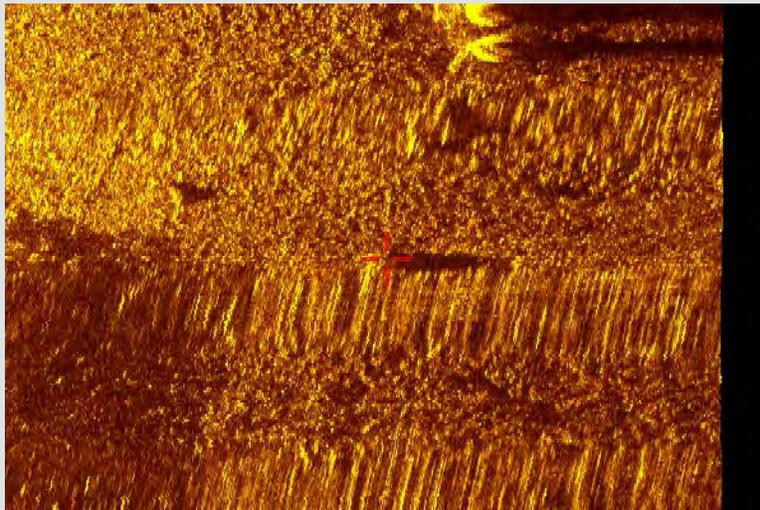
Target Latitude: 40:26.6807 N Target Longitude: 74:03.4356 W  
Heading: 208 Degrees Ground Range: 16.0 Meters to Starboard  
Speed: 3.3 Knots File: 17R.jsf  
Length: 0.78 Meters Width: 0.82 Meters  
Height: 0.38 Meters

### Target-1-133



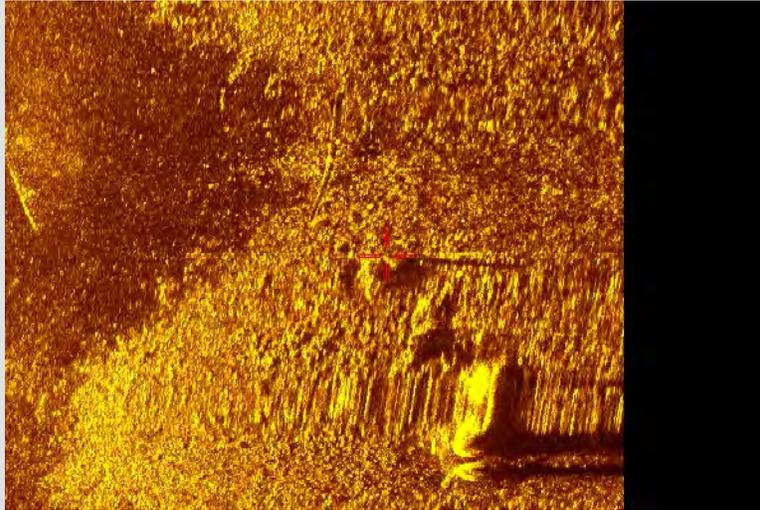
Target Latitude: 40:26.6340 N Target Longitude: 74:03.4596 W  
Heading: 209 Degrees Ground Range: 6.6 Meters to Starboard  
Speed: 3.1 Knots File: 17R.jsf  
Length: 4.19 Meters Width: 0.76 Meters  
Height: 1.79 Meters

### Target-1-134



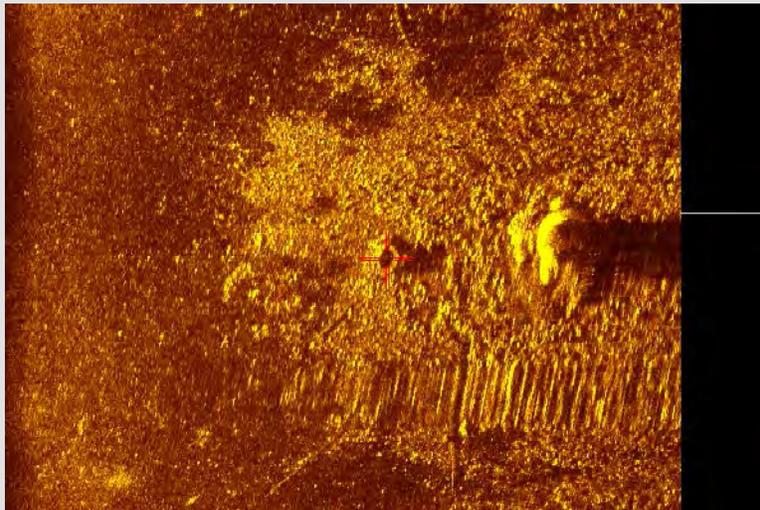
Target Latitude: 40:26.6221 N Target Longitude: 74:03.4760 W  
Heading: 208 Degrees Ground Range: 16.8 Meters to Starboard  
Speed: 3.1 Knots File: 17R.jsf  
Length: 0.87 Meters Width: 0.65 Meters  
Height: 0.51 Meters

### Target-1-135



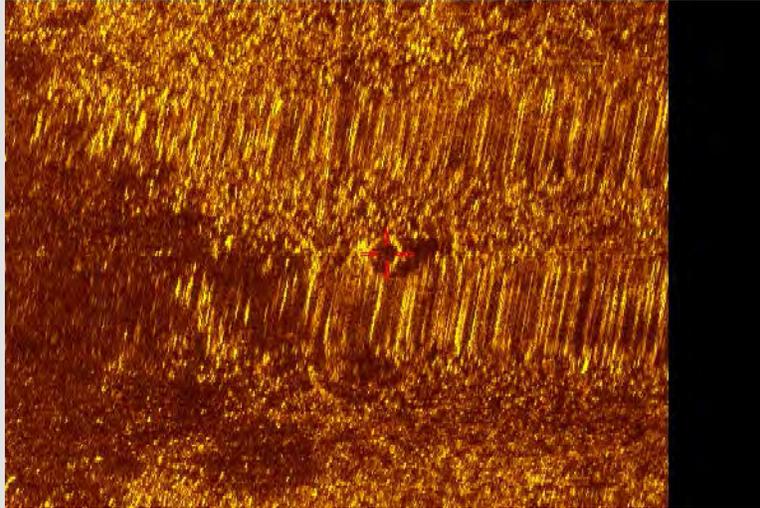
Target Latitude: 40:26.6162 N Target Longitude: 74:03.4797 W  
Heading: 211 Degrees Ground Range: 16.3 Meters to Starboard  
Speed: 3.2 Knots File: 17R.jsf  
Length: 1.51 Meters Width: 1.59 Meters  
Height: 0.74 Meters

### Target-1-136



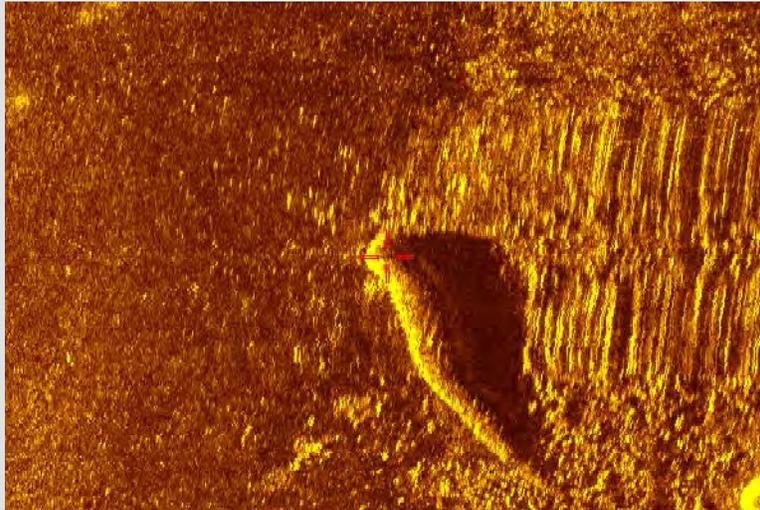
Target Latitude: 40:26.5565 N Target Longitude: 74:03.5185 W  
Heading: 210 Degrees Ground Range: 14.4 Meters to Starboard  
Speed: 3.3 Knots File: 17R.jsf  
Length: 1.87 Meters Width: 1.17 Meters  
Height: 0.39 Meters

### Target-1-137



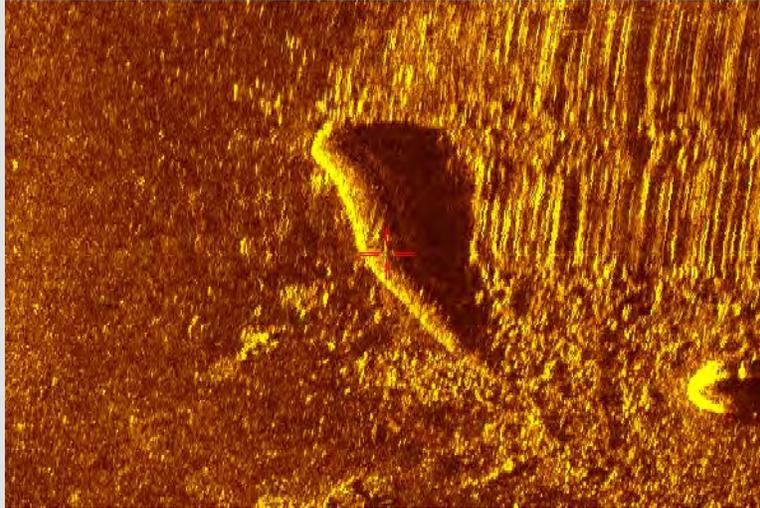
Target Latitude: 40:26.5426 N Target Longitude: 74:03.5309 W  
Heading: 208 Degrees Ground Range: 18.1 Meters to Starboard  
Speed: 3.1 Knots File: 17R.jsf  
Length: 1.28 Meters Width: 1.30 Meters  
Height: 0.21 Meters

### Target-1-138



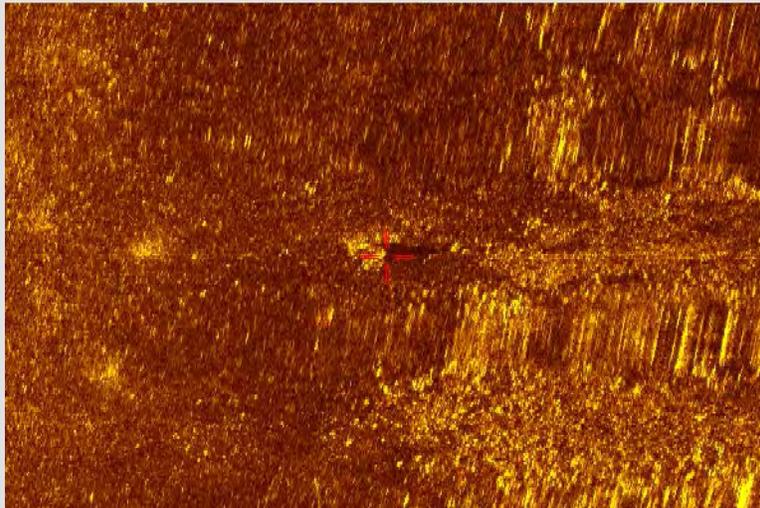
Target Latitude: 40:26.5190 N Target Longitude: 74:03.5407 W  
Heading: 203 Degrees Ground Range: 11.3 Meters to Starboard  
Speed: 2.9 Knots File: 17R.jsf  
Length: 6.73 Meters Width: 1.29 Meters  
Height: 0.50 Meters

### Target-1-139



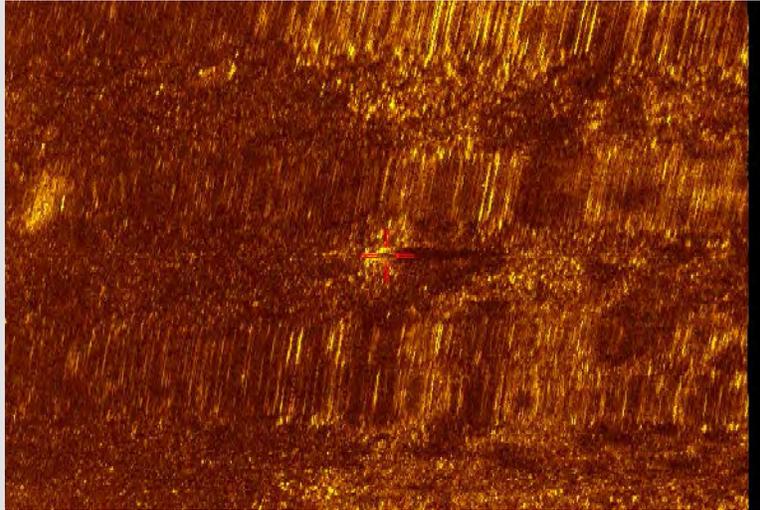
Target Latitude: 40:26.5205 N Target Longitude: 74:03.5408 W  
Heading: 201 Degrees Ground Range: 12.6 Meters to Starboard  
Speed: 3.0 Knots File: 17R.jsf  
Length: 6.52 Meters Width: 1.02 Meters  
Height: 0.33 Meters

### Target-1-140



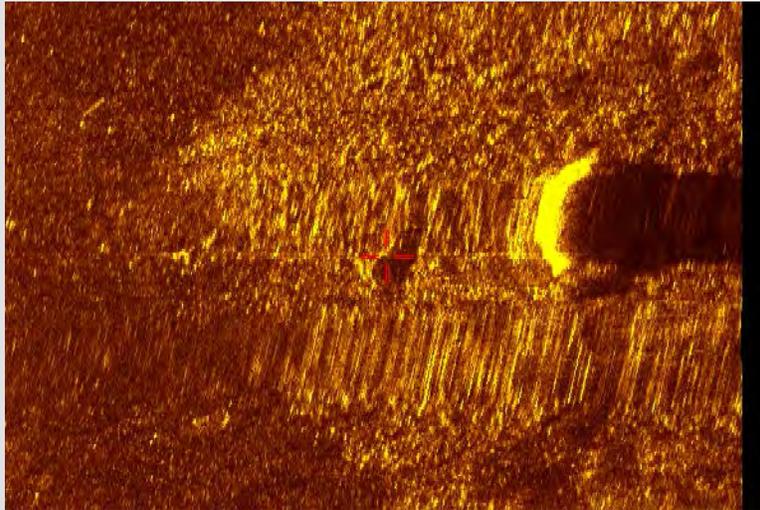
Target Latitude: 40:26.4901 N Target Longitude: 74:03.5616 W  
Heading: 205 Degrees Ground Range: 11.9 Meters to Starboard  
Speed: 3.0 Knots File: 17R.jsf  
Length: 0.68 Meters Width: 0.70 Meters  
Height: 0.31 Meters

### Target-1-141



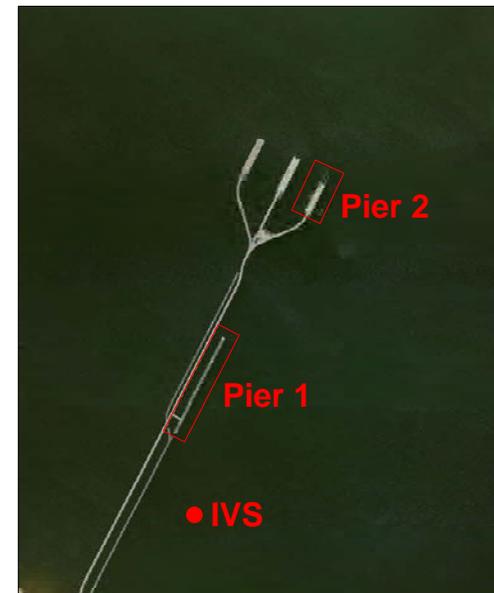
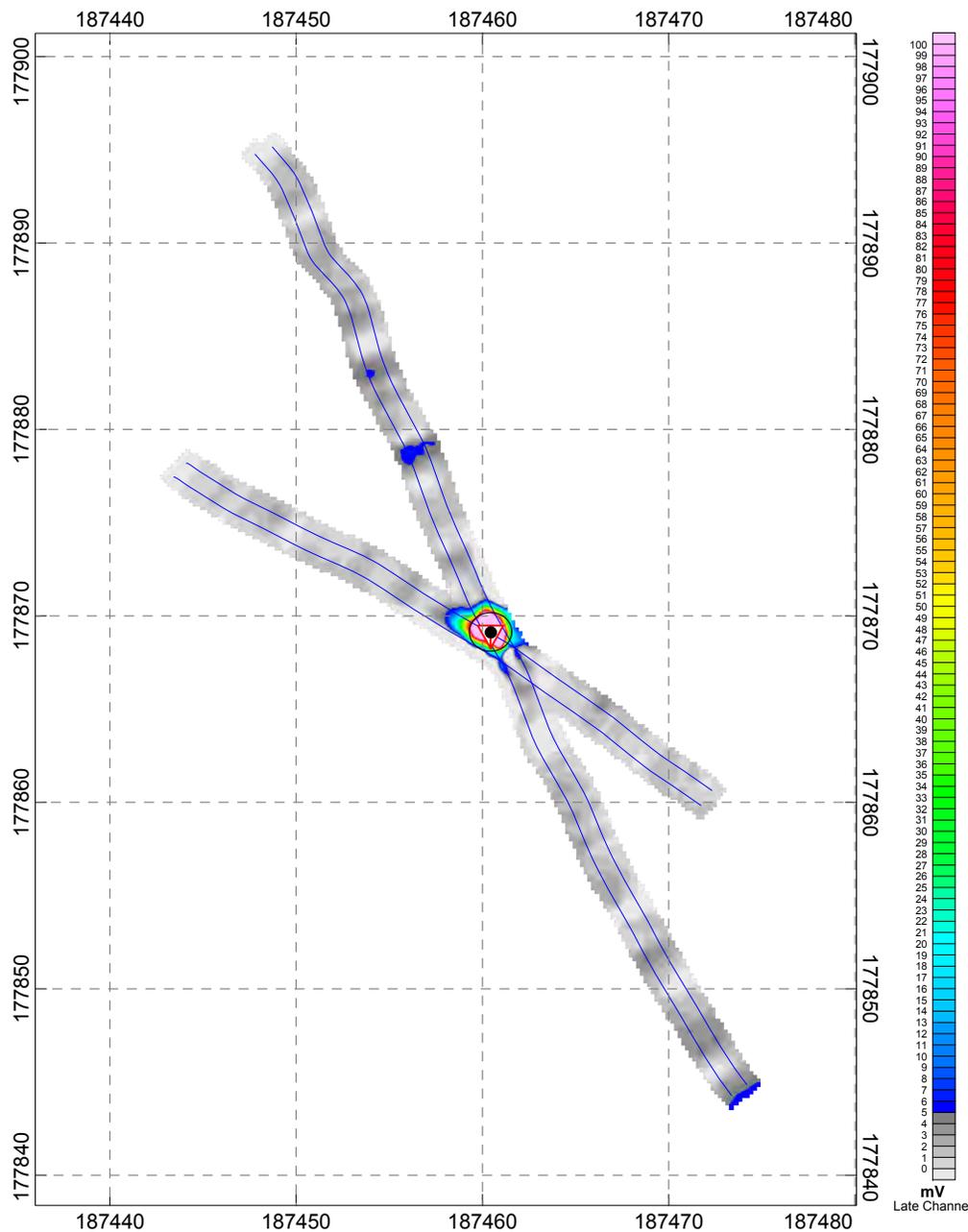
Target Latitude: 40:26.4813 N Target Longitude: 74:03.5708 W  
Heading: 209 Degrees Ground Range: 16.3 Meters to Starboard  
Speed: 2.9 Knots File: 17R.jsf  
Length: 0.85 Meters Width: 0.90 Meters  
Height: 0.48 Meters

### Target-1-142



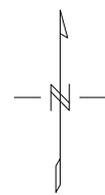
Target Latitude: 40:26.4784 N Target Longitude: 74:03.5731 W  
Heading: 214 Degrees Ground Range: 16.4 Meters to Starboard  
Speed: 3.3 Knots File: 17R.jsf  
Length: 1.88 Meters Width: 0.59 Meters  
Height: 0.18 Meters

**Appendix B**  
**Example IVS Plot**  
**IVS ISO Analysis**  
**ISO Static Results**  
**GPS QC Results**  
**Pressure Test Results**



### Legend

- Seed location
- 1 meter radius around seed
- 2 ▽ Selected Target  
(See Target Pick List For Response and Location)
- /// Line Path



NAD83 / New Jersey



<b>Client: CH2M HILL</b>
EM61-FLEX 3 Array 0401IVS1 - Water Naval Weapons Station Earle Sandy Hook Bay, Monmouth County, New Jersey
Date of Survey: 04/01/2014

EM61\_Flex3\_IVS\_Data\_Water

Date	File Name	SEED 1				
		X_SP	Y_SP	Offset (m)	ChL_mV	Coil_Height (ft)
29-Mar-2014	0329IVS1	187460.6	177869.2	0.17	670.11	1.32
1-Apr-2014	0401IVS1	187460.4	177869.1	0.05	592.53	1.71
2-Apr-2014	0402IVS1	187460.42	177869.5	0.38	1178.12	1.71
3-Apr-2014	0403IVS1	187461.11	177868.27	1.08	3026.2	1.18
6-Apr-2014	0406IVS1	187460.51	177869.04	0.10	1301.92	1.6
7-Apr-2014	0407IVS1	187460.29	177869.34	0.27	237.30	
8-Apr-2014	0408IVS1	187460.4	177869.05	0.09	399.35	1.95
9-Apr-2014	0409IVS1	187460.79	177869.52	0.52	1837.09	1.54
10-Apr-2014	0410IVS1	187460.57	177869.17	0.13	1135.68	1.6
13-Apr-2014	0413IVS1	187460.57	177869.09	0.12	898	1.4

Date	File Name	COMMENTS
29-Mar-2014	0329IVS1	Latency 0.5
1-Apr-2014	0401IVS1	Latency 0.5
2-Apr-2014	0402IVS1	Latency 0.5
3-Apr-2014	0403IVS1	Latency 0.5, linepath does not pass directly over item
6-Apr-2014	0406IVS1	Latency 0.5
7-Apr-2014	0407IVS1	Latency 0.5, CoilHeight calculation shows negative
8-Apr-2014	0408IVS1	Latency 0.5
9-Apr-2014	0409IVS1	Latency 0.2, linepath does not pass directly over item
10-Apr-2014	0410IVS1	Latency 0.3
13-Apr-2014	0413IVS1	Latency 0.2

	X_SP_GPS_Seed_Location	Y_SP_GPS_Seed_Location
Seed	187460.45	177869.12

EM61\_Static\_ISO\_WATER

File name / Date	Coil	ChL_mV_Response	% Difference	Height (cm)	Pass/Fail
0329QC1	1	52.02	-0.016728098	33	Pass
0329QC1	2	52.89	-0.002169607	33	Pass
0329QC2	1	53.79	0.016728098	33	Pass
0329QC2	2	53.12	0.002169607	33	Pass
0401QC1	1	53.85	0.017862206	33	Pass
0401QC1	2	52.76	-0.004622205	33	Pass
0401QC2	1	52.54	-0.006899159	33	Pass
0401QC2	2	51.4	-0.030280162	33	Pass
0402QC1	1	53.08	0.001414961	33	Pass
0402QC1	2	52.89	-0.002169607	33	Pass
0402QC2	1	52.95	-0.001037638	33	Pass
0402QC2	2	51.19	-0.034242053	33	Pass
0403QC1	1	53.25	0.004622205	33	Pass
0403QC1	2	53.04	0.000660315	33	Pass
0403QC2	1	52.61	-0.007452127	33	Pass
0403QC2	2	51.72	-0.024242996	33	Pass
0406QC1	1	53.33	0.006131497	33	Pass
0406QC1	2	54.91	0.035940006	33	Pass
0406QC2	1	53.13	0.002358268	33	Pass
0406QC2	2	52.77	-0.004433544	33	Pass
0407QC1	1	55	0.037637959	33	Pass
0407QC1	2	55.63	0.04952363	33	Pass
0407QC2	1	52.5	-0.009527403	33	Pass
0407QC2	2	53.29	0.005376851	33	Pass
0408QC1	1	53.82	0.015375908	33	Pass
0408QC1	2	55.2	0.041411188	33	Pass
0408QC2	1	52.85	-0.002924252	33	Pass
0408QC2	2	54.73	0.0325441	33	Pass
0409QC1	1	55.73	0.051410244	33	Pass
0409QC1	2	56.29	0.061975285	33	Pass
0409QC2	1				No QC2 due to
0409QC2	2				equipment repair
0410QC1	1	54.78	0.033487407	33	Pass
0410QC1	2	54.54	0.028959532	33	Pass
0410QC2	1				No QC2 due to
0410QC2	2				equipment repair
0413QC1	1	54.41	0.026506933	33	Pass
0413QC1	2	53.86	0.016130554	33	Pass
0413QC2	1	53.33	0.006131497	33	Pass
0413QC2	2	52.83	-0.003301575	33	Pass
Coil1	Coil2				
52.905	53.005	Avg reading from 3/29			

GPS\_QC\_WATER

Date	File Name	Meaured		Delta_X	Delta_Y	Distance Offset (m)	Pass/Fail
		X_SP	Y_SP				
27-Mar-2014	QC_gps_bow.TXT	187266.69	176429.18	0	0	0	Pass
29-Mar-2014	QC_gps_bow.TXT	187266.7	176429.18	-0.01	0	0.01	Pass
1-Apr-2014	QC_gps_bow.TXT	187266.69	176429.16	0	0.02	0.02	Pass
2-Apr-2014	QC_gps_bow.TXT	187266.71	176429.16	-0.02	0.02	0.028284271	Pass
3-Apr-2014	QC_gps_bow.TXT	187266.7	176429.17	-0.01	0.01	0.014142136	Pass
6-Apr-2014	QC_gps_bow.TXT	187266.71	176429.18	-0.02	0	0.02	Pass
7-Apr-2014	QC_gps_bow.TXT	187266.67	176429.19	0.02	-0.01	0.02236068	Pass
8-Apr-2014	QC_gps_bow.TXT	187266.69	176429.18	0	0	0	Pass
9-Apr-2014	QC_gps_bow.TXT	187266.69	176429.17	0	0.01	0.01	Pass
10-Apr-2014	QC_gps_bow.TXT	187266.67	176429.16	0.02	0.02	0.028284271	Pass
13-Apr-2014	QC_gps_bow.TXT	187266.69	176429.15	0	0.03	0.03	Pass

Date	File Name	Meaured		Delta_X	Delta_Y	Distance Offset (m)	Pass/Fail
		X_SP	Y_SP				
27-Mar-2014	QC_gps_stern.TXT	187267.41	176436.47	0	0	0	Pass
29-Mar-2014	QC_gps_stern.TXT	187267.36	176436.53	0.05	-0.06	0.078102497	Pass
1-Apr-2014	QC_gps_stern.TXT	187267.44	176436.54	-0.03	-0.07	0.076157731	Pass
2-Apr-2014	QC_gps_stern.TXT	187267.38	176436.49	0.03	-0.02	0.036055513	Pass
3-Apr-2014	QC_gps_stern.TXT	187267.4	176436.5	0.01	-0.03	0.031622777	Pass
6-Apr-2014	QC_gps_stern.TXT	187267.43	176436.53	-0.02	-0.06	0.063245553	Pass
7-Apr-2014	QC_gps_stern.TXT	187267.4	176436.52	0.01	-0.05	0.050990195	Pass
8-Apr-2014	QC_gps_stern.TXT	187267.43	176436.54	-0.02	-0.07	0.072801099	Pass
9-Apr-2014	QC_gps_stern.TXT	187267.43	176436.5	-0.02	-0.03	0.036055513	Pass
10-Apr-2014	QC_gps_stern.TXT	187267.47	176436.53	-0.06	-0.06	0.084852814	Pass
13-Apr-2014	QC_gps_stern.TXT	187267.41	176436.49	0	-0.02	0.02	Pass

QC_Point	Actual X_SP	Actual Y_SP	
Bow	187266.69	176429.18	From 03/27 Readings
Stern	187267.41	176436.47	From 03/27 Readings

Pressure\_Test\_WATER

Date	File Name	Test Time (seconds)	Average Depth (m)	Error (m)	Pass/Fail
27-Mar-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
27-Mar-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
29-Mar-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
29-Mar-2014	QC_Pressure2.TXT	30	0.20	0.01	Pass
1-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
1-Apr-2014	QC_Pressure2.TXT	30	0.20	0.01	Pass
2-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
2-Apr-2014	QC_Pressure2.TXT	30	0.19	0.01	Pass
3-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
3-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
6-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
6-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
7-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
7-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
8-Apr-2014	QC_Pressure1.TXT	30	-0.01	-0.01	Pass
8-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
9-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
9-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
10-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
10-Apr-2014	QC_Pressure2.TXT	30	0.19	0.00	Pass
13-Apr-2014	QC_Pressure1.TXT	30	0.00	0.00	Pass
13-Apr-2014	QC_Pressure2.TXT	30	0.20	0.01	Pass
Error within 0.08 m					

Appendix C  
Example QC Test Results  
Polygon Noise Calculations

# Static Calibration Test-Coil1

Mean Response Values

ChL\_level Without Object: 0.39

ChL\_level Signal Strength With Object: 55.00

Project: UX0-0002 NWS Earle

Equipment: EM-61 Mark II

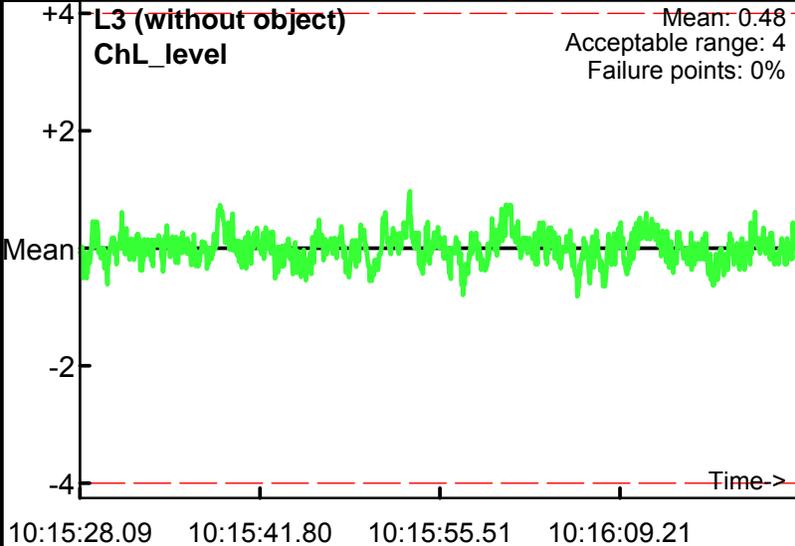
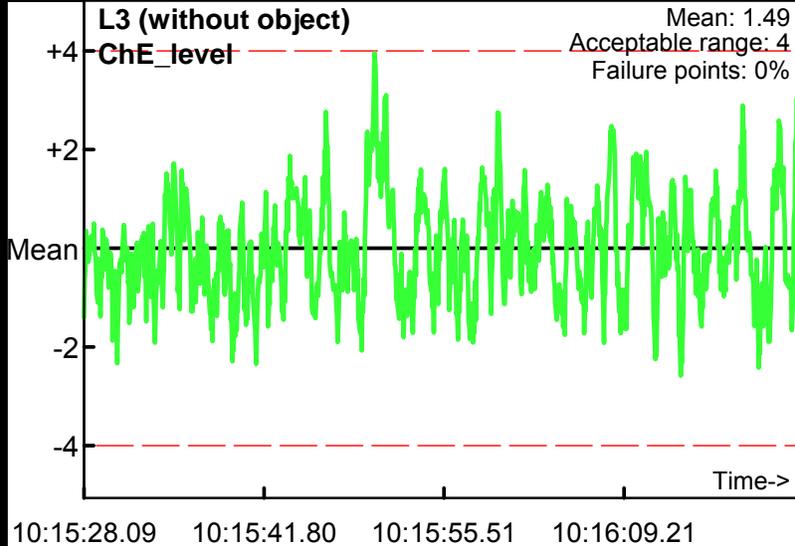
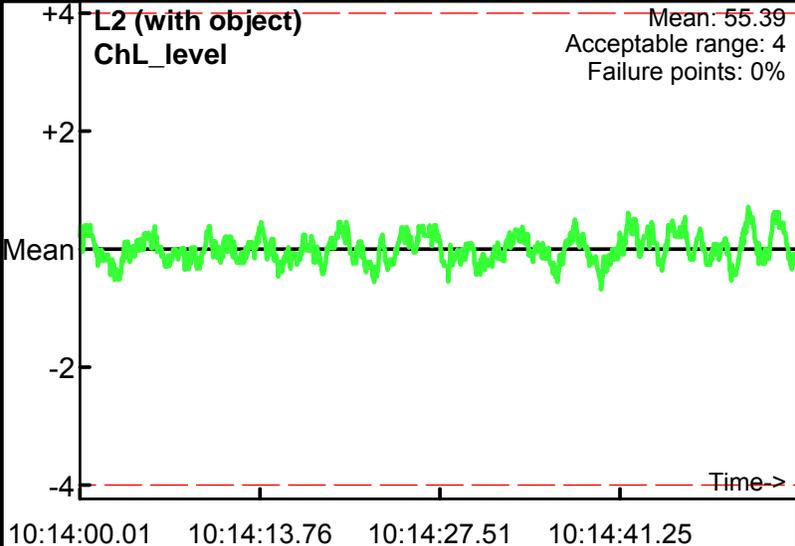
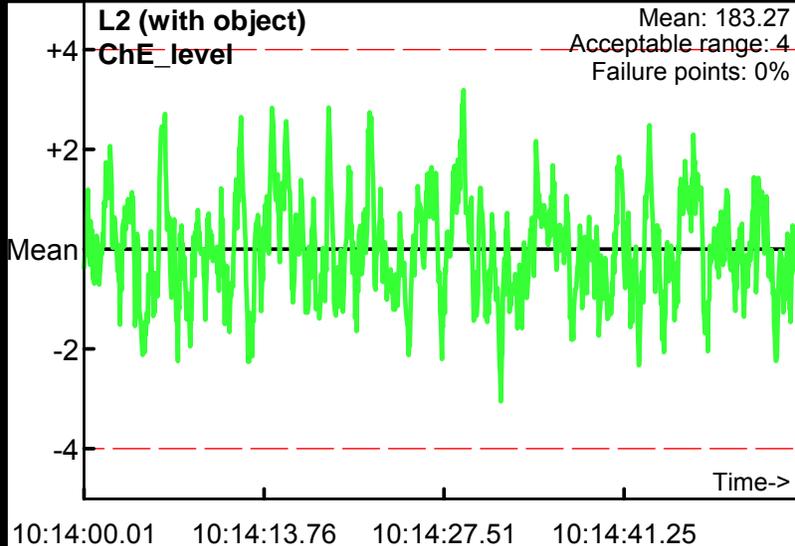
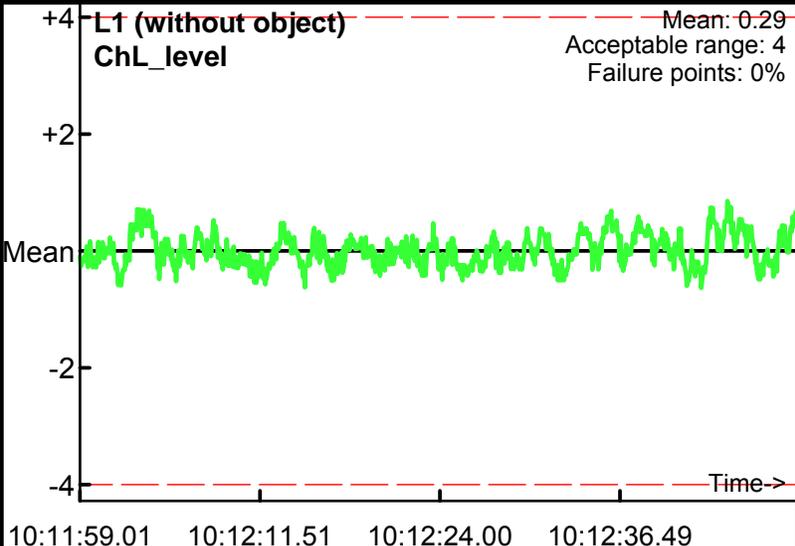
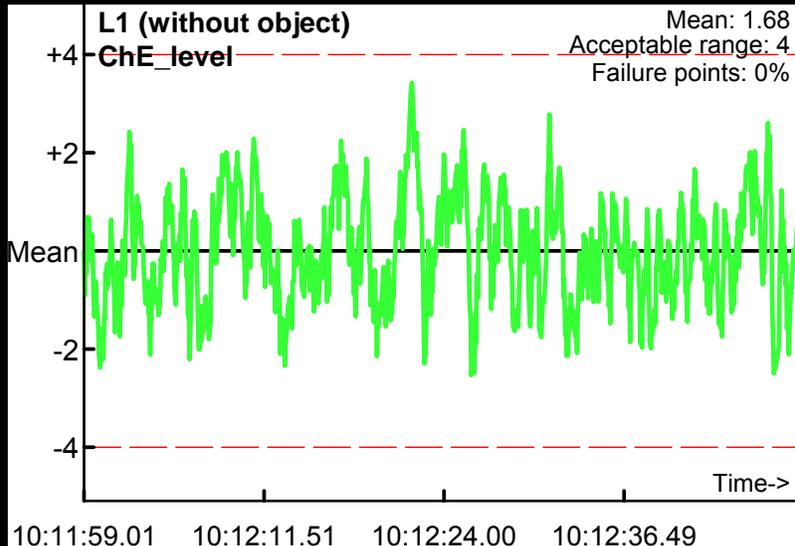
Grid/Location: QC Area

QC1 test

Operator: Geo1

Date: 04/07/2014

● Outside range  
--- Acceptable limits



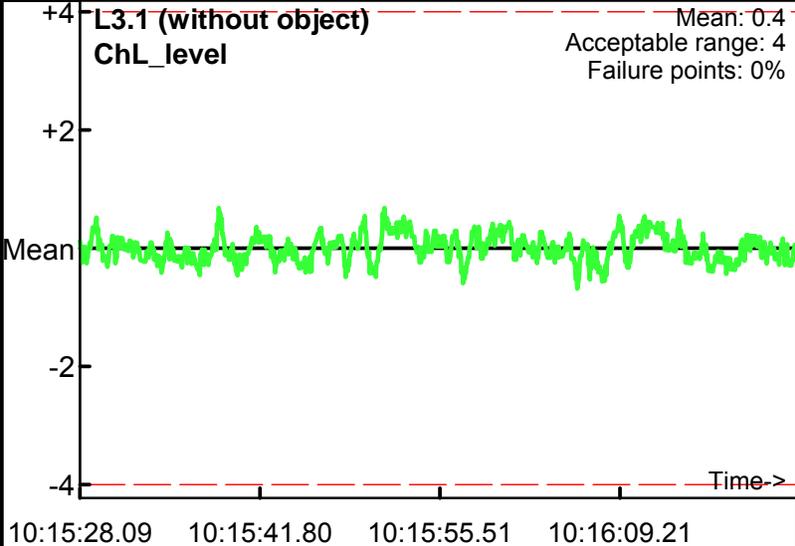
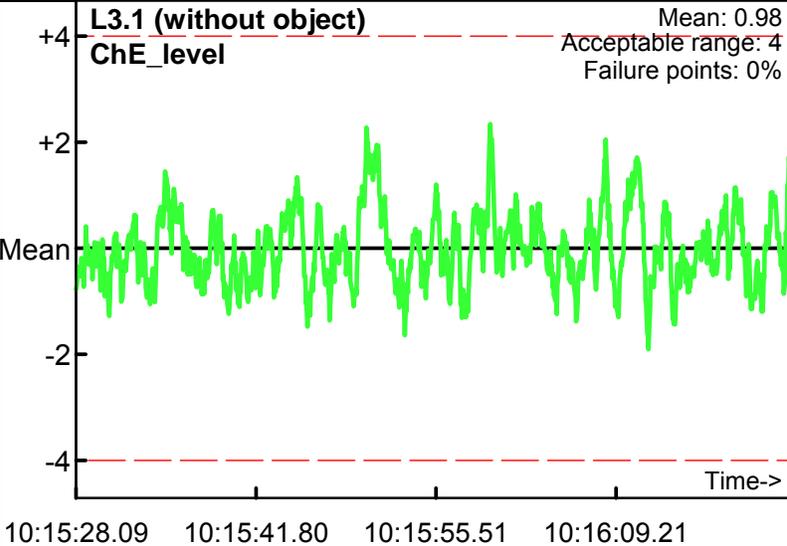
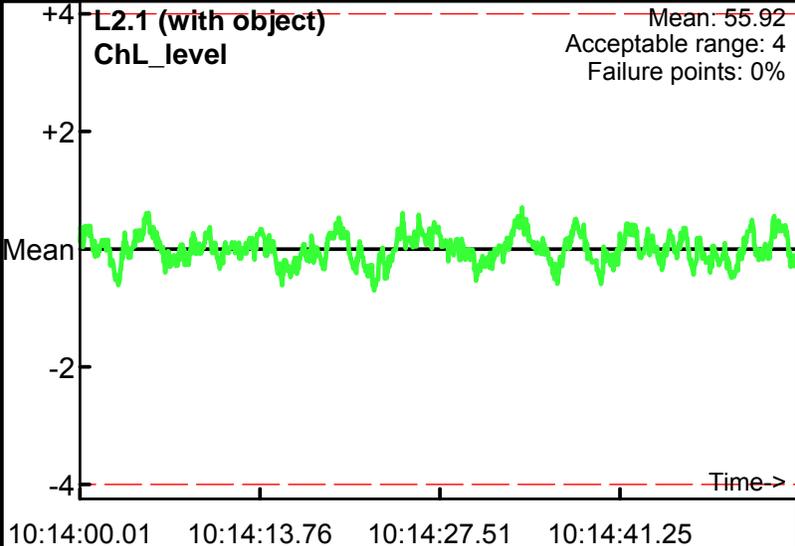
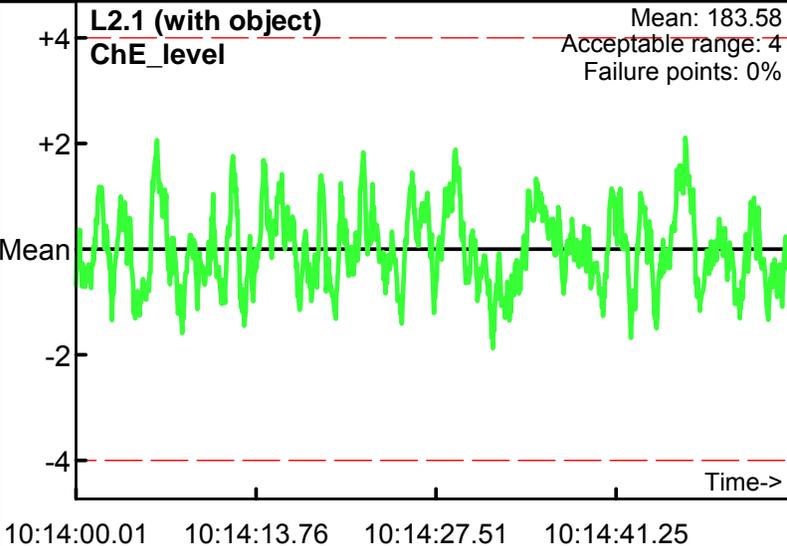
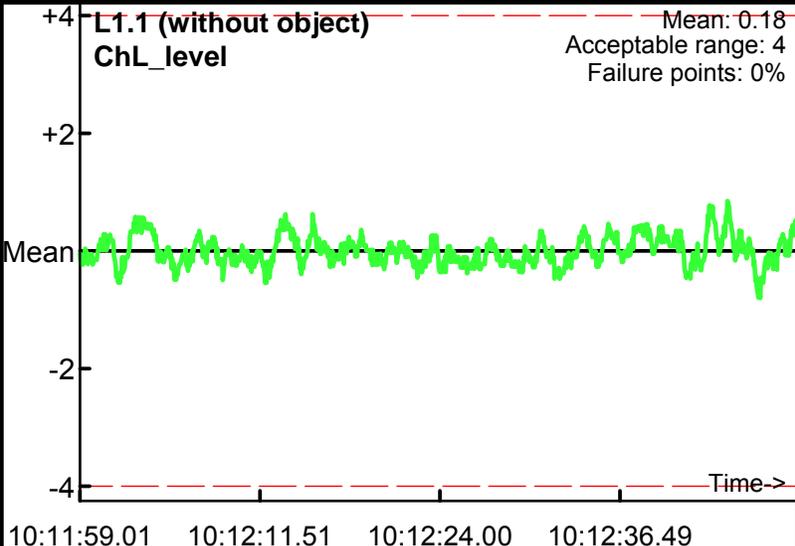
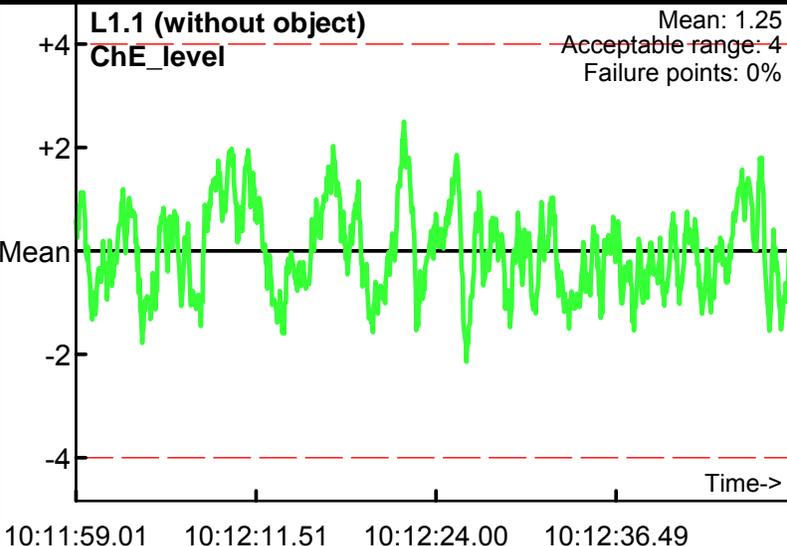
# Static Calibration Test-Coil2

Mean Response Values  
ChL\_level Without Object: 0.29  
ChL\_level Signal Strength With Object: 55.63

Project: UX0-0002 NWS Earle  
Equipment: EM-61 Mark II  
Grid/Location: QC Area

QC1 test  
Operator: Geo1  
Date: 04/07/2014

● Outside range  
--- Acceptable limits



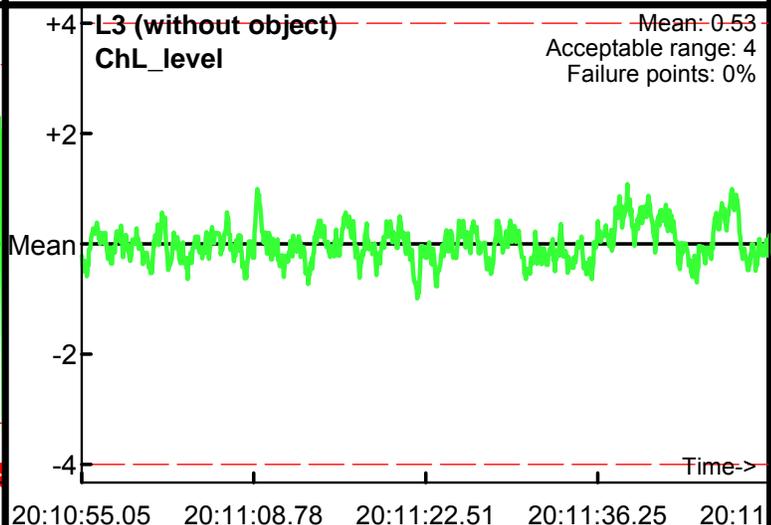
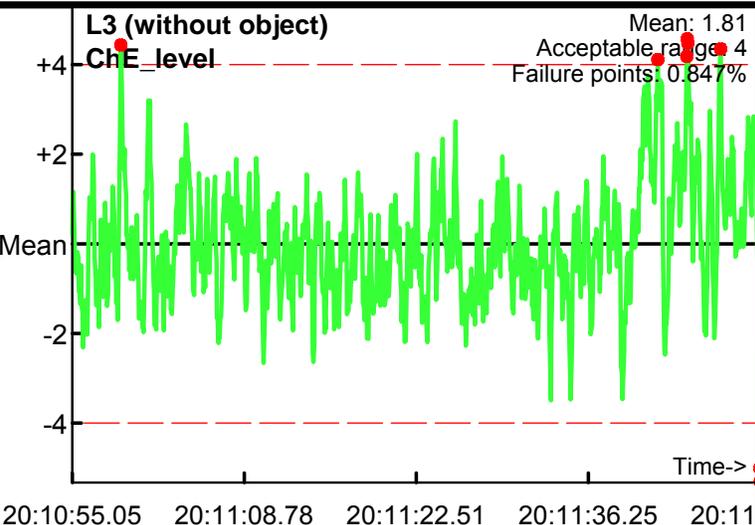
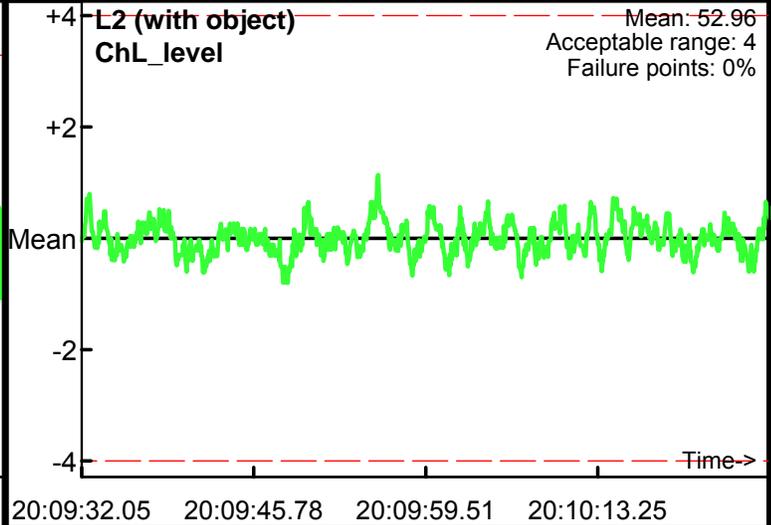
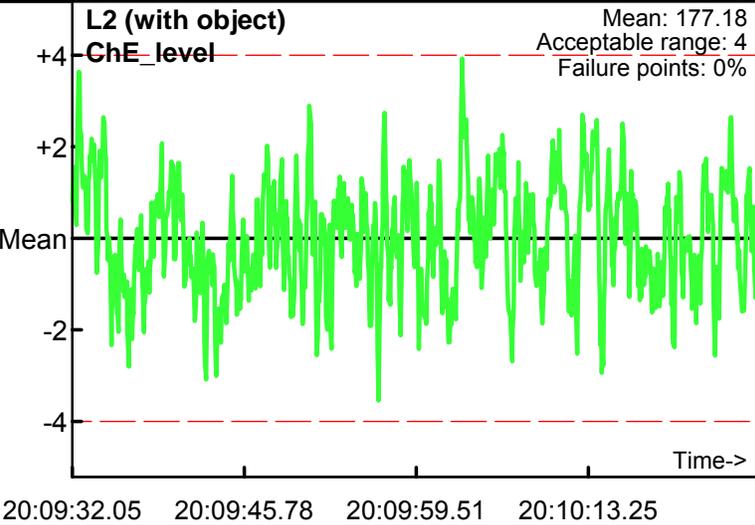
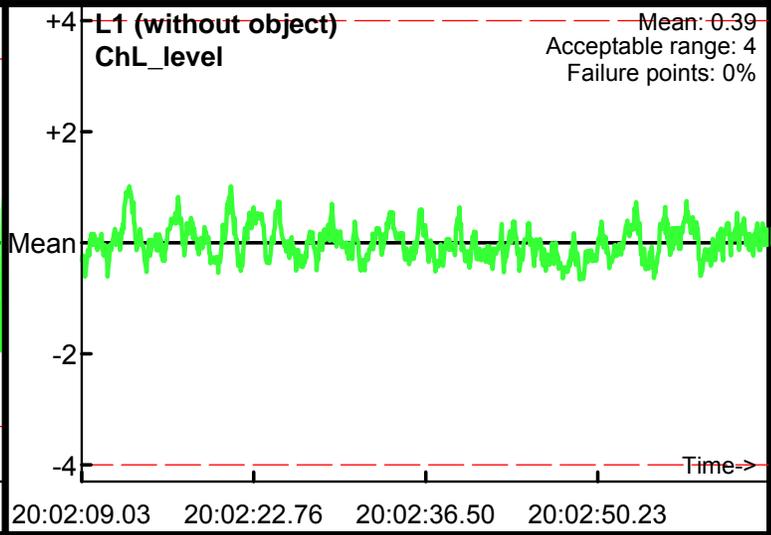
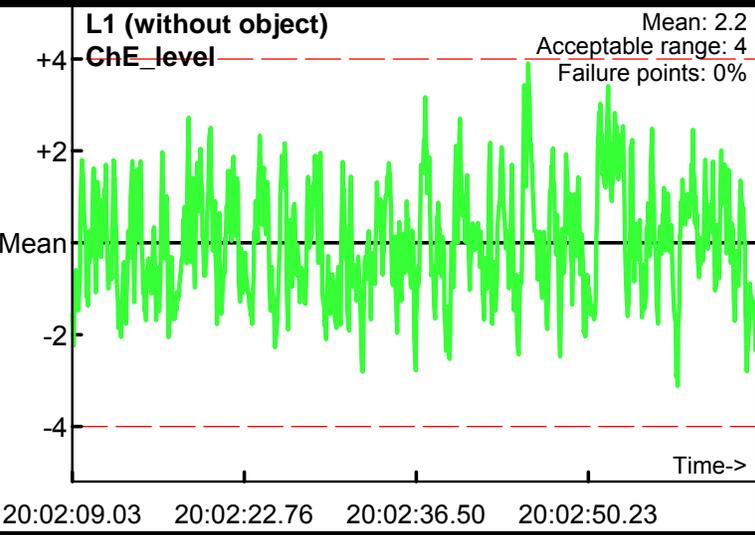
# Static Calibration Test-Coil1

Mean Response Values  
 ChL\_level Without Object: 0.46  
 ChL\_level Signal Strength With Object: 52.50

Project: UX0-0002 NWS Earle  
 Equipment: EM-61 Mark II  
 Grid/Location: QC Area

QC2 test  
 Operator: Geo1  
 Date: 04/07/2014

● Outside range  
 --- Acceptable limits



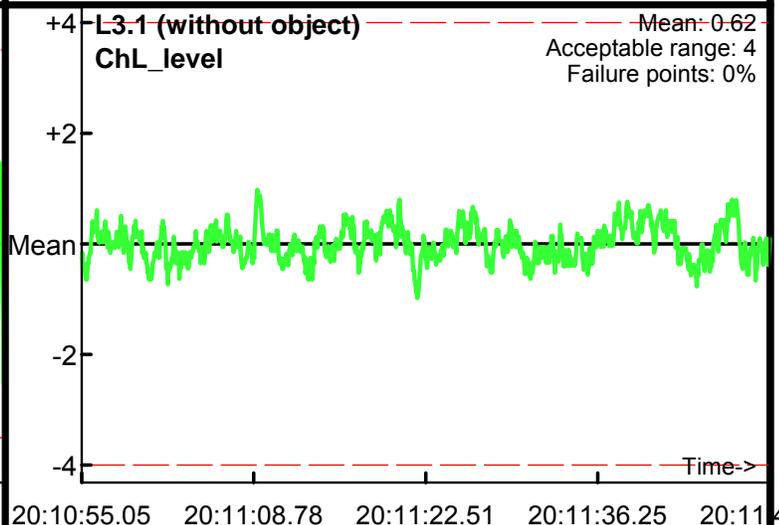
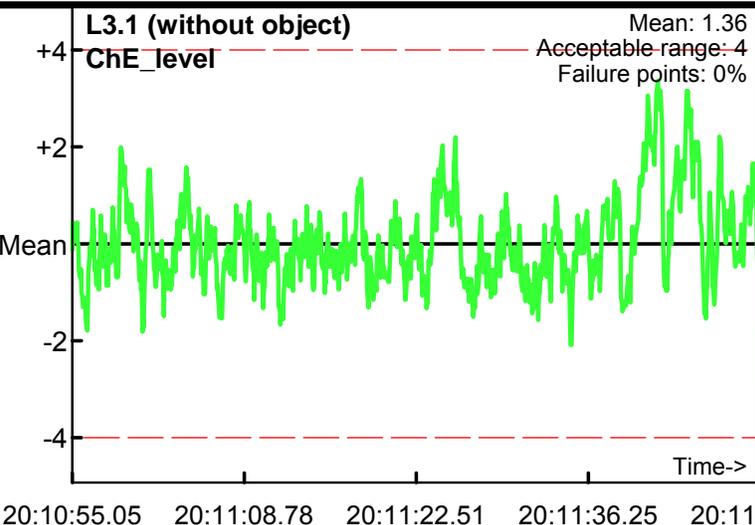
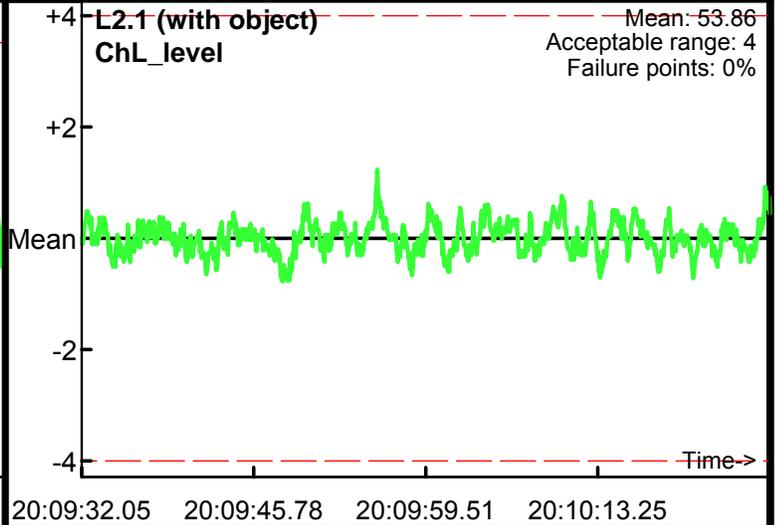
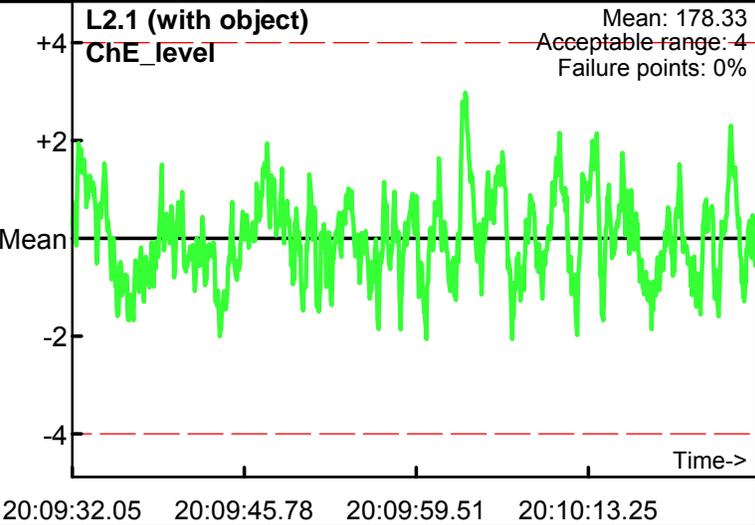
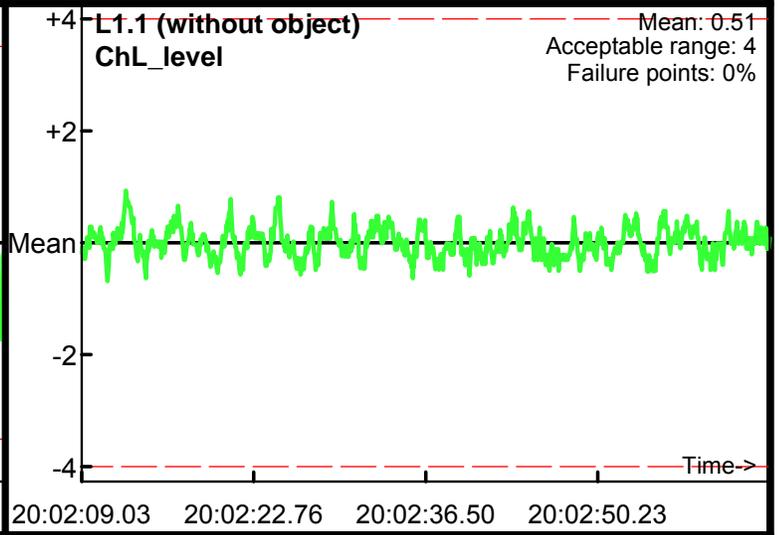
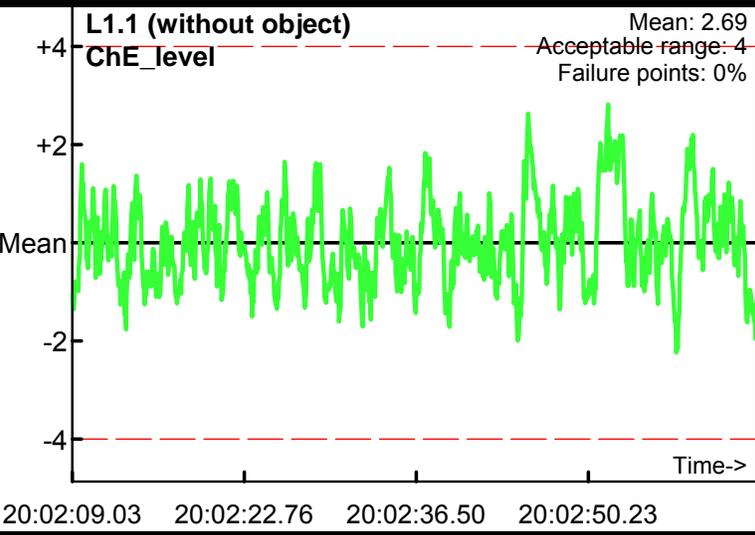
# Static Calibration Test-Coil2

Mean Response Values  
 ChL\_level Without Object: 0.57  
 ChL\_level Signal Strength With Object: 53.29

Project: UX0-0002 NWS Earle  
 Equipment: EM-61 Mark II  
 Grid/Location: QC Area

QC2 test  
 Operator: Geo1  
 Date: 04/07/2014

● Outside range  
 --- Acceptable limits

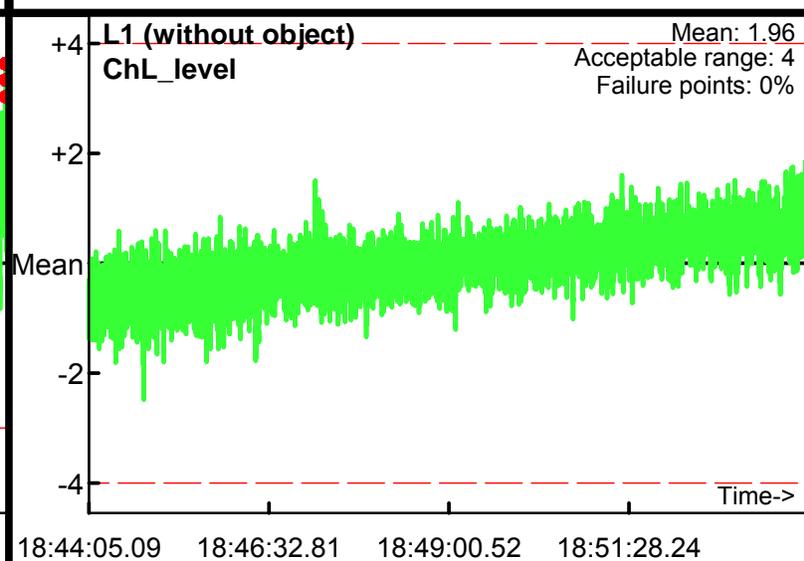
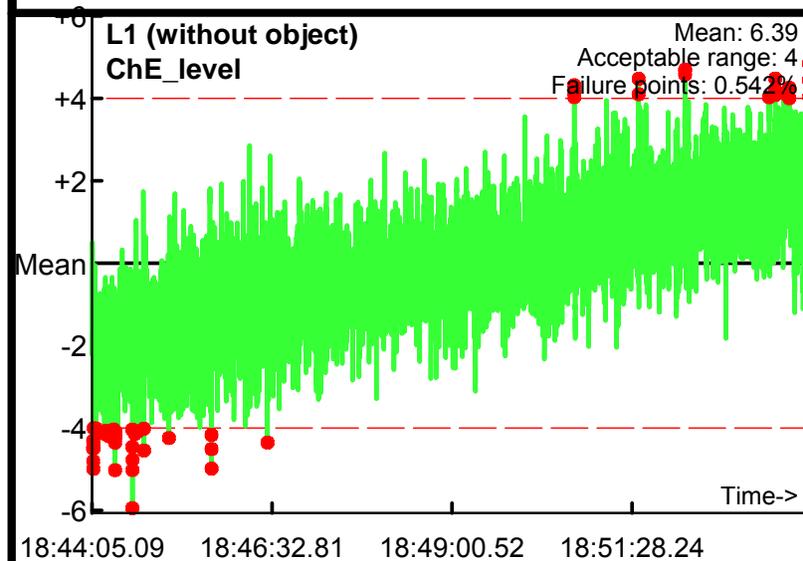


# Static Calibration Test-Coil1

Project: UX0-0002 NWS Earle  
Equipment: EM-61 Mark II  
Grid/Location: QC Area

AM test  
Operator: Geo1  
Date: 03/27/2014

● Outside range  
- - - Acceptable limits

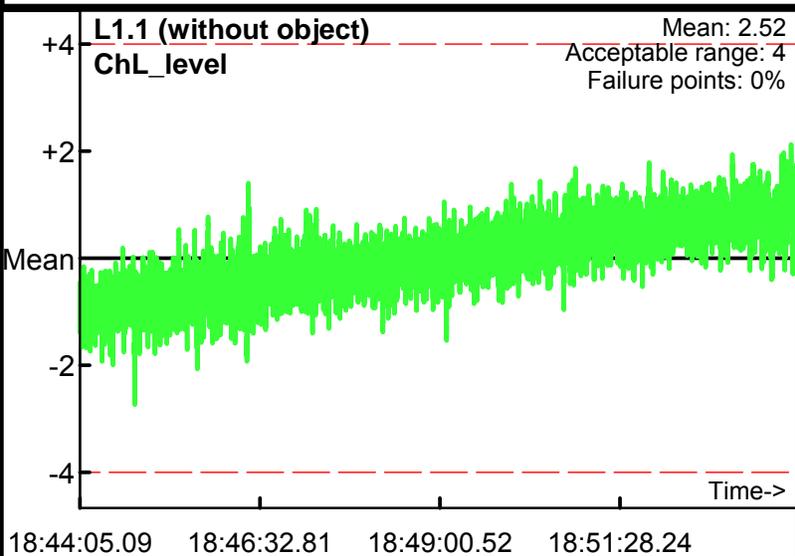
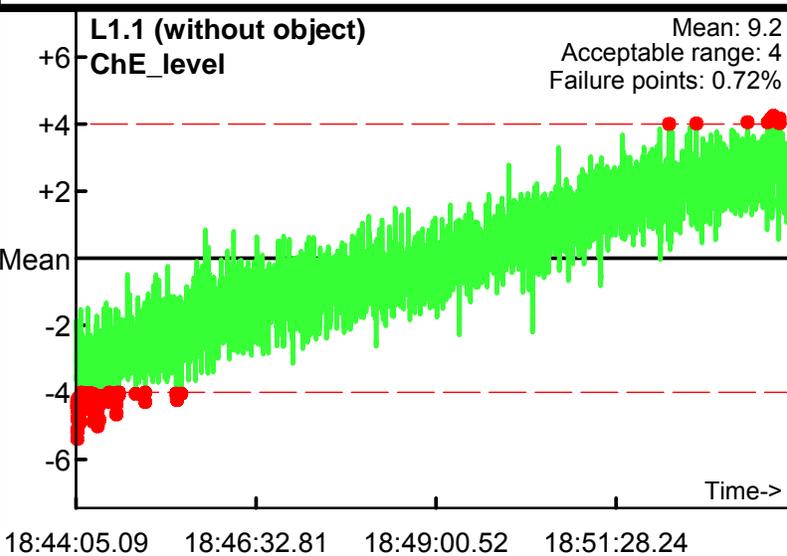


# Static Calibration Test-Coil2

Project: UX0-0002 NWS Earle  
Equipment: EM-61 Mark II  
Grid/Location: QC Area

AM test  
Operator: Geo1  
Date: 03/27/2014

● Outside range  
--- Acceptable limits



**NWS Earle ChL level Noise Calculation - 04/17/14 Pier 1 Mosaic Underwater DGM Collection**

Polygon ID	Mean	Std Dev	Std Dev*3	Std Dev*5		Mean^2	Std Dev^2	SUM	RMS	RMS*5	
1	1.05	1.39	4.17	6.95		1.10	1.93	3.03	1.74	8.71	
2	1.25	1.77	5.31	8.85		1.56	3.13	4.70	2.17	10.83	
3	1.16	1.61	4.83	8.05		1.35	2.59	3.94	1.98	9.92	
4	1.12	1.47	4.41	7.35		1.25	2.16	3.42	1.85	9.24	
5	1.14	1.53	4.59	7.65		1.30	2.34	3.64	1.91	9.54	
				<b>SUM</b>	38.85					<b>SUM</b>	48.25
				<b>AVG</b>	7.77					<b>AVG</b>	9.65

**NWS Earle ChL level Noise Calculation - 04/10/14 Pier 2 Mosaic Underwater DGM Collection**

Polygon ID	Mean	Std Dev	Std Dev*3	Std Dev*5		Mean^2	Std Dev^2	SUM	RMS	RMS*5	
1	0.91	1.58	4.74	7.9		0.83	2.50	3.32	1.82	9.12	
2	1.31	2.2	6.6	11		1.72	4.84	6.56	2.56	12.80	
3	0.74	1.21	3.63	6.05		0.55	1.46	2.01	1.42	7.09	
4	1.02	1.35	4.05	6.75		1.04	1.82	2.86	1.69	8.46	
5	1.14	1.46	4.38	7.3		1.30	2.13	3.43	1.85	9.26	
				<b>SUM</b>	<b>39</b>					<b>SUM</b>	<b>46.73</b>
				<b>AVG</b>	<b>7.8</b>					<b>AVG</b>	<b>9.35</b>