

## INTRODUCTION

In 1945, at the end of the second world war a transport pontoon loaded with ammunition, such as torpedoes, was sunk during an air raid.

In October 1963 the pontoon was partly salvaged including most of the torpedoes. A total of 70 torpedoes were recovered and rendered safe.

However all of the ammunition was not recovered due to the survey technology of the time.

In 2011 a new magnetometer survey was conducted by the Federal Maritime and Hydrographic Agency (BSH) and 6 possible targets were identified in an area of 400m x 400m that could be possible torpedoes.

In 2014 a further magnetometer survey conducted by HH EOD Services showed a possible 8 targets which required investigation.

The targets have been identified at a depth of between -17,7m and -21,8m middle-low-tide.

The execution of the work requires a high level of engineering and the use of modern technology. The exposure of the targets must be done very carefully because there is no precise knowledge on the state and type of ammunition.

## PROJECT SPECIFICATIONS

- careful dredging to expose objects
- transport and dumping of sediment
- classification of objects
- salvage of objects (ammunition or scrap)
- transport of objects (ammunition or scrap)
- disposal of objects (ammunition or scrap)



## FEATURES

Client: Landeskriminalamt Schleswig-Holstein  
Location: Elbe / Brunsbüttel  
Period: June/July 2014  
Main Contractor: Heinrich Hirdes EOD Services GmbH



## Main Equipment

- Offshore Support Vessel "Vos Satisfaction" (DP1/4pt mooring)
- Heavy Duty work class Remotely Operated Vehicles (HD ROV)
- Sonar Equipment
- Survey Boat
- Electromagnet
- Toyo Pump
- Hopper Barge HH 212