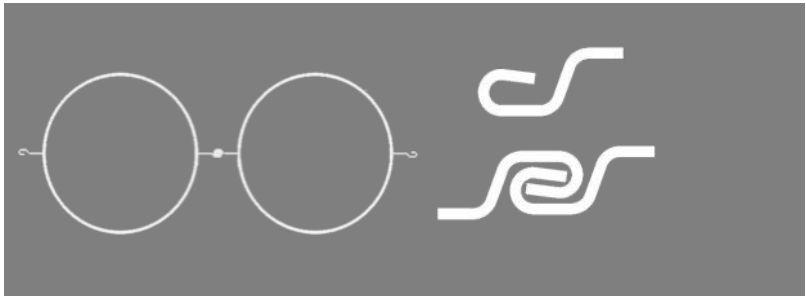




# BHP TUG HARBOUR , AUSTRALIA

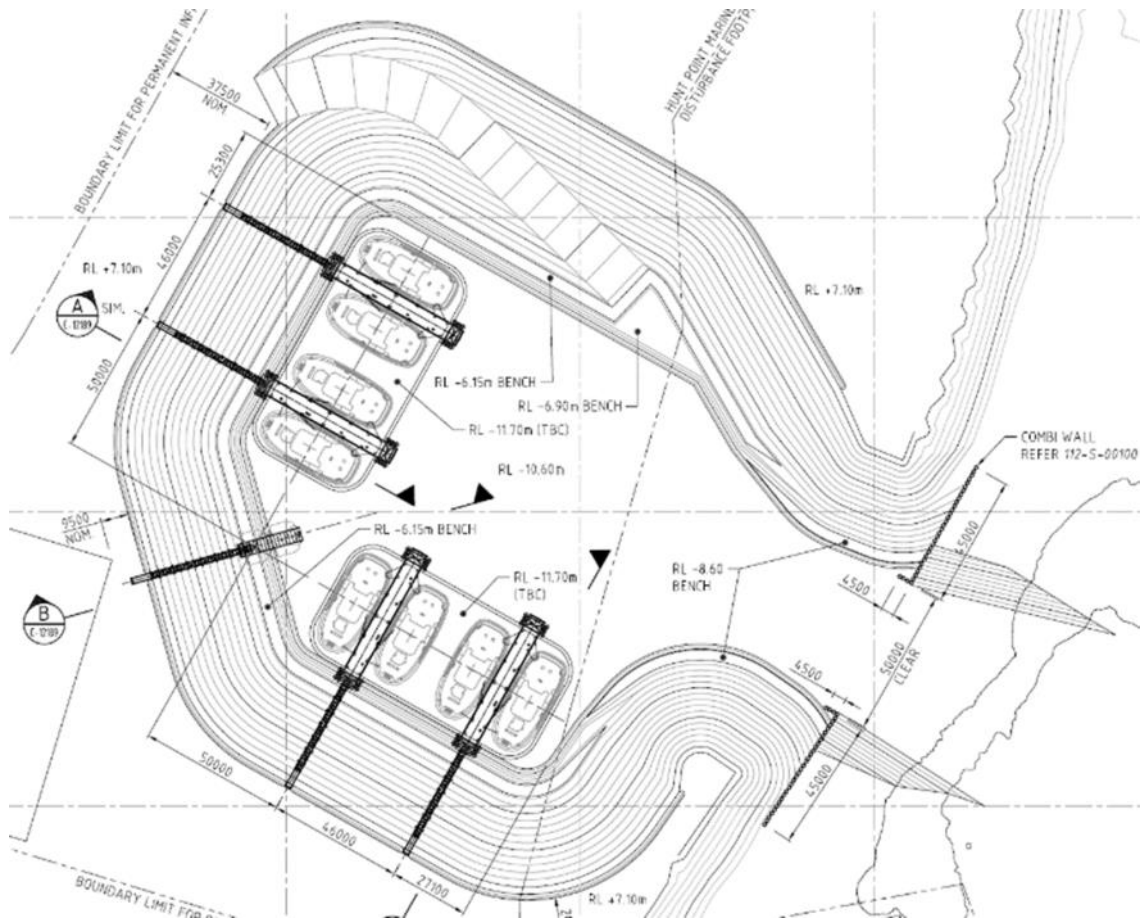
## TUG HARBOUR PROJECT

<b>Project Name</b>	BHP Tug Harbour
<b>Client</b>	Lend Lease Engineering Pty. Ltd.
<b>Project Location</b>	Port Headland, Australia
<b>Product</b>	Tubular Pile with Clutches and Mooring Pipes
<b>Total Tonnage</b>	2,242 MT
<b>Year</b>	2016



The project covered two aspects:

1. Mooring spuds with 3 LPE Coating that were used for the Tug Pontoons & Jetties.
2. Clutched Tubular Piles for the breakwater at the entrance to the harbor.



## PRODUCT & PROCESS AUDIT



Clients mill visit.



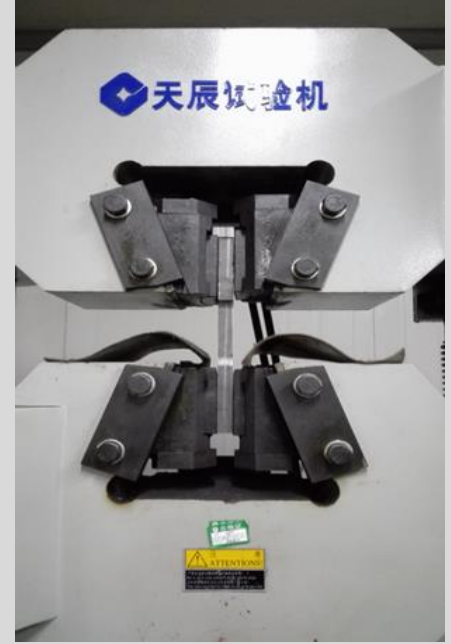
## WELDED TUBULAR PILES





# RAW MATERIAL RETEST

## INSPECTION



# PIPE INSPECTION PRIOR TO COATING



DIMENSION INSPECTION



CLUTCH PASS THROUGH CHECK



WELDING INSPECTION



ULTRASONIC TEST



MAGNETIC PARTICLE TEST

# SURFACE PREPARATION

## BLASTING

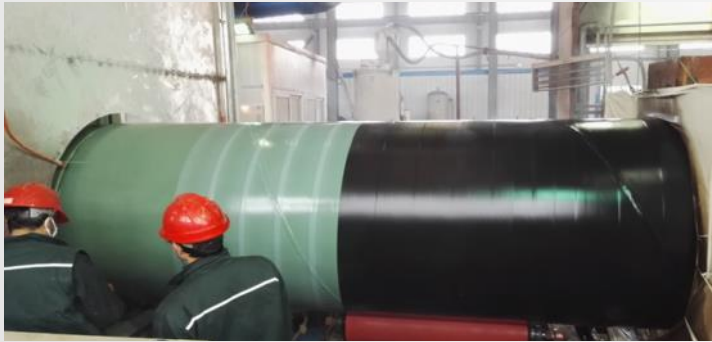


## PAINTING OF PIPES

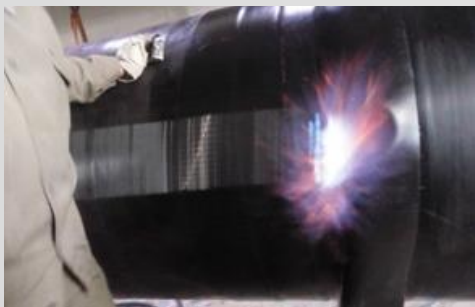




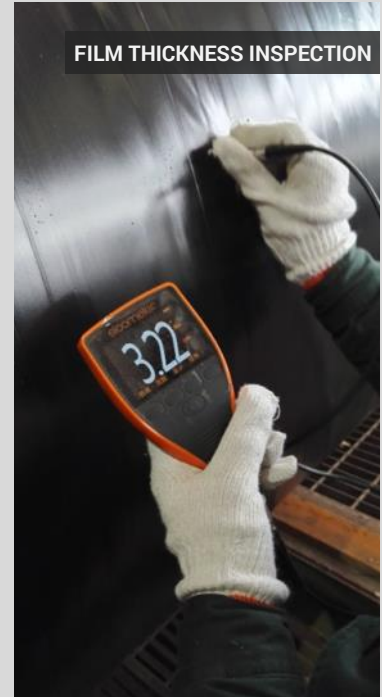
## MDPE COATING



## HEAT SHRINK SLEEVE INSTALLATION



# PAINTING INSPECTION



# PACKING & STACKING





# CARGO STACKING





# CARGO LOADING





# CARGO LOADING PROTECTION



# CARGO LOADING PROTECTION



## SHIP LOADING





## ON-SITE INSTALLATION



## PROJECT COMPLETED

