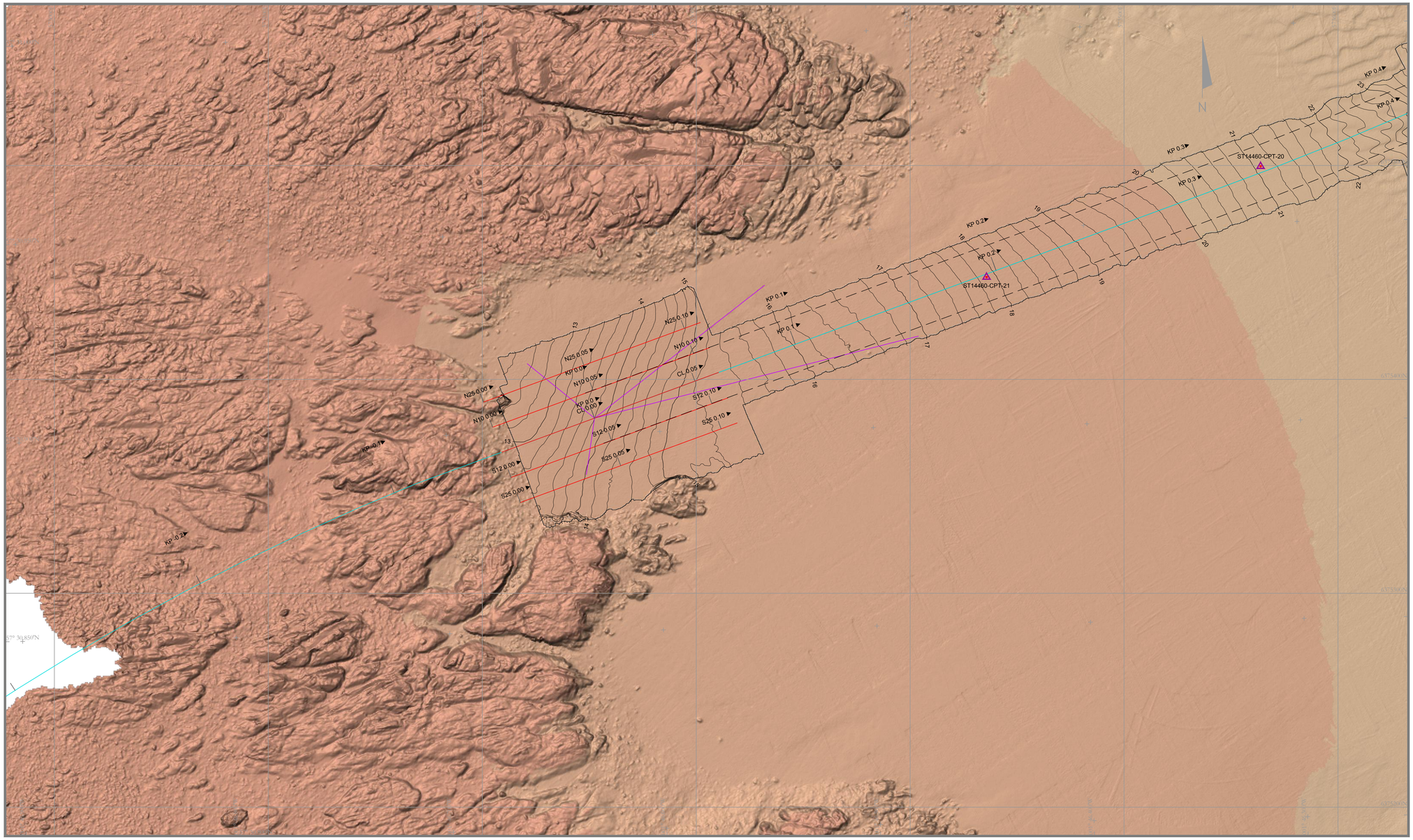
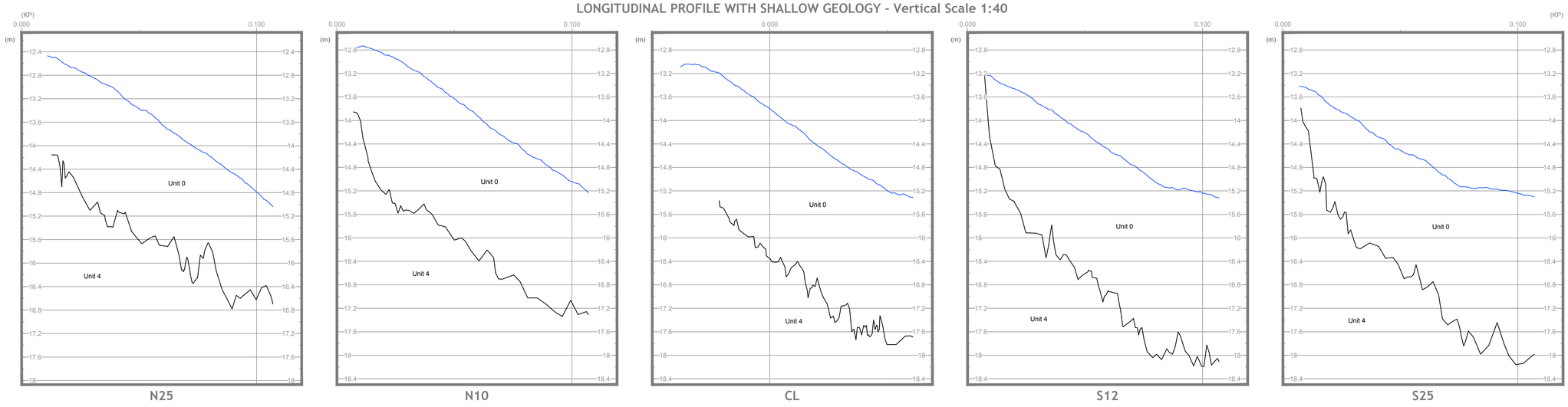
BATHYMETRY - Horizontal Scale 1:1000



LONGITUDINAL PROFILE WITH SHALLOW GEOLOGY - Vertical Scale 1:40



SURVEY NOTES

Horizontal Datum	: WGS84, Grid north displayed in charts
Projection	: UTM Zone 30 N, Chart Latitude and Longitude are given in format DDMM.mmm
Central Scale Factor	: 0.9996
False Easting	: 500.000 m
False Northing	: 0 m
Latitude Origin	: 0°
Central Meridian	: 3° 00' 00"W
Dimensions	: In metres unless otherwise stated
Vertical Reference	: LAT
Height Model	: DTU10
Reference Document	: ST16826 Hywind Scotland UXO Survey Report: C178-MMT-G-RA-00005
Coastline	: From background database (for guidance only)
Survey Date	: April - May 2016
Offshore vessel	: M/V Edda Fonn
Positioning	: Seapath with Fugro Starpack XP
Secondary Positioning	: Fugro Starpack XP
USBL Positioning	: Kongsberg HIPAP 500
ROV	: Kystdesign Supporter
INS Primary UW Positioning	: IXSEA ROVINS
INS Secondary UW Positioning	: IXSEA Octans 3000
Multibeam Echo Sounder	: Dual R2Sonic 2024 (200-400 kHz)
Side Scan Sonar	: Edgetech 4200 (300/600 kHz)
Gradiometer	: Innovatum Gradiometer Array (12 sensor)

LEGEND

- N25 0.1 — HDD Lines
- KP 12.5 — Export Route
- Survey Extent 2016
- Geophysical Survey Corridor
- Anchor Lines
- Background Data (client supplied)

BATHYMETRY

- Water Depth Contour (interval 0.25 m)
- 15 — Water Depth Contour (interval 1 m) with labels
- CPT-034 — CPT Location with ID (CPT locations taken from Statoil Doc. No. : C178-GGI-G-RA-00002_02)

10 m, 20 m, 30 m, 40 m, 50 m, 60 m, 70 m, 80 m, 90 m, 100 m, 110 m, 120 m

Depths are given in metres and refer to LAT

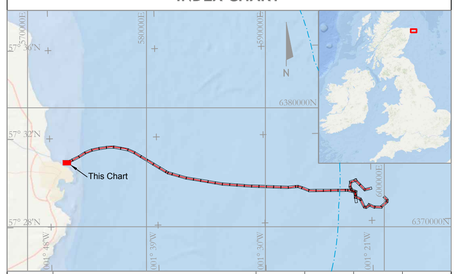
LONGITUDINAL PROFILE WITH SHALLOW GEOLOGY

- Seabed Profile
- Reflector

Unit	Acoustic Characteristics	Geological interpretation
0	Good acoustic penetration. Medium to high reflectivity. Limited to rare internal structure.	Holocene deposits, typically consisting of gravelly silty fine to medium SAND along the cable route and slightly silty fine to medium SAND in proximity to the wind farm area;
4	No acoustic penetration. Top of unit characterised by irregular reflector of high amplitude.	BEDROCK

Scale bar : 0 20 40 60 80 100 m

INDEX CHART



Revision	Revision Description	Drawn	Checked	Approved	Date
A	Issued For Use	JH	CL	KG	20160712
02	For Client Review	JH	CL	KG	20160614

Contractor :

MMT
Sven Källfelts Gata 11
SE-426 71 Västra Frölunda
Sweden
Tel: +46 31 762 03 00
info@mmt.se

Survey date: April - May 2016
Horizontal Scale: 1:1000
Profile Vertical Scale: 1:40
Chart size: ISO A1 - 841 x 594 mm

Project:
2016
Hywind UXO Survey
UK EAST COAST

Title:
North-Up Chart
KP -0.046 - KP 0.062
HDD Exit Point Area

Report No. ST16826
Drawing No. 102264-STO-MMT-SUR-DWG-PROHDD01
C178-MMT-G-YA-00059-01 A
Client Drawing No. Revision