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# NeuConnect

# **BIJLAGE 8 CBRA REPORT**

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# Bijlage 8: CBRA (Cable Burial Risk Assessment), Intertek, 20 maart 2019



# **NEUCONNECT BRITAIN LTD**

# **NeuConnect Interconnetor**

**Cable Burial Risk Assessment** 



P2131\_R4592\_Rev1 | 20 March 2019

# **DOCUMENT RELEASE FORM**

# NeuConnect Britain Ltd

### P2131\_R4592\_Rev1

NeuConnect Interconnetor

Cable Burial Risk Assessment

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Intertek Energy & Water Consultancy Services is the trading name of Metoc Ltd, a member of the Intertek group of companies.

# **SUMMARY**

Intertek Energy & Water Consultancy Services (Intertek) has been appointed by NeuConnect Britani Ltd to conduct a Cable Burial Risk Assessment (CBRA) study for the marine sections of the NeuConnect Interconnector cable route. The proposed Project is a High Voltage Direct Current (HVDC) electrical interconnector with an approximate capacity of 1400MW, which will allow transfer of power between the electricity transmission systems of Germany and Great Britain, crossing the Exclusive Economic Zones (EEZ) of UK, the Netherlands and Germany.

The Cable Burial Risk Assessment (CBRA) has shown that the following key hazards are present along the Greenlink Cable Route:

- sediment mobility
- anchoring; and
- fishing.

The process to calculate the Target DOL is as follows:

- 1. Analysis of survey results to categorise the seabed into individual zones of similar seabed sediment type, water depth range and vessel traffic density
- 2. Analysis of external threats to determine depths of penetration of each external aggressor (fishing gear and various anchors sizes) in identified seabed soils in each zone of the route, according to industry research;
- 3. Addition of a 20% Factor of Safety (FoS) to each of the respective maximum penetration depths;
- 4. Analysis of external threats (fishing gear and anchors) to calculate (where data allows) the probability of an aggressor-cable interaction in each zone of the route;
- 5. Determination of which threats must be protected against through burial in order to reduce risk from external aggressors down to ALARP;
- 6. Determine Recommended Minimum Depth of Lowering (RMDOL) for each zone of the route by selection of the greatest penetration depth value calculated (including the 20% FoS) for identified aggressors which must be protected against in each zone of the route in order that the overall risk to the cable over the project lifetime is reduced to ALARP or, where applicable, the legislative DOL if greater;
- 7. Target DOL (TDOL) is then determined as what can reasonably be added to RMDOL without incurring a step change in costs and which represents a practical target for burial tools on the market

The key hazards are explained below:

#### **Sediment Mobility**

Sediment mobility in itself does not pose a threat to a submarine cable but it can lead to issues with the thermal conductivity of cables (over burial), and exposure of cables (scour); burial under excess sand can change the thermal properties of the soil and cause hotspots along the cable, while exposure increases the risk of damage due to external aggressors such as trawling and anchoring and potentially mechanical damage from free spans.

There are a number of areas within the NeuConnect 500m corridor where there are bedforms present which could be mobile.

The first indication of mobile bedforms can be observed at KP11. These have been interpreted by the route survey contractor, MMT, as ripples and have a wave length of <15m and height <1.0 m. Ripples are observed intermittently throughout the route where they terminate at KP304 and do not appear again until KP620 from



which they then extend to the end of the route at KP700. While these may indicate some levels of sediment movement it is not thought that these minor bedforms will have an impact on the cable installation or operability.

Mega Ripples are also observed intermittently throughout the corridor, between KP108 & KP190 and then between KP669 and KP700. These are slightly larger than ripples and have a wave length of 15-50m and height 1-3m so may pose a risk to an installed cable within its lifetime.

Sandwaves present within the route corridor and are first observed between KP78 and KP 80. These have been interpreted by MMT to have a wave length 50-200m and height of >3 m. Sandwaves are next present at KP 106 and remain as intermittent features until KP294. They do not appear again until between KP673 and KP700.

For the purposes of burial targets (RMDOL & TDOL) all depths are to be measured against trough depth and after any required route engineering has been undertaken to flatten mobile sediments.

#### **Fishing Risk**

The entire route is within water depth range in which mobile gear fishing could take place, thus we recommend the cable is given sufficient protection from potential fishing gear interaction along the entire route.

The Carbon Trust' guidance (ref 12) indicates that penetration of fishing gear into the seabed is limited to a maximum of 0.3 m penetration even in soft sediment based on previous literature research. Adding a 20% Factor of Safety (FoS) to account for measurement errors and deformation of soil beneath fishing gear gives a RMDOL of 0.36m for fishing risk alone.

In practice a DOL < 0.5m is not advisable due to the instability of some trenching tools at these depths. Therefore, TDOL would be >0.5m if based on fishing risk only.

#### **Anchoring Risk**

Vessel Automatic Identification System (AIS) data has been used to determine the size and quantity of vessels which operate in the vicinity of the cable route. Vessels are grouped into size categories based on their deadweight tonnage (DWT) from Band A (0-100 DWT) to Band K (325K-460K DWT) and an appropriate associated anchor size is assigned to each band. Analysis of this data determines the probability of anchor-cable interactions for each vessel banding and thus the size of anchor which must be protected against in order to reduce risk to the cable to ALARP.

Assessment of the anchor risk strike for a surface laid cable demonstrated an unacceptable level of risk to the cable (failure probability of 97.75% over the lifetime of the cable) and thus there is a requirement to protect the cable against anchors interaction.

Anchoring risk exceeds fishing risk in in all zones of the route and thus determines RMDOL (except for zones in Germany where the legislative DOL requirements exceed the minimum DOL calculated by the probabilistic assessment). DOL has been calculated for protection against the anchor size associated with each vessel band in each cable route zone. Following this, the RMDOL has been selected for each individual zone in order that the overall risk to the cable over the project lifetime is reduced to ALARP. This varies from 0.55-2.00m. The full results by zone are provided in **Appendix E**. As can be seen if RMDOL is achieved during installation (and maintained throughout the project life) then the NeuConnect cable would have an annual failure probability of 9.00E-04. This equates to a return period of 1111.27 years and a failure probability over the (40 year) lifetime of 3.54%.

#### **Conclusions and recommendations**

TDOL is determined as what can reasonably be added to RMDOL without incurring a step change in costs and which represents a practical target for burial tools on the market.

TDOL has been set at 1.5m for the vast majority of the route and varies up to a maximum TDOL of 2m in some zones due either to anchor risk or legislative requirements. The DOL specification by cable route zone are provided in **Appendix E**. As can be seen if TDOL is achieved during installation (and maintained throughout the



project life) then the NeuConnect cable would have an annual failure probability of 5.37E-04. This equates to a return period of 1863.84 years and a failure probability over the (40 year) lifetime of 2.12%.

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# **GLOSSARY**

AIS	RMDOL
Automatic Identification System	Recommended Minimum Depth of Lowering
CBRA	SI
Cable Burial Risk Assessment	Seabed Index
СРТ	SSS
Cone Penetration Test	Side-Scan Sonar
DoL	TDOL
Depth of Lowering	Target Depth of Lowering
DoC	VC
Depth of Cover	Vibro-Core
EU	
European Union	
Greenlink	
Greenlink Interconnector Limited	
HVAC	
High-Voltage Alternating Current	
HVDC	
High-Voltage Direct Current	
ICES	
International Council for the Exploration of the	
Sea	
IMO	
International Maritime Organisation	
Intertek	
Intertek Energy and Water Consultancy Services	
MAIB	
Marine Accident Investigation Branch	
MBES	
Multi-Beam Echo Sounder	
ммо	
Marine Management Organisation	
PCI	
Project of Common Interest	

# **1. INTRODUCTION**

Intertek Energy & Water Consultancy Services (Intertek) has been appointed by NeuConnect Britain Ltd to conduct a Cable Burial Risk Assessment (CBRA) study for the marine sections of the NeuConnect Interconnector cable route.

# **1.1 Project background**

The proposed Project is a High Voltage Direct Current (HVDC) electrical interconnector with an approximate capacity of 1400MW, which will allow transfer of power between the electricity transmission systems of Germany and Great Britain, crossing the Exclusive Economic Zones (EEZ) of UK, the Netherlands and Germany.

A Geophysical and Geotechnical campaign has been carried out over a 500m corridor along the entirety of the route, with the exception of the last remaining 50km (survey block 15) where no Geotechnical sampling has been carried out. At this time, acquisition of Geotech samples within the last 50km of the route is thought to be undertaken in Q2 of 2019. This CBRA has been completed for the first 650km only. It is recommended this is revised following the completion of the remaining 50km of the cable route.

For an overview of the route see **Figure 2-1**.

### **1.2** Scope of Work

The Scope of Work is as follows:

- Characterisation of the predominant hazards which could pose a risk to the cable system.
- Assessment of the risks posed to the cable system by the identified hazards.
- Assessment of the geophysical and geotechnical data along the cable route.
- Probabilistic assessment of the anchoring threat to the cable system using historical vessel AIS (Automatic Identification System) data.
- Provision of recommended Minimum Depth of Lowering (RMDOL) and Target DOL (TDOL) along the route which if achieved would reduce risk to the submarine cable to levels acceptable to the project.

The CBRA study presented in this report has been undertaken following the Carbon Trust's proposed methodology (ref 22) and steps (see **Figure 1-1**).



# Figure 1-1 Burial Risk Assessment method flowchart in line with Carbon Trust CTC835 guideline

### **1.3** Purpose of report

The purpose of this report is to identify any potential areas where activities, such as shipping and fishing, may pose a risk to the integrity of the installed cable. In the probabilistic risk assessment of anchoring risk, probability is measured as a ratio of the favourable cases to the whole number of cases possible. An event that would occur with certainty has a probability of 1.

Assumptions used are considered conservative and 'realistic worst case' which produces higher probabilities than would likely be the case. This enables the route and installation methods to be considered with a higher margin of safety.

### **1.4** Definition of trenching parameter

Intertek has used the Carbon Trust's definition of DOL for this study. This is illustrated in Figure 1-2.





- A Recommended Minimum Depth of Lowering
- B Target Depth of Lowering
- C Target Trench Depth
- D Depth of Cover

#### **Recommended Minimum Depth of Lowering (RMDOL)**

This is the minimum DOL recommended for protection from the external threats, it is the direct output of the populistic risk assessment and includes a factor of safety (FoS).

#### Target Depth of Lowering (TDOL)

This is the depth that will be specified as the target depth to the cable installation contractor. TDOL is a depth which makes best use of what is achievable by industry standard burial tools to gain additional depth beyond RMDOL without incurring a step change in costs. Target DOL is also a practical application of depth which considers the effect burial depth has on tool stability.

#### **Target Trench Depth**

This is the trench depth cable installation contractors determine is required to meet TDOL. This is driven by cable properties and the selected trenching tool and is usually the diameter of the cable plus between 0.1 m and 0.4 m beyond the TDOL.

#### **Depth of Cover**

The thickness of material on top of the cable after trenching. It is not normally required for cable protection; however, it may be required by some consenting authorities.

### **1.5 Relevant Data**

Data obtained from the Geophysical & Geotechnical campaigns and other relevant data sources are presented in **Table 1-1** below.

Data Type	Name	Information
Survey Bathymetry	MMT_553_NEU_WGS84_UTM31_DTU10 _LAT_DTM_1m_DTM	1m resolution bathymetry over a 500m survey corridor in UTM31
(Ref1)	MMT_553_NEU_WGS84_UTM32_DTU10 _LAT_DTM_1m_DTM	1m resolution bathymetry over a 500m survey corridor in UTM32

#### Table 1-1 Provided Survey Data



Data Type	Name	Information
	MMT_553_NEU_WGS84_UTM31_DTU10 _LAT_DTM_1m_DTM_Slope	Slope in degrees of the seafloor over a 500m survey corridor in UTM31
	MMT_553_NEU_WGS84_UTM32_DTU10 _LAT_DTM_1m_DTM_Slope	Slope in degrees of the seafloor over a 500m survey corridor in UTM31
	Bathymetry Contours obtained from Geophysical survey	1m and 5m bathymetry contours over the extent of the survey corrido
	BSH Aurfmod Bathymetry (Ref 2)	German nearshore bathymetry available annually from 1982 to 2016. 50m resolution from coastline to a depth of 20m
Open Source Bathymetry	EMODnet Bathymetry (Ref 3	EMODnet Digital Terrain Model (DTM) is generated for European sea regions from selected bathy survey data sets (1975 to 2013 using SBES & MBES) and composite DTMs, while gaps with no data coverage are completed by integrating the GEBCO Digital Bathymetry. 200m Resolution
AIS Data (Ref 4)	Intertek_Area_of_Interest_201708_to_2 01807	5-minute time series data of shipping activities in 2017 (12 months of data) +/- 30km either side of the Issue 5 NeuConnect cable route provided by Oceaneering International Inc (ref 5)
Crossings (ref 5)	As found Pipeline/Cable data	As found XY locations and depth of burial for cables and pipelines along the cable route +/- 250m of the centreline
Contacts (Ref 6) SSS contacts & Mag contacts		Seafloor Contacts and Magnetometer anomalies found within the 500m survey corridor
Seabed Sediments (Ref 7)	Seabed Classification	Seabed surficial polygon of classified geology interpreted from SSS and correlated with MBES/SBP
Geology (Ref 8)	Shallow Geological Isopach	Shallow geological isopach interpreted from sub-bottom profiler data and correlated with side scan sonar imagery and bathymetric digital terrain model data
Geotechnical Samples (Ref 8)	Vibrocore, Cone Penetrometer Tests and grab sample logs	Geotechnical sample logs from Vibrocore (VC), Cone Penetration Test (CPT) and Grab Sample (GS)
Geotechnical Results report (Ref 9)	102553-NEU-MMT-SUR-REP-GEOTECH- 02	Results of the Geotechnical campaign
Geophysical Results reports (Ref 10)	102553-NEU-MMT-SUR-REP-OPERFR-02	Results of the Geophysical campaign
Admiralty Charts (Ref 11)	MarineFind	Navigation charts over the study area obtained from http://wmsgateway.findmaps.co.uk/wms/IntertecMetocChar ts

#### Limitations

This document uses the information obtained from the geophysical and geotechnical campaigns carried out by MMT in 2018 and AIS data purchased from Oceaneering. Please note that no geotechnical operations were carried out in the last 50km of the route in German waters (Block 15) due to permitting issues therefore no VC's or CPT's were acquired in this area. This CBRA is based on MMT's survey results highlighted in **Table 1-1** and the geophysical and geotechnical reports (ref 10).

# **2. CABLE ROUTEING**

# 2.1 Route development background

An initial route centreline was put forward for survey from 4C offshore after a desktop study was carried out. The route centreline was reviewed by Fichtner in German Waters and Intertek in Dutch & UK waters. Minor amendments were made, and a final centreline route was created, named:

Neuconnect\_Issue\_03\_180212\_R03\_Route\_Z31

The results of the Geophysical survey revealed areas in which dynamic re-routing during the survey campaign was required to avoid major offshore constraints such as:

- a. avoiding shallows around Long Sand Head
- b. further avoid the BritNed cable nearshore
- c. avoid windfarm licence block area
- d. avoid the Nordegrunde export cable in German waters

After the re-routeing was confirmed a final centreline route was created:

20180726\_NeuConnect\_Issue\_5\_RPL

KP 0 is located on the UK landfall, Isle of Grain and increases toward Germany. KP 700.580 is located near Hooksiel, on the German landfall.

### 2.2 Route overview

The route assessed in this report is presented in **Figure 2-1** below. The route was divided into 15 Blocks to optimise survey efficiency. The Blocks were approximately 50 km long, but the boundaries were adjusted to coincide with turns in the cable route.



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# **NeuConnect CBRA**

# Figure 2-1: Route Overview

#### Legend

- KP's
- -- Median Line
- -NeuConnect Route
- ∟\_\_ Survey Block



Date	Friday, December 14, 2018 10:17:15
Projection	WGS_1984_UTM_Zone_31N
Spheroid WGS_1984	
Datum	D_WGS_1984
Data Source	GEBCO, CDA NEUCONNECT, MMT
File Reference	J:\P2131\Mxd\CBRA\ Fig_2_1_Route_Overview.mxd
Created By	Chris Carroll
Reviewed By	Chris Goode
Approved By	Louis Dumenil
	•



km km 10 20 30 40 ٥

# 3. COLLATION OF DATA AND SUITABILITY REVIEW

This section provides an overview of the bathymetrical and geological data along the surveyed corridor, based on the interpretation of the geophysical and geotechnical data. All data obtained from the geophysical and geotechnical survey has been correlated with each other, and the output from this has been compared to the existing data sources.

### **3.1** Bathymetric data

The seabed topography along the route is characterised by the presence of numerous mounds, areas of mobile sediments, outcrop of bedrock, trenches, ridges, boulders, linear features such as furrows or striations of coarser sediment and varying relief. The knowledge of these features is critical to any cable installation feasibility study. This section describes the existing bathymetry data in the study area and the resolution and quality of each dataset.

Sources for the bathymetry datasets can be found in Section 1.5 and is summarised below:

- EMODnet Bathymetry 100m resolution
- BSH Aufmod Bathymetry 50m
- MMT Survey Data 1m resolution bathymetric soundings
- MMT Survey Data 1m resolution slope in degrees

The open source data was used to define the route centreline for survey. These sources provide a good overview of the surrounding area and highlight large features such as sandwaves. There is good overall correlation between the open source data and the acquired high resolution survey data. The open source dataset, however, does not provide the high resolution required to carry out a cable burial risk assessment. This resolution is provided by the data acquired along the route during the survey.

#### 3.1.1 Suitability of data

The bathymetric soundings obtained for this study is of very high quality and processed to a resolution (1m). It has highlighted areas of shoaling, potential areas of sediment mobility, areas of outcrop and in some cases confirmed the presence of wrecks and obstructions.

The offshore dataset provided by EMODnet and the BSH are good robust datasets suitable to show water depths, areas of shoaling and bathymetric lows. The low-resolution dataset confirms the presence of larger features in the study area, but its resolution is too low to determine any migration rate of mobile bedforms. The acquires bathymetric data provides this insight.

An example of the typical slopes encountered within the survey corridor has been provided by MMT and shown in **Figure 3-1**, while bathymetry of the cable route is displayed in **Figure 3-2** and **Figure 3-3**.



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# **NeuConnect CBRA**

Figure 3-1: Typical Slopes **Encountered within Block 5** 

### Legend

• KP's - NeuConnect Route Slope (Degrees) 0 - 1 🗆 2 - 5 **—**6 - 10 **—** 11 - 15 **=** 16 - 90



Date	Friday, December 14, 2018 10:24:21
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	GEBCO, CDA, NEUCONNECT, MMT
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_1_Slope.mxd
Created By	Chris Carroll
Reviewed By	Chris Goode
Approved By	Louis Dumenil

NeuConnect intertek

				km
0	0.1	0.2	0.3	0.4



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# **NeuConnect CBRA**

Figure 3-2: Bathymetry Overview KP0-KP350

Legend
Median Line
Bathymetry (m below LAT)
-68
-6765
<b>—</b> -6460
-5955
<b>-</b> 5450
-4945
-4440
-3935
<b>-</b> 3430
-2925
-2420
-1915
-1410
<b>—</b> -95
-4 - 0
<b>1</b> - 5



Date	Friday, December 14, 2018 10:18:58	
Projection	WGS_1984_UTM_Zone_31N	
Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, CDA NEUCONNECT, MMT	
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_2_Bathy_KPO_to_KP350.mxd	
Created By	Chris Carroll	
Reviewed By	Chris Goode	
Approved By	Louis Dumenil	

# NeuConnect intertek

				km
0	8	16	24	32



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# **NeuConnect CBRA**

# Figure 3-3: Bathymetry Overview KP350-KP700.58

### Legend

Legenu	
Median Line	2
Bathymetry (m	n below LAT)
-68	
<b>—</b> -6765	
<b>—</b> -6460	
-5955	
<u> </u>	
<u> </u>	
-4440	
<b>—</b> -3935	
-3430	
-2925	
<b>—</b> -2420	
-1915	
<b>—</b> -1410	
-95	
<b>—</b> -4 - 0	
<b>1</b> - 5	
_1 3	
	NOTE: Not
Date	Friday, December 14, 2018 10:28:12
Projection	WGS_1984_UTM_Zone_31N
Spheroid	WGS_1984
Datum	D_WGS_1984
Data Source	GEBCO, CDA NEUCONNECT, MMT
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_3_Bathy_KP350_to_KP700.mxd
Created By	Chris Carroll

**Reviewed By** 

Approved By

8

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**NeuConnect** 

16

24

Chris Goode Louis Dumenil

🗖 km

32



NOTE: Not to be used for Navigatio

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# **3.2 Geophysical data**

Side scan sonar (SSS) data has been used for interpretation of surficial geology, identification of seabed features, and to select contacts. Sediment classes distinguished from SSS imagery are correlated with grab sample, vibrocore (VC) and cone penetration test (CPT) results. Topographical features identified from SSS records have been correlated with bathymetric digital terrain models processed from the bathymetric sounds acquired using the multibeam echo sounder (MBES). Shallow geology interpretations are based on sub-bottom profiler (SBP) data correlated with the geotechnical sampling results. SSS and MBES data is also used to corroborate the SBP interpretation in the uppermost layers.

Magnetometer records collected during the survey are used to identify cables/pipelines and ferrous objects on the seafloor within the survey corridor. Note that due to line spacing this does not constitute an unexploded ordnance (UXO) survey.

### 3.2.1 Geophysical Survey (Blocks 1-15)

Bathymetric soundings were of a good quality throughout. Halocline and sound velocity artefacts were present on occasion in Blocks 8, 9 and 10 and infill lines were acquired where necessary.

Side scan sonar imagery proved to be fit for purpose, yielding detection of objects as small as 0.5 m in the outer ranges of the low frequency (LF) data. Shallow depths and strong tidal currents resulted in data of reduced quality over the shallower banks in Block 02. In Blocks 7, 9 and 10 environmental noise, caused by thermocline/halocline, was observed on some of the acquired lines. Appropriate infill was acquired in order to achieve 200 % coverage, excluding the outermost survey lines. Some reruns were required due to weather and environmentally affected data in Block 13.

The overall quality of the sub bottom profiler (SBP) data were good. Penetration on the Chirp varied from 10 m to 16 m. Penetration on the Sparker varied from 18 m to 30 m in places. Greater signal attenuation was observed when thick layers of surficial sand were present. Where sediments were more granular in nature the Sparker data was used for interpretation to ensure sufficient penetration.

Magnetometer data were of good quality throughout.

#### 3.2.2 Seabed Sediment Classification

The interpretation of surficial sediment types was derived from the acoustic character of the high frequency SSS data, and the interpretations aided by MBES bathymetric 3D surfaces and SBP data. During the review of the SSS survey data, higher intensity sonar returns (darker grey to black colours) were interpreted as relatively coarser grained sediments, and lower intensity sonar returns (lighter grey colours) were interpreted as relatively finer grained sediments. Bathymetric data was used to correct the interpretation for the effects of seabed slope on sonar returns. In addition, drop down video (DDV) images from the benthic sampling and video transects together with logs from the geotechnical sampling were used to verify any interpretations made.

Seabed Sediment Classifications are as follows:

#### Table 3-1 Seabed Sediment Classification

Acoustic description	Interpretation
Low acoustic reflectivity. No texture.	CLAY May contain silt, sand and/or gravel.
Low to medium acoustic reflectivity. Slightly grainy texture.	Sandy CLAY
Medium acoustic reflectivity. Grainy texture.	Gravelly CLAY



Acoustic description	Interpretation	
Low to medium acoustic reflectivity. Slightly grainy to grainy texture with point source reflectors.	SILT Predominantly silt, may have minor fractions of clay, sand and/or gravel.	
Medium acoustic reflectivity, slightly grainy texture.	SAND Predominantly sand, may have minor fractions of clay, silt and/or gravel.	
Medium acoustic reflectivity, slightly grainy texture.	Clayey SAND	
Medium to high acoustic reflectivity. Slightly grainy to grainy texture, coarse texture in places.	Gravelly SAND to sandy GRAVEL The ratio between SAND and GRAVEL can vary within this sediment type.	
High acoustic reflectivity. Grainy to coarse texture.	Clayey GRAVEL	
High acoustic reflectivity. Grainy to coarse texture.	GRAVEL Predominantly gravel, may have minor fractions of clay, silt and/or sand.	

Seabed Feature Classifications are as follows:

### Table 3-2 Seabed Feature Classification

Interpreted Seabed Feature	Criteria <sup>1</sup>
Ripples	Wave length <15 m
	Height <1.0 m
Megarinnles	Wave length 15-50 m
	Height 1-3 m
Sandwaves	Wave length 50-200 m, Height >3 m
Boulder Field	Concentration of 5 to 20 hould are within a maximum
Occasional boulders	area of 100 x 100 m
All >0.5 m	
Boulder Field	
Numerous boulders	Concentration of >20 boulders within a maximum area of $100 \times 100 \text{ m}$
All >0.5 m	
Trawl Mark Area	Concentration of numerous trawl marks
Current Lineation	Current lineation
Marine growth	Marine Growth (Potential Annex 1 habitat)
Relict gas/fluid seepage features	Relict gas/fluid seepage features
Eroded Depressions	Eroded Depressions
Anthropogenic	Man-made
Dredging activity	Dredging activity

<sup>1</sup> Note, there is no standard for bedform descriptions. Criteria presented in Table 3-2 are as defined by route survey contractor MMT. Alternative criteria are also common.

### 3.2.3 Shallow Geology

The classifications of the shallow geology have been derived through a combination of analysis and interpretation of the acoustic character of the SBP data and geotechnical results. A comparison with available background information was made and broken down into major sediment types along the route.

Sediment Type	Acoustic Characteristics	Lithological Variations	Blocks
CLAY	Homogeneous to layered, transparent to high amplitude recent sediments lying from at or near the seabed to base of record and/or filling paleo-channels.	Very soft to very stiff, slightly silty to very silty, slightly sandy to very sandy, slightly gravelly to very gravelly CLAY. Massive to layered to pockets. May locally contain shells, pebbles, cobbles and pockets of SILT, SAND and GRAVEL.	Blocks 1 - 15
SILT	Acoustically layered, low to medium amplitude recent sediments lying from at or near the seabed to base of record and/or filling paleo- channels.	Slightly sandy to very sandy, slightly clayey to very clayey SILT. Generally, present as laminations and pockets and occasionally as a coherent unit.	Blocks 1 - 15
SAND	Acoustically homogeneous to layered, low to medium amplitude recent sediments lying from at or near the seabed to base of record and/or filling paleo-channels.	Slightly clayey to very clayey, slightly silty to very silty, slightly gravelly to very gravelly SAND. Laminations of CLAY and SILT. May locally contain shells, pebbles, cobbles and pockets of SILT, CLAY and GRAVEL. Commonly forming mobile sediment.	Blocks 1 - 15
GRAVEL	Medium to high amplitude recent sediments lying from at or near the seabed to base of record and/or filling paleo-channels.	Slightly clayey to very clayey, slightly silty to very silty, slightly sandy to very sandy GRAVEL. Predominantly comprising shell fragments, Generally present as pockets and internal layers and commonly a surface veneer. Locally mobile. May locally contain pebbles, cobbles.	Blocks 1 - 15
PEAT	High amplitude layers/bands and/or filling paleo-channels.	Soft to firm PEAT. Present as either a thin layer/band, pockets or reworked.	Blocks 5, 6, 8, 9, 10, 12, 13 &14
SAND, SILT and CHALK	Weathered and structureless	Locally present as a mobile sediment overlying CLAY	Block 03

### **3.2.4** Contacts and Anomalies

The contacts or objects interpreted from the side scan sonar imagery were selected according to the following criteria:

Wreck



- Boulder
- Debris
- Wire/rope
- Mound
- Buoy
- Fishing gear
- Other

During seabed interpretation, boulder occurrence at surface has been grouped based on the frequency and content of boulder >0.5 m per  $100 \times 100$  m. Contacts less than 0.5 m were not picked.

Magnetic anomalies, if identified, are classified according to the following criteria:

- Dipole, monopole or complex shape
- Single anomaly or anomalies creating a linear trend relating to possible or identified cable/pipeline crossings.

### 3.3 Geotechnical data

The geotechnical investigations consisted of vibrocore samples (VC) and cone penetration tests (CPT).

The initial program was for approximately seven hundred (700) VC to be carried out, i.e. one every kilometre. CPT locations were to be carried out every 2km, such that correlation could be made between the two investigation methods. In total, three hundred and twenty (320) CPT locations were carried out, with multiple re-attempts required at eight locations, resulting in a total number of tests as three hundred and twenty-nine (329). Six hundred and fifty-five (655) VC locations were carried out.

#### 3.3.1 Vibrocores

The vibrocores were recovered using an electrically powered VKG-6 vibrocore unit, owned and operated by MMT, fitted with a 6m long core barrel and using clear PVC 100mm OD liner. During VC operations, there were instances of re-attempts being required due to initial poor recovery. Poor penetration and subsequent low material recovery were generally a function of dense to very dense coarse granular material or high strength cohesive material being encountered.

Following an acceptable recovery of a vibrocore sample to the vessel deck, each liner was successively cut into 1.0m sections. Offshore processing comprised the production of a field log from the visual inspection of the cut liner ends. Upon completion of the offshore processing, the complete vibrocore samples were then appropriately labelled, sealed and placed into secure storage crates. Each vibrocore liner in turn was removed from storage, split longitudinally, photographed and logged.

Shear strength measurements were taken on any suitable cohesive strata using a torvane. In-situ thermal measurements were also carried out during logging

#### 3.3.2 Cone Penetration Testing

CPTs were carried out to a maximum depth of 5.50m using 10cm2 electric piezocones operated from a ROSON seabed CPT unit, ballasted to eleven tonnes in air weight. The aim at each CPT location was to reach the target penetration depth of 5.00m. Re-attempts were required at eight locations due to either initial failure to reach the required depth, concern with the overall test application class, or due to electrical power and/or communication issues with the seabed CPT unit.

Measured cone end resistance, sleeve friction and dynamic porewater pressure was recorded at 2cm intervals of penetration.

#### 3.3.3 Suitability of data

Each VC and CPT log are clearly presented in an annex to the Geotechnical report (Ref 9) and provided the relevant geological information at each location.

Within the Geotechnical report (Ref 9) a scale has been derived for the seabed conditions. We have used this to define 'route sections', based on similarities between the CPT/VC results. The scale is called the Seabed Index (SI) and can be viewed as a semi-quantitative scale in respect of the encountered ground conditions, and to some respect, the likely difficulties for engineering activities in the investigated depth below seabed level. The Seabed Index values provided are based on the geological and geotechnical characteristics of the encountered material at a depth of 1.50m. The seabed index is not, however, a suitable categorisation for a CBRA. This is because it only provides a classification at one specific depth (i.e. 1.5m) and review of the VC and CPT show that the soil type and properties vary significantly above and below this single point. As a result we have re-assessed the seabed classification using the CPTs and VC information directly – see Section 4.

### **3.4** AIS shipping data

AIS (Automatic Identification System) is an automatic tracking system used on ships for identifying and locating vessels by electronically exchanging data with other nearby ships and AIS base stations and satellites. The International Maritime Organisation (IMO) requires AIS to be fitted aboard international voyaging ships with gross tonnage of 300 or more tons, and all passenger ships regardless of size. This would cover almost all commercial vessels and most private vessels that would be of risk to the cable; however, some smaller fishing vessels could be missing from the AIS dataset.

Information provided by the AIS equipment usually consists of unique identification number for each vessel, vessel name, vessel type, vessel position, course and speed. Other attributes like vessel deadweight tonnage and draught may be completed by the AIS supplier.

To quantify the anchoring risk to the cable, Intertek procured historical AIS data along the NeuConnect cable route for the period of August 2017 to July 2018 (inclusive) (ref 4) from Oceaneering for a study area of approximatively 30km wide either side of the cable route. This wide study area allows a clear insight into vessel movements by vessel type/size in the surrounding geography.

The NeuConnect route crosses several areas of high vessel traffic which are associated with shipping lanes. Where possible, the cable crosses perpendicular to these lanes, minimising the risks of encountering traffic during survey, installation and any operations and maintenance campaigns. These lanes are at approximately the following KPs: KP86; KP190; KP205; KP338, KP378; KP424; KP436; KP611; KP622 and KP 698. These are highlighted on **Figures 3-4** to **3-7**.

Vessel density increased closer to land as shipping routes condense to ports and harbours. In the UK nearshore area, between KPO and KP2O the route travels in a westerly direction and is constrained between a shipping channel associated with the port of London and the BritNed Cable. This can clearly be seen on the AIS data before the route turns into a North Easterly direction. There are a number of additional areas separate from the linear shipping lanes with increased vessel density which can be correlated with offshore windfarms and the associated windfarm maintenance vessels. This can be seen again in German waters, where there is a clear correlation between the windfarms and vessel density. Vessel density increases again in the approach to the German landfall.

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Figure 3-4: Vessel Density August 2016 to July 2017

### Legend

NeuConnect Route
Vessel Hours Per Year (1km x 1km grid)
0 - 10
10 - 20
20 - 50
50 - 200
200 - 1000
1000 - 3000
3000 - 5500
5500 - 9000
9000 - 13000
13000 - 30000
30000 - 55000
55000 - 120000



Date	Monday, December 17, 2018 12:59:13	
Projection	WGS_1984_UTM_Zone_31N	
Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, NEUCONNECT, OCEANEERING	
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_4_AIS_Data.mxd	
Created By	Chris Carroll	
Reviewed By	Chris Goode	
Approved By	Louis Dumenil	

# **NeuConnect**

intertek

0 10 20 30 40 km



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# Vessel Density August 2016 to July 2017 KP0 to KP250

### Legend

• KP's
— NeuConnect Route
Vessel Hours Per Year (1km x 1km grid)
0 - 10
10 - 20
20 - 50
50 - 200
200 - 1000
1000 - 3000
<b>3000 - 5500</b>
<b>5</b> 500 - 9000
9000 - 13000
<b>13000 - 30000</b>
<b>3</b> 0000 - 55000
<b>5</b> 5000 - 120000



Date	Monday, December 17, 2018 14:23:08	
Projection	WGS_1984_UTM_Zone_31N	
Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, NEUCONNECT, OCEANEERING	
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_5_AIS_Data_KP0_to_KP250.mxd	
Created By	Chris Carroll	
Reviewed By	eviewed By Chris Goode	
Approved By	Louis Dumenil	

# **NeuConnect**

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intertek

km km 5 10 15 20

Ω



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# Vessel Density August 2016 to July 2017 KP250 to KP500

### Legend

KP's
NeuConnect Route
Vessel Hours Per Year (1km x 1km grid)
0 - 10
10 - 20
20 - 50
20 - 50
200 - 1000
200 - 1000
3000 - 3000
3000 - 5500
5500 - 9000
13000 - 30000
30000 - 55000
30000 - 55000
55000 - 120000



Date	Monday, December 17, 2018 13:04:57	
Projection	WGS_1984_UTM_Zone_31N	
Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, NEUCONNECT, OCEANEERING	
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_6_AIS_Data_KP250_to_KP500.mxd	
Created By	Chris Carroll	
Reviewed By	Reviewed By Chris Goode	
Approved By	Louis Dumenil	

# **NeuConnect**

km km

Ω

5 10 15 20

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# Vessel Density August 2016 to July 2017 KP500 to KP700.58

### Legend

• KP's	
- NeuConnect Route	
/essel Hours Per Year (1km x 1km grid)	
0 - 10	
10 - 20	
20 - 50	
50 - 200	
200 - 1000	
1000 - 3000	
3000 - 5500	
5500 - 9000	
9000 - 13000	
13000 - 30000	
30000 - 55000	
55000 - 120000	



Date	Monday, December 17, 2018 13:02:56	
Projection	WGS_1984_UTM_Zone_31N	
Spheroid	WGS_1984	
Datum	D_WGS_1984	
Data Source	GEBCO, NEUCONNECT, OCEANEERING	
File Reference	J:\P2131\Mxd\CBRA\ Fig_3_7_AIS_Data_KP500_to_KP700.mxd	
Created By	Chris Carroll	
Reviewed By	eviewed By Chris Goode	
Approved By	Louis Dumenil	

# **NeuConnect**

intertek

0 5 10 15 20 km

# 3.5 Territorial Regulatory Burial Requirements

For the purpose of this CBRA we have complied with the following regulatory burial requirements:

- In Germany the DOL should be minimal 1.5 m as standard (i.e. regardless of threats and soil conditions see Zones 76-81 and 84-87) and minimum 2.0m in the traffic separation lanes (Zones 82-83);
- In the very nearshore landfall area in Germany the presence of dredging activities requires the burial depth to be minimal 5 m regardless of threats and soil conditions however this section (Zone 88) is outside the scope of this CBRA.
- In the United Kingdom and the Netherlands the burial depth should follow from a risk based approach.

# 4. ASSESSMENT OF SEABED CONDITIONS

This section presents the breakdown of the NeuConnect cable routes based on distinct seabed conditions based on our review of the available geotechnical and regional geological data.

In the MMT geotechnical report (ref. 9), complete descriptions of CPT and VC samples at each location are provided. A further level of description is provided by applying a "Seabed Index" classification to each complete sample, reproduced from the MMT report in **Table 4-1** below. This classification is applied at 1.5m depth.

As discussed in Section 3.3, the seabed index is not a suitable categorisation for a CBRA because it only provides a classification at one specific depth (i.e. 1.5m) and review of the VC and CPT show that the soil type and properties vary significantly above and below this single point. As a result, we have reassessed the seabed classification using the CPTs and VC information directly. The results of this analysis are provided in **Appendix A**.

### Table 4-1 Summary of the Seabed Index (SI) scale

SI	Typical Seabed Sediment
1	Shallow Bedrock (<1.00m)
2	Bedrock / Obstruction (>1.00m)
3	Very dense granular, very to extremely high strength cohesive
4	Medium to high strength cohesive
5	Dense granular
6	Medium dense granular
7	Loose granular, low to medium strength cohesive
8	Very loose granular, low strength cohesive
9	Very low strength sandy cohesive
10	Extremely low strength cohesive

#### Table 4-2 Interpreted Undrained Shear Strength Parameter and classification

Descriptive term	Shear Strength Range (kPa)
extremely low	<10
very low	10 to 20
low	20 to 40
medium	40 to 75
high	75 to 150
very high	150 to 300

### Table 4-3 Interpreted Relative Density Parameter and classification

Descriptive Term (Relative Density)	Cone Resistance Range (MPa)
very loose	<2.5
loose	2.5 to 5
medium dense	5 to 10
dense	10 to 20
very dense	>20

# 5. **RISK IDENTIFICATION AND ASSESSMENT**

To specify an appropriate DOL for the Greenlink cable, Intertek conducted a risk identification and assessment considering both the likelihood and severity of all external threat to the cable.

Risks that pose a threat to installed marine cables can be classified as either Natural or Anthropogenic risks. The following sections describe the most common risks affecting marine cables.

The completed Risk Register is provided in **Appendix B**.

### 5.1 Natural hazards

#### 5.1.1 Sediment Mobility

Sediment mobility in itself does not pose a threat to a submarine cable but it can lead to issues with the thermal conductivity of cables (over burial), and exposure of cables (scour); burial under excess sand can change the thermal properties of the soil and cause hotspots along the cable, while exposure increases the risk of damage due to external aggressors such as trawling and anchoring and potentially mechanical damage from free spans.

There are several areas within the NeuConnect 500m corridor where there are bedforms present which could be mobile.

The first indication of mobile bedforms can be observed at KP11. These have been interpreted by MMT as ripples and have a wave length of <15m and height <1.0 m. Ripples are observed intermittently throughout the route where they terminate at KP304 and do not appear again until KP620 and extent to the end of the route at KP700. While these may indicate some levels of sediment movement it is not thought that these minor bedforms will have an impact on the cable installation or operability.

Mega Ripples are also observed intermittently throughout the corridor, between KP108 & KP190 and then between KP669 and KP700. These are slightly larger than ripples and have a wavelength of 15-50m and height 1-3m so may pose a risk to an installed cable within its lifetime.

Sandwaves are present within the route corridor and are first observed between KP78 and KP 80. These have been interpreted by MMT to have a wavelength 50-200m and height of >3 m. Sandwaves are next present at KP 106 and remain as intermittent features until KP294. They do not appear again until between KP673 and KP700.

For further details of mobile features interpreted along the NeuConnect corridor please see MMT's Geophysical Report (Ref 10).

For the purposes of burial targets (RMDOL & TDOL) all depths are to be measured against trough depth and after any required route engineering has been undertaken to flatten mobile sediments.

#### 5.1.2 Other geohazards

Earthquakes, volcanic eruptions, landslides, slumps and turbidity flows, could have a devastating effect on a subsea cable within its operational lifespan. Generally, these hazards are associated with areas that are tectonically active or are located on or near a continental slope or rise. The NeuConnect route resides in an area that is tectonically stable and away from a continental shelf/plate boundary; therefore, is it not expected that any significant hazards of this nature present on the route. No areas of unstable sediment were encountered along the NeuConnect route.

### 5.1.3 Outcropping bedrock

Bedrock and hard sediment are considered an issue when the seabed proves to have properties that affect, and effectively inhibit, the use of the common trenching methods.

Bedrock and hard sediment may cause problems with reaching the required burial depth. In addition, topographical irregularities in bedrock or hard sediment may cause freespan, point load, and abrasion. Methods to avoid problems with bedrock or hard sediment include appropriate micro-routing, deployment of heavier trenching machines, or the installation of additional cable protection.

MMT's Geophysical results report (Ref 10) details in full the exact locations of hard ground. There are no areas of outcrop as such within the NeuConnect route. There is however, a lighthouse (Mellumplate lighthouse) that is located on an isolated rock outcrop offset 139 m east from KP 683.709.

#### 5.1.4 Waves and currents

Waves and currents may cause abrasion and stress to an exposed cable where it crosses over rock or rough terrain. Sufficient burial and protection of a subsea cable will reduce the risk of waves and currents to a negligible level.

#### 5.1.5 Extreme weather

Extreme weather is unexpected, unusual, unpredictable, severe or unseasonal weather and involves weather at the extremes of the historical distribution. While the NeuConnect cable is geographically in a relatively weather-stable area, sufficient depth of lowering and protection will be required to deal with the effects of extreme weather such as excessive scour and extensive movement of mobile sediments.

### 5.2 Anthropogenic hazards

#### 5.2.1 Shipping

Shipping represents an anchoring hazard to a cable on or in the seabed. Vessels that drop their anchors have the potential to interact with the cables if the anchor is dragged along the cable route or dropped directly on the cable. Ships in transit do not typically anchor under normal conditions and planned anchoring normally takes place within a designated area. Contact with an anchor is often catastrophic for the cable as the forces applied by a moving anchor can be extremely large. The anchoring hazard may result from:

- Insufficient protection
- Negligent anchoring
- Emergency anchoring (where an anchor is deployed to prevent collision or grounding)
- Accidental anchoring (where an anchor falls unexpectedly from a vessel due to equipment impact or operator error). Accidental anchoring is accentuated by proximity to a port where, for navigational reasons such as the traffic density, proximity of obstructions, shallow waters and other vessels, anchors are more likely to be readied for deployment.
- A vessel being anchored inadequately (where an anchor is deployed but drags along the seabed prior to embedment)

#### 5.2.2 Fishing gear interaction

Noting that vessels of less than 300 deadweight tonnage (DWT) tonnes are not presently required to carry AIS transponders, fishing data obtained from the Marine Management Organisation (MMO) has


been analysed to determine areas fished using mobile methods (dredging, trawling, netting etc). It is difficult to determine the specific type of gear used but the specified DOL must consider the maximum depth of penetration from fishing.

#### 5.2.3 Dredging/aggregate extraction/subsea mining/dumping

Within UK, Dutch and German waters, all active and historical dredging and aggregation areas are known and have detailed surveys undertaken to ascertain sediment levels. All disposal and dumping sites are also known and are contaminated with material such as heavy metals and in some extreme cases radioactive waste. Aggregation, dredging and dumping ground have all been avoided with the exception on the very nearshore landfall area in Germany. The route has no option but to cross a known dredging area between approximately KP 696 and 697. Within this area the water depth is constantly maintained at 17.6m, as stated on the admiralty chart (ref 11) The Nordergründe Export Cable is also observed to cross this area. The as laid data indicates that the export cable is buried to between 5 and 6m crossing the dredged area.

The NeuConnect Interconnector will cross a total of 89 existing subsea linear assets.

- 29 in-service cables, 45 out-of-service cables and;
- 13 in-service pipelines, 2 abandoned pipelines

MMT surveyed 30 known in-service assets. Details of this survey can be found in MMT's crossing survey report (Ref 18). Each live asset will require a third-party crossing agreement and each disused asset will need permission to remove the existing asset prior to installation. Before each crossing location burial depth will be steadily decreased to allow crossing of the asset and then will be steady increased after the crossing down to the specified burial depth again. The point at which the burial depth starts to decrease will be determined by assessment of how close to the crossed asset the burial tool can be safely operated.

### 5.3 Risk assessment and evaluation criteria

In this section, the risk acceptance criteria are discussed to allow implementation of the results of the probability of failure and consequence of failure assessment. The key output of this Risk register being a probabilistic assessment of the risk to the cable after burial options are completed to a specified depth.

**Figure 5-1** shows the risk matrix that we developed for this project. The generic meaning of the colour code is indicated in the legend below the figure. The principle works as follows: an event, such as a cable failure, has a probability of happening, and has a severity. The combination gives a location in the risk matrix and from that follows required next steps.

				Likelihood		
		Rare (1)	Unlikely (2)	Possible (3)	Likely (4)	Almost cer
	Insignificant (1)	1	2	4	5	
Ϊţ	Minor (2)	2	4	6	8	10
ver	Moderate (3)	3	6	9	12	15
Se	Major (4)	4	8	12	16	20
	Severe (5)	5	10	15	20	25

#### Figure 5-1 Risk matrix



The severities are defined for two different categories, cost and performance, as shown in **Figure 5-2**, while the definition of the likelihood is shown in **Figure 5-3**.

			Severity											
			Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Severe (5)							
	Cos	t	Less than £50K	£50K - £500K	£500K - £10M	£10M - £200M	10% CAPEX (>£200M)							
Category	Performance	Availibility	Increased surveillance	Increased maintenance Occasional duration limits (days) at peak capacity	One substantial outage + major intervention Regular duration limits (hours) at peak capacity	Between one and eight 6-month outages. Between 1 and 10% capacity loss	10% availability drop through project lifetime (eg > eight 6 month outages in 40 years) > 10% max capacity loss							
		Derating	Rare minor derating in a short period of time.	Routine minor derating for short period of time.	Minor derating for extended period.	Substantial derating for significant period of time.	Significant permanent derating.							

#### Figure 5-2 Severity definition

#### Figure 5-3 Likelihood definition

	Description	Probability of event in the lifetime (40 Years)	Probability of event per year range		
Rare (1)	Although they are conceivable, not expected to occur. "Plausible but no known occurrences in industry."	0% - 2%	0.00% - 0.05%		
Unlikely (2)	Incidents of this nature are uncommon but there is a chance that they may occur.	2% - 10%	0.05% - 0.26%		
Possible (3)	This may happen.	10% - 25%	0.26% - 0.72%		
Likely (4)	Likely to experience in the near- future.	25% - 75%	0.72% - 3.41%		
Almost certain (5)	Will occur or is already occurring. "Probably within the life time of the project (i.e. several known occurrences per year)."	75% - 100%	3.41% - 100.00%		

### 5.4 Risk mitigation

There are several remedial methods of protection that can be considered to reduce the risk to the cable. The principal method of protection for most modern cable systems is burial into the seabed. In general, an activity must penetrate through the material above the burial to interact with the cable.

It may be noted that there are instances in which utility crossings or extremely hard soil conditions (e.g., bedrock) preclude burial or reduce the depth achievable. In such instances, there are three primary means of remedial protection which can be used:

- Concrete mattresses
- Rock placement
- Articulated shells

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## 5.5 Final route segmentation

The final route segmentation used for the probabilistic assessment was divided according to changes in risk profile resulting from changes to:

- Anchoring risk (as determined by water depth and vessel traffic density)
- Fishing risk
- Changes in soil type or coastal process feature (e.g. presence of mobile sediment)

Bathymetric profile for the cable route is illustrated in **Figure 5-4** and the final cable segmentation for the NeuConnect cable route is presented in the Cable Burial Risk Assessment (CBRA) Summary Table (**Section 7**).



#### Figure 5-4 Bathymetry profile overview – NeuConnect cable route

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# 6. PROBABILISTIC RISK ASSESSMENT

This section describes the methodology and results used to assess the fishing and anchoring risk to the NeuConnect cable system.

All relevant factors are assessed for a cable route on a section by section basis.

## 6.1 Fishing risk assessment methodology

The entire route is within a water depth range in which mobile gear fishing could take place, thus we recommend the cable is given sufficient protection from potential fishing gear interaction along the entire route.

The Carbon Trust' guidance (ref 12) indicates that penetration of fishing gear into the seabed is limited to a maximum of 0.3 m penetration even in soft sediment based on previous literature research. Adding a 20% Factor of Safety (FoS) to account for measurement errors and deformation of soil beneath fishing gear gives a Recommended Minimum DOL of 0.36m for fishing risk alone.

In practice a DOL < 0.5m is not advisable due to the instability of some trenching tools at these depths. Therefore, TDOL would be  $\geq 0.5m$  if based on fishing risk only.

## 6.2 Vessel and anchors bands

To facilitate easier analysis of vessel traffic the vessels were grouped into 11 deadweight tonnage bands. This allowed a set range of anchor sizes to be used to characterise those carried by shipping fleets in the tonnage bands. This is shown below in **Table 6-1**.

The vessels' DWT were calculated from the vessel length data supplied in the AIS data. The methodology to calculate the vessels' DWT is as follows:

- 1. Create a list of all unique vessels present in the AIS data set
- For each vessel category (Cargo, Tanker, Passenger, etc..) research the DWT information online (<u>https://www.marinetraffic.com/</u>, ref 14) using vessel MMSI number for a sufficient set of vessels per category (30 to 50 vessels' DWT were researched online per vessel category).
- 3. For each vessel category, plot the DWT vs Length and derive a power trendline that fits the distribution of data points.

Based on the above process, the following empirical formulas were derived by Intertek and used to calculate the vessels' DWT:

$$DWT_{cargo} = 0.0322 \times L^{2.6119}$$
$$DWT_{Tanker} = 0.0008 \times L^{3.3662}$$
$$DWT_{Passenger}^{2} = 0.0834 \times L^{2.0656}$$
$$DWT_{Vessel<70m} = 0.0042 \times L^{2.9328}$$

Where:

DWT = Vessel deadweight tonnage (tonnes)

L = Vessel length (m)

 $<sup>^2</sup>$  The relationship between DWT and vessel length would normally be expected to be closer to the cube of the length than the square. However, as demonstrated in **Appendix D**, the formula is a good fit to the data set obtained from research.



The plots from which the above empirical formulas have been derived are provided in Appendix D.

Once the vessel deadweight tonnage is known, the theoretical anchor mass can be estimated by the following empirical formula proposed by Luger as referenced in the Submarine Power Cables book by Worzyk, 2009 (this is recognised as an acceptable approach by the Carbon Trust's CTC-835):

$$y = 7 \times 10^{-13} x^3 - 6 \times 10^{-7} x^2 + 0.1635 x + 2162.2$$

Where:

y = Anchor mass (kg)

x = Vessel deadweight tonnage (upper DWT boundary of each band) (tonnes)

The Carbon Trust's guidance (ref. 13) shows the Luger formula to be a good fit with the International Association of Classification Societies (IACS) rules for vessel DWT between 10,000 Tonnes and at least up to 100,000 tonnes. However, the Luger formula does not give a range of applicability for vessel DWT below 10,000 Tonnes. Thus, for the vessel Band with a DWT up to 10,000 (Bands A-D), Intertek has used the estimated anchor size from Table 9 of ref.13 and for Bands H-K Intertek has used a chart from a presentation given by Luger.

We then used an anchor catalogue (<u>http://www.sotra.net/catalogue/2016/index.html</u>, ref.16) to select realistic stockless anchor dimensions based on the theoretical anchor mass calculated. The "Hall" pattern anchor is used for Bands A-F and "Spek" is used for Bands G-K as these are typical stockless anchors in common use, especially on older vessels. These type of anchors have a relatively long fluke length for its unit mass and a large opening angle, which equates to more penetration for a given fluke length.

Band Name	Vessel DWT [Tonnes]	Estimated Anchor Mass [kg]	Selected Anchor Mass [kg]			
Band A	0 – 100	335*	300			
Band B	100 – 1,000	524	570			
Band C	1,000 – 3,500	1,302	1,290			
Band D	3,500 - 10,000	2,388	2,460			
Band E	10,000 - 30,000	6,546	6,900			
Band F	30,000 - 60,000	9,963	9,900			
Band G	60,000 - 100,000	13,212	13,500			
Band H	100,000 - 150,000	16,917	17,800			
Band I	150,000 - 200,000	18,583	20,000			
Band J	200,000 – 325,000	22,167	20,000			
Band K	325,000 - 460,000	31,667	29,000			

#### Table 6-1 Vessel and anchor size bands

\* The Carbon Trust Guideline (ref.13) specifies an estimated anchor size of 335kg for vessels of 500 Tonnes. As such, the selected anchor mass represents a conservative approach.

## 6.3 **Probabilistic model**

Intertek have developed a robust probabilistic assessment to determine the probability of interaction between an anchor and an installed cable based on local data for shipping traffic intensities, derived from historical AIS data. The model predicts the probability of a buried cable being struck because of

anchoring. The probability of cable-anchor interaction decreases as DOL increases below the maximum penetration limit of each individual class of external aggressor (i.e. fishing gear and anchors of various sizes)

The method takes account of:

- shipping traffic intensity by vessel size;
- probability of engine failure;
- probability of an emergency anchor deployment;
- dragging distance of an anchor; and
- protection factor provided by soils.

The assessment provides the annual probability of a failure, which can in turn be used to calculate the mean time to failure (MTTF) for anchoring. It should be recognised that it does not predict a failure time and that failure in Year 1 is equally as likely as in any subsequent year.

The probabilities are calculated for a range of vessel and anchor sizes. The anchor size for the upper end of the vessel tonnage band is used, as indicated in **Table 6-1**.

The probability of failure of the cable because of damage caused by emergency anchoring is calculated using the following equation:

$$P_{anchor\ damage\ per\ km} = K \times P_{loss} \times P_{deploy} \times P_{fa}$$

Where:

Panchor damage per km	= probability of anchor damage on cable (-/year.km <sup>-1</sup> )
К	= total number of ship hours in sample box (hr/year.km <sup>-2</sup> )
P <sub>loss</sub>	= probability of engine failure (-/engine hour)
P <sub>deploy</sub>	= probability of anchor operation (-)
P <sub>fa</sub>	= protection factor (-)

#### **Buffer Zones**

A vessel does not immediately drop an anchor when it encounters engine problems. It drifts for a period while trying to recover from the engine problem. If unrecoverable, it slows down to below approximately 1 knot before dropping an anchor. Anchoring at speeds above 1 knot will most likely lead to vessel structural damage. Defining a buffer which is greater than just directly adjacent to the cable route allows for a potential period spent drifting while trying to recover the engine and/or slow down sufficiently to allow anchoring to take place. This means that the Neuconnect cables will not just be affected by vessels that are directly above it.

The buffer for the cable route for each individual cable segments are defined as a 2km around each zone in open water and 100m and 200m for Zone 1 and Zone 2 respectively as these areas are severely constrained nearshore areas which are under the Port of London Authority's pilotage scheme (and thus highly controlled areas). **Figure 6-1** below show the cable route zones and associated buffers used.



Figure 6-1: Route Zones - KP 0 to 250											
Fig	ure 6-1: R	Route Zones - KP 0 to 250									
<b>Legend</b> ∙ KP's											
- NeuConnec	t Route	e –- UK 12nm Territorial Sea Limit									
ZONE		Median Line									
1 22		Bathymetry (Below LAT m)									
2 23											
3 24											
4 25											
5 26											
6 27											
7 28											
8 29											
9 30											
10 31											
11 32											
12 33											
13 34											
14 35											
15 36											
16 37											
17 38											
18 39											
19 40											
20 41 21 42		NDTE: Not to be used for Navigation									
Date	Tuesday	, March 19, 2019 17:02:54									
Projection	WGS_19	84_UTM_Zone_31N									
Datum		1984									
Data Source											
	J:\P2131	\Mxd\CBRA\									
File Reference	Fig_6_1	Route_Zones_KP0-250.mxd									
Created By	Chris Go	ode									
Reviewed By	Chris Car Alan Red	Iman									
NeuCo	nnec	t intertek									



NeuConnect CBRA											
Figur	e 6-2: Route Zones - KP 250 to 500										
Legend											
- NeuConnect	Route Median Line										
ZONE	Bathymetry (Below LAT m)										
22 55	High : 100										
<b>—</b> 33											
<b>3</b> 4 <b>5</b> 7	-										
35 58											
36 50											
37 59	Low : 0										
38 60	2011-0										
<b>3</b> 9 <b>6</b> 1											
<b>40 6</b> 2											
<b>41 6</b> 3											
42 64											
<b>4</b> 3 <b>6</b> 5											
<b>44</b> 66											
45 67											
<b>46 6</b> 8											
<b>47</b> 69											
<b>48</b> 70											
49 71											
<b>50 72</b>											
<b>51 73</b>											
<b>—</b> 52 <b>—</b> 74											
53 75 54 76	NOTE: Not to be used for Navigation										
Date	Tuesday, March 19, 2019 16:53:40										
Projection	WGS_1984_UTM_Zone_31N										
Spheroid	WGS_1984										
Datum	U_WG5_1984										
Data Source	UKHU, CDA, GEBCU, EMODNET, NEUCONNECT										
File Reference	J:\P2131\MXa\UBKA\ Fig_6_3_Route_Zones_KP500-700.mxd										
Created By	Chris Goode										
Reviewed By	Chris Carroll										
Approved By	Alan Redman										
Neu <mark>Co</mark> i	nnect intertek										

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# NeuConnect CBRA

Figure 6-3: Route Zones - KP 500 to 700.58

	Legend				
	• NP S	t Pouto			
	ZONE	indute			
	74				
	75				
	76				
	77				
	78				
	79				
	80				
	81				
	82				
	83				
	84				
	85				
	86				
	87				
	88				
	Median Line	2			
	Bathymetry (B High : 100	elow LAT m)			
	Low : 0			NOTE: Not to	be used for Navigation
	Date	Tuesday, Marc	h 19, 2019	17:01:18	
	Projection	WGS_1984_UT	M_Zone_3	1N	
	Spheroid	WGS_1984			
	Datum	D_WGS_1984			
	Data Source	UKHO, CDA, GE	BCO, EMO	DNET, NEUCO	DNNECT
	File Reference	J:\P2131\Mxd\ Fig_6_3_Route	CBRA\ _Zones_KP	500-700.mxd	
	Created By	Chris Goode			
	Reviewed By	Chris Carroll			
	Approved By	Alan Redman			
	NeuCo	nnect	in	tert	æk
ſ	0 10	203	0 4	<b>1</b> km 10	© Metoc Ltd, 2018. All rights reserved.
-					

#### K - Total number of ship hours in sample box

This can be obtained by interrogating the historical AIS data. The AIS data has readings every 5 minutes.

Each Zone of Interest is split into a grid of 1km square boxes and the vessel intensities for each vessel class is calculated for each 1km square box from the AIS data.

The cable route length is then divided into sample boxes. A sample box is defined as a 1 km long box, parallel with the route of width equal to the anchor drag distance (assumed to be 60m).

The vessel intensities used for each sample box are defined as the P90 vessel intensity for each vessel/anchor bands from the buffer (i.e. the vessel intensities for which 90% of the 1km square boxes have lower intensity per band) multiplied by the drag distance(m)/1000m.

#### Ploss - Probability of engine failure

This is taken from a report compiled by DNV (Det Norske Veritas) for the Marine & Coastguard Agency (ref 26) for coastal waters around the UK. The value used in the calculations is 0.00015 / hr (equivalent to an average of 1.3 / yr of continuous vessel operation). In general, this figure is probably somewhat conservative.

#### Pdeploy - Probability of anchor operation:

The anchor will not be dropped in every emergency situation. This depends on the local geography, local bathymetry and the Vessel Master's knowledge.

Table 6-2 provides the P<sub>deploy</sub> factors which have been applied in this CBRA.

						P <sub>deploy</sub>						
Scenario	Band A	Band B	Band C	Band D	Band E	Band F	Band G	Band H	Band I	Band J	Band K	
Water depth between 0 and 30m (under pilotage <sup>3</sup> )	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Water depth between 0 and 30m	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Water depth between 30 and 50m	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Water depth between 50 and 75m	0	0	0.025	0.025	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

#### Table 6-2Definition of P<sub>deploy</sub>

#### P<sub>fa</sub> - Protection factor

This considers the protection offered by soil cover.  $P_{fa}$  is a combination between the anchor penetration depth in different soil condition and the actual cable DOL and is either 0 or 1. If the cable DOL is equal to or greater than the maximum anchor penetration depth (including Factor of Safety) for a given anchor size then  $P_{fa}$  equals to 0 for that anchor size. Conversely, if cable DOL is less than

<sup>&</sup>lt;sup>3</sup> Zone 1 and Zone 2 are defined as under pilotage.



the anchor penetration depth (including the Factor of Safety) for a given anchor size then  $P_{fa}$  equals to 1 for that anchor size.

Anchor penetration depths for SANDS and CLAYS (or SAND/CLAY mixes) are typically calculated by taking the sine of the fluke opening angle and multiplying by the fluke length (for Hall anchors this is 45°). This is due to observations that anchor shanks are typically supported by the soil as they are dragged over it. However, EXTREMELY LOW STRENGTH SILTS and CLAYS (i.e. with shear strength <10kPa) are unable to support the shank and as such penetration can be significantly deeper – 3 times the sine 45° of fluke length is typically used in the industry and is accepted for this study as well. In addition, industry understanding is that HIGH STRENGTH CLAYS (≥100kPa) prevent flukes penetrating at all so it would be valid to only specify a nominal penetration depth in high strength clays present on the NeuConnect route. However, taking a conservative approach and in recognition that MMT has defined high strength clay as 75kPa (rather than 100kPa), we have defined anchor penetration depths as 0.5 times sine 45° of fluke length for areas designated as HIGH STRENGTH CLAY.

As above, the industry typically applies Sin 45° of fluke length to calculate anchor penetration in SANDS. However, trials in the German Bight in 2013 (ref 23) suggest that in SANDS anchor penetration are less than previously thought. This report concluded that a 11.5t Hall anchor would have a maximum depth of penetration of 1m in VERY LOOSE SAND, 0.79m in LOOSE SAND and 0.40m in a MEDIUM DENSE SAND which are less than the theoretical value of 1.17m calculated by Sin 45° of fluke length. In addition, the report indicates extrapolation of results to anchors of different size using a scaling factor is valid.

Thus, for each anchor size defined in **Table 6-1**, Intertek calculated the theoretical anchor penetration depth and used the results outlined in the German Bight Anchor Penetration Trials report (ref 23) to scale these anchor penetration depths to more realistic values for areas of SAND sediment type. Areas of SAND sediment type which were dense or very dense were considered as medium dense for the purposes of calculating anchor penetration depths.

A Factor of Safety of 20% has been applied on the anchor penetration depths to consider:

- uncertainty in anchor sizing;
- uncertainty of soil type; and
- deformation of the soil beneath the maximum penetration depth.

In addition, all final maximum penetration depths have been rounded up to the closet 5cm to avoid implying a level of accuracy which is not justified. Results of anchor penetration calculations by soil category, without and with the Factor of Safety are provided in Table 6-3 and 6-4 respectively.

In addition (and as can be expected), there are a number of zones in which there is a surficial sediment layer which has soil properties which vary significantly from the underlying layers. To account for this, we have assigned the zone to the categorisation associated with the underlying layer and added an offset value representative of the thickness of the surficial sediment layer. The offset layers are then added onto the calculated anchor penetration depths to give augmented anchor penetration depths for the zone. This is a conservative approach as it assumes the surficial layer provides zero protection. While conservative, this method is justified as there are zones which have surficial sediment layers composed of EXTREMELY LOW STRENGTH SILTS and CLAYS which do not support the shank of an anchor.



			Anchor Penetration by Soil Category										
Band Name	Selected Anchor mass	Theoretical value for 100% anchor penetration	Very Loose Sand	Loose Sand	Medium Dense Sand	Extremely Low Strength Clay (<10 kPa)	Sand and Clay (≥10 to <100 kPa) & Clay (≥10 to <100 kPa)	High Strength Clay (≥100 kPa)					
[-]	[kg]	[m]	[m]	[m]	[m]	[m]	[m]	[m]					
Ref. Anchor (German Bight Trials)	11,500	1.17	1.00	0.79	0.40	3.52	1.17	0.59					
Band A	300	0.35	0.30	0.24	0.12	1.05	0.35	0.18					
Band B	570	0.44	0.38	0.30 0.15		1.33	0.44	0.22					
Band C	1,290	0.57	0.49	0.39	0.20	1.72	0.57	0.29					
Band D	2,460	0.71	0.61	0.48	0.24	2.14	0.71	0.36					
Band E	6,900	1.00	0.85	0.85 0.68		0.34 3.01		0.50					
Band F	10,500	1.03	0.88	0.69	0.35	3.10	1.03	0.52					
Band G	13,500	1.12	0.95	0.75	0.38	3.35	1.12	0.56					
Band H	17,800	1.25	1.06	0.84	0.43	3.75	1.25	0.63					
Band I	20,000	1.28	1.09	0.86	0.44	3.84	1.28	0.64					
Band J	20,000	1.28	1.09	0.86	0.44	3.84	1.28	0.64					
Band K	29,000	1.46	1.24	0.98	0.50	4.37	1.46	0.73					

#### Table 6-3 Anchor Penetration Depths by Soil Category



#### Table 6-4 Anchor Penetration Depths by Soil Category incl. Factor of Safety (FoS)

			Anchor Penetration by Soil Category incl. 20% FoS & Rounded up to nearest 5cm										
Band Name	Selected Anchor mass	Theoretical value for 100% anchor penetration	Very Loose Sand	Loose Sand	Medium Dense Sand	Extremely Low Strength Clay (<10 kPa)	Sand and Clay (≥10 to <100 kPa) & Clay (≥10 to <100 kPa)	High Strength Clay (≥100 kPa)					
[-]	[kg]	[m]	[m]	[m]	[m]	[m]	[m]	[m]					
Ref. Anchor (German Bight Trials)	11,500	1.17	1.20	0.95	0.50	4.25	1.45	0.75					
Band A	300	0.35	0.40	0.30	0.15	1.30	0.45	0.25					
Band B	570	0.44	0.50	0.40	0.20	1.60	0.55	0.30					
Band C	1,290	0.57	0.60	0.50	0.25	2.10	0.70	0.35					
Band D	2,460	0.71	0.75	0.60	0.30	2.60	0.90	0.45					
Band E	6,900	1.00	1.05	0.85	0.45	3.65	1.25	0.65					
Band F	10,500	1.03	1.10	0.85	0.45	3.75	1.25	0.65					
Band G	13,500	1.12	1.15	0.95	0.50	4.05	1.35	0.70					
Band H	17,800	1.25	1.30	1.05	0.55	4.55	1.55	0.80					
Band I	20,000	1.28	1.35	1.05	0.55	4.65	1.55	0.80					
Band J	20,000	1.28	1.35	1.05	0.55	4.65	1.55	0.80					
Band K	29,000	00 1.46		1.20	0.60	5.25	1.75	0.90					

## 6.4 Identification of the acceptable risk

The calculation for probability of a cable strike for the entire cable system is given by:

$$P_{anchor\ damage,total\ system}=\sum\ P_{anchor\ damage\ per\ km}$$

Where:

*P*<sub>anchor damage,total system</sub> = probability of anchor damage for the entire cable route (-/year)

As recommended by the Carbon Trust's guideline (ref 22), Intertek used an iterative approach to identify a burial depth which results in a "target" residual risk to overall cable system.

The iterative step can be described as follows:

- 1. Calculate the value of  $P_{{\mbox{anchor}}\,damage,total\,system}$  for all vessels with a surface-laid cable
- 2. Identify the value of Panchor damage, total system that would be acceptable to the stakeholders
- 3. Goal-seek RMDOL which achieves this tolerable level
- 4. If the RMDOL is considered impractical the acceptable level of risk should be re-considered.

The probabilistic assessment calculates the annual failure probability of 9% for the entire NeuConnect route (based on anchor risk alone) if surface laid. This value equates to a return period of 11 years and a failure probability over the (40 year) lifetime of 97.75%. This is clearly not an acceptable level of risk. **Figure 6.4.1** shows vessel size distribution by DWT. Naturally, vessel densities are overwhelmingly composed of smaller vessels, so risk reduces significantly as DOL increases over and above the penetration depths of anchor sizes associated smaller vessels.

#### 6.4.1 Vessel size distribution



#### 6.4.2 Results for Recommended Minimum DOL

A RMDOL was derived on a zone basis to remove the risk from anchoring from the selected vessel band in order to achieve an overall acceptable risk. The tables below present the RMDOL and associated annual failure probability for the following 6 scenarios:

- 1. Scenario 1: Protection against vessels in Band A
- 2. Scenario 2: Protection against vessels in Bands A to B
- 3. Scenario 3: Protection against vessels in Bands A to C
- 4. Scenario 4: Protection against vessels in Bands A to D
- 5. Scenario 5: Protection against vessels in Bands A to E
- 6. Scenario 6: Protection against vessels in Bands A to F
- 7. Scenario 7: Protection against vessels in Bands A to G
- 8. Scenario 8: Protection against vessels in Band A to H
- 9. Scenario 9: Protection against vessels in Bands A to I
- 10. Scenario 10: Protection against vessels in Bands A to J
- 11. Scenario 11: Protection against vessels in Bands A to K
- 12. Scenario 12: Selected Protection Section by Section (RMDOL)

Anchoring risk exceeds fishing risk in in all zones of the route and thus determines RMDOL (except for zones in Germany where the legislative DOL requirements exceed the minimum DOL calculated by the probabilistic assessment). RMDOL has been selected for each individual zone in order that the overall risk to the cable over the project lifetime is reduced to ALARP. RMODOL varies from 0.55-2.00m along the length of the route.

The full results of the above assessment by zone are provided in **Appendix E**<sup>4</sup>. As can be seen if RMDOL is achieved during installation (and maintained throughout the project life) then the NeuConnect cable would have an annual failure probability of 9.00E-04. This equates to a return period of 1111.27 years and a failure probability over the (40 year) lifetime of 3.54%.

#### 6.4.3 Results for Target DoL

TDOL is determined as what can reasonably be added to RMDOL without incurring a step change in costs and which represents a practical target for burial tools on the market.

TDOL has been set at 1.5m for the vast majority of the route and varies up to a maximum TDOL of 2m in some zones due either to anchor risk or legislative requirements. The DOL specification by cable route zone are provided in **Appendix E**. As can be seen if TDOL is achieved during installation (and maintained throughout the project life) then the NeuConnect cable would have an annual failure probability of 5.37E-04. This equates to a return period of 1863.84 years and a failure probability over the (40 year) lifetime of 2.12%

<sup>&</sup>lt;sup>4</sup> Note, the failure probability is as calculated for identified hazards only and is based on the assumptions detailed in this report. It does not account for manufacturing defects or latent damage to the asset incurred during installation. Furthermore, the values provided are predicated on DOL being maintained throughout the lifetime of the asset. A robust condition survey regime is required during the asset's operational lifetime to ensure protection levels remain sufficient.



# 7. CBRA ASSESSMENT

	Zo	nes		Wate	r Depth (m belo	w LAT)			Geoph	ysical/Geotechnical Data					Shipping Data	(Anchoring Assessment)	Recommended DoL for	F	shing Data ecommended DoL for Protection	Territorial minimum DoL	Recommended Minimum Depth	Target Depth of Lowering (m)
No.	Start KP	End KP	Length (km)	MAX	MIN	Mean	Survey Block	Dominant Sediment Type	applicable)	where applicable)	Mobile Features (where applicable)	Categorisation for Anchor Penetration Calculation	Offset (m)	Risk from Anchoring?	Shipping Buffer Size (m)	Observation (WD)	Protection against Anchor Strike (m)	Presence of Fishing a	gainst Fishing Gear (including 20% Factor of Safety) (m)	Requirement (m)	of Lowering (m)	ranger bepen of contening (iii)
1	0.000	9.214	9.214	-8.680	12.130	-4.230	Block 01	Very Low Strength Clay with Extremely Low Veneer (0.4m)		Extremely Low to Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.4	Yes	100	0m to 30m (Under Pilotage)	1.30	Yes	0.36	N/A	1.30	1.70
2	9.214	14.300	5.086	-13.950	-8.080	-10.440	Block 01	Low Strength Clay with Veneer of Extremely Low Strength Clay (0.5m)		Low	Ripples	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.5	Yes	250	Om to 30m (Under Pilotage)	1.85	Yes	0.36	N/A	1.85	2.00
3	14.300	29.999	15.699	-19.940	-13.890	-17.981	Block 01	Low Strength Clay/Loose Sand	Loose Medium Dense	Low	Ripples	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.15	Yes	2000	0m to 30m	1.55	Yes	0.36	N/A	1.55	1.70
5	37.066	39.997	2.931	-16.650	-12.180	-15.196	Block 01	Loose Sand	Loose		Ripples	LOOSE SAND	0.15	Yes	2000	0m to 30m	1.05	Yes	0.36	N/A	1.05	1.50
6	39.997	43.998	4.001	-18.920	-11.750	-15.360	Block 01	Medium Dense Sand	Medium Dense		Ripples	MEDIUM DENSE SAND	0.15	Yes	2000	0m to 30m	0.70	Yes	0.36	N/A	0.70	1.50
7	43.998	50.972	6.974	-26.590	-15.310	-20.174	Block 01 - 02	Loose Sand	Loose		Ripples	LOOSE SAND		Yes	2000	0m to 30m	1.05	Yes	0.36	N/A	1.05	1.50
8	50.972	57.239	6.267	-22.300	-16.410	-19.348	Block 02	Dense Sand	Dense		Ripples	MEDIUM DENSE SAND	0.15	Yes	2000	0m to 30m	0.70	Yes	0.36	N/A	0.70	1.50
9	57.239	60.969	3.730	-20.650	-15.740	-19.055	Block 02	Loose Sand	Loose		Ripples	LOOSE SAND	0.15	Yes	2000	0m to 30m	1.05	Yes	0.36	N/A	1.05	1.50
10	64.970	70.969	5.999	-19.290	-14.050	-17.151	Block 02	Dense Sand	Dense		Ripples	MEDIUM DENSE SAND	0.15	Yes	2000	0m to 30m	0.70	Yes	0.36	N/A	0.70	1.50
12	70.969	75.968	4.999	-19.330	-16.160	-17.280	Block 02	High Strength Clay		High to Very High		HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
13	75.968	76.963	0.995	-18.460	-15.910	-17.055	Block 02	Sand	No Information		Ripples	VERY LOOSE SAND		Yes	2000	0m to 30m	1.15	Yes	0.36	N/A	1.15	1.50
14	76.963	77.803	0.840	-21.400	-16.350	-18.676	Block 02	Very Low Strength Clay		Very Low	Ripples	SAND and CLAY (>10 to <100 kPa) & CLAY (>10 to <100 kPa)		Yes	2000	0m to 30m	1.25	Yes	0.36	N/A	1.25	1.50
15	77.803	79.095	1.292	-20.370	-12.280	-18.037	Block 02 Block 02	Sand	No Information		Ripples	VERY LOOSE SAND	0.15	Yes	2000	0m to 30m	1.15	Yes	0.36	N/A	1.15	1.50
10	83.069	85.595	2.526	-31.360	-24.170	-28.730	Block 02	High Strength Clay	bena	Very High	hipped a Jana Waves	HIGH STRENGTH CLAY (>100 kPa)	0.15	Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
18	85.595	88.550	2.955	-39.990	-28.720	-34.093	Block 02	High Strength Clay		Very High	Ripples	HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
19	88.550	90.796	2.246	-31.530	-23.060	-26.403	Block 02	High Strength Clay		Very High	Ripples	HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
20	90.796	93.322	2.526	-42.650	-28.830	-37.800	Block 02	High Strength Clay		Very High	Ripples	HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
21	93.322	101.884	8.562	-28.850	-25.100	-27.109	Block 02 - 03 Block 03	High Strength Clay		Very High	Ripples Ripples & Sand Waves	HIGH STRENGTH CLAY (>100 kPa)		Yes	2000	Om to 30m	0.80	Yes	0.36	N/A	0.80	1.50
23	113.069	115.299	2.230	-33.350	-21.690	-29.116	Block 03	Medium Dense Sand	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.15	Yes	2000	Om to 30m	0.70	Yes	0.36	N/A	0.70	1.50
24	115.299	119.533	4.234	-39.430	-28.950	-33.404	Block 03	High Strength Clay		Very High	Ripples	HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	30m to 50m	0.80	Yes	0.36	N/A	0.80	1.50
25	119.533	127.273	7.740	-45.930	-34.610	-38.861	Block 03	High Strength Clay		Very High	Ripples & Megaripples	HIGH STRENGTH CLAY (≥100 kPa)		Yes	2000	30m to 50m	0.70	Yes	0.36	N/A	0.70	1.50
26	127.273	134.000	6.727	-52.470	-37.660	-45.623	Block 03	Dense Sand with Loose Sand Veneer (0.3m)	Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.85	Yes	0.36	N/A	0.85	1.50
27	134.000	154.341	5./16	-03.470	-45.010	-34.392	Block 03	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Tes Yes	2000	30m to 50m	0.80	Yes	0.36	N/A	0.85	1.50
29	154.341	181.674	27.333	-48.610	-34.620	-42.603	Block 03 - 04	Dense Sand with Loose Sand Veneer (0.3m)	Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.85	Yes	0.36	N/A	0.85	1.50
30	181.674	182.027	0.353	-46.160	-40.090	-44.432	Block 04	Very Loose Sand over Medium Clay	Very Loose	Medium	Ripples, Megaripples & Sand Waves	VERY LODSE SAND		Yes	2000	30m to 50m	1.05	Yes	0.36	N/A	1.05	1.50
31	182.027	197.298	15.271	-50.410	-37.050	-44.376	Block 04	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.85	Yes	0.36	N/A	0.85	1.50
32	197.298	205.967	8.669	-57.880	-46.310	-52.575	Block 04 - 05	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	50m to 75m	0.80	Yes	0.36	N/A	0.80	1.50
33	205.967	209.792	3.825	-47.950	-37.890	-41.924	Block 05	Webium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Tes Yes	2000	30m to 50m	0.85	Yes	0.36	N/A	0.85	1.50
35	224.069	226.072	2.003	-40.830	-36.380	-38.911	Block 05	Medium Strength Clay		Medium to high	Ripples, Megaripples & Sand Waves	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)		Yes	2000	30m to 50m	1.25	Yes	0.36	N/A	1.25	1.50
36	226.072	232.074	6.002	-37.350	-25.610	-33.242	Block 05	Dense Sand with Loose Sand Veneer (0.3m)	Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.80	Yes	0.36	N/A	0.80	1.50
37	232.074	242.071	9.997	-40.790	-32.680	-38.411	Block 05	Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	Medium Dense	High to Very High	Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.80	Yes	0.36	N/A	0.80	1.50
38	242.071	246.290	4.219	-37.810	-29.430	-34.603	Block 05	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.80	Yes	0.36	N/A	0.80	1.50
40	249.628	258.602	8.974	-39.300	-28.710	-36.749	Block 05 - 06	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	Om to 30m	0.80	Yes	0.36	N/A	0.80	1.50
41	258.602	266.887	8.285	-30.630	-24.870	-28.716	Block 06	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	0m to 30m	0.80	Yes	0.36	N/A	0.80	1.50
42	266.887	283.528	16.641	-33.150	-28.410	-31.378	Block 06	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.75	Yes	0.36	N/A	0.75	1.50
43	283.528	325.070	41.542	-29.840	-25.110	-27.333	Block 06 - 07	Medium Dense Sand with Loose Sand Veneer (0.3m)	Medium Dense		Ripples, Megaripples & Sand Waves	MEDIUM DENSE SAND	0.3	Yes	2000	0m to 30m	0.75	Yes	0.36	N/A	0.75	1.50
44	325.070	328.070	3.000	-29.220	-28.060	-28.522	Block 07 Block 07	Very Loose Sand	Very Loose	Verviow		VERY LOOSE SAND SAND and CLAY (>10 to <100 kPa) & CLAY (>10 to <100 kPa)	03	Yes	2000	0m to 30m	0.75	Yes	0.36	N/A	0.75	1.50
45	335.083	341.250	6.167	-31.630	-31.270	-31.362	Block 07	Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.3m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.3	Yes	2000	30m to 50m	1.55	Yes	0.36	N/A	1.55	1.70
47	341.250	352.068	10.818	-34.730	-31.560	-33.176	Block 07 - 08	Very Low with Extremely Low Veneer (0.4m)		Very Low		SAND and CLAY (>10 to <100 kPa) & CLAY (>10 to <100 kPa)	0.4	Yes	2000	30m to 50m	0.95	Yes	0.36	N/A	0.95	1.50
48	352.068	355.069	3.001	-35.560	-34.710	-35.150	Block 08	Very Low with Extremely Low Veneer (0.4m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.4	Yes	2000	30m to 50m	0.95	Yes	0.36	N/A	0.95	1.50
49	355.069	360.070	5.001	-36.890	-35.530	-36.283	Block 08	Very Low with Extremely Low Veneer (0.5m)		Very Low		SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.5	Yes	2000	30m to 50m	1.05	Yes	0.36	N/A	1.05	1.50
50	360.070	362.055	2.015	-37.210	-36.850	-37.048	Block 08 Block 08	Very Low Strength Silty Sand/Clay Very Low with Extremely Low Veneer (0.4m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa) SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.4	Yes	2000	30m to 50m	0.55	Yes	0.36	N/A N/A	0.55	1.50
52	364.070	366.069	1.999	-37.770	-37.510	-37.649	Block 08	Very Low Strength Clay		Very Low		SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)		Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
53	366.069	368.072	2.003	-38.050	-37.720	-37.894	Block 08	Very Low with Extremely Low Veneer (0.4m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.4	Yes	2000	30m to 50m	0.95	Yes	0.36	N/A	0.95	1.50
54	368.072	370.070	1.998	-38.210	-38.010	-38.112	Block 08	Very Low Strength Clay		Very Low		SAND and CLAY (>10 to <100 kPa) & CLAY (>10 to <100 kPa)		Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
55	370.070	374.369 382.070	4.299	-38.310 -38.280	-38.110	-38.210	Block 08 Block 08	Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.6m)		Very Low Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa) SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.4	Yes	2000	30m to 50m 30m to 50m	0.95	Yes	0.36	N/A N/A	0.95	1.50
57	382.070	388.068	5.998	-37.480	-36.750	-36.975	Block 08	Very Low Strength Clay		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
58	388.068	390.070	2.002	-36.910	-36.770	-36.824	Block 08	Very Low with Extremely Low Veneer (0.5m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.5	Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
59	390.070	401.070	11.000	-36.950	-36.760	-36.852	Block 08 - 09	Very Low Strength Clay		Very Low		SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)		Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
60	401.070	407.069	5.999	-36.960	-36.730	-36.833	Block 09	Very Loose Silty Sand		Manu Lour-		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.6	Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
62	416.243	420.912	4.669	-36.790	-36.590	-36.705	Block 09	Very Low Will Externey Low Veneer (U.Bm)		Very Low Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa) SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.0	Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
63	420.912	426.983	6.071	-36.640	-36.290	-36.444	Block 09	Very Low Strength Clay/Sandy Clay		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	1.25	Yes	0.36	N/A	1.25	1.50
64	426.983	430.070	3.087	-36.350	-36.120	-36.211	Block 09	Very Low Strength Clay/Sandy Clay		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	0.55	Yes	0.36	N/A	0.55	1.50
65	430.070	434.707	4.637	-36.290	-35.930	-36.117	Block 09	Very Low with Extremely Low Veneer (0.5m)		Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.5	Yes	2000	30m to 50m	1.40	Yes	0.36	N/A	1.40	1.50
67	434.707 441.019	441.019	6.312	-35.980	-35.150	-35.640	Block 09 - 10	very Low Strength Clay/Sandy Clay Very Loose Clayey Sand	Loose	Very Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa) SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	0.90	Yes	0.36	N/A N/A	0.90	1.50
68	445.241	452.104	6.863	-35.460	-34.860	-35.154	Block 10	Loose Sand	Loose			LOOSE SAND		Yes	2000	30m to 50m	0.60	Yes	0.36	N/A	0.60	1.50
69	452.104	455.478	3.374	-35.980	-35.200	-35.467	Block 10	Low Strength Sandy Clay		Low		SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)		Yes	2000	30m to 50m	0.70	Yes	0.36	N/A	0.70	1.50
70	455.478	459.173	3.695	-36.630	-35.950	-36.273	Block 10	Very Loose Sand	Very Loose			VERY LOOSE SAND		Yes	2000	30m to 50m	0.60	Yes	0.36	N/A	0.60	1.50
71	459.173	466.173	7.000	-37.260	-36.580	-37.000	Block 10	Very Low Strength Sandy Clay with Extremely Low Veneer (0.5m)	Very Loos =	Extremely Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	1.05	Yes	0.36	N/A	1.05	1.70
72	481.845	490.175	8.330	-38.270	-37.210	-37.520	Block 10	Very Loose Silty Sand	very Louse	Extremely Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	30m to 50m	0.75	Yes	0.36	N/A	0.75	1.50
74	490.175	508.853	18.678	-37.130	-34.850	-36.278	Block 10 - 11	Very Loose Sand	Very Loose			VERY LOOSE SAND		Yes	2000	30m to 50m	0.75	Yes	0.36	N/A	0.75	1.50
75	508.853	524.365	15.512	-35.230	-32.060	-33.350	Block 11 - 12	Dense Sand with Loose Sand Veneer (0.3m)	Dense			MEDIUM DENSE SAND	0.3	Yes	2000	30m to 50m	0.60	Yes	0.36	N/A	0.60	1.50
76	524.365	542.366	18.001	-32.820	-30.860	-31.764	Block 12	Medium Dense Sand with Loose Sand Veneer (0.2m)	Medium Dense			MEDIUM DENSE SAND	0.2	Yes	2000	30m to 50m	0.65	Yes	0.36	1.50	1.50	1.50
77	542.366 573.365	573.365 580.490	30.999	-33.920	-31.820	-33.238	Block 12 - 13 Block 13	Loose Sand Very Loose Sand	Loose Very Loose			LODSE SAND VERY LODSE SAND		Yes	2000	30m to 50m 30m to 50m	0.60	Yes	0.36	1.50	1.50	1.50
79	580.490	591.364	10.874	-33.830	-32.990	-33.370	Block 13	Medium Dense Sand with Loose Sand Veneer (1.0m)	Medium Dense			MEDIUM DENSE SAND	0.15	Yes	2000	30m to 50m	0.45	Yes	0.36	1.50	1.50	1.50
80	591.364	595.367	4.003	-33.900	-33.360	-33.698	Block 13	Loose Sand with Very Loose Sand Veneer (1.0m)	Loose			LOOSE SAND		Yes	2000	30m to 50m	0.60	Yes	0.36	1.50	1.50	1.50
81	595.367	604.365	8.998	-33.400	-28.450	-31.315	Block 13	Loose Sand	Loose			LOOSE SAND		Yes	2000	30m to 50m	0.85	Yes	0.36	1.50	1.50	1.50
82	604.365	614.831	10.466	-28.470	-21.610	-25.515	Block 13	Medium Dense Sand with Loose Sand Veneer (0.15m)	Medium Dense		Display	MEDIUM DENSE SAND	0.15	Yes	2000	Om to 30m	0.75	Yes	0.36	2.00	2.00	2.00
84	629.440	632.364	2.924	-23.310	-20.080	-21.413	Block 14	Medium Strength Clay with Low Strength Veneer (0.2m)	weurum bense	Medium	nipus -	SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)	0.15	Yes	2000	Om to 30m	1.35	Yes	0.36	1.50	1.50	1.50
85	632.364	645.366	13.002	-24.780	-17.780	-20.279	Block 14	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	Medium Dense		Ripples	MEDIUM DENSE SAND	0.15	Yes	2000	0m to 30m	0.70	Yes	0.36	1.50	1.50	1.50
86	645.366	647.396	2.030	-19.500	-19.220	-19.349	Block 14	Low Strength Clay with Medium Dense Sand Veneer (0.4m)		Low		SAND and CLAY (210 to <100 kPa) & CLAY (210 to <100 kPa)		Yes	2000	0m to 30m	1.55	Yes	0.36	1.50	1.50	1.50
87	647.396	649.365	1.969	-19.270	-18.610	-18.937	Block 14	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	Medium Dense			MEDIUM DENSE SAND	0.15	Yes	2000	0m to 30m	0.70	Yes	0.36	1.50	1.50	1.50
88	649.365	700.718	51.353	-21.130	10.190	-9.589	Block 15	N/A	N/A	N/A	кıpples, Megaripples & Sand Waves	N/A		N/A	N/A	N/A	TBC	Yes	0.36	TBC	TBC	TBC

# 8. CONCLUSION AND RECOMMENDATIONS

The cable burial risk assessment has shown that the following hazards are present along the NeuConnect cable route. The main areas of concern are explained below:

#### **Sediment Mobility**

Sediment mobility in itself does not pose a threat to a submarine cable but it can lead to issues with the thermal conductivity of cables (over burial), and exposure of cables (scour); burial under excess sand can change the thermal properties of the soil and cause hotspots along the cable, while exposure increases the risk of damage due to external aggressors such as trawling and anchoring and potentially mechanical damage from free spans.

There are a number of areas within the NeuConnect 500m corridor where there are bedforms present which could be mobile.

The first indication of mobile bedforms can be observed at KP11. These have been interpreted by the route survey contractor, MMT, as ripples and have a wave length of <15m and height <1.0 m. Ripples are observed intermittently throughout the route where they terminate at KP304 and do not appear again until KP620 from which they then extend to the end of the route at KP700. While these may indicate some levels of sediment movement it is not thought that these minor bedforms will have an impact on the cable installation or operability.

Mega Ripples are also observed intermittently throughout the corridor, between KP108 & KP190 and then between KP669 and KP700. These are slightly larger than ripples and have a wave length of 15-50m and height 1-3m so may pose a risk to an installed cable within its lifetime.

Sandwaves present within the route corridor and are first observed between KP78 and KP 80. These have been interpreted by MMT to have a wave length 50-200m and height of >3 m. Sandwaves are next present at KP 106 and remain as intermittent features until KP294. They do not appear again until between KP673 and KP700.

For the purposes of burial targets (RMDOL & TDOL) all depths are to be measured against trough depth and after any required route engineering has been undertaken to flatten mobile sediments.

#### **Fishing Risk**

The entire route is within water depth range in which mobile gear fishing could take place, thus we recommend the cable is given sufficient protection from potential fishing gear interaction along the entire route.

The Carbon Trust' guidance (ref 12) indicates that penetration of fishing gear into the seabed is limited to a maximum of 0.3 m penetration even in soft sediment based on previous literature research. Adding a 20% Factor of Safety (FoS) to account for measurement errors and deformation of soil beneath fishing gear gives a RMDOL of 0.36m for fishing risk alone.

In practice a DOL < 0.5m is not advisable due to the instability of some trenching tools at these depths. Therefore, TDOL would be >0.5m if based on fishing risk only.

#### **Anchoring Risk**

Vessel Automatic Identification System (AIS) data has been used to determine the size and quantity of vessels which operate in the vicinity of the cable route. Vessels are grouped into size categories based on their deadweight tonnage (DWT) from Band A (0-100 DWT) to Band K (325K-460K DWT) and an appropriate associated anchor size is assigned to each band. Analysis of this data determines the probability of anchor-cable interactions for each vessel banding and thus the size of anchor which must be protected against in order to reduce risk to the cable to ALARP.

Assessment of the anchor risk strike for a surface laid cable demonstrated an unacceptable level of risk to the cable (failure probability of 97.75% over the lifetime of the cable) and thus there is a requirement to protect the cable against anchors interaction.

Anchoring risk exceeds fishing risk in in all zones of the route and thus determines RMDOL (except for zones in Germany where the legislative DOL requirements exceed the minimum DOL calculated by the probabilistic assessment). DOL has been calculated for protection against the anchor size associated with each vessel band in each cable route zone. Following this, the RMDOL has been selected for each individual zone in order that the overall risk to the cable over the project lifetime is reduced to ALARP. This varies from 0.55-2.00m. The full results by zone are provided in **Appendix E**. As can be seen if RMDOL is achieved during installation (and maintained throughout the project life) then the NeuConnect cable would have an annual failure probability of 9.00E-04. This equates to a return period of 1111.27 years and a failure probability over the (40 year) lifetime of 3.54%.

#### **Conclusions and recommendations**

TDOL is determined as what can reasonably be added to RMDOL without incurring a step change in costs and which represents a practical target for burial tools on the market.

TDOL has been set at 1.5m for the vast majority of the route and varies up to a maximum TDOL of 2m in some zones due either to anchor risk or legislative requirements. The DOL specification by cable route zone are provided in **Appendix E**. As can be seen if TDOL is achieved during installation (and maintained throughout the project life) then the NeuConnect cable would have an annual failure probability of 5.37E-04. This equates to a return period of 1863.84 years and a failure probability over the (40 year) lifetime of 2.12%.

# REFERENCES

1 MMT Survey Data: Bathymetry

2 BSH Aurfmod Bathymetry

3 EMODNet (200m resolution), http://portal.emodnetbathymetry.eu/

4 AIS data. Oceaneering

5 MMT Survey Data: Contacts

6 MMT Survey Data: Seabed Sediments

7 MMT Survey Data: Geology

8 MMT Geotechnical Samples

9 MMT Geotechnical Report and VC & CPT logs, 102553-NEU-MMT-SUR-REP-GEOTECH-02

**10** MMT Geophysical Report and Survey Results, *102553-NEU-MMT-SUR-REP-OPERFR-02* 

11 Admiralty charts,

http://wmsgateway.findmaps.co.uk/wms/IntertecMe tocCharts?

12 Risk assessment of pipeline protection, DNV\_RP\_F107

**13** Guidance for the Preparation of Cable Burial Depth of Lowering Specification, Carbon Trust CTC835

14 Anchor Tests German Bight, Deltares

15 Vessel DWT, https://www.marinetraffic.com/

16 Anchor catalogue, http://www.sotra.net/catalogue/2016/index.html

17 Marine & Coastguard Agency, DNV 2005

**18** MMT Crossing Survey report, *102553-NEU-MMT-SUR-REP-CROSSRE-02* 



# **APPENDIX A**

**Seabed Sediments** 



Seabed Index Scale (SI)	Typical Seabed Sediment	Zone Comments/Assumptions	Route KP Location Type	Seabed Index at	1.5m		Top Layer				Layer 2				Layer 3
1	Shallow Bedrock (<1.00m) Bedrock / Obstruction (>1.00m)	1 Very low Strength Clay with Extremely Low Veneer (0.4m)	2 285 VC-801-002 VC	8	Top Layer Thickness (m)	Top Layer Description	Top Lay Relative density Description	Top Layer Shear Strength Description	Layer 2 Thickness (m)	Layer 2 Desription	Layer 2 relative density Decription	Layer 2 Shear Strength Description	Layer 3 Thickness (m)	Layer 3 Desription	Layer 3 relative density Layer 3 Shear Strength Decription Description
3	Very dense granular, very to extremely high strength cohesive Medium to high strength cohesive	Very Low Strength Clay with Extremely Low Veneer (0.4m)     Very Low Strength Clay with Extremely Low Veneer (0.4m)	2.287 CPT-B01-002 CPT 3.157 VC-B01-003 VC	8	0.72	Clay Clay		Extremely Low Low	4.18	Silty Sand Silty Sand	Medium Dense to Dense		0.17	Clay	
5 6	Dense granular Medium dense granular	Very Low Strength Clay with Extremely Low Veneer (0.4m)     Very Low Strength Clay with Extremely Low Veneer (0.4m)     Venue Construction of the Clay with Extremely Low Veneer (0.4m)	3.999 VC-B01-004 VC 4.001 CPT-B01-004 CPT	8	0.55	Sand Silty Sand	Very Loose to Loose		0.98	Clay Clay		Low	1.9 3.02	Sand Sand	Medium Dense to Dense
8	Loose granular, low to medium strength conesive Very loose granular, low strength cohesive Very low strength sandy cohesive	Very Low Strength Clay with Extremely Low Veneer (0.4m)     Very Low Strength Clay with Extremely Low Veneer (0.4m)     Very Low Strength Clay with Extremely Low Veneer (0.4m)	5.052 VC-801-005 VC 6.006 VC-801-006 VC 6.008 CPT-801-006 CPT	9 9	0.2	Sand Sand	Very Loose to Loose		2.2	Clay Clay Clay		Very Low Extremely Low	1.78	Sand with thin bands of Clay Sand with thin bands of Clay	/ Very Loose to Loose
10	Extremely low strength cohesive	Very Low Strength Clay with Extremely Low Veneer (0.4m)     Low Strength Clay	7 VC-B01-007 VC 9.262 VC-B01-009 VC	8	3.49 San 0.67 San	nd with thin bands of Clay nd with thin bands of Clay		Extremely Low	0.53	Clay			2	Sand with thin bands of Clay	1
Descriptive term extremely low	Shear strength rang (kPa) <10	Low Strength Clay     Low Strength Clay     Low Strength Clay	9.834 VC-B01-010A VC 9.834 CPT-B01-010 CPT	8	0.29	Clay Clay		Low Extremely Low	2.2 4.74	Sand with thin bands of Clay Sand with thin bands of Clay	Medium Dense to Dense				
low medium	20 to 40 40 to 75	Low Strength Clay     Low Strength Clay     Low Strength Clay	11.011 VC-801-011A VC 12.049 VC-801-012A VC 12.049 CPT-801-012 CPT	<u> </u>	4.18 San 1.95 2.68	Clay Clay		Extremely low to Low Low (Extremely low veneer 0.5m)	0.32	Sand with thin bands of Clay Sand	Medium Dense to Dense		2.3	Sand	
high very high	75 to 150 150 to 300	Low Strength Clay     Low Strength Clay/Loose Sand	13.088 VC-B01-013 VC 14.3 CPT-B01-014 CPT	9 9	3.2 0.18	Clay Gravel	Very Loose	Low	0.68	Silt Clay		Very Low Very Low to High	2.4 0.86	Sand Sand	Medium Dense to Dense
Descriptive term	Cone resistance range (Relative density) Mpa	Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand	14.301 VC-B01-014 VC 15.059 VC-B01-015 VC	9 7 7	0.28	Gravel Clay	Medium Dense	Medium	1.52 2.7	Clay Sand		Very Low	1.9	Sand	Loose to Medium Dense
loose medium dense	2.5 to 5 5 to 10	2     100 Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand	15.828 VC-B01-016 VC 15.83 CPT-B01-016 CPT 16.97 VC-B01-017 VC	7	4 2.44 0.6	Clay Clay Silt		Low Low Very Low	0.66	Sand	Medium Dense	-	2.16	Clay Silt	Low
dense very dense	10 to 20 >20	Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand	17.975 VC-B01-018 VC 17.976 CPT-B01-018 CPT	8	0.88 0.92	Clay Clay		Low Low to Medium	2 2.4	Sand Sand	Medium Dense to Dense		1.64 1.84	Clay Clay	Medium
		Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand	20.001 CPT-B01-020 CPT 20.002 VC-B01-020 VC 20.651 VC R01.021 VC	8	4.66 3.98 San	Sand nd with thin bands of Clay	Loose to Medium Dense		0.26 0.27	Clay Clay		Medium Medium	0.3	Sand	Medium Dense
		2     2     2     Cow Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand     2	21.96 VC-B01-022 VC 21.96 CPT-B01-022 CPT	8	4.3 4.3 5.3 Sar	Sand nd with thin bands of Clay	Very Loose to Loose								
		Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand     Development Clay/Loose Sand	23.104 VC-B01-023 VC 23.816 VC-B01-024 VC	8	4.87 Sar 4.95 Sar	nd with thin bands of Clay nd with thin bands of Clay									
		2     Low Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand	23.817 CP1-B01-024 CP1 25.3 VC-B01-025 VC 26.032 CPT-B01-026 CPT	8	0.53 0.64	Clay Sandy Clay	Loose to Medium Dense	Very Low Extremely Low	1.09	Sand with thin bands of Clay Sand with thin bands of Clay	Loose		3.13 1.72	Clay Clav	Low to Medium
		Low Strength Clay/Loose Sand     Low Strength Clay/Loose Sand	26.033 VC-B01-026 VC 27 VC-B01-027 VC	8	1.45 2.68	Sandy Clay Sand		Very Low	2.65 1.94	Clay Clay		Very Low Medium			
		2     Low Strength Clay/Loose Sand     2     Low Strength Clay/Loose Sand     Dow Strength Clay/Loose Sand     Dow Strength Clay/Loose Sand	27.998 VC-B01-028 VC 28.003 CPT-B01-028 CPT 29 VC-B01-029 VC	8	4.5 3.36 San 3.9 San	Sand nd with thin bands of Clay ad with thin bands of Clay	Loose to Medium Dense	Verv I ow	1.82	Sand with thin bands of Clay	Very Loose to Loose				
		2 Low Strength Clay/Loose Sand 2 Low Strength Clay/Loose Sand	29.998 CPT-B01-030 CPT 29.999 VC-B01-030 VC	7 7	0.34 0.75	Sand Clay			1.5 2.75	Clay Sand		Medium	2.46	Sand	Loose to Medium Dense
		3         Medium Dense Sand           3         Medium Dense Sand           3         Medium Dense Sand	31.001 VC-801-031 VC 31.603 CPT-801-032 CPT 31.606 VC-801-0324 VC	4	1.04 0.48	Sand Sand	Medium Dense		2.63 4.88	Clay Gravelly Clay		Medium Medium to High			
		3         Medium Dense Sand           3         Medium Dense Sand	33         VC-B01-032A         VC           33         VC-B01-033         VC           33.969         VC-B01-034         VC	5 6 8	3.41 3.31	Sand Sand		Very Low							<u> </u>
		3 Medium Dense Sand 3 Medium Dense Sand	33.971 CPT-801-034 CPT 34.999 VC-801-035 VC	8 8	1.06	Sand Sand	Medium Dense to Dense		2.6	Silt	Loose		0.54	Clay	Low
		s         Medium Dense Sand           3         Medium Dense Sand           3         Medium Dense Sand	35.998 VC-B01-036A VC 36.001 CPT-B01-036 CPT 37.066 VC-B01-037A VC	6 6 6	4.11 5.1 3.88	Sand Sand Sand	Dense to Very Dense								+
		4 Loose Sand 4 Loose Sand	38.135 CPT-B01-038 CPT 38.136 VC-B01-038 VC	8	2.16 San 1.55	nd with thin bands of Clay Sand	Loose to Medium Dense		2.96 0.23	Sand Clay	Medium Dense to Dense		1.85	Sand	
		4 Loose Sand 5 Medium Dense Sand	39 VC-B01-039 VC 39.997 CPT-B01-040 CPT	8	6 San 2.78	nd with thin bands of Clay Sand	Medium Dense to Dense	Very Low	2.2	Clay		Low to Medium			
		5 Medium Dense Sand 5 Medium Dense Sand 5 Medium Dense Sand	40 VC-B01-040 VC 41 VC-B01-041A VC 41.834 CPT-B01-042 CPT	8	4.9 0.69 2.54	Sand Gravelly Sand	Medium Dense		1.16	Gravelly Clay			2.23	Clay	
		5         Medium Dense Sand           5         Medium Dense Sand	41.837 VC-B01-042 VC 41.843 CPT-B01-042A CPT	8	6 C	Coarse Sand and Gravel Sand	Medium Dense to Dense		3.88	Sand with thin bands of Clay	Loose to Medium Dense				
		5         Medium Dense Sand           5         Medium Dense Sand           6         Learer Sand	42.999 VC-B01-043 VC 43.998 VC-B01-044 VC 43.000 CDT B01-044 CDT	8	2.97 6	Sand Sand	Locco to Madium Donco		0.36	Clay	Depre to Very Depre	Very Low	2.24	Sand	
		6         Loose Sand           6         Loose Sand	45.001 VC-B01-045 VC 45.999 VC-B01-046 VC	8	5.33	Sand Sand	Loose to Medium Dense		2.08	Janu	Delise to very Delise				
		6 Loose Sand 6 Loose Sand	46 CPT-801-046 CPT 46.999 VC-801-047 VC	7 7	5.14	Sand Sand	Medium Dense to Dense								
		6 Loose Sand 6 Loose Sand 6 Loose Sand	48.002 CPT-B01-048 CPT 48.999 VC-B01-049 VC	7 7 7 7	1.06	Sand Sand Sand	Very Loose to Medium Dense		4.06	Sand	Dense to Very Dense				
		6 Loose Sand 6 Loose Sand	49.969 VC-802-050 VC 50.97 VC-802-051 VC	7 7	4.88	Sand Sand									
		7 Dense Sand 7 Dense Sand 7 Dense Sand	50.972 CPT-B02-051 CPT 51.97 VC-B02-052 VC 52.968 VC-B02-053 VC	7 7 7 7 7	5.16 4 4.18	Sand Sand Sand	Dense to Very Dense								
		7 Dense Sand 7 Dense Sand	52.969 CPT-802-053 CPT 53.968 VC-802-054 VC	7 7	5.04 4.72	Sand Sand	Dense to Very Dense		1.11	Clay		Very High			
		7         Dense Sand           7         Dense Sand           7         Dense Sand	54.969 CPT-B02-055 CPT 54.973 VC-B02-055B VC 55.071 VC-B02-056 VC	7 7 7 7	5.14 5.41	Sand Sand	Dense to Very Dense								
		7 Dense Sand 7 Dense Sand 8 Loose Sand	57.235 VC-B02-057 VC 57.239 CPT-B02-057 CPT	7 7 7 7	3.33 0.62	Sand Sand Sand	Very Loose to Medium Dense		4.54	Sand	Medium Dense to Very Dense				
		8         Loose Sand           8         Loose Sand           0         Loose Sand	57.968 VC-802-058 VC 58.969 VC-802-059 VC	7	4.46 5.97	Sand Sand	Marci ann às Danas		4.00	freed	Danas ta Mari Danas				
		8         Loose Sand           9         Medium Dense Sand	60.128 VC-B02-060 VC 60.969 CPT-B02-061 CPT	7 4	3.24	Sand Sand Sand	Dense to Very Dense		4.80	Clay	Delise to very Delise	Low Low to Medium			
		9 Medium Dense Sand 9 Medium Dense Sand	60.97 VC-B02-061B VC 61.967 VC-B02-062B VC	7 7	2.18	Sand			0.5 3.06	Clay Gravelly Clay		Medium			
		9     Medium Dense Sand     9     Medium Dense Sand     9     Medium Dense Sand	63.061 CPT-B02-063 CPT 63.066 VC-B02-063B VC 63.971 VC-B02-064 VC	7 7 7 7 7	1.8 2.74 4.64	Sand Sand Sand	Medium to Dense		1.4	Clay Clay		Medium to High			
		9         Medium Dense Sand           10         Dense Sand	64.97 VC-802-065 VC 64.97 CPT-802-065 CPT	7 7	2.82 2.82	Sand Sand	Dense to Very Dense		0.52 2.36	Clay Clay		Medium High to Very High			
		10         Dense Sand           10         Dense Sand           10         Dense Sand	b5.973 VC-B02-066A VC 66.97 CPT-B02-067 CPT 66.971 VC-B02-067 VC	7	3 3.8 3.46	Sand Sand Sand	Dense to Very Dense		1.4	Clay		Medium			+
		Dense Sand           10         Dense Sand           10         Dense Sand	67.874 VC-802-069 VC 68.969 CPT-802-069 CPT	5	3.40	Sand	Very Dense								
		10 Dense Sand 10 Dense Sand	68.972 VC-B02-069B VC 70.021 VC-B02-070A VC	3 4	2.89	Sand Sandy Clay		Medium							
		High Strength Clay           11         High Strength Clay           11         High Strength Clay           11         High Strength Clay	70.969 VC-802-071A VC 70.969 CPT-802-071 CPT 72.049 VC-802-072 VC	4	0.22 0.48 2.78	Sand Sand Clay	Dense to Very Dense	Very High	4.9	Clay Clay		very High Medium to High			
		11         High Strength Clay           11         High Strength Clay	72.968 VC-802-073 VC 72.969 CPT-802-073 CPT	4 4	2.1 5.1	Clay Clay		Very High High to Very High							
		11         High Strength Clay           11         High Strength Clay           11         High Strength Clay           11         High Strength Clay	74.97 VC-802-074 VC 74.97 VC-802-075 VC 74.971 CPT-R02-075 C0T	4	3.45 3.83 5.26	Clay Clay Clav		Very High Very High High							+
		12         Sad           13         Very Low Strength Clay	75.968 VC-802-076 VC 76.963 VC-802-077 VC	6	6 3.85	Sand Clay		Very Low							
		13         Very Low Strength Clay           14         Sand           14         Cond	76.964 CPT-802-077 CPT 77.803 VC-802-078 VC	9 7	1.78	Clay Sand		Very Low	1.22	Sand	Medium Dense to Dense				
		Sanu           15         Dense Sand           15         Dense Sand	VC-802-079         VC           79.095         CPT-802-079         CPT           80.086         VC-802-080         VC	7 7 5	5 5	Sand Sand Sand	Dense to Very Dense		0.5	Clay	-	Low to Medium	1.6	Sand	Dense to Very Dense
		15         Dense Sand           15         Dense Sand	81.056 CPT-B02-081 CPT 81.058 VC-B02-081 VC	5 5	5 4.3	Sand Sand	Dense to Very Dense								
		15         Dense Sand           16         High Strength Clay           16         High Strength Clay	82.071 VC-802-082 VC 83.069 CPT-802-083 CPT 83.07 VC-802-083A VC	4	1.39 0.42	Sand Gravel Sandy Clay	Loose		1.5 4.82	Clay Clay		High High to Very High			
		Information           16         High Strength Clay           16         High Strength Clay	84.069 VC-B02-084A VC 85.07 CPT-B02-085 CPT	4	3.5 0.26	Clay Gravel	Medium Dense	Very High	3.8	Clay		High to Very High			
		16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	85.074 VC-B02-085A VC 86.07 VC-B02-086 VC 87.07 C0T 003 007	4	0.36	Gravel Clay	lac	Very High	2	Clay		Very High			
		High Strength Clay           16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	or.or         CP1-B02-087         CPT           87.071         VC-802-087         VC           88.07         VC-802-088         VC	9 4 4	0.18 0.24 3.55	Gravel Clay	LOOSE	Very High	4.9	Clay Clay		very Low to Low Very High			+
		16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	89.071 CPT-B02-089 CPT 89.072 VC-B02-089 VC	4	0.16 0.74	Sand	Medium Dense	· · · · · · · · · · · · · · · · · · ·	4.96 2.26	Clay Clay		High to Very High Very High			
		16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	90.071 VC-802-090 VC 90.852 CPT-802-091 CPT 90.853 VC-803-001 VC	4	0.88	Sand Gravel	Dense	Von High	2.57 5.14	Clay Clay		Very High High			
		Information         Information           16         High Strength Clay           16         High Strength Clay	92.069 VC-802-091 VC 93.069 CPT-802-093 CPT	4 4 4	2.14 0.26	Clay Sand	Dense	Very High	4.92	Clay		High to Very High			
		16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	93.071 VC-802-093 VC 94.069 VC-802-094 VC	4	1.55	Clay Gravel		Very High	1.17	Clay		Very High			
		High Strength Clay           16         High Strength Clay           16         High Strength Clay           16         High Strength Clay	95.07         VC-B02-095A         VC           95.07         CPT-B02-095         CPT           96.071         VC-B02-096         VC	4 4 4	0.29 0.12 0.98	Gravel Gravel Clay	Medium Dense	Very High	1.19 4.92	Clay		Very Hign High to Very High			
		16 High Strength Clay 16 High Strength Clay	97.07 VC-802-097 VC 97.07 CPT-802-097 CPT	4	1.42 0.34	Clay Gravel	Very Dense	Very High	4.8	Clay		High to Very High			
		1b         High Strength Clay           16         High Strength Clay           16         High Strength Clay	98.07 VC-B02-098A VC 99.068 VC-B02-099A VC 99.07 CPT-R02-099 CPT	4	0.25 0.29 0.2	Gravel Gravel Gravel	Medium Dense		1.18 1.38 4.94	Clay Clay Clay		High Very High High			+
		16 Uide Strength Clay	100.072 VC-802-100A VC	4	157	Claw		Vory High				0			

16 16 16	High Strength Clay High Strength Clay High Strength Clay	101.069 101.07 102.072	VC-B02-101 VC CPT-B02-101 CP1 VC-B03-102 VC	4 4 4	2.5 0.22 0.18	Clay Gravel Sand	Medium Dense to Dense	Very High	4.82	Clay Clay		High to Very High				
16 16 16	High Strength Clay High Strength Clay High Strength Clay	103.069 103.07 103.904	VC-B03-103A VC CPT-B03-103 CPT VC-B03-104 VC	4 4 4	1.34 0.4 0.43	Clay Sand Gravel	-	Medium	4.66 1.87	Clay Clay		High to Very High Very High				
16 16 16	High Strength Clay High Strength Clay High Strength Clay High Strength Clay	105.07 105.073 106.074 107.099	VC-803-105 VC VC-803-106A VC VC-803-106A VC	4 4 4 4	0.24 1.92 0.31 0.58	Clay Sand Sand	Dense	Very High	4.82 1.92 0.85	Clay Clay Clay		Very High Very High				
16 16 16	High Strength Clay High Strength Clay High Strength Clay	107.099 108.07 109.07	CPT-B03-107 CPT VC-B03-108 VC VC-B03-109 VC	4 4 4	0.38 1.2 2	Sand Clay Clay	Dense	Very High Very High	4.68	Clay		High				
16 16 16 16	High Strength Clay High Strength Clay High Strength Clay High Strength Clay High Strength Clay	109.07 110.025 110.926 110.927 112.559	CPT-803-109 CPT VC-803-110A VC CPT-803-111 CPT VC-803-111 VC VC-803-112 VC	4 4 4 4 4	0.24 1.31 0.22 0.99 1.6	Gravel Clay Clay Clay Clay Clay	Dense	Very High Low Very High Very High	4.74 5.26	Clay Clay		High High				
17 17 17	Medium Dense Sand Medium Dense Sand Medium Dense Sand	113.069 113.073 114.074	CPT-B03-113 CPT VC-B03-113 VC VC-B03-114A VC	6 4 6	0.78 1.08 2.7	Sand Sand Sand	Very Loose to Dense		1.06 1.08 1.3	Sand Clay Clay	Medium Dense to Very Dense	High Medium	3.24	Clay		Medium to High
18 18 18	High Strength Clay High Strength Clay High Strength Clay	115.299 115.3 116.432	VC-803-115 VC CPT-803-115 CPT VC-803-116 VC	4 4 4	2.27 0.22 1.36	Clay Clay Clay		Very High Extremely Low Very High	3.84	Clay		High				
18 18 18	High Strength Clay High Strength Clay High Strength Clay High Strength Clay	117.07 117.071 118.068	CPT-B03-117 CPT VC-B03-117A VC VC-B03-118 VC	4 4 4	0.28 0.56 1.86	Gravely Clay Gravel Clay		Extremely Low Very High	4.98	Clay Clay		High to Very High Very High				
18 18 18	nign strength Clay High Strength Clay High Strength Clay High Strength Clay	119.068 119.071 120.07 121.071	VC-B03-119A VC CPT-B03-119 CPT VC-B03-120 VC	4 4 4 4	0.26	Sand Clay	Dense	Very High High	4.96	Clay		High to Very High				
18 18 18	High Strength Clay High Strength Clay High Strength Clay	121.071 121.071 122.07	CPT-B03-121 CPT CPT-B03-121A CPT VC-B03-122 VC	4 4 4	0.26 0.36 0.24	Cay Clay Sand		Extremely Low Extremely Low	1.36 4.12 1.86	Clay Clay Clay		High High Very High				
18 18 18	High Strength Clay High Strength Clay High Strength Clay	123.07 123.072 124.07	CPT-B03-123 CPT VC-B03-123A VC VC-B03-124 VC	4 4 4	3.6 0.3 0.3	Clay Gravel Gravel		High to Very High	1.16	Clay Clay		Very High Very High				
18 18 18	High Strength Clay High Strength Clay High Strength Clay	124.966 124.968 126.071	VC-B03-125A VC CPT-B03-125 CPT VC-B03-126 VC	4 4 4	0.21 0.26 0.24	Gravel Gravelly Clay Gravel			1.06 4.96 1.23	Clay Clay Clay		Very High High to Very High Very High				
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	127.273 127.274 128.072	CPT-B03-127 CPT VC-B03-127 VC VC-B03-128 VC	5 5 5	2.64 2.48 4	Sand Sand Sand	Dense to Very Dense		2.54 0.6 1.9	Clay Clay Chalk		High Very High				
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	129.05 129.057 130.131	CPT-B03-129 CPT VC-B03-129A VC VC-B03-130 VC	5 5 5	0.58 2.86 3	Gravelly Sand Sand Sand	Very Loose to Dense		2.54 1.04 0.99	Gravelly Sand Chalk Chalk	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m)	131.497 131.517 131.842	VL-803-131 VC CPT-803-131 CPT VC-803-132 VC	5 5 5	6 0.44 5.93	Sand Gravelly Sand Sand	Very Loose to Dense		3.66	Gravelly Sand	Very Dense					
19 19 19	Lense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	133.064 133.069 134.134	VL-B03-133 VC CPT-B03-133 CP1 VC-B03-134 VC	5 5 5	4.5 0.38 4.79	Sand Gravelly Sand Sand	Very Loose to Dense		4.54	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	135.009 135.07 136.02 137.008	VC-B03-135 VC VC-B03-136 VC VC-B03-137 VC	5 5 5 5	4.6 5.61 3.84	Sand Sand Sand Sand Sand	very couse to bense		16.2 M	Graveny salid	עבוץ טבווזע					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	137.072 138.07 139.092	CPT-B03-137 CP1 VC-B03-138A VC CPT-B03-139 CP1	5 5 5	0.46 4.56 0.68	Gravelly Sand Sand Gravelly Sand	Very Loose to Dense Loose to Dense		4.8	Gravelly Sand Gravelly Sand	Very Dense Very Dense					
19 19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	139.095 140.082 141.087 141.095	VC-803-139 VC VC-803-140 VC VC-803-141 VC CPT-803-141 CPT	5 5 5 5 5	3.44 4.73 4.92 0.32	Sand Sand Sand Gravelly Sand	Very Loose to Dense		4.72	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	142.054 143.068 143.072	VC-B03-142 VC VC-B03-143 VC CPT-B03-143 CPT	5 5 5	4.56 5.16 0.44	Sand Sand Gravelly Sand	Very Loose to Dense		4.82	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	144.108 145.07 145.072	VC-B03-144 VC VC-B03-145 VC CPT-B03-145 CPT	5 5 5	4.36 3.16 0.58	Sand Sand Gravelly Sand	Very Loose to Dense		3.7	Gravelly Sand	Very Dense					
19 19 19	Denice Janid With Loose Sand Verteer (0.3m) Denice Sand with Loose Sand Verteer (0.3m) Denice Sand with Loose Sand Verteer (0.3m) Denice Sand with Loose Sand Verteer (0.3m)	146.07 146.947 146.95 148.091	VC-803-146 VC VC-803-147 VC CPT-803-147 CP1 VC-803-148 VC	5 5 5	4.89 2.58 0.64 3.63	Sand Sand Gravelly Sand Sand	Very Loose to Dense		4.54	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m)	149.062 149.065 150.056	VC-B03-149A VC CPT-B03-149A VC VC-B03-149 CPT VC-B03-150 VC	6 6 5	3.86 0.54 3.24	Sand Gravelly Sand Sand	Very Loose to Dense		4.68	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	152.071 152.072 153.07	CPT-B03-152 CPT VC-B03-152 VC VC-B03-153 VC	5 5 5	5.06 3.58 5.91	Gravelly Sand Sand Sand	Very Dense									
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	154.065 154.071 155.109	CPT-B03-154 CPT VC-B03-154A VC VC-B03-155 VC	6 6 5	0.86 2.82 4.16	Gravelly Sand Sand Sand	Very Loose to Dense		4.2	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	156.052 156.053 157.084	CPT-B03-156 CP1 VC-B03-156 VC VC-B03-157 VC	5 5 5	0.4 4 5.15	Gravelly Sand Sand Sand	Very Loose to Dense		4.7	Gravelly Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m)	158.069 158.07 159.07	CPT-B03-158 CPT VC-B03-158 VC VC-B04-159A VC	5 5 5	0.52 3.48 3.91	Gravelly Sand Sand Sand	Very Loose to Dense		4.62	Gravelly Sand	Very Dense					
19 19 19	Dense Jand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	160.112 160.112 161.065 162.07	VC-B04-160 VC VC-B04-161 VC CPT-R04-162 CPT	5 5 6	3.05 4.23 0.54	Sand Sand Sand Sand	Very Loose to Dense		4.6	Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	162.07 162.986 164.29	VC-B04-162 VC VC-B04-163 VC VC-B04-164 VC	6 6 6	3.91 5.16 4.14	Sand Sand Clayey Sand		Very Low								
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	164.291 165.07 166.067	CPT-B04-164 CPT VC-B04-165 VC CPT-B04-166A CPT	6 6 6	5.06 4.76 2.92	Sand Sand Sand	Very Dense Very Dense									
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	166.068 167.071 168.071	VC-B04-166 VC VC-B04-167 VC CPT-B04-168 CPT	6 5 5	5.23 5.35 0.66	Sand Sand Sand	Loose		4.56	Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m)	168.074 169.074 170.068	VC-B04-168 VC VC-B04-169A VC CPT-B04-170 CPT	5 5 5	1.48 5.63 3.32 5.50	Sand Sand Sand	Very Dense		0.72	Gravei			5.//	Saud		
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (1.3m)	171.07 172.063 172.063	VC-B04-170 VC VC-B04-171 VC CPT-B04-172 CP1 VC-B04-172A VC	5 6 6	3.14 0.8 5.41	Sand Sand Sand Sand	Loose to Dense		0.15 4.02	Clay Sand	Very Dense	Medium	2.52	Sand		
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	173.069 174.068 174.068	VC-B04-173 VC CPT-B04-174 CP1 VC-B04-174 VC	6 5 5	5.37 0.38 6	Sand Sand Sand	Very Loose to Dense		4.76	Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	175.07 176.089 176.089	VC-B04-175 VC CPT-B04-176 CP1 VC-B04-176 VC	5 5 5	5.9 5.02 6	Sand Sand Sand	Very Dense									
19 19 19	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	177.103 178.074 178.079	VC-B04-177 VC VC-B04-178 VC CPT-B04-178 CP1	5 5 5	6 6 0.42	Sand with thin bands of Clay Sand Sand	Very Loose to Dense		4.78	Sand	Very Dense					
19 19 19	Dense Sand with Loose Sand Veneer (0.3m)	179.323 180.064 180.065	VC-B04-179 VC CPT-B04-180 CP1 VC-B04-180 VC	5 5 5	6 0.38 3	Sand Sand Sand	Very Loose to Dense		4.86	Sand	Very Dense					
20 20 21	Very Loose Sand over Medium Clay Very Loose Sand over Medium Clay Very Loose Sand over Medium Clay Medium Dence Sand verse Sand Veneer (0.2m)	161.64/ 182.024 182.027 182.700	VC-BU4-181 VC CPT-B04-182 CP1 VC-B04-182 VC VC-B04-183 VC	5 5 5 5	0.56 0.35 3.56	Sand Gravel Sand	Very Loose to Loose		0.58	Clay Clay Clay		High Low Medium	4.18 1.4	Sand Sand	Very Dense	
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	183.702 183.702 185.069	CPT-B04-184 CPT VC-B04-184 VC VC-B04-185 VC	6 6 6	0.66 4.83 4.8	Sand Sand Sand Sand	Very Loose to Dense		4.46	Sand	Dense to Very Dense	meanint				
21 21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	186.067 186.067 186.069 187.071	CPT-804-186 CPT CPT-804-186A CPT VC-804-186A VC	6 6 6	- 5.22 5.15 5.78		- Dense to Very Dense			-	-	-	-	-	-	-
21 21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	187.0/1 188.069 188.072 189.07	VC-804-187A VC VC-804-188 VC CPT-804-188 CP1 VC-804-189 VC	7 7 7 7	2.77 1.08 5.99	Sand Sand Sand Sand	Very Loose to Dense		4.06	Sand	Dense to Very Dense					
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	190.082 190.084 191.07	CPT-B04-190 CPT VC-B04-190 VC VC-B04-191 VC	5 5 7	0.46 4.82 1.2	Sand Sand Sand Sand	Very Loose to Dense		4.82	Sand	Very Dense	Medium				
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	192.026 192.027 193.07	CPT-804-192 CPT VC-804-192 VC VC-804-193 VC	5 6 6	0.74 6 6	Sand Sand Sand	Very Loose to Dense		3.42	Sand	Very Dense					
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	194.069 194.074 194.108	VC-B04-194 VC CPT-B04-194 CPT CPT-B04-194A CPT	5 5 5	4.86 0.42 0.52	Sand Sand Sand	Very Loose to Dense Very Loose to Dense		1.9 4.4	Sand Sand	Very Dense Dense to Very Dense					
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	195.07 196.075 196.075	VC-B04-195 VC CPT-B04-196 CP1 VC-B04-196 VC	6 6 6	1 0.72 0.5	Sand Sand Sand	Medium Dense		0.75 0.56 0.95	Clay Clay Clay		Low Medium to high Very Low	3.76 3.98 4.55	Sand Sand Sand	Very Dense	
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	197.068 198.067 198.07	VC-B04-197 VC CPT-B04-198 CPT VC-B04-198 VC	6 6 6	5.3 3 4	Sand Sand Sand	Dense to Very Dense		1.18 1.6	Clay Clay		High to Very High Low	0.84	Sand	Very Dense	
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	198.634 200.071 200.074	VC-805-199 VC VC-805-200 VC CPT-805-200 CP1	6 6 6	5.45 5.22 0.36	Sand Sand Sand	Loose to Dense		1.96	Sand	Very Dense		2.94	Sand	Medium to Very Dense	

21	Medium Dense Sand with Loose Sand Veneer (0.3m)	201.071	VC-805-201 VC	6	5.82 Sand										
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	202.049 202.058 203.224	CPT-B05-202 CPT VC-B05-203 VC	5	0.38 Sand 0.26 Sand	Very Loose to Dense		4.88	Sand	Medium Dense to Dense	High				
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	204.115 204.117	CPT-B05-204 CPT VC-B05-204 VC	6	0.86 Sand 1.25 Sand	Medium Dense to Dense		0.64	Clay Clay		High to Very High Very Low	2.94 1.75	Sand Sand	Very Dense	
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	205.071 206.066	VC-B05-205 VC CPT-B05-206 CPT	7 7	0.44 Sand 0.84 Sand	Very Loose to Medium Dense		0.52 4.24	Clay Sand	Dense to Very Dense	Very Low	2.57	Silty Clay		
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	205.072 207.071 208.244	VC-805-206 VC VC-805-207 VC	6	0.45 Sand 5.34 Sand			4.48	Sand with Clay						
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	208.244 208.244 209.54	CPT-B05-208 CPT VC-B05-209 VC	6	0.88 Sand 4 Sand	Loose to Dense		4.3	Sand	Medium Dense to Dense					
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	210.068 210.069	VC-B05-210 VC CPT-B05-210 CPT	6	4.68 Sand 1.02 Sand	Very Loose to Very Dense		4.06	Sand	Very Dense					
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	211.066 212.191	VC-B05-211A VC VC-B05-212 VC	6 6	4.56 Sand 3.65 Sand										
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Gendwith Loose Sand Veneer (0.3m)	212.191 213.068	CPT-B05-212 CPT VC-B05-213 VC	6	0.78 Sand 3.82 Sand	Loose to Dense		4.24	Sand Clay	Very Dense	High	2.5	Clay	-	Medum to High
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	214.069 214.071 215.072	VC-B05-214 VC VC-B05-214 VC	6	1.12 Sand 2.85 Sand 1.96 Sand	Very Loose to Dense		2.24	Clay Clay	Medium Dense to Very Dense	Medium	2.74	Clay	-	Medum to High
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	216.067 216.072	CPT-B05-216 CPT VC-B05-216A VC	7 7 7	1.62 Sand 2.73 Sand	Very Loose to Very Dense		3.6	Clay Clay		Medium to High Medium				
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	217.069 218.069	VC-B05-217A VC CPT-B05-218 CPT	5 5	4.78 Sand 0.62 Sand	Very Loose to Dense		3.5	Sand	Very Dense					
21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Gand with Loose Sand Veneer (0.3m)	218.07 219.07	VC-B05-218 VC VC-B05-219A VC	5	5.81 Sand 5.64 Sand	land b Danie		22	6	Describe Very Descri		2.25	éle.		
21 21 21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	220.067 220.071 221.069	VC-805-220 VC VC-805-221 VC	5	4.49 Sand	Loose to Dense		2.3 1.64 1.97	Clay	Dense to very bense	Medium	2.20	Cidy		nigh to very nigh
21 21	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	222.067 222.073	VC-B05-222 VC CPT-B05-222 CPT	6 6	3.11 Sand 1.94 Sand	Loose to Very Dense		1.54 3.3	Clay Clay		Medium Medium to High				
21 22	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Strength Clay	223.066 224.069	VC-805-223 VC VC-805-224 VC	6 4	5.97 Sand 2.97 Clay and Sand		Medium								
22	Medium Strength Clay Medium Strength Clay	224.07 225.073	CPT-B05-224 CPT VC-B05-225A VC	4	2.16 Clay and Sand 2 Clay and Sand		Medium to High Medium	1	Sand	Medium Dense	Madium as titak	2.1	Clay		High
23	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	226.072	VC-805-226A VC VC-805-227B VC	4 4 4	1.66 Sand 1.47 Sand		Medium	3.23	Clay		High				
23 23	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	228.068	VC-B05-228 VC CPT-B05-228 CPT	6	1.94 Sand 0.36 Sand	Very Loose to Dense		1.93	Clay Sand	Very Dense	Medium	2.76	Clay		High to Very High
23 23	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	229.069 230.068	VC-B05-229 VC VC-B05-230 VC	6	4.41 Sand 5.58 Sand		Medium	0.9	Clay		Medium				
23 23	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	230.072 231.117	CPT-805-230 CPT VC-805-231 VC	6	0.5 Sand 4.79 Sand	Very Loose to Dense		4.48	Sand	Dense to Very Dense	Medium				
23 23 24	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	232.068 232.074	VC-B05-232 VC CPT-B05-232 CPT	7	2.88 Sand 2.5 Sand	Very Loose to Very Dense		2.32	Clay Clay		High High to Very High	0.40	ella . e		
24 24 24	wessuum Dense Samu with Loose Sand Veneer (U.S.m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	233.07 234.372 234.377	VC-B05-233 VC VC-B05-234 VC CPT-B05-234 СРТ	4 4 4	0.55 Sand 0.78 Gravel	Very Loose to Medium Dense		1.75 3.44 4.18	Clay Clay Clav		Very High Very High High to Very High	U.48	Sitty Sand		
24 24	Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	235.07 236.067	VC-B05-235 VC CPT-B05-236 CPT	4 4	0.8 Sand 0.6 Sand	Very Loose to Very Dense		3.2	Clay Clay		Very High High to Very High				
24 24	Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	236.07 237.191	VC-B05-236 VC VC-B05-237 VC	4 4	0.32 Sand 0.44 Sand			0.62 4.44	Clay Clay		High Very High	3.17	Clay		
24 24	Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	238.068 238.07	VC-B05-238 VC CPT-B05-238 CPT	4 4	0.59 Sand 0.6 Sand	Very Loose to Medium Dense		3.14 4.6	Clay Clay		Very High High to Very High				
24 24	Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay	238.919 240.07	VC-B05-239 VC VC-B05-240 VC	4	0.44 Sand 0.53 Sand	Vanil opra to Madium D		3.89 3.61	Clay Clay		Very High Very High				
24 24 25	Medium Dense Sama with Loose Sama Veñeer (U.S.m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m) over High Strength Clay Medium Dense Sand with Loose Sand Veneer (0.3m)	240.07 241.073 242.071	VC-B05-240 CPT VC-B05-241 VC VC-B05-242 VC	4	1.35 Sand 3.96 Sand	very Loose to Medium Dense		4.64 2.87 0.69	Clay Clay		Very High Very High			+ +	
25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	242.073 243.065	CPT-B05-242 VC CPT-B05-242 CPT VC-B05-243 VC	6	0.38 Sand 2.05 Sand	Very Loose to Very Dense		3.2	Sand	Very Dense	Very High	1.7	Clay		High to Very High
25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	244.07 244.07	VC-B05-244 VC CPT-B05-244 CPT	4 4	0.61 Sand 0.7 Sand	Very Loose to Dense		2.88 0.42	Clay Clay		Very High Low to Medium	4.14	Clay		High to Very High
25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	245.073 246.128	VC-B05-245 VC CPT-B05-246 CPT	7 7	0.34 Sand 0.64 Sand	Very Loose to Dense		3.07 4.42	Clay Sand	Dense to Very Dense	Very High				
25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	246.129 247.071	VC-B05-246 VC VC-B05-247 VC	6	5.65 Sand 5.6 Sand	Variation to David		402	fred	Vice Deere					
25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	248.069 248.07 249.069	VC-805-248 VC	5	0.5 Sand 5.8 Sand 4.48 Sand	Very Loose to Dense		4.62	Sand	Very Dense					
25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	250.069	CPT-B05-250 CPT VC-B05-250 VC	6	3.84 Sand 4.25 Sand	Loose to Very Dense		1.44	Clay Clay		High to Very High Very High				
25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	251.072 251.912	VC-B06-251A VC VC-B06-252 VC	4	0.37 Sand			0.45	Clay		Medium Medium	1.26 1.01	Clay Clay		
25					0.21 5010			0.39	City						
25 25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	251.916 253.068	CPT-806-252 CPT VC-806-253 VC	4	0.32 Sand 1.21 Sand 0.55 Sand	Loose to Dense		4.5	Clay Clay Clay		High to Very High Very High	0.32	Sand	Very Dense	
25 25 25 25 25 25 25 25	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Veneer (0.3m)	251.916 253.068 254.397 254.398 255.023	CPT-806-252         CPT           VC-806-253         VC           VC-806-254B         VC           CPT-806-254         CPT           VC-806-255         VC	4 4 4 4 4	0.32 Sand 1.21 Sand 0.55 Sand 0.82 Gravel 0.45 Sand	Loose to Dense Very Loose to Medium Dense		4.5 1.25 1.15 3.64 1.4	Clay Clay Clay Clay Clay Clay Clay		High to Very High Very High High High to Very High Medium	0.32	Sand	Very Dense	
25 25 25 25 25 25 25 25 25 25 25	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3 m)	251.916 253.068 254.397 254.398 255.023 256.07 256.071	CPT-B06-252         CPT           VC-B06-253         VC           VC-B06-254B         VC           CPT-B06-254         CPT           VC-B06-255         VC           VC-B06-256         VC           CPT-B06-256         CPT	4 4 4 4 4 4 4 4 4	0.32         Sand           1.21         Sand           0.55         Sand           0.82         Gravel           0.45         Sand           0.45         Sand           0.28         Sand           0.3         Gravel	Loose to Dense Very Loose to Medium Dense Very Loose to Dense		4.5 1.25 1.15 3.64 1.4 1.29 4.96	Clay Clay Clay Clay Clay Clay Clay Clay		High to Very High Very High High High to Very High Medium High High to Very High	0.32	Sand	Very Dense	
25 25 25 25 25 25 25 25 25 25 25 25 25 2	Medium Deres Sand with Looes Sand Yenerer (0.3 m) Medium Deres Sand with Looes Sand Yenerer (0.3 m)	251.916 253.068 254.397 254.398 255.023 256.07 256.071 257.069 258.069	CPT-806-252 CPT VC-806-253 VC VC-806-2548 VC CPT-806-254 CPT VC-806-255 VC VC-806-255 VC CPT-806-256 CPT VC-806-257 VC VC-806-257 VC VC-806-257 VC	4 4 4 4 4 4 4 5 5 5	0.32         Sand           1.21         Sand           0.55         Sand           0.82         Gravel           0.45         Sand           0.28         Sand           0.3         Gravel           2.09         Sand           5.32         Sand	Loose to Dense		4.5 1.25 1.15 3.64 1.4 1.29 4.96 1.01	Ciay Ciay Ciay Ciay Ciay Ciay Ciay Ciay		High to Very High Very High High High to Very High Medium High High to Very High Very High	0.32	Sand	Very Dense	
25 25 25 25 25 25 25 25 25 25 25 25 25 2	Medium Dense Sand with Loose Sand Veneer (13 am) Medium Dense Sand with Loose Sand Veneer (13 am)	251.916 253.068 254.397 254.398 255.023 256.071 255.069 258.069 258.071 259.321 260.069	CPT-806-252         CPT           VC-806-253         VC           VC-806-2548         VC           CPT-806-254         CPT           VC-806-255         VC           VC-806-255         VC           CPT-806-256         CPT           VC-806-257         VC           VC-806-258         VC           CPT-806-258         VC           VC-806-258         VC           VC-806-258         VC           VF-806-258         VC           VC-806-258         VC	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.55         Sand           0.82         Gravel           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           2.09         Sand           5.32         Sand           0.34         Sand           6         Sand           6         Sand           6         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Very Loose to Dense		4.5 4.5 1.25 1.15 3.64 1.4 1.29 4.96 1.01	Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense	High to Very High Very High High to Very High Medium High to Very High Very High	0.32	Sand	Very Dense	
25 25 25 25 25 25 25 25 25 25 25 25 25 2	Medium Deres Sand with Loose Sand Veneer (0.3 m) Medium Deres Sand with Loose Sand Veneer (0.3 m)	251.916 253.068 254.397 254.398 255.023 256.071 255.069 258.069 258.071 259.321 260.079 260.071 261.069	CPT-B06-252         CPT           VC-806-253         VC           VC-806-254         VC           VC-806-253         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-260         VC           VC-806-261         VC	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.26         Gravel           0.45         Sand           0.28         Sand           0.29         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.0         Sand           5.32         Sand           6         Sand           0.34         Sand           6         Sand           0.34         Sand           5.32         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Very Loose to Dense		4.5 1.25 1.15 3.64 1.4 1.2 1.4 1.4 1.2 9 1.01 1.01 1.01 4.96 4.94	Cay Cay Cay Cay Cay Cay Cay Cay Cay Cay	Very Dense Very Dense	High to Very High Very High High High to Very High Medium High to Very High Very High	0.32	Sand	Very Dense	
25           25	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3 m)	251.916 253.068 254.397 255.023 255.071 255.071 255.071 255.071 255.071 259.258.071 259.321 260.079 260.071 260.079 260.071 261.078 261.718 262.07	CPT-806-252         CPT           VC-806-253         VC           VC-806-253         VC           VC-806-253         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-257         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-260         VC           VC-806-261         VC           VC-806-262         VC           VC-806-262         VC	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.26         Gravel           0.45         Sand           0.28         Sand           0.30         Gravel           0.31         Gravel           0.32         Sand           0.33         Gravel           0.34         Sand           0.34         Sand           6         Sand           0.34         Sand           0.52         Sand           0.52         Sand           6         Sand           0.52         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Loose to Dense		0.33         4.5           1.25         1.15           3.64         1.4           1.29         1.01           4.96         1.01           4.96         2.98	Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Very High	0.32	Sand	Very Desse	High
25           25	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3 m)	251.916 253.068 254.397 255.023 255.071 255.071 255.071 255.071 255.071 255.071 255.023 258.069 258.071 260.069 260.071 261.069 261.718 262.07 262.071 263.071	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         CPT           VC-806-254         CPT           VC-806-254         CPT           VC-806-255         VC           VC-806-257         VC           VC-806-257         VC           VC-806-258         VC           VC-806-258         CPT           VC-806-258         VC           VC-806-260         VC           VC-806-261         VC           VC-806-262         VC           VC-806-262         VC           VC-806-262         VC           VC-806-262         VC           VC-806-262         VC           VC-806-264         VC	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.35         Sand           0.42         Gravel           0.45         Sand           0.28         Gravel           0.45         Sand           0.28         Sand           0.3         Gravel           2.09         Sand           0.34         Sand           6         Sand           6.33         Sand           6         Sand           0.34         Sand           0.52         Sand           6         Sand           6.4         Sand           6.532         Sand           0.52         Sand           6.53         Sand           6.53         Sand           6.53         Sand           6.53         Sand           6.6         Sand           4.04         Sand           4.77         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Loose to Dense Loose to Dense		0.5         15           1.25         1.25           1.15         3.64           1.4         1.29           4.96         101           4.96         2.98           1.41         1.41	Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Very High Very High	0.32	Sand	Very Dexse	High
25         25           25         25	Medium Benes Sand with Loose Sand Veneer (0.3 m) Medium Benes Sand with Loose Sand Veneer (0.3	251.916 253.068 254.397 254.398 255.073 256.071 255.079 258.069 258.069 258.071 259.321 260.071 260.071 261.718 262.07 262.071 264.071 264.071 264.072 265.022 266.073	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2544         VC           VC-806-2554         VC           VC-806-256         VC           VC-806-257         VC           VC-806-257         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-258         VC           VC-806-254         VC           VC-806-264         CPT           VC-806-264         CPT           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.42         Gravel           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.03         Gravel           0.04         Sand           0.34         Sand           6         Sand           0.32         Sand           0.52         Sand           0.6         Sand           0.4         Sand           0.52         Sand           0.6         Sand           0.4         Sand           0.5         Sand           0.6         Sand           0.7         Sand           0.8         Sand           0.3	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense		0.5           45           1.25           1.15           3.64           1.4           1.29           4.96           0           2.98           1.41           4.94           4.94	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Very High	1.04	Sand	Very Dense	High
25         25           25         25	Medium Dense Sand with Loose Sand Venere (0.3 m) Medium Dense Sand with Loose Sand Venere (0.3 m)	251.916 253.068 254.397 254.398 255.023 255.023 255.071 255.071 255.070 255.071 259.321 260.069 261.069 261.718 264.071 264.071 264.071 265.02 266.049 266.049 266.049 266.049	CPT-806-523         CPT           VC-806-2334         VC           VC-806-2343         VC           VC-806-2354         CPT           VC-806-2354         CPT           VC-806-2354         CPT           VC-806-2354         CPT           VC-806-235         VC           VC-806-236         VC           VC-806-237         VC           VC-806-236         VC           VC-806-236         VC           VC-806-236         VC           VC-806-236         VC           VC-806-237         VC           VC-806-238         VC           VC-806-239         VC           VC-806-230         VC           VC-806-231         VC           VC-806-232         VC           VC-806-233         VC           VC-806-264         CPT           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC	4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.26         Gravel           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.34         Sand           0.35         Sand           0.4         Sand           5.32         Sand           5.32         Sand           5.33         Sand           5.47         Sand           0.46         Sand           0.47         Sand           0.48         Sand           0.48         Sand           0.48         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense		0.5           1           1.25           1.15           3.64           1.4           1.29           4.96           0           2.98           1.41           4.94           4.94           4.94	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Very High	0.32	Sand	Very Dense	Hgh
25         25           26         25           27         25	Medium Dense Sand with Loose Sand Vener (0.3 m) Medium Dense Sand with Loose Sand Vener (0.3 m)	251.916 253.068 254.397 254.397 255.023 255.023 255.07 255	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         CPT           VC-806-2544         CPT           VC-806-2554         CPT           VC-806-256         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-255         CPT           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-267         VC           VC-806-268         VC           VC-806-268         VC	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.26         Gravel           0.45         Sand           0.28         Sand           0.28         Sand           0.3         Gravel           2.09         Sand           5.12         Sand           6         Sand           6.31         Sand           6.4         Sand           6.32         Sand           6.32         Sand           6.32         Sand           6.32         Sand           6.32         Sand           6.32         Sand           0.32         Sand           0.32         Sand           0.32         Sand           0.33         Gravel           0.34         Sand           0.35         Sand           0.36         Sand           0.36         Sand           0.51         Sand           0.52         Sand           0.52         Sand           0.52         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense		0.5           0.5           1.5           1.15           3.64           1.4           1.29           4.96           0.01           4.96           1.01           4.96           1.01           4.94           4.94           4.94           4.94           4.94           4.94           4.74	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Very High	0.32	Sand	Very Dense	High
25         25           25         <	Medium Dense Sand with Loose Sand Venerer (0.3 m) Medium	251.916 253.068 254.397 255.023 255.023 255.027 255.071 255.0671 255.0671 255.0671 255.0671 255.069 258.069 258.071 261.079 261.073 264.071 26	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         CPT           VC-806-254         CPT           VC-806-254         CPT           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-255         VC           VC-806-256         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         VC           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-268         VC           VC-806-268         VC           VC-806-268         VC           VC-806-268         VC           VC-806-268         VC           VC-806-268         VC           VC-806-270         CPT	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.26         Gravel           0.45         Sand           0.28         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.34         Sand           6         Sand           6.3         Sand           6.4         Sand           5.32         Sand           6.4         Sand           0.44         Sand           0.35         Sand           4.04         Sand           5.37         Sand           0.46         Sand           0.52         Sand           0.52         Sand           5         Sand           0.52         Sand           0.53         Sand           0.54         Sand           0.54         Sand           0.53         Sand           0.54	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Medium Dense to Very Dense		0.5           1.5           1.25           1.15           3.64           1.4           1.29           4.96           0           4.96           2.98           1.41           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medlum High to Very High Very High Very High Medlum Medlum	0.32	Sand	Very Dense	High
25         25           25         25           25         25           25         25           26         25           27         25           28         25           29         25           29         25           29         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           25         25           26         25           27         26	Medium Benes Sand with Looes Sand Veneer (0.3 m) Medium Benes Sand with Looes Sand Veneer (0.3	251.916 253.068 254.307 255.023 255.023 255.027 257.027 257.07	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         CPT           VC-806-254         CPT           VC-806-254         CPT           VC-806-254         CPT           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-259         VC           VC-806-250         CPT           VC-806-262         CPT           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-267         VC           VC-806-267         VC           VC-806-267         VC           VC-806-267         VC           VC-806-267         VC           VC-806-270         VC           VC-806-270         VC           V	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.41         Sand           0.42         Sand           0.43         Sand           0.44         Sand           0.43         Sand           0.44         Sand           0.52         Sand           6         Sand           4.40         Sand           4.57         Sand           5.47         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.54         Sand           5         Sand           0.54         Sand           5.222         Sand           5.222<	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Very Loose to Very Dense Medium Dense to Very Dense Medium Dense to Very Dense		0.5           1.5           1.25           1.15           3.64           1.4           1.29           4.96	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Very High Medium	0.32	Sand	Very Dense	High
25         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3	251.916 253.068 254.397 255.023 255.023 255.027 257.007 257.007 270.058 2770.059 2770.057 2770.059 2770.05770 2770.05770000000000000000000000000000000	CPT-806-252         CPT           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         CPT           VC-806-254         CPT           VC-806-254         CPT           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-257         VC           VC-806-258         VC           VC-806-259         CPT           VC-806-260         CPT           VC-806-262         CPT           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-267         VC           VC-806-267         VC           VC-806-270         VC           V	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.41         Sand           0.42         Sand           0.43         Sand           6         Sand           0.32         Sand           6.31         Sand           0.40         Sand           0.52         Sand           4.40         Sand           5.47         Sand           0.52         Sand           0.52         Sand           0.52         Sand           5         Sand           5         Sand           5         Sand           4.86         Sand           5.22         Sand           5.23         Sand	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Very Loose to Very Dense Medium Dense to Very Dense Very Loose to Very Dense		0.5           1.5           1.25           1.15           3.64           1.4           1.29           4.96	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Dense to Very Dense	High to Very High Very High High to Very High Medlum High to Very High Very High Very High Medlum	0.32	Sand	Very Dense	High
25         25           25         <	Medium Benes Sand with Loose Sand Veneer (0.3 m) Medium Benes Sand with Loose Sand Veneer (0.3	251.916 253.068 254.397 255.023 255.023 255.027 257.059 277.05	CPT-806-532         CPT           VC-806-2334         VC           VC-806-2334         VC           VC-806-2334         VC           VC-806-2344         CPT           VC-806-2354         VC           VC-806-2354         VC           VC-806-2355         VC           VC-806-2357         VC           VC-806-2357         VC           VC-806-2357         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-230         VC           VC-806-230         VC           VC-806-233         VC           VC-806-234         VC           VC-806-235         VC           VC-806-236         VC           VC-806-237         VC           VC-806-236         VC           VC-806-236         VC           VC-806-236         VC           VC-806-237         VC           VC-806-237         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         CPT	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.52         Sand           6         Sand           0.52         Sand           4.64         Sand           0.55         Sand           5.47         Sand           6.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.54         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52 <td>Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Medium Dense to Very Dense Very Loose to Very Dense</td> <td></td> <td>2.05 1.5 1.25 1.15 3.64 1.4 4.96 </td> <td>City City City City City City City City</td> <td>Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense</td> <td>High to Very High Very High High to Very High Medium High to Very High High to Very High Very High Medium</td> <td>0.32</td> <td>Sand</td> <td>Very Dense</td> <td>High</td>	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Medium Dense to Very Dense Very Loose to Very Dense		2.05 1.5 1.25 1.15 3.64 1.4 4.96 	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Very High Medium	0.32	Sand	Very Dense	High
25         25           25         25           26         25           27         25           28         25           29         25           25         25           26         25           27         25           28         <	Medium Dense Sand with Loose Sand Venere (0.3 m) Medium Dense Sand with Loose Sand Venere (0.3	251.916 253.068 254.307 255.023 255.023 255.023 255.027 255.02	CPT-806-532         CPT           VC-806-2334         VC           VC-806-2334         VC           VC-806-2334         VC           VC-806-234         CPT           VC-806-234         CPT           VC-806-2354         CPT           VC-806-2355         VC           VC-806-2357         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-236         VC           VC-806-237         VC           VC-806-237         VC           VC-806-273         VC           VC-806-274         CPT           VC-806-275         VC           VC-806-276         VC           VC-806-277         VC           <	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           2.09         Sand           0.34         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.52         Sand           0.44         Sand           0.52         Sand           0.40         Sand           4.04         Sand           4.05         Sand           0.56         Sand           0.57         Sand           0.58         Sand           0.52         Sand           0.54         Sand           5         Sand           5         Sand           0.54         Sand           5.5         Sand           0.52         Sand           5.52	Losse to Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Dense Losse to Dense Very Losse to Dense Very Losse to Very Dense		2.53 1.55 1.25 1.15 3.64 1.4 4.96 4.96 2.98 1.41 4.94 4.94 4.94 4.74 4.74 4.55 5.02 2.06	City City City City City City City City	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Medium Medium	0.32	Sand	Very Dense	High
25         25           25         25           26         25           27         25           28         25           29         25           25         <	Medium Dense Sand with Loose Sand Venere (13-m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.307 255.023 255.023 255.023 255.027 275.057 277.059 277.05	CPT-806-532         CPT           VC-806-2334         VC           VC-806-2334         VC           VC-806-2334         VC           VC-806-2344         CPT           VC-806-2354         VC           VC-806-2354         VC           VC-806-2354         VC           VC-806-2354         VC           VC-806-2355         VC           VC-806-2357         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-230         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         VC           VC-806-265         VC           VC-806-266         VC           VC-806-270         VC           VC-806-271         VC           VC-806-273         VC           VC-806-274         CPT           VC-806-276         VC           VC-806-276         VC           VC-806-276         VC	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           0.41         Sand           0.42         Sand           0.43         Sand           0.44         Sand           0.44         Sand           0.52         Sand           0.44         Sand           0.52         Sand           0.40         Sand           4.60         Sand           0.56         Sand           0.57         Sand           0.58         Sand           0.52         Sand           3	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense		2.53 1.55 1.25 1.15 3.64 1.4 4.96 	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Medium Medium	0.32	Sand Clay Sand Sand	Very Dense	High
25         25           25         25           26         27           27         28           28         28           28         28           28         28           29         28           29         25           25         <	Medium Dense Sand with Loose Sand Venere (0.3 m) Medium Dense Sand with Loose Sand Venere (0.3	251.916 253.068 254.307 255.023 255.023 255.023 255.027 275.057 277.058 277.059 277.058 277.0576 277.058 277.058 277.0576 277.058 277.058 277.0576 277.058 277.058 279	CPT-806-532         CPT           VC-806-2334         VC           VC-806-2334         VC           VC-806-2334         VC           VC-806-2334         VC           VC-806-2344         CPT           VC-806-2354         VC           VC-806-2354         VC           VC-806-2355         VC           VC-806-2357         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-2359         VC           VC-806-236         VC           VC-806-237         VC           <	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           0.44         Sand           0.44         Sand           0.44         Sand           0.32         Sand           0.44         Sand           0.52         Sand           0.44         Sand           0.52         Sand           0.44         Sand           0.56         Sand           0.57         Sand           0.56         Sand           0.57         Sand           0.52	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Loose to Very Dense Loose to Very Dense		2.53 1.55 1.15 1.425 1.44 1.29 4.96 1.01  4.96  2.98 1.41  4.94 4.94 4.94 4.94 4.74 4.74  5.02 5.02  5.02  4.72	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Medium Medium	0.32	Sand Clay Sand Sand	Very Dense	High
25         25           25         25           26         27           28         28           29         28           28         28           29         25           25         <	Medium Dense Sand with Loose Sand Venere (13-m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 255.023 255.023 255.023 256.071 255.023 256.071 255.023 256.071 253.069 253.069 253.07 253.07 254.071 254.071 254.071 254.071 254.071 254.071 256.039 266.049 276.058 270.058 270.058 270.058 270.058 270.058 272.058 272.058 272.058 272.058 272.058 272.058 272.058 277.058 272.058 277.058	CPT-806-532         CPT           VC-806-233         VC           VC-806-234         VC           VC-806-2354         VC           VC-806-2354         VC           VC-806-2354         VC           VC-806-2354         VC           VC-806-235         VC           VC-806-236         VC           VC-806-236         VC           VC-806-239         VC           VC-806-239         VC           VC-806-239         VC           VC-806-239         VC           VC-806-230         VC           VC-806-230         VC           VC-806-230         VC           VC-806-231         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-806-277         VC           VC-806	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.45         Sand           0.45         Sand           0.45         Sand           0.28         Sand           0.30         Gravel           0.45         Sand           0.30         Gravel           2.09         Sand           0.34         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.44         Sand           0.52         Sand           0.44         Sand           4.04         Sand           4.05         Sand           5.47         Sand           6.48         Sand           0.54         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.52         Sand           5.53         Sand           5.54         Sand           5.53         Sand           5.54 </td <td>Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense</td> <td></td> <td>0.5           1.5           1.15           1.41           1.29           4.96          </td> <td>City City City City City City City City</td> <td>Very Dense Very Dense</td> <td>High to Very High Very High High to Very High Medium High to Very High High to Very High Wery High Medium</td> <td>0.32</td> <td>Sand</td> <td>Very Dense</td> <td>High</td>	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense		0.5           1.5           1.15           1.41           1.29           4.96	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Wery High Medium	0.32	Sand	Very Dense	High
25         25           25         25           26         27           27         28           28         28           29         25           25         25           26         25           27         25           28         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3	251.916 253.068 254.307 255.302 255.023 256.071 255.023 256.071 255.023 256.071 257.006 259.069 259.069 259.069 259.069 259.071 259.069 250.071 259.069 251.718 259.071 259.071 259.071 259.071 259.071 259.071 259.071 259.071 259.071 270.068 277.078 277.079 278.071 278.071 278.071 278.071 278.071 278.071 278.071 279.079 279.07	CPT-806-532         CPT           VC-806-233         VC           VC-806-234         VC           VC-806-235         VC           VC-806-236         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-268         CPT           VC-806-279         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         CPT           VC-806-2	4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.25         Gravel           0.45         Sand           0.28         Garavel           0.28         Sand           0.29         Sand           0.20         Sand           0.3         Gravel           2.09         Sand           0.3         Gravel           0.44         Sand           0.43         Sand           0.44         Sand           0.34         Sand           0.44         Sand           0.32         Sand           0.44         Sand           0.35         Sand           0.44         Sand           0.56         Sand           4.67         Sand           0.64         Sand           5.7         Sand           0.64         Sand           5.5         Sand           5.52         Sand           5.52         Sand           5.53         Sand           0.52         Sand           5.53         Sand           5.	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Very Dense		0.5           1.5           1.15           1.41           1.9           4.96           -           -           2.98           1.41           -           4.94           -           4.74           4.74           -           2.08           1.41           -           4.74           -	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High Nery High Medium Medium	0.32	Sand Clay Clay Sand	Very Dense	High
25         25           25         25           26         25           27         25           28         25           29         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3 m) Medium Dense Sand with Loose Sand Veneer (0.3	251.916 253.068 254.307 255.023 255.023 256.071 255.023 256.071 255.023 256.071 255.023 256.071 257.006 259.017 270.018 277.05	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-260         CPT           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-268         CPT           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         CPT           VC-806-276         VC           VC	4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sand           1.21         Sand           0.25         Sand           0.25         Gravel           0.45         Sand           0.28         Garavel           0.28         Sand           0.28         Sand           0.3         Gravel           2.09         Sand           2.09         Sand           0.3         Gravel           0.44         Sand           0.44         Sand           0.44         Sand           0.31         Sand           0.44         Sand           0.32         Sand           0.44         Sand           0.35         Sand           0.40         Sand           4.01         Sand           4.02         Sand           0.54         Sand           5.7         Sand           5.8         Sand           5.5         Sand           5.5         Sand           5.52         Sand           5.53         Sand           5.53         Sand           5.54         Sand           5.55	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Very Dense		2.53 3.54 1.15 1.15 3.64 1.4 4.96 	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High High to Very High High to Very High Medium Medium	0.32 	Sand	Very Dense	High
25         25           25         25           26         25           27         25           28         25           29         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 256.071 256.071 255.023 255.027 275.058 277.058 278.071 279.071 278.071 279.07	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-260         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sard           1.21         Sard           0.25         Sard           0.45         Sard           0.45         Sard           0.45         Sard           0.28         Sand           0.3         Gravel           0.45         Sard           0.3         Gravel           2.09         Sand           5.32         Sard           6         Sard           0.34         Sard           6         Sard           0.32         Sard           6.3         Sard           6.3         Sard           6.3         Sard           4.01         Sard           6.3         Sard           4.01         Sard           4.02         Sard           0.52         Sard           0.53         Sard           0.54         Sard           5.3         Sard           0.54         Sard           5.5         Sard           0.64         Sard           5.5         Sard           0.48         Sard           5.5         <	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Loose to Very Dense		0.5           4.5           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.15           3.64           1.4           1.29           4.96	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Weily Nery High Medium Medium Medium	0.32	Sand	Very Dense	High Medium to High
25         25           23         25           24         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 256.071 256.071 255.023 255.027 255.023 255.027 257.058 278.071 279.072 278.071 279.072 278.071 279.072 279.07	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-254         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-259         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-8	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sard           1.21         Sard           0.25         Sard           0.45         Sard           0.45         Sard           0.45         Sard           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           2.09         Sand           5.32         Sand           6         Sard           0.34         Sand           6.         Sand           0.52         Sand           6.0         Sand           4.07         Sand           4.07         Sand           4.07         Sand           5.22         Sand           6.4         Sand           4.07         Sand           4.07         Sand           5.3         Sand           0.64         Sand           5.5         Sand           0.64         Sand           5.5         Sand           0.48         Sand           5.5         Sand           0.48         Sand           0.55	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense		0.5           4.5           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.15           3.64           1.4           1.29           4.96	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Weily Nery High Medium Medium Medium	0.32	Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 256.071 256.071 255.023 255.027 255.023 255.027 255.07	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-258         VC           VC-806-259         VC           VC-806-259         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sard           0.31         Sard           0.25         Sard           0.26         Gravel           0.45         Sard           0.28         Sand           0.29         Gravel           0.20         Gravel           0.3         Gravel           0.3         Gravel           2.09         Sand           5.32         Sand           6         Sard           0.34         Sard           6         Sand           0.52         Sand           6.0         Sand           4.07         Sand           6.0         Sand           4.07         Sand           5.21         Sand           6.0         Sand           4.07         Sand           4.07         Sand           5.3         Sand           0.51         Sand           5.3         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.5	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense		0.5           0.5           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.15           3.64           1.4           1.29           4.96	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Nether High Medium Medium	0.32	Sand Clay Clay Sand Sand Sand Sand Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 256.071 256.071 255.023 255.027 255.023 255.027 275.058 277.058 278.0777 278.0777 278.0777 278.0777 278.07777 278.077777 278.077777777777777777777777777777777777	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-258         VC           VC-806-259         VC           VC-806-259         VC           VC-806-259         VC           VC-806-262         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sard           0.31         Sard           0.25         Sard           0.26         Gravel           0.45         Sard           0.28         Sand           0.38         Gravel           0.45         Sand           0.38         Gravel           0.45         Sand           0.39         Gravel           2.09         Sand           6         Sand           6.312         Sand           6.4         Sand           6.5         Sand           0.52         Sand           6.0         Sand           4.07         Sand           4.07         Sand           5.22         Sand           4.07         Sand           5.37         Sand           5.47         Sand           5.5	Losse to Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Dense Very Losse to Dense Very Losse to Very Dense Losse to Very Dense Very Losse to Very Dense		0.5           0.5           1.25           1.25           1.25           1.4           1.29           4.96           0.01           4.96           1.01           4.96           1.01           4.96           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.74           4.74           4.75           5.02           0.82           0.82           0.82           4.78           4.78           0.3           1.98           4.6	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Nether High Medium Medium Medium	0.32	Sand Clay Clay Sand Sand Sand Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           26         25           27         25           28         25           29         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 251.916 253.068 254.397 254.398 255.023 255.023 255.023 255.027 257.058 278.077 278.0777 278.0777 278.0777 278.0777 278.0777 278.07777 278.07777 278.0777777776 278.077777777777777777777777777777777777	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2544         VC           VC-806-2554         VC           VC-806-256         VC           VC-806-258         VC           VC-806-259         VC           VC-806-259         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         CPT           VC-806-264         CPT           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-806-276         VC	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	0.32         Sard           0.31         Sard           0.25         Sard           0.26         Gravel           0.45         Sard           0.28         Sand           0.30         Gravel           0.45         Sand           0.33         Gravel           0.45         Sand           0.30         Gravel           0.31         Gravel           0.32         Sand           6         Sand           6.31         Sand           6.4         Sand           6.5         Sand           6.0         Sand           0.77         Sand           5.3         Sand           5.47         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.5         Sand           5.52         Sand           5.53	Losse to Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Dense Very Losse to Dense Very Losse to Very Dense		0.5           0.5           1.25           1.25           1.25           1.25           1.25           1.25           1.25           1.4           1.29           4.96           0.01           4.96           1.01           4.96           1.01           4.96           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.74           4.74           4.74           4.75           5.02           0.82           0.82           4.78           0.3           1.98           4.5           4.5           4.5           4.5	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium	0.32	Sand Clay Clay Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 255.023 255.07 255.023 255.07 255.023 255.07 255.023 255.07 255.023 255.07 275.068 277.069 277.069 277.069 277.07 275.058 275.068 275.07	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-254         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-258         VC           VC-806-259         VC           VC-806-262         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         CPT           VC-806-266         CPT           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-806-276         VC           VC-	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.45         Sard           0.28         Sand           0.3         Gravel           0.45         Sand           0.3         Gravel           2.09         Sand           6         Sard           6.3         Sand           6.4         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.52         Sand           0.53         Sand           0.54         Sand           0.52         Sand           0.53         Sand           0.54         Sand           0.55         Sand           0.56         Sand           5         Sand           5         Sand           5.2         Sand           5.3         Sand           5.4         Sand           5.52         Sand           5.52         Sand           5.53	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense		0.5           0.5           1.25           1.15           3.64           1.4           1.29           4.96           0.01           4.96           1.01           4.96           1.01           4.96           1.01           4.96           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.74           4.74           4.75           5.02           0.82           0.82           0.82           4.78           0.3           1.98           4.82           4.6           4.6	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium	0.32	Sand Clay Clay Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           29         25           25         25           26         25           27         25           28         25           29         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 254.398 255.023 255.023 256.071 255.023 255.027 255.023 255.027 275.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 278.077 279.0777 279.0777 279.0777 279.0777 279.0777 279.0777 279.07777 279.07777 279.0777777777777777	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-254         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-259         VC           VC-806-260         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         CPT           VC-806-264         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC	4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.26         Gravel           0.27         Gravel           0.3         Gravel           0.3         Gravel           2.09         Sand           0.3         Gravel           0.34         Sand           6         Sard           0.34         Sand           6         Sard           0.52         Sand           0.52         Sand           0.53         Sand           0.54         Sand           0.52         Sand           0.36         Sand           0.36         Sand           0.36         Sand           0.36         Sand           0.37         Sand           0.38         Sand           0.51         Sand           5         Sand           5         Sand           5         Sand           5.22         Sand           5.33         Sand           5.43	Losse to Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Dense Very Losse to Dense Very Losse to Very Dense Losse to Very Dense Very Losse to Very Dense Very Losse to Very Dense Very Losse to Very Dense Losse to Very Dense Very Losse to Very Dense Very Losse to Very Dense Losse to Very Dense		0.5           0.5           1.25           1.15           3.64           1.29           4.96           0.01           4.96           1.01           4.96           1.01           4.96           1.01           4.96           1.01           4.96           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.94           4.74           4.74           4.75           5.02           0.82           0.82           0.82           4.72           4.78           0.3           1.99           4.82           4.6           .           .           .           .           .           .           . <tr td="">           .</tr>	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium	0.32	Sand Clay Clay Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 251.916 253.068 254.397 254.398 255.023 255.023 255.023 255.027 255.023 255.027 255.023 255.027 257.027 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 277.058 278.077 279.0777 279.0777 279.0777 279.0777 279.0777 279.07777 279.07777 279.0777777777777777777777777	CPT-806-252         CPT           VC-806-2533         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-2534         VC           VC-806-254         VC           VC-806-255         VC           VC-806-256         VC           VC-806-257         VC           VC-806-258         VC           VC-806-259         VC           VC-806-259         VC           VC-806-262         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         CPT           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-	4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.32         Sard           1.21         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.26         Gravel           0.27         Gravel           0.3         Gravel           0.3         Gravel           2.09         Sand           0.3         Gravel           0.34         Sand           6         Sard           0.34         Sand           6         Sard           0.32         Sand           0.34         Sand           0.52         Sand           0.36         Sard           0.37         Sand           0.36         Sand           0.37         Sand           0.36         Sand           0.37         Sand           0.38         Sand           0.39         Sand           5         Sand           5         Sand           5         Sand           5         Sand           5.22         Sand           5.3         Sand           5.4	Losse to Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Medium Dense Very Losse to Dense Very Losse to Dense Very Losse to Very Dense Losse to Very Dense Very Losse to Very Dense Losse to Very Dense Very Losse to Very Dense Losse to Very Dense Losse to Very Dense Losse to Very Dense		0.5           0.5           1.25           1.15           3.64           1.4           1.29           4.96           1.01           4.96           4.94	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Nether High Medium Medium Medium	0.32	Sand Clay Clay Clay Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense	High Medium to High
25         25           25         25           26         25           25         <	Medium Dense Sand with Loose Sand Veneer (0.3m) Medium Dense Sand with Loose Sand Ven	251.916 253.068 254.397 255.023 255.023 255.027 255.023 255.07 255.071 255.0671 255.0671 255.0671 255.0671 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.071 255.072 255.071 255.072 255.071 255.072 275.058 277.058 277.058 277.058 277.058 277.058 277.058 277.059 277.059 277.072 275.058 277.059 278.077 278.077 278.077 278.077 278.077 288.049 288.049 288.049 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.072 288.059 288.059 288.072 288.059 288	CPT-806-232         CPT           VC-806-233         VC           VC-806-234         VC           VC-806-235         VC           VC-806-236         VC           VC-806-262         VC           VC-806-263         VC           VC-806-263         VC           VC-806-263         VC           VC-806-264         VC           VC-806-265         VC           VC-806-266         CPT           VC-806-267         VC           VC-806-268         VC           VC-806-270         VC           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         VC           VC-806-275         VC           VC-806-276	4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.28         Sard           0.29         Gravel           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.3         Gravel           0.34         Sand           6         Sard           6.3         Sard           6.4         Sard           0.34         Sand           0.52         Sand           0.4         Sard           0.4         Sard           0.36         Sard           0.37         Sand           0.38         Sand           0.39         Sard           0.36         Sard           0.37         Sand           0.38         Sand           0.39         Sard           0.4         Sard           0.5         Sard           0.5         Sard           0.5         Sard           0.64         Sard           5.5	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Loose to Dense Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense		0.5           0.5           1.25           1.15           3.64           1.2           1.4           1.29           4.96           1.01	City City City City City City City City	Very Dense Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium Medium	0.32	Sand	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dens Sand with Loos Sand Vener (0.3m) Medium Dens Sand with	251.916 253.068 254.397 255.023 255.023 255.027 255.023 255.07 255.027 277.056 277.056 277.056 277.057 278.077 277.057 278.077 279.077 279.077 279.077 279.077 279.077 279.077 279.077 279.077 279.077	CPT-806-232         CPT           VC-806-233         VC           VC-806-234         VC           VC-806-235         VC           VC-806-235         VC           VC-806-235         VC           VC-806-236         VC           VC-806-236         VC           VC-806-236         VC           VC-806-237         VC           VC-806-236         VC           VC-806-237         VC           VC-806-263         VC           VC-806-264         CPT           VC-806-265         VC           VC-806-266         VC           VC-806-267         VC           VC-806-268         VC           VC-806-267         VC           VC-806-270         CPT           VC-806-271         VC           VC-806-272         VC           VC-806-273         VC           VC-806-274         CPT           VC-806-2	4           4           4           4           4           4           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           6           7           5           5           5           5	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.28         Sard           0.3         Gravel           0.45         Sard           0.3         Gravel           0.45         Sard           0.3         Gravel           0.03         Gravel           0.04         Sard           6         Sard           6.3         Sard           6.4         Sard           0.51         Sard           6.5         Sard           6.6         Sard           6.7         Sard           6.8         Sard           6.9         Sard           6.9         Sard           6.9         Sard           6.9         Sard           6.9         Sard           6.9         Sard           7.7         Sard           7.7         Sard           7.7         Sard           7.7         Sard           7.7         Sard           7.7 <td< td=""><td>Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense</td><td></td><td>0.5           0.5           1.25           1.15           3.64           1.29           4.96           1.01          </td><td>City City City City City City City City</td><td>Very Dense Very Dense</td><td>High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium Medium</td><td>0.32</td><td>Sand Clay Clay Clay Clay Clay Clay Clay Clay</td><td>Very Dense</td><td>High Medium to High</td></td<>	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense		0.5           0.5           1.25           1.15           3.64           1.29           4.96           1.01	City City City City City City City City	Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium Medium	0.32	Sand Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense	High Medium to High
25         25           25         25           26         25           27         25           28         25           25         <	Medium Dens Sand with Loos Sand Vener (0.3m) Medium Dens Sand with	251.916 253.068 254.397 255.023 255.023 255.027 277.058 277.058 277.058 277.058 277.059 278.077 278.077 278.077 278.077 278.077 278.059 278.077 278.059 288.059 288.059 299.05	CPT-806-232         CPT           VC-806-233         VC           VC-806-234         VC           VC-806-235         VC           VC-806-236         VC           VC-806-237         VC           VC-806-263         VC           VC-806-264         VC           VC-806-265         VC           VC-806-267         VC           VC-806-268         VC           VC-806-270         CPT           VC-806-270         CPT           VC-806-270         CPT           VC-806-270         CPT           VC-806-270         VC           VC-806-270         VC           VC-806-270         VC           VC-806-	4           4           4           4           4           4           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           6           7           7           7           7           7           7           6	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Sard           0.45         Sard           0.45         Sard           0.28         Sard           0.3         Gravel           0.45         Sard           0.3         Gravel           2.09         Sard           6         Sard           6.3         Sard           6.4         Sard           6.5         Sard           6.5         Sard           6.5         Sard           6.6         Sard           6.7         Sard           6.8         Sard           6.9         Sard           6.9         Sard           6.9         Sard           6.9         Sard           6.9         Sard           7         Sard           8.9         Sard           9.32         Sard           9.32         Sard           9.33         Sard           9.34         Sard           9.35         Sard           9.36         Sar	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense		0.5           0.5           1.25           1.15           3.64           1.29           4.96           1.01	City City City City City City City City	Very Dense	High to Very High Very High High to Very High Medium High to Very High Nether High Medium Medium Medium Medium	0.32	Sand Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense	High Medium to High
25	Medium Dens Sand with Loos Sand Vener (0.3m) Medium Dens Sand with	251.916 253.068 254.397 255.023 255.023 255.07 277.056 277.056 277.056 277.057 277.057 277.057 277.057 277.057 277.07 275.068 277.07 275.068 277.07 275.068 277.07 275.068 277.07 275.068 277.07 278.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 279.071 2	CPT-806-232         CPT           VC-806-233         VC           VC-806-234         CPT           VC-806-235         VC           VC-806-236         VC           VC-806-237         VC           VC-806-263         VC           VC-806-264         VC           VC-806-265         VC           VC-806-266         VC           VC-806-277         VC           VC-806-278         VC           VC-806-277         VC           VC-806-278         VC           VC-806-277         VC           VC-806-278         VC           VC-806-277         VC           VC-806-278         VC           VC-806-277	4           4           4           4           4           4           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           5           6           7           7           7           7           6           6           7           7	0.32         Sard           0.31         Sard           0.25         Sard           0.25         Gravel           0.45         Sard           0.28         Gravel           0.3         Gravel           0.3         Gravel           2.09         Sard           5.12         Sard           6         Sard           6.3         Sard           6.4         Sard           6.5         Sard           6.6         Sard           6.7         Sard           6.8         Sard           6.9         Sard           6.132         Sard           6.337         Sard           7.37         Sard           4.47         Sard           4.47         Sard           5.47         Sard           5.47         Sard           6.4         Sard           6.4         Sard           6.4         Sard           5.2         Sard           5.2         Sard           5.3         Sard           5.47         Sard           5.58	Loose to Dense Very Loose to Medium Dense Very Loose to Medium Dense Very Loose to Dense Uvery Loose to Dense Very Loose to Dense Very Loose to Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense Loose to Very Dense Very Loose to Very Dense		0.5           0.5           1.55           1.15           3.64           1.23           1.4           1.29           4.96           1.01	City City City City City City City City	Very Dense	High to Very High Very High High to Very High Medium High to Very High Very High Medium Medium Medium	0.32	Sand Clay Clay Clay Clay Clay Clay Clay Clay	Very Dense	High Medium to High

| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 301.14  
   
  | VC-B07-301  | VC  | 5  | 5.6   
   | Sand  
  |                            |   |  |  |           
   |   |
|--|---
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---|---|--
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--|----------------------------
---|--|--|---|---|
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 302.07  
   
  | VC-B07-302  | VC  | 5  | 5.42  
   | Sand  
  | Looro to Veni Donro        |   | 4.24   | 5 and  | Depro to
Very Depro   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 302.07  
   
  | VC-B07-303  | VC  | 5  | 5.68  
   | Sand  
  | Loose to very belise       |   | 4.34   | Salit  | Dense to
very bense   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 304.068   
   
  | VC-B07-304  | VC  | 5  | 5.89  
   | Sand  
  | Looro to Veni Denro        |   | 4 79   | Sand   | Depre to
Very Depre   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 305.07  
   
  | VC-B07-305  | VC  | 5  | 6   
   | Sand  
  | couse to very bense        |   | 4.70   | Salio  | Dense to
very bense   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 306.07  
   
  | CPT-B07-306<br>VC-B07-306   | CPT<br>VC   | 5  | 1.18  
   | Sand  
  | Loose to Dense             |   | 4  | Sand   | Dense to
Very Dense   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 307.172   
   
  | VC-B07-307  | VC  | 5  | 5.96  
   | Sand  
  |                            |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (U.sm)<br>Medium Dense Sand with Loose Sand Veneer (0.sm)  | 308.069   
   
  | VC-B07-308  | VC  | 7  | 5.94  
   | Sand  
  | Medium Dense to Dense      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 309.072   
   
  | VC-B07-309  | VC  | 7  | 6   
   | Sand  
  | Medium Depre to Depre      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 310.009   
   
  | VC-B07-310  | VC  | 7  | 5.96  
   | Sand  
  | Medium Dense to Dense      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 311.07  
   
  | VC-B07-311  | VC  | 7  | 6   
   | Sand  
  | Medium Denre te Denre      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 311.826   
   
  | VC-B07-312  | VC  | 7  | 6   
   | Sand  
  | Wedidin Dense to Dense     |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 313.07  
   
  | VC-B07-313<br>CPT-B07-314   | VC<br>CPT   | 7  | 5.81  
   | Sand  
  | Very Loose to Medium Dense |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 313.623   
   
  | VC-B07-314  | VC  | 7  | 6   
   | Sand  
  | Very cook to mediam benke  |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 315.07<br>316.067   
   
  | VC-B07-315<br>CPT-B07-316   | VC<br>CPT   | 7 7  | 6<br>5.18   
   | Sand  
  | Very Loose to Medium Dense |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 316.07  
   
  | VC-B07-316  | VC  | 7  | 6   
   | Sand  
  |                            |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 317<br>318.07   
   
  | VC-B07-317<br>VC-B07-318  | VC<br>VC  | 7 7  | 4.13  
   | Sand  
  |                            |   | 0.73   | Silt   |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 318.071   
   
  | CPT-B07-318   | CPT   | 7  | 5.26  
   | Sand  
  | Loose to Medium Dense      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 320.069   
   
  | CPT-B07-320   | CPT   | 7  | 5.3   
   | Sand  
  | Very Loose to Dense        |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 320.07  
   
  | VC-B07-320<br>VC-B07-321  | VC  | 7  | 4.25  
   | Sand  
  |                            |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 322.07  
   
  | VC-B07-322  | VC  | 7  | 6   
   | Sand  
  |                            |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 322.07  
   
  | CPT-B07-322<br>VC-B07-323   | CPT<br>VC   | 7  | 5.26  
   | Sand  
  | Loose to Medium Dense      |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)   | 323.788   
   
  | VC-B07-324  | VC  | 7  | 5.54  
   | Sand  
  |                            |   |  |  |           
   |   |
| 25   | Medium Dense Sand with Loose Sand Veneer (0.3m)<br>Medium Dense Sand with Loose Sand Veneer (0.3m)  | 323.788<br>325.07   
   
  | VC-B07-325  | VC  | 7  | 5.26  
   | Sand  
  | Loose to Medium Dense      |   |  |  |           
   |   |
| 26   | Very Loose Sand   | 326.07  
   
  | CPT-B07-326   | CPT   | 8  | 5.26  
   | Sand  
  | Very Loose to Medium Dense |   |  |  |           
   |   |
| 26   | Very Loose Sand<br>Very Loose Sand  | 326.072   
   
  | VC-B07-326<br>VC-B07-327  | VC  | 8  | 5.58  
   | Sand  
  |                            |   |  |  |           
   |   |
| 26   | Very Loose Sand   | 328.07  
   
  | VC-B07-328  | VC  | 8  | 5.36  
   | Sand  
  | Vanul agra ta Loora        |   |  |  |           
   |   |
| 20   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 329.07  
   
  | VC-B07-329  | VC  | 8  | 5.47  
   | Silty Sand  
  | very couse to couse        | Extremely Low   |  |  |           
   |   |
| 27<br>27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 330.071<br>330.071  
   
  | VC-B07-330<br>CPT-B07-330   | VC<br>CPT   | 8  | 5.95<br>1.46  
   | Silty Sand<br>Silty Sand  
  |                            | Extremely Low<br>Very Low with Extremely Low Veneer (0.3m)  | 3.8  | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 331.11  
   
  | VC-B07-331  | VC  | 8  | 6   
   | Silty Sand  
  |                            | Extremely Low   |  |  | . ,       
   |   |
| 27   | very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 332.09<br>332.091   
   
  | VL-B07-332<br>CPT-B07-332   | VC<br>CPT   | 8  | 6<br>1.44   
   | Silty Sand<br>Silty Sand  
  |                            | Extremely Low<br>Very Low with Extremely Low Veneer (0.3m)  | 3.82   | Sand   | Very Loose
to Loose   | L |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 333.072   
   
  | VC-B07-333  | VC  | 8  | 5   
   | Sand  
  |                            |   |  |  |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 334.07  
   
  | VC-BU7-334<br>CPT-B07-334   | CPT   | 8  | 1.78  
   | Sand<br>Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.3m)   | 3.64   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 335.071   
   
  | VC-B07-335  | VC<br>CPT   | 8  | 5.87  
   | Silty Sand  
  |                            | Extremely Low   | 3 88   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 336.071   
   
  | VC-B07-336  | VC  | 8  | 5.87  
   | Silty Sand  
  |                            | Extremely Low Veneer (0.5m)   | 3.00   | 3010   | very couse
to couse   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 337.07  
   
  | VC-B07-337<br>CPT-R07-338   | VC<br>CPT   | 8  | 5.98  
   | Silty Sand  
  |                            | Extremely Low<br>Very Low with Extremely Low Veneer (0.3m)  | 3.9  | Sand   | Very Loose
to Loose   | - |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 338.071   
   
  | VC-B07-338  | VC  | 8  | 0.99  
   | Silty Sand  
  |                            | Extremely Low   | 5.01   | Sand   |           
   |   |
| 27 27  | very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 339.071<br>340.068  
   
  | VC-B07-339<br>VC-B07-340  | VC<br>VC  | 8  | 0.95  
   | Silty Sand<br>Silty Sand  
  |                            | Extremely Low   | 5.05<br>4.8  | Sand<br>Sand   |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 340.069   
   
  | CPT-B07-340   | CPT   | 8  | 2.04  
   | Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.3m)   | 2.34   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 341.07<br>342.07  
   
  | VC-B07-341<br>VC-B07-342  | VC  | 8  | 0.94  
   | Silty Sand  
  |                            | Extremely Low<br>Extremely Low  | 4.96   | Sand   |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 342.07  
   
  | CPT-B07-342   | CPT   | 8  | 1.52  
   | Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 3.86   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Sity Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 343.07  
   
  | CPT-B07-344   | CPT   | 8  | 1.52  
   | Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 3.86   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 344.073   
   
  | VC-B07-344<br>VC-B07-345  | VC<br>VC  | 8  | 0.9   
   | Silty Sand  
  |                            | Extremely Low<br>Extremely Low  | 5.1  | Sand   |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 346.07  
   
  | VC-B07-346  | VC  | 8  | 0.88  
   | Silty Sand  
  |                            | Extremely Low   | 4.39   | Sand   |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 346.07  
   
  | CPT-B07-346<br>VC-B07-347B  | CPT<br>VC   | 8  | 1.6   
   | Silty Sand<br>Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 2.26   | Sand   | Very Loose
to Loose   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 348.069   
   
  | CPT-B07-348   | CPT   | 8  | 3.82  
   | Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 1.58   | Sand   | Medium
Dense to Very Dense  |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (U.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 348.07<br>349.07  
   
  | VC-B07-348<br>VC-B07-349  | VC  | 8  | 4.87<br>5.49  
   | Silty Sand<br>Sand  
  |                            |   |  |  |           
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)   | 350.068   
   
  | VC-B07-350<br>CRT-B07-350   | VC  | 8  | 5.6   
   | Sand<br>Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 1 3/   | Sand   | Very Dense
   |   |
| 27   | Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low to Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 351.071   
   
  | VC-B08-351  | VC  | 7  | 5.98  
   | Sand  
  |                            | very cow war extremely cow veneer (0.4m)  | 1.57   | 3010   | Very benae
   |   |
| 27   | Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)  | 352.068   
   
  | CPT-B08-352<br>VC-B08-352   | CPT<br>VC   | 7 9  | 3.58  
   | Silty Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Extremely Low  | 1.76   | Sand<br>Gravelly Clay  | Dense     
   |   |
|  | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)  | 352.766   
   
  | VC-B08-353  | VC  | 8  | 2.81  
   | Sandy Clay  
  |                            | Extremely Low   | 0.99   | Sandy Gravel   |           
   |   |
| 28   |   |   
   
  |   | VC  | 0  | r .   
   | 6 1 61  
  |                            | Vondow  |  |  |           
   |   |
| 28<br>28<br>28<br>28   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)  | 354.069   
   
  | VC-B08-354<br>CPT-B08-354   | CPT   | 8  | 3.26  
   | Sandy Clay<br>Sandy Clay  
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 2 14   | Sand   | Dense     
   |   |
| 28<br>28<br>28<br>28<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 354.069<br>354.069<br>355.069   
   
  | VC-808-354<br>CPT-808-354<br>VC-808-355   | CPT<br>VC   | 8  | 3.26<br>5   
   | Sandy Clay<br>Sandy Clay<br>Coarse Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)   | 2.14   | Sand   | Dense     
   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)<br>Very Low Strength Silty Sand with Extremely Low Strength Veneer (0.4m)  | 354.069<br>354.069<br>355.069<br>356.068<br>356.07  
   
  | VC-B08-354<br>CPT-B08-354<br>VC-B08-355<br>CPT-B08-356<br>VC-B08-356  | CPT<br>VC<br>CPT<br>VC  | 8<br>8<br>8<br>9   | 3.26<br>5<br>2.94<br>4.86   
   | Sandy Clay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Very Low with Extremely Low Veneer (0.5m)<br>Extremely Low   | 2.14   | Sand<br>Sand   |
Dense<br>Dense  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)  | 354.069<br>354.069<br>355.069<br>356.068<br>356.07<br>357.069   
   
  | VC-808-354<br>CPT-808-354<br>VC-808-355<br>CPT-808-356<br>VC-808-356<br>VC-808-357<br>CPT-808-357   | CPT<br>VC<br>CPT<br>VC<br>VC<br>VC  | 8<br>8<br>8<br>9<br>9<br>9   | 3.26<br>5<br>2.94<br>4.86<br>3.64   
   | Sandy Clay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Very Low with Extremely Low Veneer (0.5m)<br>Extremely Low<br>Very Low<br>Very Low   | 2.14<br>2.18   | Sand<br>Sand   |
Dense<br>Dense  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)<br>Very Low Strength Sindy Sand with Extremely Low Strength Veneer (LAm)   | 354.069<br>354.069<br>355.069<br>356.068<br>356.07<br>357.069<br>358.068<br>358.07  
   
  | VC-B08-354<br>CPT-B08-354<br>VC-B08-355<br>CPT-B08-356<br>VC-B08-356<br>VC-B08-357<br>CPT-B08-358<br>VC-B08-358   | CPT<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>CPT<br>VC  | 8<br>8<br>8<br>9<br>9<br>9<br>8<br>8<br>9  | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51   
   | Sandy Clay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Very Low with Extremely Low Veneer (0.5m)<br>Extremely Low<br>Very Low<br>Very Low with Extremely Low Veneer (0.5m)<br>Very Low with Extremely Low Veneer (0.5m)   | 2.14<br>2.18<br>3.04   | Sand<br>Sand<br>Sand   |
Dense<br>Dense<br>Dense to Very Dense   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)  | 354.069<br>354.069<br>355.069<br>356.068<br>356.07<br>357.069<br>358.068<br>358.07<br>359.072<br>360.069  
   
  | VC-B08-354<br>CPT-B08-354<br>VC-B08-355<br>CPT-B08-356<br>VC-B08-356<br>VC-B08-357<br>CPT-B08-358<br>VC-B08-358<br>VC-B08-359<br>CPT-B08-350  | CPT<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC   | 8<br>8<br>9<br>9<br>8<br>8<br>9<br>8<br>8<br>9<br>8<br>8<br>8<br>8<br>8  | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34   
   | Sandy Clay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Very Low with Extremely Low Veneer (0.5m)<br>Extremely Low<br>Very Low<br>Very Low with Extremely Low Veneer (0.5m)<br>Very Low<br>Very Low<br>Very Low<br>Very Low<br>Very Low  | 2.14<br>2.18<br>3.04   | Sand<br>Sand<br>Sand   | Dense
Dense Dense Dense to Very Dense Dense to Very Dense   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sinty Sand with Extremely Low Strength Veneer (0.Am)  | 354.069<br>355.069<br>355.068<br>356.07<br>357.069<br>358.068<br>358.07<br>359.072<br>360.069<br>360.07   
   
  | VC-808-354<br>CPT-808-355<br>CPT-808-355<br>CPT-808-356<br>VC-808-357<br>CPT-808-358<br>VC-808-357<br>CPT-808-358<br>VC-808-359<br>CPT-808-360<br>VC-808-360  | CPT<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>CPT<br>VC   | 8<br>8<br>8<br>9<br>9<br>8<br>9<br>9<br>8<br>8<br>8<br>8<br>8<br>8<br>9<br>9   | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34<br>1.35   
   | Sandy Liay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand   
  |                            | Very Low with Extremely Low Veneer (0.4m)<br>Very Low with Extremely Low Veneer (0.5m)<br>Extremely Low Veneer (0.5m)<br>Very Low<br>Very Low   | 2.14<br>2.18<br>3.04<br>2.84<br>0.9  | Sand<br>Sand<br>Sand<br>Sand<br>Clay   | Dense Dense Dense Dense to Very Dense Dense to Very Dense   
   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30   | Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Veneer (0.Am)<br>Very Low Strength Sing Sand Clay<br>Very Low Strength Sing Sand Clay  | 354.069<br>355.069<br>355.069<br>355.068<br>356.07<br>357.069<br>358.068<br>358.07<br>359.072<br>360.069<br>360.07<br>361.07<br>361.07  
   
  | VC-808-354<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>VC-808-356<br>VC-808-357<br>CPT-808-358<br>VC-808-358<br>VC-808-359<br>CPT-808-360<br>VC-808-360<br>VC-808-361<br>VC-808-362   | CPT<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC   | 8<br>8<br>9<br>9<br>8<br>9<br>9<br>8<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9  | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1  
   | Sandy Liay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Clay<br>Clay<br>Sandy Clay   
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low   | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.19   | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Peat   | Dense<br>Dense<br>Dense to Very Dense<br>Dense to Very Dense   
  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>30   | Very Low Strength Sandy Clay with Externely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand Clay<br>Very Low Strength Sing Sand Clay<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)  | 354.069<br>354.069<br>355.069<br>355.069<br>356.07<br>357.069<br>358.068<br>358.07<br>358.072<br>360.069<br>360.07<br>361.07<br>362.055<br>362.069  
   
  | VC-808-354<br>CPT-806-354<br>VC-808-355<br>CPT-808-355<br>CPT-808-355<br>VC-808-357<br>CPT-808-358<br>VC-808-358<br>VC-808-358<br>VC-808-358<br>VC-808-360<br>VC-808-360<br>VC-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-362<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-355<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-356<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-360<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT-808-350<br>CPT   | CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC  | 8<br>8<br>9<br>9<br>9<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9  | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1<br>2.1<br>2.1<br>2.1   
   | Sandy Liay<br>Sandy Clay<br>Coarse Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Silty Sand<br>Clay<br>Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay   
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Very Low Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low Veneer (0.4m)   | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.19<br>0.3  | Sand<br>Sand<br>Sand<br>Clay<br>Clay<br>Sand<br>Peat<br>Peat   | Dense Dense Dense Dense to Very Dense Dense to Very Dense       
   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>31<br>31<br>31   | Very Low Strength Sandy Clay with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Venere (0.Am)  | 354.069<br>354.069<br>355.069<br>355.069<br>355.068<br>355.069<br>355.069<br>355.069<br>355.069<br>358.07<br>359.072<br>360.069<br>360.079<br>361.07<br>362.055<br>362.059<br>362.825<br>364.069  
   
  | VC-808-354<br>CPT-808-354<br>VC-808-355<br>CPT-808-356<br>VC-808-355<br>VC-808-356<br>VC-808-358<br>VC-808-358<br>VC-808-358<br>VC-808-358<br>VC-808-361<br>VC-808-361<br>VC-808-361<br>VC-808-362<br>VC-808-363  | CPT<br>VC<br>CPT<br>VC<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC   | 8<br>8<br>9<br>9<br>8<br>9<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8  | 3<br>3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1<br>2.1<br>2.1<br>2.1<br>2.1<br>1.13<br>1.8  
   | Sandy City<br>Sandy City<br>Coarte Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>City<br>Sandy City<br>Sandy City<br>City<br>Sandy City<br>Sandy City<br>City<br>Sandy City<br>City<br>City<br>City<br>City<br>City<br>City<br>City  
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low Wery Low Very Low Very Low Wery Low Wery Low Very Low Wery Low Wery Low Wery Low Very Low Wery Low With Extremely Low Very Low With Extremely Low Veneer (0.4m) Extremely Low   | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>3.58  | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Peat<br>Peat<br>Sandy Clay<br>Silty Sand   | Dense<br>Dense<br>Dense to Very Dense<br>Dense to Very Dense<br>Dense to Very Dense  
  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>30<br>31<br>31<br>31<br>31<br>32   | Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)  | 354.069<br>354.069<br>355.069<br>355.069<br>356.068<br>356.07<br>358.068<br>358.07<br>358.07<br>359.072<br>360.069<br>360.07<br>361.07<br>362.055<br>362.055<br>362.059<br>362.825<br>364.07<br>364.07<br>365.07   | VC-B08-354<br>CPT-808-354<br>VC-B08-355<br>VC-B08-355<br>VC-B08-356<br>VC-B08-356<br>VC-B08-357<br>VC-B08-358<br>VC-B08-358<br>VC-B08-350<br>VC-B08-350<br>VC-B08-360<br>VC-B08-360<br>VC-B08-362<br>VC-B08-362<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364<br>VC-B08-364   | CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC   | 8<br>8<br>9<br>9<br>8<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 3.26<br>5<br>2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1<br>2.1<br>2.1<br>2.1<br>1.13<br>1.8<br>2.22<br>2<br>2  | Sandy City<br>Sandy City<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>City<br>Sandy City<br>Sandy City  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low  | 2.14<br>2.18<br>2.84<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>3.58<br>1.96<br>3.02  | Sand<br>Sand<br>Sand<br>City<br>Sand<br>City<br>Sand<br>Peat<br>Sandy City<br>Sand<br>Sand<br>Sand<br>Sand   | Dense<br>Dense<br>Dense to Very Dense<br>Dense to Very Dense<br>Dense to Very Dense   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>30<br>31<br>31<br>31<br>31<br>31<br>32<br>32<br>32   | Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand Vereer (0.Am)<br>Very Low Strength Clay  | 354.069<br>354.069<br>355.069<br>355.069<br>356.068<br>356.07<br>358.068<br>358.07<br>358.07<br>358.07<br>358.07<br>360.07<br>360.07<br>361.07<br>362.055<br>362.055<br>362.059<br>362.825<br>364.07<br>365.07<br>365.07<br>365.07  
   
  | VC-808-354<br>CPT-808-354<br>VC-808-355<br>VC-808-355<br>VC-808-356<br>VC-808-357<br>CPT-808-358<br>VC-808-358<br>VC-808-359<br>VC-808-359<br>VC-808-350<br>VC-808-360<br>VC-808-362<br>VC-808-362<br>VC-808-364<br>VC-808-364<br>VC-808-365<br>VC-808-366  | CPT<br>VC<br>CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC   | 8           8           9           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8  | 3         3.26           5         2.94           4.86         3.64           2.38         5.51           5.49         2.34           1.35         2.1           2.1         1.13           1.8         2.22           2         1.6  
   | Sandy Cay<br>Sandy Cay<br>Colling Sand<br>Silly Sand<br>Silly Sand<br>Silly Sand<br>Silly Sand<br>Silly Sand<br>Silly Sand<br>Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Clay<br>Clay<br>Clay<br>Clay  
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low   | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.3<br>0.3<br>2.24<br>3.58<br>1.96<br>3.02<br>2.26<br>3.02<br>2.26   | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Peat<br>Sandy Clay<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense<br>Dense<br>Dense to Very Dense<br>Dense to Very Dense<br>Dense to Very Dense  
  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>30<br>30<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>31<br>32<br>32<br>32<br>33   | Very Low Strength Sandy Clay with Externely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)  | 354.069<br>354.069<br>355.069<br>356.07<br>356.07<br>356.07<br>358.07<br>358.07<br>360.069<br>360.07<br>361.07<br>361.07<br>361.07<br>362.055<br>362.059<br>364.07<br>365.07<br>365.07<br>366.07<br>366.07<br>366.07<br>366.07  
   
  | VC-B08-354<br>CPT-808-354<br>VC-808-355<br>VC-808-356<br>VC-808-356<br>VC-808-357<br>CPT-808-358<br>VC-808-357<br>VC-808-357<br>VC-808-358<br>VC-808-358<br>VC-808-358<br>VC-808-362<br>VC-808-361<br>VC-808-362<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-36   | CPT<br>VC<br>CPT<br>VC<br>CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC  | 8           8           9           9           8           9           8           9           8           9           9           9           8           9  | 3 3.6<br>5 2.94<br>4.86<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1<br>2.1<br>1.13<br>1.8<br>2.22<br>2<br>1.6<br>1.52<br>2.2   
   | Sandy City<br>Sandy City<br>Coarte Say<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sity Sand<br>City<br>City<br>City<br>City<br>City<br>City<br>City<br>Sity Sand  
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low   | 2.14<br>2.18<br>3.04<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>3.58<br>3.02<br>2.26<br>3.02<br>2.26<br>3.37<br>2.26  | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Deat<br>Peat<br>Sandy Clay<br>Silty Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense   
  |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>31<br>31<br>31<br>31<br>32<br>32<br>33<br>33<br>33   | Very Low Strength Sandy Clay with Externely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)  | 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   | Sandy Cay<br>Sandy Cay<br>Coarte Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Cay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Cay<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay<br>C  
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.4m) Very Low Very Low Veneer (0.4m)   | 2.14<br>2.18<br>3.04<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>3.58<br>1.06<br>3.02<br>2.24<br>3.69<br>3.02<br>3.7<br>3.7<br>2.96<br>0.78  | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Peat<br>Peat<br>Sandy Clay<br>Silty Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Dense Very Loose to Dense   
   |   |
| 28           28           28           28           28           29           29           29           29           29           29           30           30           31           31           32           32           33           33           33           34   | Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sindy Sand With Extremely Low Strength V            | 354.069           354.069           355.069           355.069           356.07           355.068           356.07           357.069           358.07           357.069           358.07           358.07           359.072           360.07           361.07           362.055           362.055           364.069           364.07           365.07           365.07           366.07           366.07           366.07           368.07           368.07           368.07           368.072           368.072  | VC-808-354<br>CPT-808-354<br>VC-808-355<br>VC-808-356<br>VC-808-356<br>VC-808-357<br>CPT-808-358<br>VC-808-357<br>VC-808-358<br>VC-808-358<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-364<br>VC-808-365<br>VC-808-365<br>VC-808-366<br>VC-808-368<br>VC-808-368  | CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC  | 8<br>8<br>9<br>9<br>8<br>8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9   | 3 3.26<br>3 3.26<br>2.94<br>4.66<br>3.64<br>2.38<br>5.51<br>5.49<br>2.34<br>1.35<br>2.1<br>2.1<br>2.1<br>2.1<br>1.13<br>1.8<br>2.22<br>2.2<br>1.6<br>1.52<br>2.2<br>1.4<br>1.34<br>1.2  | Sandy City<br>Sandy City<br>Sandy City<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>Sithy Sand<br>City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sithy Sand<br>City<br>City<br>Sithy Sand<br>City<br>Sithy Sand<br>Sithy Sand   |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low  | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>2.85<br>1.06<br>3.02<br>2.06<br>3.7<br>2.96<br>3.7<br>2.96<br>0.78<br>2.05<br>3.05  | Sand<br>Sand<br>Sand<br>Cay<br>Peat<br>Peat<br>Sandy Cay<br>Sity Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand  | Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Dense Very Losse to Dense   |   |
| 28<br>28<br>28<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>29<br>30<br>30<br>30<br>30<br>30<br>31<br>31<br>31<br>31<br>31<br>32<br>32<br>32<br>33<br>33<br>33<br>34<br>34<br>34<br>34   | Very Low Strength Sandy Clay with Externely Low Strength Vereer (0.Am)<br>Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing Low Very Low Strength Vereer (0.Am)<br>Very Low Strength Sing Sand with Stremely Low Strength Vereer (0.Am)<br>Very Low Strength Sing San         | 354.069           354.069           353.069           355.069           356.07           356.08           356.06           355.069           358.07           356.08           356.07           358.07           350.072           360.073           360.073           360.073           360.069           360.073           362.053           362.053           362.069           362.073           366.069           366.071           368.072           368.072           368.072           368.072           369.069           370.069           370.069  
   
  | VC-808-354<br>CPT-808-354<br>VC-808-355<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-357<br>VC-808-358<br>VC-808-358<br>VC-808-359<br>VC-808-350<br>VC-808-350<br>VC-808-350<br>VC-808-350<br>VC-808-350<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-356<br>VC-808-357<br>VC-808-356<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357<br>VC-808-357   | CPT<br>VC<br>CPT<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC<br>VC  | 8           8           9           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           8           8           9           2           7           7           6  | 3 26<br>3 26<br>2 94<br>3 64<br>3 86<br>3 54<br>3 54<br>2 38<br>5 31<br>5 49<br>2 34<br>1 35<br>2 1<br>2 1<br>1 13<br>1 8<br>2 22<br>2 2<br>1 6<br>1 52<br>2 2<br>1 4<br>1 4<br>1 2<br>4 6<br>6 5<br>5 5<br>2 1<br>2 1<br>2 1<br>2 1<br>2 1<br>2 1<br>2 1<br>2 1  
   | Sandy Cay<br>Sandy Cay<br>Control Cay<br>Control Cay<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Cay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sandy Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Clay<br>Sity Sand<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay<br>Clay  
  |                            | Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low  | 2.14<br>2.18<br>3.04<br>2.84<br>0.9<br>3.1<br>0.19<br>0.3<br>2.24<br>3.58<br>1.96<br>2.26<br>3.76<br>0.78<br>2.26<br>0.78<br>2.15<br>3.05<br>4.78  | Sand<br>Sand<br>Sand<br>City<br>Sand<br>City<br>Sand<br>Peat<br>Peat<br>Sandy Clay<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Dense Very Losse to Dense   
   |   |
26           28           28           29           29           29           29           29           29           30           30           30           31           31           32           32           33           33           34           34           35           35	Very Low Strength Sandy Clay with Externely Low Strength Vereer (0.Am) Very Low Strength Sandy Clay with Extremely Low Strength Vereer (0.Am) Very Low Strength Sindy Claim with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand With Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand Yalay with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand Yalay with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand Yalay with Extremely Low Strength Vereer (0.Am) Very Low Strength Sing Sand Yalay with Extremely Low Strength Ve	354.069           354.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.072           360.07           360.07           361.07           362.069           364.07           366.069           366.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           370.069           370.069           370.067	VC-808-354 CPT-806-354 VC-808-355 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-357 VC-808-357 VC-808-361 CPT-808-362 CPT-808-362 CPT-808-362 CPT-808-363 CPT-808-364 VC-808-357 VC-808-357 VC-808-357 VC-808-357 VC-808-358 VC-80	CPT VC CPT VC VC VC VC VC VC VC VC VC VC VC VC VC	8           8           9           8           9           8           9           8           9           8           9           9           8           9           9           8           9           8           9           8           8           8           9           7           7           6           6	3 26 5 25 4 26 3 46 3 46	Sandy City Sandy City Coarte Say Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand City Sandy City Sandy City Sandy City Sandy City Sandy City Sity Sand City City City City City City City City		Very Low with Extremely Low Veneer (0.4m) Very Low with Extremely Low Veneer (0.5m) Extremely Low Veneer (0.5m) Very Low with Extremely Low Veneer (0.5m) Very Low Veney Low Veneer (0.5m) Veney Low Veney Low Veneer (0.5m) Veney Low Veney Low Veneer (0.5m) Veney Low Veneer (0.5m) Veney Low Veneer Low Veneer (0.5m) Vene	2.14 2.18 2.18 2.84 0.9 3.1 0.19 0.3 2.24 3.58 1.06 3.02 2.26 3.7 2.26 0.78 2.26 0.78 2.15 3.05 4.78 4.1	Sand Sand Sand City Sand City Sand Peat Peat Sand Sand Sand Sand Sand Sand Sand Sand	Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Dense Very Dense Very Losse to Dense Medium Dense to Very Dense	
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28           28           28           28           29           29           29           29           29           29           29           30           31           31           31           32           33           33           33           33           33           34           34           35           35           35           35           35	Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sindy Clay with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Sand with Extremely Low Strength Veneer (0.Am) Very 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   | Sandy City<br>Sandy City<br>Coarte Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>Sity Sand<br>City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sandy City<br>Sity Sand<br>City<br>City<br>City<br>City<br>City<br>City<br>City<br>City  
  |                            | Very Low with Externety Low Veneer (0.4m)<br>Very Low with Externety Low Veneer (0.5m)<br>Externety Low<br>Very Low<br>Very Low<br>Very Low With Externety Low Veneer (0.5m)<br>Very Low with Externety Low Veneer (0.5m)<br>Very Low with Externety Low Veneer (0.4m)<br>Very Low Very Low<br>Very Low Very Low Veneer (0.4m)<br>Externety Low<br>Very Low Very Low Veneer (0.4m)<br>Very Low With Externety Low Veneer (0.4m)<br>Very Low Wery Low Veneer (0.4m)<br>Very Low With Externety Low Veneer (0.4m)<br>Very Low With Externety Low Veneer (0.4m)<br>Very Low Wery Low Veneer (0.4m)<br>Very Low Vene Veneor<br>Very Low Very Low Veneer (0.4m)<br>Very Low Very Low Veneer (0.4m)   | 2.14<br>2.18<br>3.04<br>2.84<br>0.0<br>0.10<br>0.10<br>0.3<br>1.06<br>0.3<br>2.24<br>3.02<br>2.24<br>3.02<br>2.24<br>3.02<br>2.26<br>3.7<br>2.36<br>0.78<br>2.15<br>3.05<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>4.1<br>0.55<br>0.54<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55<br>0.55             | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Deat<br>Peat<br>Peat<br>Sandy Clay<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Losse to Dense Medium Dense to Very Dense Very Dense  
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377.79           375.196           376.071           377.071           378.072           378.072           378.072	VC-808-354 VC-808-354 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-359 VC-808-359 VC-808-359 VC-808-350 VC-808-350 VC-808-361 VC-808-362 VC-808-362 VC-808-362 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-376 VC-808-372 VC-808-374 VC-808-374 VC-808-376 VC-808-378	CPT           VC	8           8           9           8           9           8           9           8           9           8           9           8           9           9           8           9           8           9           8           9           8           9           8           9           6           7           6           8           8           7           8           8           8           8           8           8           8           8           8           8           8           8           8           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   366.07           366.069           370.069           370.069           370.07           371.07           370.07           371.07           372.060           372.07           372.07           372.07           372.07           372.07           372.07           372.07           372.07           372.07           372.07           372.07	VC-808-354 VC-808-354 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-360 VC-808-360 VC-808-360 VC-808-360 CPT-808-364 VC-808-363 CPT-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-364 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-808-378 VC-8	CPT VC VC VC VC VC VC VC VC VC VC VC VC VC	8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           10           11           12      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  |                            | Very Low with Externet/ Low Veneer (0.4m)<br>Very Low with Externet/ Low Veneer (0.5m)<br>Externet/ Low<br>Very Low<br>Very Low<br>Very Low<br>Very Low Wh Externet/ Low Veneer (0.5m)<br>Very Low with Externet/ Low Veneer (0.5m)<br>Very Low With Commit Low<br>Very Low Veneer (0.5m)<br>Very Low With Externet/ Low Veneer (0.4m)<br>Very Low With Externet/ Low Veneer (0.4m)<br>Very Low With Externet/ Low Veneer (0.4m)<br>Very Low Veneer (0.4m)<br>Very Low<br>Very Low Veneer (0.4m)<br>Externet/ Low<br>Very Low<br>Very Low With Externet/ Low Veneer (0.4m)<br>Externet/ Low<br>Very Low With Externet/ Low Veneer (0.4m)<br>Very Low Very Low<br>Very Low Veneer (0.4m)<br>Very Low Veneer (0.4m)  | 2.14<br>2.18<br>2.18<br>2.05<br>2.84<br>0.03<br>0.10<br>0.3<br>2.41<br>2.24<br>2.24<br>1.06<br>3.02<br>2.26<br>3.7<br>2.26<br>3.7<br>2.26<br>3.7<br>2.26<br>3.7<br>2.26<br>3.7<br>2.26<br>3.7<br>2.36<br>0.78<br>2.15<br>3.05<br>4.1<br>0.24<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.3<br>3.7<br>2.86<br>0.78<br>0.78<br>0.24<br>3.7<br>2.86<br>0.78<br>0.78<br>0.24<br>3.7<br>2.36<br>0.78<br>0.24<br>3.7<br>2.36<br>0.78<br>0.24<br>3.35<br>0.24<br>3.35<br>0.78<br>0.24<br>3.35<br>0.24<br>3.35<br>0.28<br>0.78<br>0.24<br>3.35<br>0.24<br>3.7<br>2.86<br>0.78<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.35<br>0.24<br>3.37<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>0.24<br>3.37<br>3.37<br>3.37<br>3.36<br>3.36<br>3.36<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>3.35<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.37<br>0.37<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.38<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.35<br>0.38<br>0.38<br>0.38<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0.37<br>0      | Sand<br>Sand<br>Sand<br>Clay<br>Sand<br>Deat<br>Deat<br>Deat<br>Deat<br>Sandy Clay<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand<br>Sand   | Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Very Dense Very Losse to Dense Medium Dense to Very Dense Very Dense Very Dense Very Dense   
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376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           37	VC-808-354 VC-808-354 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-357 VC-808-350 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-370 VC-808-380	CPT           VC	8 8 8 9 9 8 3 8 9 9 9 9 9 9 9 9 9 8 8 8 7 7 6 6 8 8 7 7 6 6 8 8 7 7 6 6 8 8 7 7 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	3         3           3         3.6           2.84         4.86           3.64         3.64           2.38         5.31           5.47         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.54         3.64           3.6         3.64           3.7         2.21           2.4         3.13           3.6         3.22           2.1         1.2           3.6         3.6           3.6         3.6           3.6         3.6           3.6         3.6           3.6         3.6           3.6         3.6           3.6         3.6           3.7         3.6 <td>Sahdy Clay Sahdy Clay Clay Clay Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Clay Clay Clay Clay Sity Sand Clay Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Sity Sand Sity Sand Clay Clay Clay Clay Clay Clay Clay Sity Sand Sity Sand Sity Sand Sity Sand Clay Clay Clay Clay Clay Clay Clay Clay</td> <td></td> <td>Very Low with Externely Low Veneer (0.4m) Very 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     371.071           376.071           377.069           370.073           377.073           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           37	VC-808-354 VC-808-354 VC-808-356 VC-808-356 VC-808-356 VC-808-356 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-350 VC-808-350 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-360 VC-808-370 VC-808-380	190           200	8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           8           9           6           8           9           6           8           9           7           6           8           9           10           11           12           13           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     121           120	<ul> <li>Sandy Cay</li> <li>Sandy Cay</li> <li>Sandy Cay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sandy Clay</li> <li>Clay</li> <l< td=""><td></td><td>Very Low with Externet/ Low Veneer (0.4m) Very Low with Externet/ Low Veneer (0.5m) Externet/ Low Very Low Very Low Wh Externet/ Low Veneer (0.5m) Very Low with Externet/ Low Veneer (0.5m) Very Low With Commission Very Low Veneer (0.5m) Very Low Uncov Veneer (0.4m) Very Low Uncov Veneer 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-00         -00           -28         -28           -28         -28           -29         -29           -29         -29           -29         -29           -29         -29           -29         -29           -29         -29           -20	Very Los Strength Sindy Clay with Externely Los Strength Veneer (0.Am) Very Los Strength Sindy Clay with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Strennely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Externely Los Strength 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28           28           28           28           28           28           29           29           29           29           29           29           29           29           29           29           29           29           29           30           30           31           32           33           34           34           34           34           34           35	Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength 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364.073           365.073           366.073           366.073           366.073           366.073           366.073           366.073           366.073           370.069           370.069           370.073           371.131           373.760           373.7607           375.071           376.071           378.072           378.073           380.071           382.071           382.071           382.071           382.071           382.073 <t< td=""><td>VC-808-354 VC-808-354 VC-808-355 VC-808-356 VC-808-356 VC-808-356 VC-808-357 VC-808-358</td><td>100         100           100</td><td>8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           10           10           10           10           10           10           10           10           10           10           11    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       355.069           355.069           355.069           355.060           355.0769           350.072           360.071           360.072           366.072           366.072           366.073           366.073           366.073           370.073           371.07           371.517           371.517           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071           376.071 <td< td=""><td>VC-808-354 VC-808-354 VC-108-354 VC-108-356 VC-108-356 VC-808-357 VC-808-358</td><td>cprint           vc           vc</td><td>8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           8           9           7          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366.073           366.073           366.073           366.073           367.069           370.069           370.073           371.513           373.769           373.769           373.7607           373.7607           378.072           378.072           378.073           378.073           378.073           378.073           388.071           388.071           <	VC-808-354 VC-808-354 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-355 VC-808-359 VC-808-350 VC-808-350 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-361 VC-808-371	100         100           100	8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           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      1.66           1.52         1.52           1.51         1.66           1.61         1.64           1.76         1.76           1.62         1.82           1.83         1.64           1.64         1.65           1.64         1.65           1.76         1.24     <	<ul> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Cla</li></ul>		Very Low with Externet/ Low Venere (0.4m) Very Low with Externet/ Low Venere (0.5m) Externet/ Low Venere (0.5m) Very Low Wh Externet/ Low Venere (0.5m) Very Low with Externet/ Low Venere (0.5m) Very Low Vener Vone Ve	2.14 2.18 2.18 2.00 0.01 0.03 0.10 0.03 2.24 2.24 1.06 0.32 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 2.26 0.78 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   355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.070           360.071           360.072           360.072           360.073           360.071           360.072           360.072           360.073           360.073           360.073           370.073           370.073           370.073           371.073           371.513           372.517           370.071           370.071           370.071           370.071           370.071           370.072           372.517           380.071           380.071           380.071           380.071           380.071 <td< td=""><td>VC-B08-354 VC-B08-354 VC-F08-356 VC-F08-356 VC-B08-356 VC-B08-356 VC-B08-356 VC-B08-356 VC-B08-356 VC-B08-356 VC-B08-356 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-36 VC-B08-37 VC-B08-38 VC-B08-38 VC-B08-38 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157&lt;</td><td><ul> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Sandy Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Clay</li></ul></td><td></td><td>Very Low with Externety Low Veneer (0.4m) Very Low with Externety Low Veneer (0.5m) Externety Low Veneer (0.5m) Very Low Wheth Externety Low Veneer (0.5m) Very Low With Externety Low Veneer (0.4m) Very Low With Externety Low Veneer (0.5m) Very Low Very Low Very Low Veneer (0.5m) Very Low Very Low</td><td>2.14 2.18 2.18 2.09 0.10 0.20 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.24 0.33 0.35</td><td>Sand Sand Sand Clay Sand Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sand Sand Sand Sand Sand Sand Sand Sand</td><td>Dense Dense Dense Dense Dense to Very Dense Dense Dense to Very Dense Dense Dense to 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        14         14           14         12           15         12           12         12           136         136           14         14           14         12           15         136           16         137           178         138           16         157           22         12           16         157<	<ul> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Sandy Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sity Sand</li> <li>Clay</li> <li>Clay</li></ul>		Very Low with Externety Low Veneer (0.4m) Very Low with Externety Low Veneer (0.5m) Externety Low Veneer (0.5m) Very Low Wheth Externety Low Veneer (0.5m) Very Low With Externety Low Veneer (0.4m) Very Low With Externety Low Veneer (0.5m) Very Low Very Low Very Low Veneer (0.5m) Very Low	2.14 2.18 2.18 2.09 0.10 0.20 0.24 0.24 0.24 0.24 0.24 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28           28           28           28           28           29           29           29           29           29           29           29           29           29           29           29           29           29           30           31           32           33           34           33           34           34           34           34           34           34           35	Very Los Strength Sindy Clay with Externely Los Strength Veneer (0.Am) Very Los Strength Sindy Clay with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely 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  383.072	VC-B08-354           VC-B08-354           VC-B08-354           VC-B08-356           VC-B08-357           VC-B08-358           VC-B08-358           VC-B08-359           VC-B08-359           VC-B08-359           VC-B08-359           VC-B08-359           VC-B08-350           VC-B08-351           VC-B08-352           VC-B08-352           VC-B08-353           VC-B08-361           VC-B08-362           VC-B08-362           VC-B08-363           VC-B08-364           VC-B08-364           VC-B08-364           VC-B08-364           VC-B08-364           VC-B08-364           VC-B08-370           VC-B08-371           VC-B08-372           VC	cpr1         cpr2           cv         cv           cv	8           8           9           8           9           8           9           8           9	3         3           3         26           2         3           3         24           4         46           3         364           2         38           5         51           5         34           3         541           5         543           2         34           135         541           135         21           21         21           21         131           18         222           2         21           135         51           14         134           14         134           152         22           2         22           12         12           12         12           12         12           135         131           14         134           145         145           146         146           147         149           148         146           149         146           146         147           147 <td><ul> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Sandy Clay</li> <li>Sandy Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Silty 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3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.25 2.95 2.</td> <td>Sand Sand Sand Sand Sand Sand Sand Sand</td> <td>Dense Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense</td> <td></td>	<ul> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Sahdy Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Sandy Clay</li> <li>Sandy Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Clay</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Silty Sand</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li> <li>Silty Sand</li> <li>Clay</li> <li>Clay</li></ul>		Very Low with Externely Low Venere (0.4m) Very Low with Externely Low Venere (0.5m) Externely Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low with Externely Low Venere (0.5m) Very Low	2.14 2.18 2.18 2.09 2.84 0.9 3.1 0.19 0.19 0.23 2.85 2.85 2.85 2.85 2.95 3.15 3.35 2.82 2.82 3.85 0.19 3.35 0.19 3.35 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.82 3.95 0.19 3.12 3.25 2.95 2.	Sand Sand Sand Sand Sand Sand Sand Sand	Dense Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense	
28           28           28           28           28           28           28           28           28           29           29           29           29           29           29           29           29           29           30           31           32           33           34           34           34           34           35	Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sindy Clay with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand 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371.57           371.57           373.769           377.071           378.071           378.071           378.071           388.068           388.068           388.067           388.068           388.067	VC-B08-354 VC-B08-354 VC-B08-355 VC-B08-355 VC-B08-355 VC-B08-355 VC-B08-355 VC-B08-355 VC-B08-355 VC-B08-356 VC-B08-359 VC-B08-350 VC-B08-370 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-380 VC-B08-390	100         100           100	8           8           9           8           9           8           9           8           9           8           9           9           8           9           9           9           9           9           9           9           9           9           9           8           9           6           9           6           8           9           9           10           11           12           13           14           15           15           16           17           18           19           10           10           11           12           13           14           15           15           16           17           18	3 36 3 26 5 4 3 46 3	Sandy Cay Sandy Cay Colini, Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Cay Sandy Clay Sandy Clay Sandy Clay Sity Sand Clay Sity Sand Clay Sity Sand Clay Sity Sand Clay Sity Sand Clay Sity Sand Clay Sity Sand Clay Clay Clay Clay Sity Sand Clay Clay Sity Sand Clay Sity Sand Clay Clay Clay Clay Clay Sity Sand Clay Clay Sity Sand Clay Clay Clay Sity Sand Clay Sity Sand Clay Clay Sity Sand Clay Clay Clay Clay Clay Clay Clay Sity Sand Clay Clay Clay Clay Clay Clay Clay Clay		Very Low with Externely Low Venere (0.4m) Very Low with Externely Low Venere (0.5m) Externely Low Venere (0.5m) Very Low Wheth Externely Low Venere (0.5m) Very Low With Externely Low Vener (0.5m) Very Low	2.14 2.18 2.18 2.44 0.9 3.1 0.19 0.3 1.24 1.56 2.26 1.56 2.26 1.56 2.26 2.26 2.26 2.26 2.26 2.26 3.1 0.2 2.26 3.1 0.2 2.26 3.1 0.2 2.26 3.1 0.2 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35           28           28           28           29           20           31           32           33           34           34           34           35           35           35           35           35           35           35           35	Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sindy Clay with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Externely Low 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        380.073           380.071           383.073           383.073           383.073           383.073           383.073	VC-808-354           VC-108-355           VC-108-355           VC-108-356           VC-108-356           VC-808-357           VC-808-357           VC-808-358           VC-808-358           VC-808-358           VC-808-358           VC-808-358           VC-808-358           VC-808-351           VC-808-352           VC-808-352           VC-808-362           VC-808-372           VC		8           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           8           9           8           9           6           8           9           7           6           8           9           7           8           9	3 3 3 3 3 3 3 2 3 2 3 2 3 4 4 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 4	<ul> <li>Sahdy Cay</li> <li>Sahdy Cay</li> <li>Sahdy Cay</li> <li>Sahdy Cay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> <li>Sithy Sand</li> <li>Clay</li> &lt;</ul>		Very Low with Externely Low Veneer (0.4m) Very Low with Externely Low Veneer (0.5m) Externely Low Veneer (0.5m) Very Low Wh Externely Low Veneer (0.5m) Very Low with Externely Low Veneer (0.5m) Very Low with Externely Low Veneer (0.5m) Very Low With Externely Low Veneer (0.4m) Very Low With Externely Low Veneer (0.5m) Very Low Veney Low Very L	2.14 2.18 2.18 2.44 0.9 0.19 0.3 0.10 0.3 2.44 1.36 0.3 2.24 1.36 0.3 2.24 1.36 0.3 2.26 3.7 2.26 3.7 2.26 3.7 2.26 3.7 2.26 3.7 2.26 3.7 2.26 3.7 2.26 3.7 2.36 0.78 2.26 3.7 2.36 0.78 2.26 3.7 2.36 0.78 2.35 3.65 4.1 0.24 0.24 0.24 3.3 3.5 0.78 0.24 3.35 4.1 0.24 0.25 0.27 0.27 0.27 0.24 0.24 0.24 0.24 0.24 0.25 0.27 0	Sand Sand Sand Clay Sand Clay Sand Peat Peat Sandy Clay Sand Sand Sand Sand Sand Sand Sand Sand	Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense	
30           28           28           28           28           29           30           31           32           33           34           35           35           35           35           35           35           35           35           35	Very Los Strength Sindy Clay with Extremely Los Strength Veneer (0.Am) Very Los Strength Sindy Clay with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los Strength Veneer (0.Am) Very Los Strength Sing Sand with Extremely Los 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354.069           354.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.070           360.071           360.069           360.072           360.069           360.071           360.071           360.071           360.071           360.071           360.071           370.071           371.071           371.513           377.513           377.513           376.071           376.071           376.071           378.071           378.071           378.071           378.071           378.071           378.071           388.072           388.072           388.072 <td< td=""><td>VC-808-354 VC-808-354 VC-70-803-354 VC-70-803-356 VC-808-356 VC-808-356 VC-808-357 VC-808-358 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-350 VC-80</td><td></td><td>8           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           6           6           6           8           9           7           6           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9</td><td>3         3           3         3.6           2         3.4           3.6         3.64           3.84         3.64           3.85         3.64           3.86         3.64           3.87         3.81           5.89         3.84           3.81         3.53           3.92         3.44           1.35         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           3.6         1.52           2.1         2.1           1.13         1.13           1.20         2.2           2.2         2.2           2.2         2.2           2.2         2.2           1.21         1.26           1.22         1.21           1.26         1.26           1.27         1.26           1.26         1.26           1.27         1.26           2.26         2.26           2.26         2.26</td><td>Sahdy Clay Sahdy Clay Clay Clay Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sity Sand Clay Clay Clay Clay Clay Clay Clay Clay</td><td></td><td>Very Low with Externety Low Venere (0.4m) Very Low with Externety Low Venere (0.5m) Externety Low Venere (0.5m) Very Low West Low Venere (0.5m) Very Low West Low Venere (0.5m) Very Low with Externety Low Venere (0.5m) Very Low with Externety Low Venere (0.4m) Very Low With Externety Low Venere (0.5m) Very Low Very Low Venere Vener</td><td>2.14 2.18 2.18 2.84 0.9 3.04 2.84 0.9 3.1 2.84 0.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>Sand Sand Sand Cley Sand Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sand Sand Sand Sand Sand Sand Sand Sand</td><td>Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense</td><td></td></td<>	VC-808-354 VC-808-354 VC-70-803-354 VC-70-803-356 VC-808-356 VC-808-356 VC-808-357 VC-808-358 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-359 VC-808-350 VC-80		8           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           8           9           6           6           6           8           9           7           6           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9           9	3         3           3         3.6           2         3.4           3.6         3.64           3.84         3.64           3.85         3.64           3.86         3.64           3.87         3.81           5.89         3.84           3.81         3.53           3.92         3.44           1.35         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           2.1         2.1           3.6         1.52           2.1         2.1           1.13         1.13           1.20         2.2           2.2         2.2           2.2         2.2           2.2         2.2           1.21         1.26           1.22         1.21           1.26         1.26           1.27         1.26           1.26         1.26           1.27         1.26           2.26         2.26           2.26         2.26	Sahdy Clay Sahdy Clay Clay Clay Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sandy Clay Sity Sand Clay Clay Clay Clay Clay Clay Clay Clay		Very Low with Externety Low Venere (0.4m) Very Low with Externety Low Venere (0.5m) Externety Low Venere (0.5m) Very Low West Low Venere (0.5m) Very Low West Low Venere (0.5m) Very Low with Externety Low Venere (0.5m) Very Low with Externety Low Venere (0.4m) Very Low With Externety Low Venere (0.5m) Very Low Very Low Venere Vener	2.14 2.18 2.18 2.84 0.9 3.04 2.84 0.9 3.1 2.84 0.9 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Sand Sand Sand Cley Sand Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sandy Cley Sand Sand Sand Sand Sand Sand Sand Sand	Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense	
28           28           28           28           28           29           29           29           29           29           29           29           29           29           29           29           29           29           30           30           31           31           32           33           34           35           36           37           38           38	Very Low Strength Sindy Clay with Extremely Low Strength Veneer (0.Am) Very Low Strength Sindy Clay with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand with Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Win Extremely Low Strength Veneer (0.Am) Very Low Strength Sing Sand Vene Winter Wene Vene Strength Veneer (0.Am) Very Low Strength Sing Sand Vene Winter Winter Vene Vene Strength Veneer (0.Am) Very Low Strength Sing Sand Vene Winter Wene Vene Vene Vene Vene Vene Vene Strength Sing Sand Vene Winter Vene Vene Vene Vene Vene Vene Vene Ve	354.069           354.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           355.069           358.069           358.07           359.072           360.07           361.07           362.055           364.069           364.07           366.067           366.07           366.07           366.067           366.07           366.07           366.07           366.07           366.07           366.07           370.07           371.57           377.769           377.759           377.759           377.759           377.759           370.071           376.071           377.759           377.759           382.072           382.073           382.073           382.073           382.073           382.073           382.073	VC-808-354 VC-808-354 VC-808-354 VC-808-355 VC-808-355 VC-808-357 VC-808-357 VC-808-357 VC-808-357 VC-808-357 VC-808-361 VC-808-371 VC-808-381 VC-808-381 VC-808-381 VC-808-381 VC-808-381 VC-808-381 VC-808-391		8           8           9           9           8           9           8           9           8           9           8           9           9           9           9           9           9           9           9           9           9           9           9           9           10           10           10           10           10           10           10           11           12           12           13           14           15           15           16           17           18           19           11           12           13           14           15           15           16           17           18           19           19	3 36 3 26 3 26 3 24 3 44 3 44	Sandy Cay Sandy Cay Collin Sand Silly Sand Silly Sand Silly Sand Silly Sand Silly Sand Silly Sand Cay Silly Sand Cay Silly Sand Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Silly Sand Cay Cay Cay Silly Sand Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Silly Sand Cay Cay Cay Cay Cay Cay Cay Cay Cay Cay		Very Low with Externely Low Venere (0.4m) Very Low with Externely Low Venere (0.5m) Externely Low Venere (0.5m) Very Low Ub Externely Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low with Externely Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low Wery Low Venere (0.5m) Very Low With Externely Low Venere (0.5m) Very Low V	2.14 2.18 2.18 2.09 3.04 2.84 0.9 3.1 0.0 0.3 2.2,4 1.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.05 2.06 2.05 2.0	Sand Sand Sand Clay Sand Clay Sand Peat Peat Peat Sandy Clay Sandy Clay Sandy Clay Sand Sand Sand Sand Sand Sand Sand Sand	Dense Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Medium Dense to Very Dense	

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Extremely Low				
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	1.32	Silt Sand		Extremely Low to Low
Extremely Low	2.45	Sand		
Extremely Low	2.45	Sand		
Extremely Low	2.45 3.28 2.04	Sand Gravelly Sand	Very Dense	
Extremely Low	2.45 3.28 2.04	Sand Gravely Sand Sand Sand	Very Dense	
Estremely Low	2.45 3.28 2.04	Sand Gravelly Sand Sand	Very Dense	
Extremely Low Very High Very Low	2.45 3.28 2.04	Sand Gravelly Sand Sand	Very Dense	
Extremely Low	2.45 3.28 2.04	Sand Gravely Sand Sand	Very Dense	
Extremely Low	2.45 3.28 2.04 3.9	Sand Gravely Sand Sand Sand Sand	Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9	Sand Gravely Sand Sand Sand Sand	Very Dense Very Dense	
Extremely Low	2.45 3.28 2.03 3.9	Sand Gravely Sand Sand Sand Sand	Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9	Sand Gravelly Sand Sand Sand Sand Sand	Very Dense Very Dense	
Estremely Low Very High Very Low Montions	2.45 3.28 2.04 3.9	Sand Gravelly Sand Sand Sand Sand Sand Silty Sand Silty Sand	Very Dense Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 1.77 3.86 2.51	Sand Gravely Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51	Sand Gravely Sand Sand Sand Sand Silty Sand Silty Sand Silty Sand	Very Dense Very Dense Loose to Medium Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51	Sand Gravely Sand Sand Sand Sity Sand Sity Sand Sity Sand	Very Dense Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51	Sand Gravelly Sand Sand Sand Sand Silty Sand Silty Sand Silty Sand	Very Dense Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 1.77 3.86 2.51	Sand Gravelly Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 1.77 3.86 2.51 2.56	Sand Gravelly Sand Sand Sand Silty Sand Silty Sand Silty Sand Silty Sand	Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 1.77 3.86 2.51 2.51	Sand Gravely Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand	Very Dense Very Dense Losse to Medium Dense Medium to Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 3.9 3.9 3.9 3.9 2.51 2.51 2.51 2.56 0.15	Sand Gravely Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Estremely Low	2.45 2.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 0.15 0.15	Sand Gravelly Sand Sand Sand Sand Silty Sand Silty Sand	Very Dense Very Dense Loose to Medium Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.71	Sand Gravelly Sand Sand Sand Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand Sitty Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 1.77 3.86 2.51 2.51 2.56 0.15 2.71	Sand Gravely Sand Sand Sand Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand	Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand Silty Sand	Very Dense Very Dense Losse to Medium Dense Medium to Very Dense	
Extremely Low Very High Very Low Medium Very Low Very Low Very Low Very Low	2.45 3.28 2.04 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	Sand Gravely Sand Sand Sand Sity Sand Sity Sand	Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Extremely Low	2.45 2.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.56 0.15 2.71 2.91	Sand Gravelly Sand Sand Sand Sand Silty Sand Silty Sand Sand Sand Sand	Very Dense Very Dense Loose to Medium Dense Medium to Very Dense	
Extremely Low Very High Very Low Medium Very Low Very Low Very Low Medium tigh	2.45 3.28 2.04 3.9 3.9 3.9 3.9 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Sand Silty Sand Silty Sand Sand	Very Dense Very Dense Very Dense Very Dense Very Dense Very Dense Dense to Medium Dense	
Extremely Low Extremely Low Very High Very Low Medium Very Low Medium to High Medium to High	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.51 2.71 2.91 2.91 2.91 2.91	Sand Gravely Sand Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Loose to Medium Dense Loose to Medium Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 3.9 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Silty Sand Silty Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Medium to Very Dense Dense to Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Loose to Medium Dense Loose to Medium to Very Dense Medium to Very Dense Dense to Very Dense	
Extremely Low	2.45 2.23 2.04 3.9 3.9 1.77 3.86 2.51 2.	Sand Gravelly Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Medium to Very Dense Dense to Very Dense Dense to Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.365 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.5	Sand Gravely Sand Sand Sand Silty Sand Silty Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense Very Dense Very Dense Dense to Medium Dense.	
Extremely Low  Very High Very Low  Medium  Very Low  Very Low  Medium to High  Medium to High	2.45 3.28 2.04 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.51 2.71 2.91 2.91 2.91	Sand Gravely Sand Sand Sand Sitty Sand Sitty Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Medium to Very Dense Dense to Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 3.9 3.9 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Silty Sand Silty Sand Sand Sand Sand	Very Dense Very Dense Losse to Medium Dense Medium to Very Dense Dense to Very Dense	
Estremely Low	2.45 3.28 2.04 3.9 3.9 1.77 3.86 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.54 3.38 2.94	Sand Gravely Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Loose to Medium Dense Loose to Medium Dense Dense to Very Dense Dense to Very Dense	
Extremely Low	2.45 3.28 2.04 3.9 3.9 3.9 3.9 2.51 2.51 2.51 2.51 2.51 2.51 2.51 2.51	Sand Gravely Sand Sand Sand Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sity Sand Sand Sand Sand Sand Sand Sand Sand	Very Dense Very Dense Very Dense Loose to Medium Dense Loose to Medium Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense Dense to Very Dense	

39 39 39	Very Loose Silty Sand Very Loose Silty Sand Very Loose Silty Sand	402.071         CPT-B09-402         CPT           402.579         VC-B09-403         VC           404.346         CPT-B09-404         CPT	8 8 8	2.66 4.55 2.58	Silty Sand Silty Sand Silty Sand	Very Loose Very Loose	Very Low	2.1 1.44 2.08	Clay Clay Clay Clay	Medium to High Low Medium to Very High	0.22 Peat	Very High
39 39 39	Very Loose Silty Sand Very Loose Silty Sand Very Loose Silty Sand	404.348         VC-809-404         VC           404.818         VC-809-405         VC           406.33         CPT-809-406         CPT	8 8 8	2.56 2.6 3.9	Silty Gravelly Sand Silty Sand Silty Sand	Very Loose	Very Low Very Low	1.44 2.6 0.12	Silty Clay Clay Peat	Very Low Low Medium	0.55 Clay 0.36 Peat 1.18 Sand	Very Loose to Dense
39 39 40	Very Loose Sitty Sand Very Loose Sitty Sand Very Low Strength Clay with Extremely Low Veneer (0.6m)	406.331 VC-809-406 VC 407.069 VC-809-407 VC 408.07 VC-809-408 VC 408.161 CDT.809-408 VC	8 9 9	2.9 1.15 2.54	Silty Sand Silty Sand Clay		Extremely Low Extremely Low Very Low Very Low	1.02 2.2 0.49	Clay Clay Peat	Low	0.91 Sand 1.3 Clay 0.31 Sand 1.54 Sand	Lorento Marcinos
40 40 40	Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m)	408.101 CF1809408 CF1 409.07 VC-809-409 VC 410.233 VC-809-410 VC 410.233 CPT-809-410 CPT	9 9 9	2.61 4.14 4.12	Clay Clay Clay Clay		Very Low With Extremely Low Veneer (0.6m) Very Low Very Low Very Low	0.32 0.8 0.66 1.08	Peat Peat Clavev Peat	Medium	2.24 Sand	Louse to very Dense
40 40 40	Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m)	411.171         VC-809-411         VC           412.07         CPT-809-412         CPT           412.071         VC-809-412         VC	9 9 9	2.01 2.9 2.87	Clay Clay Clay		Very Low Very Low with Extremely Low Veneer (0.6m) Very Low	2.35 2.32 1.58	Peat Very Dense Sand	Low	0.75	
40 40 40	Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m)	413.05         VC-809-413         VC           414.07         CPT-809-414         CPT           414.072         VC-809-414         VC	9 9 9	2.48 2.88 2.62	Clay Clay Clay		Very Low Very Low with Extremely Low Veneer (0.6m) Very Low	1.2 2.34 1.72	Sand Very Dense Silty Sand			
40 40 41	Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay with Extremely Low Veneer (0.6m) Very Low Strength Clay/Sandy Clay Nery Low Character Clay/Sandy Clay	414.988 VC-809-415 VC 416.242 CPT-809-416 CPT 416.243 VC-809-416 VC 411-07 VC-809-416 VC	9 9 9	2.4 2.56 2.53	Clay Clay Clay		Very Low Very Low with Extremely Low Veneer (0.6m) Very Low	2.49 1.36 1.11	Sand Very Dense Sand Very Dense			
41 41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	417.07 VC-809-417 VC 418.068 CPT-809-418 CPT 418.07 VC-809-418 VC 418.780 VC-809-419 VC	9 9 9 9	2.86 2.4 2.15	Clay Clay Clay		Very Low Very Low Very Low	4.01 1.36 2.41 0.83	Sand Very Dense Sand Sand		031 (154	
41 41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	420.238 CPT-B09-420 CPT 420.24 VC-809-420 VC 421.07 VC-809-421 VC	9 9 9 9	2.62 2.98 2.78	Clay Silty Sand Sandy Clay		Very Low Extremely Low Very Low	2.82 0.33 2.77	Sand Medium Dense to Very D Clay Sand	nse Medium	2.61 Sand	
41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	422.069         CPT-809-422         CPT           422.07         VC-809-422         VC           423.459         VC-809-423         VC	9 9 9	2.52 2.38 2.6	Sandy Clay Sandy Clay Sandy Clay		Very Low Very Low Very Low	0.72 3.01 0.66	Sand Medium Dense Sand Sand		1.66 Clay 1.27 Clay	Medium to Very High
41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	424.07 VC-809-424 VC 424.07 CPT-809-424 CPT 424.819 VC-809-425 VC 425 CFC VC 809-425 VC	9 9 9	5.68 2.2 2.5	Sandy Clay Sandy Clay Sandy Clay		Very Low Very Low to Medium Very Low	0.38	Sand Loose Sand		2.28 Sand	Dense to Very Dense
41 41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	425.966 VC-809-426 VC 425.969 CPT-809-426 CPT 427.138 VC-809-427 VC 427.704 CPT-809-428 CPT	9 9 9 9	2.32 1.92 2.09 2.28	Sandy Clay Sandy Clay Sandy Clay		Very Low Very Low	0.44 0.83 0.74	Sand Very Loose Silt Sand Very Loose	Low	0.64 Sand 0.32 Peat 1.44 Clay	Medium to Very Dense Medium to High
41 41 41	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	427.706 VC-809-428 VC 429.068 VC-809-429 VC 430.07 VC-809-430 VC	9 9 9	2.48 1.76 1.44	Sandy Clay Sandy Clay Sandy Clay		Very Low Very Low Very Low Very Low	0.52 3.1 3.02	Sand Sand Sand		2.06 Clay	
42 42 42	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	430.07         CPT-B09-430         CPT           431.206         VC-B09-431         VC           432.068         CPT-B09-432         CPT	9 8 9	1.6 1.49 1.58	Clay Sandy Clay Clay		Very Low with Extremely Low Veneer (0.5m) Very Low Very Low with Extremely Low Veneer (0.5m)	3.8 2.79 3.82	Sand Very Dense Sand Sand Medium Dense to Very D	nse		
42 42 42	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	432.07         VC-B09-432         VC           432.768         VC-B09-433         VC           434.706         CPT-B09-434         CPT	9 9 8	1.63 1.88 1.12	Sandy Clay Sandy Clay Clay		Extremely Low Very Low Very Low with Extremely Low Veneer (0.5m)	2.96 2.45 1.04	Sand Sand with thin bands of Clay Sand Medium Dense to Very D	Low	0.36 Clay	Medium to High
43 43 43 42	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	434.707 VC-809-434 VC 435.364 VC-809-435 VC 436.069 CPT-809-436 CPT 436.069 CPT-809-436 CPT	8 8 6	0.84 0.7 0.92	Sandy Clay Sandy Clay Clay Sandy Clay		Very Low Very Low Very Low	1.32 1.04 3.48	Sand Peat Sand Medium Dense to Very D	nse	0.43 Sandy Silt	
43 43 43 43	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	436.902 VC-809-437 VC 436.902 VC-809-437 VC 438.067 VC-809-438 VC 438.068 CPT-809-438 CPT	6	1.13 1.2 0.66 1.1	Sandy Clay Sandy Clay Sandy Clay Clay		Very Low Very Low Very Low Very Low	3.65 4.29 1.28	Sandy Gravel Sand Sand Sand Very Loose to Dense		2.03 Sand	Very Dense
43 43 43	Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay Very Low Strength Clay/Sandy Clay	439.175         VC-810-439         VC           440.173         CPT-810-440         CPT           440.174         VC-810-440         VC	6 6 6	0.9 1.14 0.81	Sandy Clay Sandy Clay Silty Sand		Very Low Very Low Very Low	3.47 0.78 4.29	Sand Very Loose to Dense Sand Very Loose to Dense		3.08 Sand	Very Dense
44 44 44	Very Loose Clayey Sand Very Loose Clayey Sand Very Loose Clayey Sand	441.019         VC-B10-441         VC           442.299         VC-B10-442         VC           442.299         CPT-B10-442         CPT	6 5 5	5.39 4.97 1.08	Sand Sand/Clayey Sand Clayey Sand	Very Loose		4.3	Sand Medium Dense to Very D	nse		
44 44 45	Very Loose Clayey Sand Very Loose Clayey Sand Loose Sand	443.791         VC-B10-444         VC           443.792         CPT-B10-444         CPT           445.241         VC-B10-445         VC	6 6 6	5.6 0.84 4	Sand Clayey Sand Sand	Very Loose		3.04	Sand Dense to Very Dense			
45 45 45	Loose Sand Loose Sand Loose Sand	445.17 VC-B10-446 VC 446.173 CPT-B10-446 CPT 447.173 VC-B10-447 VC 448.173 CPT-B10-448 CPT	6 6 6	4.9 1.2 4.7	Sand Sand Sand Sand	Medium Dense to Dense		3.72	Sand Very Dense	Low to Very High	1.42 Sand	Dance to Ven/ Dance
45 45 45	Loose Sand Loose Sand	448.174 VC-B10-448 VC 449.075 VC-B10-449 VC 450.123 VC-B10-450 VC	8 6 6	6 1.97 5.78	Sand Sand Sand Sand			0.77	Clay	Very Low	0.38 Peat	
45 45 45	Loose Sand Loose Sand Loose Sand	450.123         CPT-B10-450         CPT           451.22         VC-B10-451         VC           452.103         VC-B10-452         VC	6 6 6	1.22 5.68 6	Sand Sand Sand	Loose to Medium Dense		3.96	Sand Dense to Very Dense			
46 46 46	Low Strength Sandy Clay Low Strength Sandy Clay Low Strength Sandy Clay	452.104 CPT-B10-452 CPT 453.173 VC-B10-453 VC 454.173 VC-B10-454 VC	6 6 5	0.88 5.36 4.87	Sandy Clay Sand Sand		Very Low to Low	4.42	Sand Very Dense			
46 47 47	Low Strength Sandy Clay Very Losse Sand Very Losse Sand	454.174 CPT-B10-454 CPT 455.478 VC-B10-455 VC 456.173 VC-B10-456 VC	5 6 6	0.78 5.24 6	Sandy Clay Sand Sand	Neuleur	Low to Medium	4.58	Sand Very Dense			
47 47 47 47	Very Loose Sand Very Loose Sand Very Loose Sand Very Loose Sand	456.174 CPT-B10-456 CPT 457.173 VC-B10-457 VC 458.173 VC-B10-458 VC 458.174 CPT-B10-458 CPT	6 6 6	6 5.2 1.06	Sand Sand Sand	Very Loose		4.34	Sand Very Dense			
48 48 48	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	459.173 VC-B10-459 VC 460.173 VC-B10-460 VC 460.173 CPT-B10-460 CPT	6 5 5	0.5 0.95 0.9	Sandy Clay Sandy Clay Sandy Clay	Very Loose	Extremely Low Very Low	5.5 0.34 4.54	Sand Gravel Sand Very Dense		4.71 Sand	
48 48 48	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	461.131 VC-B10-461 VC 462.172 VC-B10-462 VC 462.174 CPT-B10-462 CPT	5 5 5	6 0.78 0.82	Sand Sandy Clay Sandy Clay		Very Low Extremely Low	4.39 4.36	Sand Very Dense			
48 48 48	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m)	463.173 VC-B10-463 VC 464.173 VC-B10-464 VC 464.174 CPT-B10-464 CPT	5 5 5	0.82 0.88 0.62 1.82	Sandy Clay Sandy Clay Sandy Clay		Very Low Very Low Extremely Low	4.15 3.44 3.7	Sand Sand Very Dense		172 Sand	
48 49 49	Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Low Strength Clay/Sandy Clay with Extremely Low Veneer (0.5m) Very Loose Sand Very Loose Sand	465.173 VC-810-465 VC 466.173 VC-810-466 VC 466.174 CPT-810-466 CPT 467.174 VC-810-467 VC	5	0.74	Silty Sand Gravelly Sand Sand	Very Loose	Very Low	4.35 3.16 0.12	Sand Very Dense	Medium	2.21 Sand	
49 49 49	Very Loose Sand Very Loose Sand Very Loose Sand	468.174         VC-B10-468         VC           468.174         CPT-B10-468         CPT           469.173         VC-B10-469         VC	7 7 5	6 0.98 5.46	Sand Sand Sand	Very Loose		1.1	Sand Medium Danese to Den	Se la	3.34 Sand	Very Dense
49 49 49	Very Loose Sand Very Loose Sand Very Loose Sand	470.174 VC-B10-470 VC 470.174 CPT-B10-470 CPT 471.174 VC-B10-471 VC	5 5 5	5.65 0.9 1.12	Sand Sand Silty Sand	Very Loose	Very Low	4.6 3.85	Sand Very Dense Sand			
49 49 49 49	very Lusse Sand Very Loose Sand Very Loose Sand Verv Loose Sand	472.173 VC-B10-472 VC 472.173 CPT-B10-472 CPT 473.172 VC-B10-473 VC 474.172 VC-B10-474 VC	5 5 5 5	0.98 1.83 6	Sand Silty Sand Silty Sand Sand	Very Loose	Very Low	4.44 0.1	Sand Very Dense Clay	Low	3.64 Sand	
49 49 49	Very Loose Sand Very Loose Sand Very Loose Sand Very Loose Sand	474.174 CPT-B10-474 CPT 475.172 VC-B10-475 VC 476.174 VC-B10-476 VC	5 5 8	0.94 5.45 1.15	Sand Sand Sand	Very Loose		4.46	Sand Very Dense	Very Low	3.19 Sand	
49 49 49	Very Loose Sand Very Loose Sand Very Loose Sand	476.174 CPT-B10-476 CPT 477.172 VC-B10-477 VC 478.173 VC-B10-478 VC	8 8 8	1.78 2.23 4.8	Sand Sand Sand	Very Loose to Medium Dense		1.3 2.08	Clay Sandy Silt	Low to Medium Very Low	0.84 Sand 1.41 Sand	Very Loose to Dense
49 49 49 49	Very Loose Sand Very Loose Sand Very Loose Sand	4/8.1/3 CPT-B10-478 CPT 479.175 VC-B10-479 VC 480.173 VC-B10-480 VC 480.174 CPT-B10-480 VC	8	1.94 0.73 5.43 1.7	Sand Sand Sand Cand	Very Loose to Medium Dense		3.46 5.27	Sand Very Dense	Very Low		
49 50 50	Very Loose Sand Very Loose Sand Very Loose Sand Very Loose Sand	481.174         VC-B10-480         CP1           481.845         VC-B10-482         VC           481.846         CPT-B10-482         VC	8 8 8 8	5.84 0.94 1.56	Sand Silty Sand Silty Sand	Very Loose	Extremely Low	4.76	Sand Very Dense			
50 50 50	Very Loose Sand Very Loose Sand Very Loose Sand	483.173         VC-B10-483         VC           484.173         VC-B10-484         VC           484.173         CPT-B10-484         CPT	8 8 8	0.5 5.92 1.5	Sand Sand Sand	Very Loose		1.1	Sandy Clay Sand Very Dense	Very Low	4.2 Sand	
50 50 50	Very Loose Sand Very Loose Sand Very Loose Sand	485.173 VC-B10-485 VC 486.173 VC-B10-486 VC 486.174 CPT-B10-486 CPT	8 9 9	4.85 0.46 2.52	Sand Sand Sand	Very Loose	Extremely Low	1.95 0.78	Clay Clayey Peat	Extremely Low Low to Medium	0.49 Peat 1.72 Sand	Very Dense
50 50 50 50	Very Loose Sand Very Loose Sand Very Loose Sand Very Loose Sand	487.17.3 VC-B10-487 VC 488.173 VC-B10-488 VC 488.174 CPT-B10-488 CPT 489.173 VC-B10-488 CPT	5 5 5 5	5.6 0.89 0.74 0.94	Sand Silty Sand Silty Sand Silty Sand	Very Loose	Extremely Low	5.11 4.6 4.64	Sand Very Dense Sand Very Dense			
50 50 51	Very Loses Sand Very Loses Sand Very Loses Sand Very Loses Sand	490.174 VC-B10-490 VC 490.175 CPT-B10-490 CPT 491.174 VC-B10-490 VC	5 5 5	0.89 0.76 4.95	Silty Sand Silty Sand Sand Sand	Very Loose	Extremely Low	4.82	Sand Very Dense			
51 51 51	Very Loose Sand Very Loose Sand Very Loose Sand	492.174         VC-B10-492         VC           492.177         CPT-B10-492         CPT           493.174         VC-B10-493         VC	5 5 5	5.55 0.48 5.42	Sand Clayey Sand Sand	Very Loose to Loose		4.72	Sand Very Dense			
51 51 51	Very Loose Sand Very Loose Sand Very Loose Sand	494.27         VC-B10-494         VC           494.271         CPT-B10-494         CPT           495.173         VC-B10-495         VC           406.122         VC         VC	5	6 0.8 5.67	Sand Silty Sand Sand	Very Loose		4.58	Sand Very Dense			
51 51 51 51	very Loose Sand Very Loose Sand Very Loose Sand Verv Loose Sand	490.1/3 VC-B10-496 VC 496.174 CPT-B10-496 CPT 497.174 VC-B10-497 VC 498.173 VC-B10-498 ur	5 5 5 5	6 0.56 4.24 3.66	Sand Silty Sand Sand Sand	Very Loose to Loose		4.66 1.01 1.18	Sand Very Dense Clay Clay	Medium		
51 51 51	Very Loose Sand Very Loose Sand Very Loose Sand	498.175 CPT-810-498 CPT 499.174 VC-810-499 VC 500.173 VC-810-500 VC	5 5 5	0.58 5.32 2.16	Silty Sand Sand Sand	Very Loose to Loose		3.4 0.28 1.04	Sand Very Dense Clay Clay	Medium	0.9 Clay	Medium to High
51 51 51	Very Loose Sand Very Loose Sand Very Loose Sand	500.173         CPT-B10-500         CPT           500.734         VC-B10-501         VC           502.173         VC-B10-502         VC	6 6 4	0.72 3.53 1.16	Silty Sand Silty Sand Sand	Very Loose	Very Low	1.44 0.1 1.48	Sand Very Dense Peat Clay	Medium	2.31 Clay 1.31 Sand	High
51 51 51	Very Loose Sand Very Loose Sand Very Loose Sand	502.174         CPT-B10-502         CPT           503.173         VC-B10-503         VC           504.173         VC-B10-504         VC	4 4 4	0.74 1.65 1.6	Sand Sand Sand	Very Loose to Loose		0.48 2.89 2.34	Sand Dense Clay Clay	High Very High	3.96 Clay	High to Very High

51	Very Loose Sand	504.174	CPT-B10-504 CF	т	4	1.26	Sand	Very Loose to Medium Dense		1.66	Clay		High to Very High	0.66	Sand	Very Dense	
51	Very Loose Sand	505.173	VC-B10-505 V	c	4	0.54	Sand			1.71	Clay		High	3.41	Sand		
51	Very Loose Sand	508.851	VC-B11-508 V	c	5	5.77	Sand										
52	Dense Sand with Loose Sand Veneer (0.3m)	508.853	CPT-B11-508 CF	PT C	5	0.52	Sand	Very Loose to Dense		3.26	Sand	Very Dense					
52	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	510.527	VC-B11-509 V	c	5	1.02	Sand			0.33	Clay		Medium	4.28	Sand		
52	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	510.528	CPT-B11-510 CF VC-B11-511 V	с	5	1.44	Sand	Very Loose to Dense		0.2	Clay		High to Very High	0.8	Sand	Very Dense	
52	Dense Sand with Loose Sand Veneer (0.3m)	512.365	VC-B11-512 V	с	5	5.81	Sand										
52	Dense Sand with Loose Sand Veneer (U.sm) Dense Sand with Loose Sand Veneer (0.3m)	512.365	CPT-B11-512 CF	PT T	5	0.54	Sand	Very Loose to Dense Very Loose to Dense		2.1	Sand	Very Dense	Very High	1.32	Sand	Loose to Medium Dense	
52	Dense Sand with Loose Sand Veneer (0.3m)	513.365	VC-B11-513 V	c	5	5.4	Sand										
52	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	514.364 514.366	VC-B11-514 V CPT-B11-514 CF	т	5	5.65	Sand Sand	Very Loose to Dense		4.58	Sand	Very Dense					
52	Dense Sand with Loose Sand Veneer (0.3m)	515.366	VC-B11-515 V	c	5	5.16	Sand										
52	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	515.908	VC-B11-516 V CPT-B11-516 CF	C T	5	5.31	Sand	Loose to Dense		1.8	Sand	Verv Dense					
52	Dense Sand with Loose Sand Veneer (0.3m)	515.909	CPT-B11-516A CF	PT	5	0.44	Sand	Loose to Dense		4.04	Sand	Very Dense					
52	Dense Sand with Loose Sand Veneer (0.3m) Dense Sand with Loose Sand Veneer (0.3m)	517.414	VC-B11-517 V VC-B11-518 V	c c	5	5.82	Sand										
52	Dense Sand with Loose Sand Veneer (0.3m)	518.081	CPT-B11-518 CF	T	5	0.46	Sand	Loose to Dense		3.74	Sand	Very Dense					
52	Dense Sand with Loose Sand Veneer (U.sm) Dense Sand with Loose Sand Veneer (0.3m)	519.758	VC-B12-519 V VC-B12-520 V	C C	5	5.86	Sand										
52	Dense Sand with Loose Sand Veneer (0.3m)	519.96	CPT-B12-520 CF	т	5	0.44	Sand	Very Loose to Dense		3.04	Sand	Very Dense		1.46	Sand	Medium Dense	
52	Dense Sand with Loose Sand Veneer (0.5m) Dense Sand with Loose Sand Veneer (0.3m)	522.365	CPT-B12-522 CF	PT	3	0.54	Sand	Loose to Very Dense		4.68	Sand	Very Dense					
52	Dense Sand with Loose Sand Veneer (0.3m)	522.365	VC-B12-522 V	c	3	6	Sand										
52	Dense Sand with Loose Sand Veneer (U.sm) Dense Sand with Loose Sand Veneer (0.3m)	523.365	VC-B12-523 V CPT-B12-524 CF	с Т	5	0.46	Sand	Loose to Dense		4.82	Sand	Verv Dense					
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	524.365	VC-B12-524 V	c	5	5.48	Sand										
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	525.367 526.364	VC-B12-525 V CPT-B12-526 CF	C PT	5	4.94	Sand	Loose to Very Dense		4.71	Sand	Verv Dense					
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	526.364	VC-B12-526 V	с	5	5.7	Sand										
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	526.886	VC-B12-527 V VC-B12-528 V	c	6	5.51	Sand			0.4	Peat			2.53	Sand		
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	528.491	CPT-B12-528 CF	ग	6	2.22	Sand	Loose to Very Dense		0.6	Sand	Loose to Medium Dense		2.42	Sand	Very Dense	
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	529.365	VC-B12-529 V CPT-B12-530 CF	с	7	4.46	Sand	Very Loose to Dense		19	Sand	Dense		2.06	Sand	Very Dense	
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	530.366	VC-B12-530 V	c	7	4.98	Sand										
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	531.365	VC-B12-531 V CPT-B12-532 CI	C T	7	4.98	Sand	Medium Dense to Dense		12	Sand	Very Dense					
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	532.365	VC-B12-532 V	c	7	5	Sand			***	Juna	ing built					
53 53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	533.491 534.401	VC-B12-533 V CPT-B12-534 C	с	6	4.84	Sand	Very Loose to Dense		4.26	Sand	Very Dense				<u> </u>	
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	534.401	VC-B12-534 V	c	6	5.54	Sand			7.60	Juna	ing built					
53 53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	535.366	VC-B12-535 V VC-B12-536 V	c c	6	6 5.76	Sand Sand	+								<u> </u>	
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	536.495	CPT-B12-536 CF	PT	6	0.86	Sand	Very Loose to Dense		4.44	Sand	Very Dense					
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	537.106	VC-B12-537 V	c C	5	5.62	Sand	+									
53	Medium Dense Sand with Loose Sand Veneer (U.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	539.054	CPT-B12-536 V	PT I	5	5./1	Sand	Very Loose to Dense		3.8	Sand	Very Dense					
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	539.377	VC-B12-539 V	c C	7	4.05	Sand						-				
53	Medium Dense sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	540.44	vc-в12-540 V СРТ-B12-540 СК	ग	7	5.89	Sand	Medium Dense to Dense		0.08	Clay		High	3.2	Sand with thin bands of Clav	Very Loose to Dense	Low
53	Medium Dense Sand with Loose Sand Veneer (0.2m)	541.037	VC-B12-541 V	c	7	5.61	Sand				-						
53	Medium Dense Sand with Loose Sand Veneer (0.2m) Medium Dense Sand with Loose Sand Veneer (0.2m)	542.364	VC-B12-542 V CPT-B12-542 CF	ग	7	2.9	Siity Sand Sand	Medium Dense to Dense		0.4	Clay		Medium Medium to High	0.64	Sand	Very Dense	
54	Loose Sand	543.219	VC-B12-543 V	c	6	6	Sand			-					-		
54 54	Loose Sand Loose Sand	544.365 544.367	VC-B12-544 V СРТ-B12-544 СК	र ग	6	5.9 1.24	Sand Sand	Very Loose to Dense		3.18	Sand	Very Dense					
54	Loose Sand	545.236	VC-B12-545 V	c	6	1.9	Sand			0.23	Peat			2.13	Sand		
54	Loose Sand Loose Sand	546.838	VC-B12-546 V CPT-B12-546 CF	C T	7	5.66	Sand	Very Loose to Dense		3.25	Sand	Verv Dense					
54	Loose Sand	547.436	VC-B12-547 V	с	8	5.36	Sand										
54	Loose Sand	548.365	CPT-B12-548 CF VC-B12-548 V	ет C	8	2.14	Sand	Very Loose to Dense		3.16	Sand	Very Dense					
54	Loose Sand	549.48	VC-B12-549 V	c	8	1.97	Sand			0.5	Peat			3.4	Sand		
54	Loose Sand	550.491	VC-B12-550 V	C	8	1.77	Sand	Vend opre to Medium Depre		0.27	Peat		Modium to High	3.32	Sand	Donro to Van Donro	
54	Loose Sand	551.821	VC-B12-551 V	C	8	2.05	Sand	very bose to medium bense		1.13	Peat		Wediam to high	2.63	Sand	Dense to very Dense	
54	Loose Sand	552.364	VC-B12-552 V	C	8	2.57	Sand	Variation to Dance		0.25	Silt	Ver Deres		2.95	Sand		Adaptives to Ulab
54	Loose Sand	553.365	VC-B12-553 V	c	8	2.23	Sand	Very Loose to Dense		0.13	Silt	very bense	Very Low	1.3	Sand		Medium to High
54	Loose Sand	554.464	CPT-B12-554 CF	т	8	1.62	Sand	Very Loose to Loose		0.5	Clay		Medium to High	3.16	Sand	Very Dense	
54	Loose Sand	555.242	VC-B12-555 V	c	8	6	Sand										
54	Loose Sand	556.658	VC-B12-556 V	C	8	1.55	Sand			0.32	Peat			4.13	Sand		
54	Loose Sand Loose Sand	556.659	CPT-B12-556 CF VC-B12-557 V	с	7	1.18	Sand	Very Loose to Medium Dense		0.36	Clayey Peat		Medium	3.66	Sand	Very Dense	
54	Loose Sand	558.365	CPT-B12-558 CF	т	7	1.16	Sand	Very Loose to Loose		0.18	Clayey Peat			3.86	Sand	Very Dense	
54	Loose Sand Loose Sand	558.365	VC-B12-558 V VC-B12-559 V	c c	7	1.48	Sand Silty Sand			0.28	Peat Peat and Clav			4.02	Silty Sand Sand		
54	Loose Sand	560.364	CPT-B12-560 CF	۲. T	5	0.74	Sand	Very Loose to Dense		4.36	Sand	Very Dense					
54	Loose Sand	560.365	VC-B12-560 V	c	5	5.69	Sand										
54	Loose Sand	562.364	CPT-B12-562 CF	र ।	5	0.9	Sand	Very Loose to Medium Dense		0.4	Clay		Low to Medium	3.86	Sand	Very Dense	
54	Loose Sand	562.365	VC-B12-562 V VC-B12-563 V	c	5	5.51	Sand										
54	Loose Sand	563.911	CPT-B12-564 CF	ग	5	0.76	Sand	Very Loose to Loose		4.38	Sand	Very Dense					
54	Loose Sand	563.914	VC-B12-564 V	c c	5	0.69	Sand			0.19	Peat			4.43	Sand		
54	Loose Sand	566.365	VC-B12-566 V	c	5	5.46	Sand										
54	Loose Sand	566.366	CPT-B12-566 CF	PT	5	0.7	Sand	Very Loose to Dense		4.44	Sand	Very Dense					
54	Loose Sand	568.437	CPT-B12-568 CF	PT	6	1.36	Sand	Very Loose to Very Dense		3.8	Sand	Very Dense					
54	Loose Sand	568.437	VC-B12-568 V	c	6	5.06	Sand	+									
54	Loose Sand	571.49	VC-B13-509 V VC-B13-571 V	c	6	4.65	Sand	<u> </u>									
54	Loose Sand	572.364	VC-B13-572 V	c T	6	1.77	Sand	Venul agree to Degree		1.35	Clay and Peat		Low	2.69	Sand	Von Doore	
55	Loose Sand Very Loose Sand	572.366	VC-B13-572 CF	C	6	4.76	Sand	Very Loose to Dense		1.54	ciay and Peat		Low to Medium	2.08	Sand	very Dense	
55	Very Loose Sand	574.06	VC-B13-574 V	c	6	4.36	Sand										
55 55	Very Loose Sand Very Loose Sand	574.061 575.365	VC-B13-575 V	c	6	0.9	Sand Sand	very Loose to Medium Dense		4.24	Sand	Very Dense				<u> </u>	
55	Very Loose Sand	576.364	VC-B13-576 V	C	6	1.51	Sand	Manufactor		0.09	Peat		pr 100.7	3.08	Sand	No. 5	
55 55	Very Loose Sand Very Loose Sand	576.366 577.366	VC-B13-576 CF	c	9	1.2	Sand Sand	very Loose to Loose		0.24	Clay and Peat Clay and Peat		Very High Very Low	3.69	Sand Sand	very Dense	
55	Very Loose Sand	578.366	VC-B13-578 V	c	6	1.63	Sand	Manufactoria in the		0.54	Clay		Extremely Low	3.83	Sand	No. 5	
55	Very Loose Sand Very Loose Sand	579.21	VC-B13-579 V	c	9	1.18	Sand	very Loose to Derise		0.14	Clay and Peat		Low to Medium	3.8	Sand	very pense	
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	580.49	VC-B13-580 V	c	8	1.93	Sand			0.65	Clay and Peat		Very Low	3.16	Sand		
56 56	Medium Dense Sand with Loose Sand Veneer (1.0m) Medium Dense Sand with Loose Sand Veneer (1.0m)	580.492 581.08	CPT-B13-580 CF VC-B13-581 V	с	8	2.02	Sand Sand	Loose to Dense		1.02 1.99	Clay Silt and Clav		Low to Medium Extremely Low	0.2	Peat Peat	-	
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	582.467	VC-B13-582 V	c	8	2.19	Sand			1.77	Silt and Clay		Very Low	0.23	Peat		7.5.5
56 56	Medium Dense Sand with Loose Sand Veneer (1.0m) Medium Dense Sand with Loose Sand Veneer (1.0m)	582.469 583 365	CPT-B13-582 CF VC-B13-583 V	c	8	2.16 3.67	Sand Sandv Silt	Very Loose to Dense		1.32 0.99	Clay Clay and Peat		Low to Medium Low	0.36	Peat Sand	-	High
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	584.365	VC-B13-584 V	c	8	2.37	Sand			2.43	Sandy Silt		Very Low	0.41	Clay and Peat		7.5.5
56 56	Medium Dense Sand with Loose Sand Veneer (1.0m) Medium Dense Sand with Loose Sand Veneer (1.0m)	584.366 585 364	CPT-B13-584 CF VC-B13-585 V	c	8	3.21 1.39	Sand Sand	Loose to Very Dense		1.54 2.55	Sandy Silt Sandy Silt		Low to High Verv Low	0.14	Peat Clav		High
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	586.365	VC-B13-586 V	c	8	3.54	Sand			1.37	Silt and Clay		Very Low	0.72	Clay and Peat		
56 56	Medium Dense Sand with Loose Sand Veneer (1.0m) Medium Dense Sand with Loose Sand Veneer (1.0m)	586.366 587.365	CPT-B13-586 CF VC-B13-587 V	c	8	3.48 2.14	Sand Sand	very Loose to Medium Dense		1.64 3.11	Clay Silt and Clav		Low to High Very Low	0.32	Peat Sand and Peat	-	Medium
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	588.365	VC-B13-588 V	c	8	4.95	Sand and Silt	Manufacture and the second sec		1.05	Clay		Low				
56 56	Medium Dense Sand with Loose Sand Veneer (1.0m) Medium Dense Sand with Loose Sand Veneer (1.0m)	588.366 589.365	CPT-B13-588 CF VC-B13-589 V	c	8	2	Sand and Silt Sand	very Loose to Medium Dense		1.64 4.01	Clay Silt and Clav		Medium to High	0.8	Sand Clay	Loose	
56	Medium Dense Sand with Loose Sand Veneer (1.0m)	590.366	VC-B13-590 V	c	7	0.76	Sand			2.41	Sandy Silt		Very Low	2.16	Clay		
56 57	Medium Dense Sand with Loose Sand Veneer (1.0m) Loose Sand with Very Loose Sand Veneer (1.0m)	590.368 591 364	CPT-B13-590 CF VC-B13-591 V	c	7 8	1.14 3.83	Sand Sand and Silt	very Loose to Medium Dense		4.08 0.23	Sandy Silt Peat		Low to High	1.94	Sand	-	
57	Loose Sand with Very Loose Sand Veneer (1.0m)	592.826	VC-B13-592 V	c	8	3.71	Veneer of Gravel then Silt			0.13	Peat			2.16	Sand		
57 57	Loose Sand with Very Loose Sand Veneer (1.0m) Loose Sand with Very Loose Sand Veneer (1.0m)	592.827 593 366	CPT-B13-592 CF VC-B13-593 V	с	8	2.84 3.83	Veneer of Gravel then Silt Veneer of Gravel then Silt	Very Loose to Loose		0.92	Clay Peat		Medium to High	0.12	Peat Sand		
57	Loose Sand with Very Loose Sand Veneer (1.0m)	594.364	CPT-B13-594 CF	т	8	3.2	Veneer of Gravel then Silt	Very Loose to Medium Dense		0.12	Peat		Medium	1.74	Sand	Very Dense	
57 57	Loose Sand with Very Loose Sand Veneer (1.0m)	594.366 595.367	VC-B13-594 V VC-B13-595 V	c c	8	3.08	Veneer of Gravel then Silt Sand with this bands of Clau			0.06	Peat			2.86	Sand	<u> </u>	
58	Loose Sand	596.364	CPT-B13-596 CF	т	9	1.12	Sand	Very Loose to Medium Dense		0.78	Clay and Peat			3.42	Sand	Very Dense	
58	Loose Sand	596.365	VC-B13-596 V VC-B13-597 V	c C	9	1.39	Sand and Silt	+	Extremely Low	0.86	Clay and Peat			3.42	Sand		
58	Loose Sand	598.365	CPT-B13-598 CF	т	7	1.42	Sand	Very Loose to Loose		3.84	Sand	Very Dense					
58 58	Loose Sand	598.366 599.365	VC-B13-598 V VC-B13-599 V	c c	7	5.61	Sand	+								<u> </u>	
58	Loose Sand	600.364	CPT-B13-600 CF	т	5	0.72	Sand	Very Loose to Dense		4.56	Sand	Very Dense					
58	Loose Sand	600.365	VC-B13-600 V VC-B13-601 V	c c	5	5.6	Sand	+		0.48	Pest			3.64	Sand	<u> </u>	
58	Loose Sand	602.363	VC-B13-602 V	c	5	0.6	Sand			0.68	Peat			4.29	Sand		
58 58	Loose Sand	602.365	CPT-B13-602 CF VC-B13-603 V	от С	5	0.6	Sand	Very Loose to Loose		0.56	Peat		High	4.2	Sand	Very Dense	
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	604.365	VC-B13-604 V	c	5	5.75	Sand	<u> </u>		0.14	cidy		LOW	1.44	Dilac		
59	Medium Dense Sand with Loose Sand Veneer (0.15m) Medium Dense Sand with Loose Sand Veneor (0.15m)	604.367	CPT-B13-604 CF	т	5	0.7	Sand	Very Loose to Medium Dense		4.7	Sand	Very Dense					
	Medium Dense Sand with Loose Sand Veneer (0.15m)	606 277	VC-B13-606 V	c	5	4.86	Sand	1		0.14	Clav	1	Very Low	0.83	Sand	I	
59			10 013 000			4.00	Juna			0.14	City			0.05	Sand		

59	Medium Dense Sand with Loose Sand Veneer (0.15m)	607.365	VC-B13-607 VC	5	6 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	608 295	VC-B13-608 VC	3	6 Sand										
50	Modium Donco Sand with Looco Sand Veneor (0.1Em)	609 206	CDT P12 609 CDT	2	0.E4 Sand	Looro to Donro		4 73	Eand	Von Donco					
33	Medialit Delise salia with Loose salia velleel (0.1511)	008.290	CF1-813-008 CF1	3	0.34 3810	LOOSE to DElise		4.72	Jahu	Very Delise					
59	Medium Dense Sand with Loose Sand Veneer (U.15m)	609.365	VC-B13-609 VC	/	5.69 Sand			0.31	Clay		Very Low				
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	610.656	VC-B13-610 VC	7	6 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	610.657	CPT-B13-610 CPT	7	1.04 Sand	Loose to Dense		1.3	Clav		Medium to High	2.91	Sand	Very Dense	
50	Medium Dense Sand with Loose Sand Veneer (0.15m)	611 365	VC-B13-611 VC	6	6 Sand						-				
50	Mediani Benje Sana Wen Ebele Sana Veneer (8.15m)	011.505	VC 015 011 VC												
59	Medium Dense Sand with Loose Sand Veneer (U.15m)	612.364	VC-B13-612 VC	ь	6 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	612.365	CPT-B13-612 CPT	6	1.06 Sand	Very Loose to Dense		4.22	Sand	Very Dense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	613.365	VC-B13-613A VC	5	5.08 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	614 365	VC-B13-614 VC	5	3.62 Sand										
50	Madium Dance Cand with Lance Cand Verson (0.15m)	614.365	COT 013 C14 C07		0.7	Manula and to Dance		4.30	ford	Mary Danas					
29	Wedium Dense sand with Loose sand Veneer (0.15m)	014.305	CP1-B13-614 CP1	2	U.7 Sand	very coose to bense		4.38	Sano	very bense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	615.364	VC-B13-615 VC	5	5.73 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	616.364	VC-B13-616 VC	5	5.85 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	616 366	CPT-B13-616 CPT	5	0.6 Sand	Medium Dense to Dense		4.5	Sand	Very Dense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	617 365	VC-B13-617 VC	5	5.62 Sand										
50	Mediani Benje Sana War Ebelje Sana Veneci (8.15m)	017.505	10 010 010		5.62										
59	Medium Dense Sand with Loose Sand Veneer (U.15m)	618.675	VC-B13-618 VC	5	6 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	618.675	CPT-B13-618 CPT	5	1.7 Sand	Loose to Very Dense		3.4	Sand	Very Dense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	619.19	VC-B14-619 VC	5	4.16 Sand			0.39	Silty Peat			1.25	Sand		
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	620 365	CPT-B14-620 CPT	3	0.56 Sand	Loose to Dense		4 56	Sand	Very Dense					
50	Medium Donce Sand with Loose Sand Vencer (0.15/11)	620.305	1/C P14 620	2	4.2 52-1	course to benue		4.50	Junio	very benae		-		1	
37	weulum bense sand with Loose Sand Veneer (0.15m)	020.305	VC-014-020 VC	3	4.2 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	621.716	VC-B14-621 VC	3	5.5 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	622.364	CPT-B14-622 CPT	3	0.48 Sand	Loose to Dense		4.6	Sand	Very Dense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	622.364	VC-B14-622 VC	3	2.32 Sand			3.43	Sand with thin bands of Clav						
50	Medium Dense Sand with Loose Sand Veneer (0.15m)	623 305	VC-B14-623 VC	5	5.9 Sand										
50	Medium Dense Sand with Loose Good Veneer (0.15m)	624.355	COT 014 C24 C0T		5.5 Said	Madium Danas to Mary Danas									
29	Medium Dense sand with Loose sand Veneer (0.15m)	624.756	CP1-B14-624 CP1	3	3.12 Sand	Medium Dense to very Dense									
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	624.758	VC-B14-624 VC	5	6 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	625.365	VC-B14-625 VC	5	5.84 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	627.015	VC-B14-626 VC	5	5.41 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	627.016	CPT-B14-626 CPT	5	1.18 Sand	Medium Dense to Very Dense		3.08	Sand	Very Dense					
50	Medium Dense Sand with Loose Sand Veneer (0.15m)	627.575	VC R14 627 VC	6	3.3 Sand	inclum bense to very bense		0.25	Clay	Very benae	Low	2.10	Fand		
39	Wedialit Delise salia with Loose salia Velleel (0.1511)	027.375	VC-B14-027 VC	0	2.3 3810			0.33	Ciay		LOW	3.19	Janu		
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	628.398	CPT-B14-628 CPT	6	3.02 Sand	Loose to Dense		2.08	Sand	Very Dense					
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	628.398	VC-B14-628 VC	6	5.54 Sand										
59	Medium Dense Sand with Loose Sand Veneer (0.15m)	629.44	VC-B14-629 VC	6	5.72 Sand										
60	Medium Strength Clay with Low Strength Veneer (0.2m)	630.058	VC-B14-630 VC	7	1 35 Clav		Madium	0.49	Peat			3 78	Sand	1	
00	Medium Stength Clausith Law Granath Veneral (0.2m)	630.050	CDT 014 030 CDT	7	1.33		Madium Character Class with Law Character Visionan (0, 2m)	0.45	Peat		Manadulah	3.70	Sund	Mary Danas	
00	Medium Strength Clay with Low Strength Veneer (0.2m)	030.001	CP1-B14-030 CP1	/	1.32 Udy		wedium strength clay with Low strength veneer (0.2m)	0.54	Pear		very high	1.25	Salid	very bense	
60	Medium Strength Clay with Low Strength Veneer (0.2m)	630.907	VC-B14-631 VC	7	2.12 Silty Sand			0.46	Peat			2.84	Sand		
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	632.364	CPT-B14-632 CPT	6	0.54 Silty Sand	Loose to Dense		4.58	Sand	Very Dense					
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	632,365	VC-B14-632 VC	6	5.6 Sand										
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	633 479	VC-B14-633 VC	6	4.06 Sand			1 14	Clay		Medium				
61	includin bende sand war very edose sand veneer (0.15m)	633.475	100140000 100		4.00			1.14	City		Wiedidini				
10	Medium Dense sand with Very Loose sand Veneer (0.15m)	034.072	CP1-B14-034 CP1	/	2.04 Sand	Loose to very bense		0.16	Pear		Higri	2.92	Salid	very bense	
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	634.674	VC-B14-634 VC	7	1.23 Sand			0.1	Clay		Very Low	4.13	Sand		
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	635.366	VC-B14-635 VC	7	5.6 Sand										
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	636.365	CPT-B14-636 CPT	3	0.54 Sand	Very Loose to Dense		3.58	Sand	Very Dense		1.02	Clay		Medium to High
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	636 365	VC-B14-636 VC	3	4.62 Sand			1 38	Clay		low				
61	Medium Donce Sand with Von Lonce Sand Vencer (0.15m)	627.265	VC P14 627 VC		4.12 50-1			1.60	Clay		Modium				
10	weatum Dense sand with very Loose sand veneer (0.15m)	037.300	vC-B14-03/ VC	0	4.12 5400			1.09	Clay		Medium			-	
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	638.676	VC-B14-638 VC	8	2.82 Sand			1.93	Clay		Medium				
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	638.677	CPT-B14-638 CPT	8	1.12 Sand	Very Loose to Very Dense		3.98	Clay		Low to Medium			1	
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	639.364	VC-B14-639 VC	5	0.9 Sand			0.74	Silt		Medium	3.86	Sand		
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	640 366	CPT-B14-640 CPT	5	0.58 Sand	Loose to Dense		45	boe2	Very Dense					
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m)	640.300	211 014 040 211		2.77	LOOSE to bende		9.5	Class	Very benae	A da allura	1.10	freed		
10	wedium bense sand with very Loose Sand Veneer (0.15m)	040.366	VC-B14-040 VC	3	3.77 Sand			U.4b	clay		wedium	1.46	sand		
61			VC D14 641 VC	6	4.09 Sand			1.01	Clav		Medium	0.25	Deet		
61	Medium Dense Sand with Very Loose Sand Veneer (U.15m)	641.366	VC-B14-041 VC	0								0.25	Pedl		
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m)	642.749	VC-B14-642 VC	6	2.6 Sand			0.14	Clay		Very Low	1.77	Sand		
V1	Medium Dense Sand with Very Loose Sand Veneer (U.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m)	642.749 642.75	VC-B14-642 VC VC-B14-642 VC CPT-B14-642 CPT	6	2.6 Sand 2.82 Sand	Medium Dense to Dense		0.14	Clay Sand	Very Dense	Very Low	1.77	Sand		Medium
61	Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m)	642.749 642.75 643.365	VC-B14-642 VC VC-B14-642 VC CPT-B14-642 CPT VC-B14-643 VC	6	2.6 Sand 2.82 Sand 4.5 Sand	Medium Dense to Dense		0.14 1.46	Clay Sand	Very Dense	Very Low	1.77 0.82	Sand Clay		Medium
61	Medium Derse Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m)	642.749 642.75 643.365	VC-B14-641 VC VC-B14-642 VC CPT-B14-642 CPT VC-B14-643 VC	6 6 6	2.6 Sand 2.82 Sand 4.5 Sand	Medium Dense to Dense		0.14 1.46	Clay Sand	Very Dense	Very Low	0.25	Sand Clay		Medium
61 61	Medium Dense Sand with Very Loose Sand Veneer (0.15m) Medium Dense Sand with Very Loose Sand Veneer (0.15m)	642.749 642.75 643.365 644.241	VC-B14-641         VC           VC-B14-642         VC           CPT-B14-642         CPT           VC-B14-643         VC           VC-B14-644         VC	6 6 6 7	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand	Medium Dense to Dense		0.14 1.46	Clay Sand Clay	Very Dense	Very Low Low	0.77 0.82 0.76	Sand Clay Sand		Medium
61 61 61	Medium Lenes sland with Very Looss and Veneer (Li Jam) Medium Denes Sand with Very Looss Sand Veneer (Di Jam) Medium Denes Sand with Very Looss Sand Veneer (Di Jam) Medium Denes Sand with Very Looss Sand Veneer (Di Jam) Medium Denes Sand with Very Looss Sand Veneer (Di Jam) Medium Denes Sand with Very Looss Sand Veneer (Di Jam)	642.749 642.75 643.365 644.241 644.242	VC-814-641         VC           VC-814-642         VC           CPT-814-642         CPT           VC-814-643         VC           VC-814-644         VC           CPT-814-644         CPT	6 6 6 7 7 7	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand	Medium Dense to Dense		0.14 1.46 1.23 4.7	Clay Sand Clay Sand	Very Dense Medium Dense to Very Dense	Very Low Low	0.77 0.82 0.76	Sand Clay Sand		Medium
61 61 61 61 61	Medium berse Sand with very Looes Sand verneer (0.5m) Medium Dense Sand with Very Looes Sand Verneer (0.5m) Medium Dense Sand with Very Looes Sand Verneer (0.5m) Medium Dense Sand with Very Looes Sand Verneer (0.15m) Medium Dense Sand with Very Looes Sand Verneer (0.15m) Medium Dense Sand with Very Looes Sand Verneer (0.15m) Medium Dense Sand with Very Looes Sand Verneer (0.15m)	642.749 642.75 643.365 644.241 644.242 645.366	VC-814-642         VC           VC-814-642         VC           CPT-814-642         CPT           VC-814-643         VC           CPT-814-644         VC           CPT-814-644         VC           VC-814-645         VC	6 6 6 7 7 7 8	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand	Medium Dense to Dense		0.14 1.46 1.23 4.7	Clay Sand Clay Sand	Very Dense Medium Dense to Very Dense	Very Low Low	0.77 0.82 0.76	Sand Clay Sand		Medium
61 61 61 61 61 62	Medium Dense Sand with very Loose Sand venner (0.5m) Medium Dense Sand with Very Loose Sand Venner (0.5m) Low Strengt Clay with Medium Dense Sand Venner (0.6m)	642.749 642.75 643.365 644.241 644.242 645.366 646.365	VC-B14-642 VC CPT-B14-642 CPT VC-B14-643 VC VC-B14-644 VC CPT-B14-644 CPT VC-B14-645 VC CPT-B14-646 CPT	6 6 7 7 8 8	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand           1.6         Sand and Clay	Medium Dense to Dense	Low	0.14 1.46 1.23 4.7 0.3	Clay Sand Clay Sand Peat	Very Dense Medium Dense to Very Dense	Very Low Low High	0.77 0.82 0.76	Sand Clay Sand Sand	Very Dense	Medium
61 61 61 61 62 62	Medium Dente Sand with Very Loose Sand Venter (0.15m) Medium Dente Sand with Very Loose Sand Venter (0.15m) Low Strength Clay with Medium Dentes Sand Venter (0.15m)	642.749 642.75 643.365 644.241 644.242 645.366 646.365 646.365	VC-B14-642 VC CPT-B14-642 CPT VC-B14-643 VC VC-B14-644 VC CPT-B14-644 VC CPT-B14-644 CPT VC-B14-645 VC CPT-B14-646 CPT	6 6 7 7 8 8 8	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand           1.6         Sand and Clay           1.8         Sand and Clay	Medium Dense to Dense	Low	0.14 1.46 1.23 4.7 0.3 0.27	Clay Sand Clay Sand Peat Peat	Very Dense Medium Dense to Very Dense	Very Low Low High	0.82 0.76 3.38 4.21	Sand Sand Clay Sand Sand Sand	Very Dense	Medium
61 61 61 61 62 62 62	Medium Dense Sand with Very Loose Sand Veneer (0.5m) Medium Dense Sand with Very Loose Sand Veneer (0.5m) Low Strength Clay with Medium Denses Sand Veneer (0.4m) Low Strength Clay with Medium Denses Sand Veneer (0.4m) Medium Dense Sand with Very Loose Sand Veneer (0.4m)	641.366 642.749 642.75 643.365 644.241 644.242 645.366 646.365 646.365 646.366	VC-B14-642 VC CPT-B14-642 VC VC-B14-643 VC VC-B14-644 VC CPT-B14-644 VC CPT-B14-644 CPT VC-B14-645 VC CPT-B14-646 CPT VC-B14-646 VC	6 6 7 7 8 8 8 8 8	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand           1.6         Sand and Clay           1.36         Sand and Clay	Medium Dense to Dense	Low Vey Low	0.14 1.46 1.23 4.7 0.3 0.27 0.14	Clay Sand Clay Sand Peat Peat Boot	Very Dense Medium Dense to Very Dense	Very Low Low High	0.77 0.82 0.76 3.38 4.21 4.25	Sand Clay Sand Sand Sand Sand	Very Dense	Medium
61 61 61 61 62 62 63 63	Medium Detric Sand with Very Looks Sand Verheir (0.15m) Medium Denos Sand with Very Looks Sand Verheir (0.15m) Look Strength Clay with Medium Denos Sand Verheir (0.15m) Medium Denos Sand with Very Looks Sand Verheir (0.15m) Look Strength Clay with Medium Denos Sand Verheir (0.15m) Medium Denos Sand with Very Looks Sand Verheir (0.15m)	641.366 642.749 642.75 643.365 644.241 644.242 645.366 646.365 646.365 646.366	VC-B14-642         VC           VC-B14-642         VC           VC-B14-643         VC           VC-B14-644         VC           VC-B14-644         VC           VC-B14-644         VC           VC-B14-644         VC           VC-B14-644         VC           VC-B14-644         CPT           VC-B14-645         VC           VC-B14-646         VC           VC-B14-646         VC           VC-B14-646         VC           VC-B14-647         VC	6 6 7 7 8 8 8 8 8 8 8 8 8	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand           1.6         Sand and Clay           1.36         Sand and Clay           1.41         Sand	Medium Dense to Dense	Low Very Low	0.14 1.46 1.23 4.7 0.3 0.27 0.14	Clay Sand Clay Sand Peat Peat Peat	Very Dense Medium Dense to Very Dense	Very Low Low High	0.77 0.82 0.76 3.38 4.21 4.25	Sand Clay Sand Sand Sand Sand Sand Sand	Very Dense	Medium
61 61 61 61 62 62 63 63	Medium Dente Sand with Very Looes Sand Veneer (1.1 sm) Medium Dente Sand with Very Looes sind Veneer (1.1 sm) Medium Dentes Sand with Very Looes sind Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Loo Xerength Clay with Medium Dentes Sand Veneer (1.1 sm) Low Strength Clay with Medium Dentes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Low Strength Clay with Medium Dentes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm) Medium Dentes Sand with Very Looes Sand Veneer (1.1 sm)	641.366 642.75 643.365 644.241 644.241 644.242 645.366 646.365 646.365 646.366 647.396 648.152	VC-814-642         VC           VC-814-642         VC           VC-814-642         VC           VC-814-643         VC           VC-814-644         VC           VC-814-645         VC           VC-814-646         VPT           VC-814-646         VPT           VC-814-646         VPT           VC-814-647         VC           VC-814-648         VC           VC-814-648         VC	6 6 7 7 8 8 8 8 8 8 8 5	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand and Clay           1.6         Sand and Clay           1.36         Sand and Clay           1.36         Sand and Clay           1.41         Sand	Medium Dense to Dense Loose to Medium Dense Medium Dense to Dense	Low Very Low	0.14 1.46 1.23 4.7 0.3 0.27 0.14	Clay Sand Clay Sand Peat Peat Peat Peat	Very Dense Medium Dense to Very Dense	Very Low Low High	0.77 0.82 0.76 3.38 4.21 4.25	Sand Clay Sand Sand Sand Sand Sand Sand	Very Dense	Medium
61 61 61 62 62 63 63 63	Medium Dente Sand with very Looes Sand Veneer (0.15m) Medium Dente Sand with Very Looes Sand Veneer (0.15m) Low Strength Clay with Medium Dentes Sand Veneer (0.15m) Medium Dente Sand with Very Looes Sand Veneer (0.15m)	641.366 642.75 643.365 644.241 644.242 645.366 646.365 646.365 646.366 647.396 648.152 648.153	VC-814-641         VC           VC-814-642         VC           VC-814-643         VC           VC-814-643         VC           VC-814-644         VC           CPT-814-645         VC           VC-814-645         VC           VC-814-645         VC           VC-814-645         VC           VC-814-646         VC           VC-814-647         VC           VC-814-648         VC           VC-814-648         VC           VC-814-648         VC           VC-814-648         VC	6 6 7 7 8 8 8 8 8 8 8 8 5 5	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand           1.6         Sand and Clay           1.41         Sand           5.59         Sand           5.89         Sand	Medium Dense to Dense	Low Very Low	0.14 1.46 1.23 4.7 0.3 0.27 0.14 0.1	Clay Sand Clay Sand Peat Peat Peat Clay	Very Dense	Very Low Low High Medium	0.77 0.82 0.76 3.38 4.21 4.25 4.3	Sand Clay Sand Sand Sand Sand Sand	Very Dense Very Dense	Medium
61 61 61 62 62 63 63 63 63	Medium Dente Sand with Very Looes Sand Veneer (0.15m) Medium Dentes Sand with Very Looes Sand Veneer (0.15m) Medium Dentes Sand with Very Looes Sand Veneer (0.15m) Looe Strongth Clay with Medium Dentes Sand Veneer (0.15m) Medium Dentes Sand with Very Looes Sand Veneer (0.15m) Dente Sand with Very Looes Sand Veneer (0.15m) Medium Dentes Sand with Very Looes Sand Veneer (0.15m)	641.366 642.75 643.365 644.241 644.242 645.366 646.365 646.365 646.366 647.396 648.152 648.153 649.365	VC-814-642         VC           VC-814-642         VC           VC-814-643         VC           VC-814-643         VC           VC-814-643         VC           VC-814-644         VC           VC-814-646         VC           VC-814-646         VC           VC-814-646         VC           VC-814-648         VC           VC-814-648         VC           VC-814-648         VC           VC-814-648         VC           VC-814-649         VC	6 6 7 7 8 8 8 8 8 8 8 5 5 5	2.6         Sand           2.82         Sand           4.5         Sand           3.18         Sand           0.38         Sand           5.5         Sand and Cay           1.6         Sand and Cay           1.36         Sand and Cay           1.36         Sand and Cay           1.41         Sand           5.59         Sand           0.86         Sand           0.25         Sand	Medium Dense to Dense Loose to Medium Dense Medium Dense to Dense Loose to Very Dense Loose to Very Dense	Low Very Low	0.14 1.46 1.23 4.7 0.3 0.27 0.14 0.1 0.14	Clay Sand Clay Peat Peat Peat Clay Clay	Very Dense Medium Dense to Very Dense	Very Low Low High Medium Very Low	0.22 0.77 0.82 0.76 3.38 4.21 4.25 4.3 3.73	Sand Clay Sand Sand Sand Sand Sand Sand Sand	Very Dense Very Dense	Medium

# **APPENDIX B**

CRBA – Risk Register



Hazard log Ref	Hazard Class	Hazard Description (potential)	Risk Description	likelihood	nitial Risk Ratio	ng Risk rating	Mitigation	Re	sidual Risk Rat	ing Risk rating
Natural				Likelinoou	Sevency			Likelinoou	Seventy	
1	Bathymetry	Influences presence of other natural and anthropogenic hazards.	See hazard No.12 (Mobile Sediment) for risk from bathymetric features identified along the NeuConnect Interconnector route.							
2	Seabed topography	Uneven seabed topography may lead to more variable burial requirements.	The NeuConnect crosses area of ripples (<1m height) and mege-ripples (1 to 3 m height) and sandwaves. Local burial depth may be adjusted upwards by the sandwave height resulting in degraded thermal performance leading to potential derating.	4	2	8	Ensure cable's design can tolerate short spans of increased burial depths.	1	2	2
3	Seabed obstructions (not identified during pre- installation)	Obstruction will result in section out of burial specification.	Not applicable, only applicable to as-built cable. Not scored							
4	Shallow gas	Represent a danger to vessels / personnel.	Applicable to installation and as-built cable but not to present CBRA. Not scored.							
5	Currents / waves	Abrasion, stress and fatigue where cable crosses rock/rough terrrain. Can induce loading on cable connectors. Can mobilise sediment exposing cables to further primary hazards. Metocean conditions likely to impact on surface laid cable and also influence sediment mobility.	Risk associated with protection for rocky terrain is design specific, thus outside CBRA scope. <b>Not scored.</b> See hazard No.12 for risk from Mobile Sediment. For surface laid there would be potential for damage from wave/current actions, predominantly in shallow waters.	2	3	6	CBRA to include consideration of wave/current action should surface laid be acceptable from anthropogenic threats. For protection in rocky areas, a design risk assessment would be required.	1	2	2
6	Density / turbidity currents	These may results from a number of phenomena and can travel at speed over great distances to significant depths. Can cause tensional breaks, abrasions or may bury cables.	Risk associated with unprotected cables (torsional breaks and abrasions) is design specific, thus outside CRBA scope. <b>Not Scored.</b> See hazard No.12 for risk from increased burial depth (Mobile Sediment).							
7	Fish bites	Can damage insulation: historically mainly occurred with telegraph cables but recent occurences have been noted occasionally.	Not plausible threat to a power cable.	1	1	1	No futher mitigation anticipated.			
8	Extreme weather	An increase in current and wave strengh, can increase sediment input and bury cables deeper than designed.	See hazard No.12 for risk from increased/decreased burial depth (Mobile Sediment).							
9	Submarine earthquakes	Cause submarine landslides or turbidity currents increasing/reducing sediment cover exposing cables to primary risk.	The NeuConnect route resides in an area that is tectonically stable and away from a continental shelf/plate boundary; therefore, is it not expected that any significant hazards of this nature present on the route. No areas of unstable sediment were encountered along the NeuConnect route.	1	3	3	No futher mitigation anticipated.			
10	Submarine volcanoes	Directly impact cables through contact or trigger submarine landslides (see above).	No live submarine volcano in the area. <b>Not scored.</b>							
11	Icebergs	Can directly impact on cables in shallow water depth as they scour the seabed. Not anticipated along the cable! route.	Not plausible. <b>Not scored.</b>							
Soil Cont	Sitions Mobile Sediment	Sand Wave or megaripple mobility could cause deburial or increased burial of the cable.	There are a number of areas within the NeuConnect 500m corridor where there are bedforms present which could be mobile. The first indication of mobile bedforms can be observed at KP11. These have been interpreted by MMT as ripples and have a wave length of <15m and height <1.0 m. Ripples are observed intermittently throughout the route where they terminate at KP304 and do not appear again until KP620 and extent to the end of the route at KP700. While these may indicate some levels of sediment movement it is not thought that these minor bedforms will have an impact to the cable installation or operability. Mega Ripples are also observed intermittently throughout the corridor, between KP108 & KP190 and then between KP669 and KP700. These are slightly larger than ripples and have a wave length of 15-50m and height 1-3m so may pose a risk to an installed cable within its lifetime. Sandwaves present within the route corridor and are first observed between KP78 and KP 80. These have been interpreted by MMT to have a wave length 50-200m and height of >3 m. Sandwaves are next present at KP 106 and remain as intermittent features until KP294. They do not appear again until between KP673 and KP700. The risk is that information gaps concerning the extent of sediment mobility means that the recommended DoL contingency is either too low or too high. The consequence is either lower protection or higher CAPEX.	3	2	6				
13	Fishing	Snagging of cables with fishing gear and damage during retrieval of gear. Seabed interacting gear reducing sediment coverage above cable.	Due to inaccurate characterisation of presence of mobile fishing types there is a risk of misunderstanding the risk of mechanical damage to the installed cable. Consequence is misspecification of recommended minimum DoL leading to either greater CAPEX or greater risk of damege to the installed cable. Leads to requirement to inspect and potentially to repair. Other consequence is cable outtage and increase of monitoring requirements.	1	1	1	No further mitigation expected. Base case assumes sufficient burial to protect from known regional fishing threats applied to the whole cable route.	1	1	1
14.A	Shipping/Anchoring	Snagging of cables during normal or emergency	Due to inaccurate characterisation of shipping or soils there is a risk of misunderstanding the risk of mechanical damage to the installed cable. Consequence is misspecification of recommended minimum DoL leading to either greater CAPEX or greater risk of damege to the installed cable. Leads to requirement to inspect and potentially to repair. Other consequence is cable outtage and increase of monitoring requirements.	3	3	9	Revise the CBRA following significant changes to shippings patterns. (scored on a basis of shipping pattern changes).	2	2	4
14.B		anchoring procedures.	Due to cable design for a return period of 40 years, there is a residual risk of mechanical damage.	1	2	2	No further mitigation required.	1	1	1

15	Dredging / Aggregate Extraction / Subsea Mining / Dumping	Direct contact to the cable from the dredging equipment or reduction in seabed cover increasing risk to cable.	Aggregation, dredging and dumping ground have all been avoided with the exception on the very nearshore landfall area in Germany. The route has no option but to cross a known dredging area between approximately KP 696 and 697. Within this area the water depth is constantly maintained at 17.6m. The Nordergründe Export Cable is also observed to cross this area. The as laid data indicates that the export cable is buried to between 5 and 6m crossing the dredged area.	3	3	9	Sufficent DoL will be defined in the CBRA assessment to mitigate risk	2	3	6
16	Other cables, umbilical, Pipelines	Reduced depth of lowering at crossing and/or proximity of third-party operation.	The NeuConnect Interconnector will cross a total of 89 existing subsea linear assets (29 in services cables, 45 out of service cable1 13 in service pipeline and 2 abandonned pipelines). Outside of CBRA scope, thus <b>not</b> <b>scored.</b>				Crossings will be subject to design risk assessment.			
17	Exclusions Misc. Activities	Such as construction, rock dumping, marine surveys, leisure activities. Any activity that directly interacts with the seabed and reduces the seabed cover.	Misc, activities are outside of the CBRA scope. Not scored.							
18	Exclusions physical	Defense and acts of unintended military aggressions.	Outside of CBRA scope. Not scored.							
19	Exclusions planning	Updated information which significantly changes the recommendations of the CBRA	Potential to require re-routing outside of survey corridor. <b>Not scored.</b>							

# **APPENDIX C**

Vessel Density Heat Maps





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0 10 20 30 40

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٥ 10 20 30 40 © Metoc Ltd, 2018. All rights reserved




0 10 20 30 40 km

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NeuConnect CBRA									
Vessel Density August 2016 to July 2017 - Band D									
Legend • KP's - NeuConnect Band D Vessel 0 - 2 2 - 5 5 - 10 10 - 50 50 - 200 200 - 500 500 - 1000 1000 - 2500 2500 - 6000 6000 - 1300	t Route Hours Per Year (1km x 1km grid)								
Date Projection	Monday, December 17, 2018 13:56:41 WGS 1984 UTM Zone 31N								
Spheroid	WGS_1984								
Datum	D_WGS_1984								
Data Source	GEBCO, NEUCONNECT, OCEANEERING								
File Reference	J:\P2131\Mxd\CBRA\ Band_D_mxd								
Created By	Chris Carroll								
Reviewed By	Chris Goode								
Approved By	Louis Dumenil								
NeuConnect intertek									

0 10 20 30 40



NeuConnect CBRA									
Vessel Density August 2016 to July 2017 - Band E									
Legend • KP's - NeuConnect Band E Vessel 0 - 1 1 - 2 2 - 5 5 - 20 20 - 80 80 - 200 200 - 400 400 - 800 800 - 1500 1500 - 3900	t Route Hours Per Year (1km x 1km grid)								
Projection	Monday, December 17, 2018 14:01:57 WGS_1984_UTM_Zone_31N								
Spheroid	WGS_1984								
Datum	D_WGS_1984								
Data Source	GEBCO, NEUCONNECT, OCEANEERING								
File Reference	J:\P2131\Mxd\CBRA\								
Crosted Pre	Band_E.mxd								
Created By	Chris Carroll								
NeuCo	nnect intertek								

0 10 20 30 40 km









0 10 20 30 40

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NeuConnect CBRA									
Vessel Density August 2016 to July 2017 - Band H									
Legend • KP's - NeuConnect Band H Vessel 0 - 1 1 - 2 2 - 5 5 - 10 10 - 50 50 - 150 150 - 300 300 - 600 600 - 2000 2000 - 3400	t Route Hours Per Year (1km x 1km grid)								
Date	Monday, December 17, 2018 14:08:12								
Spheroid	WGS_1984								
Datum	D WGS 1984								
Data Source	GEBCO, NEUCONNECT, OCEANEERING								
Eilo Deferrare	J:\P2131\Mxd\CBRA\								
File Keterence	Band_H.mxd								
Created By	Chris Carroll								
Reviewed By	Chris Goode								
Approved By	Louis Dumenil								
NeuConnect intertek									

0 10 20 30 40 km

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٥ 10 20 30 40 © Metoc Ltd, 2018. All rights reserved



NeuConnect CBRA									
Vessel Density August 2016 to July 2017 - Band J									
Legend • KP's • NeuConnect Band J Vessel I • 0 - 1 • 1 - 2 • 1 - 5 • 5 - 10 • 10 - 25 • 25 - 50 • 50 - 100 • 100 - 250 • 250 - 3000 • 3000 - 5500	t Route Hours Per Year (1km x 1km grid)								
Projection	WGS_1984_UTM_Zone_31N								
Spheroid	WGS_1984								
Datum	D_WGS_1984								
Data Source	GEBCO, NEUCONNECT, OCEANEERING								
File Reference	J:\P2131\Mxd\CBRA\ Band Lmxd								
Created By	– Chris Carroll								
Reviewed By	Chris Goode								
Approved By	Louis Dumenil								
NeuConnect intertek									





0 10 20 30 40

## **APPENDIX D**

Vessel DWT charts



#### **D.1 APPENDIXH1**

#### Figure D-1 Cargo Vessels



## **D.2 TANKER VESSELS**



Figure D-2 Tanker Vessels

### **D.3 PASSENGER VESSELS**





#### **D.4 VESSELS SMALLER THAN 70 METRES**



#### Figure D-4 Vessels Smaller than 70 Metres

# **APPENDIX E**

**Probabilistic Assessment Results** 



Zone	Conservative Dominant soil type for risk assessment	Scenario 1 - Protection against Band	A Scenar ual failure probability	ario 2 - Protection against Bands A to B Segment annual failure probability	Scenario 3 - Protection against Bands A to C Segment annual fai	Scenario 4 - Prote	ection against Bands A to D Segment annual failure probability	Scenario 5 - Protection against Bands	A to E Scenario 6 -	Protection against Bands A to F	Scenario 7 - Protectio	on against Bands A to G Segment annual failure probability	Scenario 8 - Protection against Bands A	to H Sce	enario 9 - Protection against Bands A to I Segment annual failure probability	Scenario 10 - Protection against Bands A to J Segment annual failure probability	Scenario 11- Protection against Bands A to K         Segment annual failure probability	Scenario 12-Selected Protection Section by Section	Target DoL (m)
Zana 1		Recommended Minimum DoL (m)	anchor damage	um DoL (m) Panchor damage	Recommended Minimum DoL (m)	damage	Panchor damage	Recommended Minimum DoL (m)	Panchor damage	(m) Panchor damage	Recommended Minimum DoL (m)	Panchor damage	Recommended Minimum DoL (m)	Panchor damage	Panchor damage	Recommended Minimum DoL (m) Panchor damage	Recommended Minimum DoL (m) Panchor damage	Recommended Minimum DoL (m)     Panchor damage       1.20     0.005±00	Target DoL (m)     Panchor damage       1.70     0.005 ± 00
Zone 1 Zone 2	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.85	2.77E-03 0.95	2.45E-03	1.10 9.45E- 1.20 2.30E-	E-04 1.30	1.60E-03	1.05	2.63E-04 1.75	2.63E-04	1.75	8.51E-05	2.05	0.00E+00     1.95       6.10E-07     2.05	6.10E-07	2.05 0.00E+00 6.10E-07	2.15 0.00E+00 2.25 0.00E+00	1.30 0.00E+00 1.85 8.51E-05	2.00 8.51E-05
Zone 3 Zone 4	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) MEDIUM DENSE SAND	0.45	3.32E-02 0.55 3.68E-03 0.35	3.22E-02 3.67E-03	0.70 3.01E- 0.40 3.62E-	E-02 0.90 E-03 0.45	1.96E-02 3.28E-03	0.60	3.67E-03 1.25 1.65E-03 0.60	3.67E-03 1.65E-03	0.65	1.35E-03 5.52E-04	1.55     5       0.70     2	5.89E-06 1.55 2.65E-06 0.70	5.89E-06 2.65E-06	1.55     5.89E-06       0.70     2.65E-06	1.75 0.00E+00 0.00E+00	1.55 5.89E-06 0.70 2.65E-06	1.70 5.89E-06 
Zone 5	LOOSE SAND	0.30	1.58E-03 0.40	1.57E-03	0.50 1.54E-	E-03 0.60	1.40E-03	0.85	6.98E-04 0.85	6.98E-04	0.95	2.46E-04	1.05 2	2.20E-06 1.05	2.20E-06	1.05 2.20E-06	1.20 0.00E+00	1.05 2.20E-06	1.50 0.00E+00
Zone 6 Zone 7	MEDIUM DENSE SAND	0.30	1.80E-03     0.35       2.80E-03     0.40	1.79E-03 2.67E-03	0.40 1.77E- 0.50 2.63E-	E-03 0.45 E-03 0.60	1.64E-03 2.43E-03	0.60	8.33E-04 0.60 1.38E-03 0.85	8.33E-04 1.38E-03	0.65	2.76E-04 4.76E-04	0.70 1 1.05 2	1.95E-06       0.70         2.62E-06       1.05	1.95E-06	0.70 1.95E-06 1.05 2.62E-06	0.75 0.00E+00 1.20 0.00E+00	0.70 1.95E-06 1.05E-06	1.50 0.00E+00 1.50 0.00E+00
Zone 8	MEDIUM DENSE SAND	0.30	2.53E-03 0.35	2.34E-03	0.40 2.29E-	E-03 0.45	2.08E-03	0.60	1.19E-03 0.60	1.19E-03	0.65	4.12E-04	0.70	2.35E-06 0.70	2.35E-06	0.70 2.35E-06	0.75 0.00E+00	0.70 2.35E-06	1.50 0.00E+00
Zone 9 Zone 10	LOOSE SAND MEDIUM DENSE SAND	0.30	1.48E-03     0.40       1.40E-03     0.35	1.38E-03 1.30E-03	0.50 1.37E- 0.40 1.29E-	E-03 0.60 E-03 0.45	1.29E-03 1.17E-03	0.85	7.70E-04     0.85       6.89E-04     0.60	7.70E-04 6.89E-04	0.95	2.85E-04 2.54E-04	1.05     1       0.70     1	1.40E-06     1.05       1.65E-06     0.70	1.40E-06	1.05     1.40E-06       0.70     1.65E-06	1.20         0.00E+00           0.75         0.00E+00	1.05     1.40E-06       0.70     1.65E-06	1.50 0.00E+00 1.50 0.00E+00
Zone 11	MEDIUM DENSE SAND	0.30	2.16E-03 0.35	2.05E-03	0.40 2.03E-	E-03 0.45	1.84E-03	0.60	1.06E-03 0.60	1.06E-03	0.65	3.94E-04	0.70	2.25E-06 0.70	2.25E-06	0.70 2.25E-06	0.75 0.00E+00	0.70 2.25E-06	1.50 0.00E+00
Zone 12 Zone 13	VERY LOOSE SAND	0.25	2.09E-04 0.50	1.76E-04	0.35 8.71E- 0.60 1.67E-	E-04 0.45	1.25E-04	1.05	4.14E-04     0.65       9.27E-05     1.10	5.39E-05	1.15	1.39E-04	1.30	0.00E+00     0.80       2.57E-06     1.35	0.00E+00 0.00E+00	1.35 0.00E+00	1.50 0.00E+00 0.00E+00	1.15 1.39E-05	1.50 0.00E+00 1.50 0.00E+00
Zone 14 Zone 15	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) VERY LOOSE SAND	0.45	2.25E-04 0.55 3.28E-04 0.50	1.96E-04 2.87E-04	0.70 1.72E- 0.60 2.58E-	E-04 0.90 E-04 0.75	1.13E-04 1.73E-04	1.25	4.95E-05 1.25	4.95E-05 7.13E-05	1.35	1.32E-05 1.60E-05	1.55 O	0.00E+00 1.55 3.68E-06 1.35	0.00E+00 0.00E+00	1.55 0.00E+00 1.35 0.00E+00	1.75 0.00E+00	1.25 4.95E-05 1.15 1.60E-05	1.50 1.32E-05
Zone 16	MEDIUM DENSE SAND	0.30	4.58E-04 0.35	3.38E-04	0.40 2.82E-	E-04 0.45	8.94E-05	0.60	3.46E-05 0.60	3.46E-05	0.65	1.88E-05	0.70 0	0.00E+00 0.70	0.00E+00	0.70 0.00E+00	0.75 0.00E+00	0.60 3.46E-05	1.50 0.00E+00
Zone 17 Zone 18	HIGH STRENGTH CLAY (≥100 kPa) HIGH STRENGTH CLAY (≥100 kPa)	0.25	1.05E-03 0.30 2.01E-04 0.30	9.80E-04 1.92E-04	0.35 8.30E- 0.35 1.78E-	E-04 0.45 E-04 0.45	4.76E-04 9.88E-05	0.65	3.03E-04 0.65 6.49E-05 0.65	3.03E-04 6.49E-05	0.70	1.58E-04 3.52E-05	0.80 1 0.80 2	1.99E-06 0.80 4.43E-07 0.80	1.99E-06 4.43E-07	0.80 1.99E-06 0.80 4.43E-07	0.90 0.00E+00 0.00E+00	0.80 1.99E-06 0.80 4.43E-07	1.50 0.00E+00 1.50 0.00E+00
Zone 19	HIGH STRENGTH CLAY (≥100 kPa)	0.25	1.00E-03 0.30	9.57E-04	0.35 8.37E-	E-04 0.45	4.68E-04	0.65	2.97E-04 0.65	2.97E-04	0.70	1.13E-04	0.80	1.68E-06 0.80	1.68E-06	0.80 1.68E-06	0.90 0.00E+00	0.80 1.68E-06	1.50 0.00E+00
Zone 20 Zone 21	HIGH STRENGTH CLAY (≥100 kPa) HIGH STRENGTH CLAY (≥100 kPa)	0.25	2.69E-04 0.30 2.81E-03 0.30	2.64E-04 2.68E-03	0.35 2.45E- 0.35 2.49E-	E-04 0.45 E-03 0.45	1.41E-04 1.66E-03	0.65	9.51E-05     0.65       9.49E-04     0.65	9.51E-05 9.49E-04	0.70	3.73E-05 4.95E-04	0.80 5 0.80 6	5.68E-07     0.80       6.42E-06     0.80	5.68E-07 6.42E-06	0.80 5.68E-07 0.80 6.42E-06	0.90 0.00E+00 0.00E+00 0.00E+00	0.80 5.68E-07 0.80 6.42E-06	1.50 0.00E+00 1.50 0.00E+00
Zone 22	HIGH STRENGTH CLAY (≥100 kPa)	0.25	3.18E-03 0.30	2.66E-03	0.35 2.54E-	E-03 0.45	1.87E-03	0.65	9.90E-04 0.65	9.90E-04	0.70	6.48E-04	0.80 2	4.19E-06 0.80	4.19E-06	0.80 4.19E-06	0.90 0.00E+00	0.80 4.19E-06	1.50 0.00E+00
Zone 23 Zone 24	MEDIUM DENSE SAND HIGH STRENGTH CLAY (≥100 kPa)	0.30	1.01E-03     0.35       4.49E-04     0.30	9.17E-04 4.23E-04	0.40 8.97E- 0.35 4.20E-	E-04 0.45 E-04 0.45	3.27E-04 1.99E-04	0.60	1.57E-04     0.60       6.68E-05     0.65	1.57E-04 6.68E-05	0.65	9.97E-05 4.40E-05	0.70 1 0.80 9	1.17E-06     0.70       9.53E-07     0.80	9.53E-07	0.70 1.17E-06 0.80 9.53E-07	0.75 0.00E+00 0.90 0.00E+00	0.70 1.17E-06 0.80 9.53E-07	1.50         0.00E+00           1.50         0.00E+00
Zone 25	HIGH STRENGTH CLAY (≥100 kPa)	0.25	7.01E-04 0.30	6.50E-04	0.35 6.40E-	E-04 0.45	2.75E-05	0.65	5.92E-06 0.65	5.92E-06	0.70	2.79E-06	0.80 0	0.00E+00 0.80	0.00E+00	0.80 0.00E+00	0.90 0.00E+00	0.70 2.79E-06	1.50 0.00E+00
Zone 26 Zone 27	MEDIUM DENSE SAND MEDIUM DENSE SAND	0.45	2.67E-04     0.50       9.66E-05     0.50	2.35E-04 9.66E-05	0.55 2.28E- 0.55 9.34E-	E-04 0.60 E-05 0.60	1.64E-04 8.13E-05	0.75	2.88E-05     0.75       2.89E-05     0.75	2.88E-05 2.89E-05	0.80	1.12E-05 8.36E-06	0.85 0	0.00E+00 0.85 6.00E-07 0.85	6.00E+00 6.00E-07	0.85 0.00E+00 0.85 6.00E-07	0.90 0.00E+00 0.90 0.00E+00	0.85 0.00E+00 0.80 8.36E-06	1.50 0.00E+00 1.50 0.00E+00
Zone 28	MEDIUM DENSE SAND	0.45	8.35E-04 0.50	8.00E-04	0.55 7.82E-	E-04 0.60	5.14E-04	0.75	1.63E-04 0.75	1.63E-04	0.80	5.44E-05	0.85	1.10E-06 0.85	1.10E-06	0.85 1.10E-06	0.90 0.00E+00	0.85 1.10E-06	1.50 0.00E+00
Zone 29 Zone 30	VERY LOOSE SAND	0.45	1.07E-03     0.50       2.57E-05     0.50	1.01E-03 2.49E-05	0.55 9.13E- 0.60 2.35E-	E-04 0.60 E-05 0.75	3.79E-04 3.47E-06	1.05	7.95E-05     0.75       6.99E-07     1.10	7.95E-05 3.68E-07	1.15	4.18E-05 2.46E-07	1.30	1.43E-06 0.85 1.14E-07 1.35	0.00E+00	0.85 1.43E-06 1.35 0.00E+00	0.90 0.00E+00 0.00E+00 0.00E+00	1.43E-06 1.05 6.99E-07	1.50 0.00E+00 1.50 0.00E+00
Zone 31	MEDIUM DENSE SAND	0.45	4.45E-04 0.50	4.24E-04	0.55 4.01E-	E-04 0.60	2.93E-04 9.13E-05	0.75	8.06E-05 0.75	8.06E-05	0.80	3.44E-05	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.85 0.00E+00	1.50 0.00E+00
Zone 33	MEDIUM DENSE SAND	0.45	1.28E-04 0.50	1.21E-04	0.55 1.17E-	E-04 0.60	6.99E-05	0.75	4.65E-06 0.75	4.65E-06	0.80	2.24E-06	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.80 2.24E-06	1.50 0.00E+00
Zone 34 Zone 35	MEDIUM DENSE SAND SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.36E-04 0.50 1.26E-05 0.55	1.13E-04 1.06E-05	0.55 1.02E- 0.70 9.39E-	E-04 0.60 E-06 0.90	6.72E-05 6.91E-06	0.75	2.02E-05 0.75 1.88E-06 1.25	2.02E-05	0.80	1.38E-05 1.43E-06	0.85 0 1.55 0	0.00E+00 0.85 0.00E+00 1.55	0.00E+00 0.00E+00	0.85 0.00E+00 1.55 0.00E+00	0.90 0.00E+00 1.75 0.00E+00	0.85 0.00E+00 1.25 1.88E-06	1.50 0.00E+00 1.50 1.43E-06
Zone 36	MEDIUM DENSE SAND	0.45	3.53E-05 0.50	2.76E-05	0.55 2.47E-	E-05 0.60	1.88E-05	0.75	4.23E-06 0.75	4.23E-06	0.80	3.29E-06	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.80 3.29E-06	1.50 0.00E+00
Zone 37 Zone 38	MEDIUM DENSE SAND MEDIUM DENSE SAND	0.45	6.21E-05 0.50 1.88E-05 0.50	4.82E-05 1.50E-05	0.55 4.59E- 0.55 1.38E-	E-05 0.60 E-05 0.60	3.84E-05 1.16E-05	0.75	7.50E-06     0.75       1.77E-06     0.75	7.50E-06 1.77E-06	0.80	3.75E-06 3.80E-07	0.85 0	0.00E+00 0.85 0.00E+00 0.85	0.00E+00 0.00E+00	0.85 0.00E+00 0.85 0.00E+00	0.90 0.00E+00 0.00E+00 0.00E+00	0.80 3.75E-06 0.80 3.80E-07	1.50 0.00E+00 1.50 0.00E+00
Zone 39	MEDIUM DENSE SAND	0.45	9.31E-05 0.50	6.43E-05	0.55 5.93E-	E-05 0.60	4.98E-05	0.75	1.03E-05 0.75	1.03E-05	0.80	1.25E-06	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.80 1.25E-06	1.50 0.00E+00
Zone 40 Zone 41	MEDIUM DENSE SAND MEDIUM DENSE SAND	0.45	3.59E-05       0.50         2.07E-04       0.50	2.34E-05 9.76E-05	0.55 2.23E- 0.55 9.13E-	E-05 0.60 E-05 0.60	1.45E-05 6.34E-05	0.75	2.02E-06 0.75 1.24E-05 0.75	2.02E-06 1.24E-05	0.80	0.00E+00 3.11E-06	0.85 0	0.00E+00 0.85 0.00E+00 0.85	0.00E+00 0.00E+00	0.85 0.00E+00 0.85 0.00E+00	0.90 0.00E+00 0.00E+00 0.00E+00	0.80 0.00E+00 0.80 3.11E-06	1.50         0.00E+00           1.50         0.00E+00
Zone 42	MEDIUM DENSE SAND	0.45	3.40E-05 0.50	2.10E-05	0.55 1.97E-	E-05 0.60	1.47E-05	0.75	1.25E-06 0.75	1.25E-06	0.80	0.00E+00	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.75 1.25E-06	1.50 0.00E+00
Zone 43 Zone 44	MEDIUM DENSE SAND VERY LOOSE SAND	0.45	5.30E-04     0.50       4.34E-05     0.50	2.80E-04 2.78E-05	0.55 1.40E- 0.60 1.78E-	E-04 0.60 E-05 0.75	6.23E-05 1.12E-06	1.05	0.00E+00 0.75 1.12E-06 1.10	0.00E+00 0.00E+00	0.80	0.00E+00 0.00E+00	0.85 0 1.30 0	0.00E+00 0.85 0.00E+00 1.35	0.00E+00 0.00E+00	0.85 0.00E+00 1.35 0.00E+00	0.90 0.00E+00 0.00E+00 0.00E+00	0.75 0.00E+00 0.75 1.12E-06	1.50 0.00E+00 1.50 0.00E+00
Zone 45	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.75	8.31E-06 0.85	5.94E-06	1.00 4.10E-	E-06 1.20	2.21E-06	1.55	6.31E-07 1.55	6.31E-07	1.65	3.16E-07	1.85 0	0.00E+00 1.85	0.00E+00	1.85 0.00E+00	2.05 0.00E+00	0.85 5.94E-06	1.50 2.21E-06
Zone 46 Zone 47	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.75	1.69E-04 0.85 1.78E-05 0.95	1.67E-04 1.23E-05	1.00 1.65E- 1.10 1.10E-	E-04 1.20 E-05 1.30	6.17E-06	1.65	3.45E-05     1.55       0.00E+00     1.65	0.00E+00	1.65	0.00E+00	1.85 0	0.00E+00 1.85 0.00E+00 1.95	0.00E+00 0.00E+00	1.85 0.00E+00 1.95 0.00E+00	2.05 0.00E+00 2.15 0.00E+00	0.95 3.45E-05	1.70 8.74E-06 1.50 6.17E-06
Zone 48 Zone 49	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.85	7.09E-06 0.95 7.28E-06 1.05	3.94E-06 4.88E-06	1.10 3.60E- 1.20 3.98E-	E-06 1.30	2.70E-06	1.65	0.00E+00 1.65 0.00E+00 1.75	0.00E+00 0.00E+00	1.75	0.00E+00 0.00E+00	1.95 0 2.05 0	0.00E+00 1.95 0.00E+00 2.05	0.00E+00	1.95 0.00E+00 2.05 0.00E+00	2.15 0.00E+00	0.95 3.94E-06	1.50 2.70E-06
Zone 50	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	5.47E-06 0.55	8.56E-07	0.70 2.23E-	E-07 0.90	7.44E-08	1.25	0.00E+00 1.25	0.00E+00	1.35	0.00E+00	1.55 0	0.00E+00 1.55	0.00E+00	1.55 0.00E+00	1.75 0.00E+00	0.55 8.56E-07	1.50 0.00E+00
Zone 51 Zone 52	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.85	5.78E-06 0.95 3.00E-06 0.55	1.29E-06 9.00E-07	1.10 3.48E- 0.70 4.50E-	E-07 1.30 E-07 0.90	1.96E-07 3.00E-07	1.65	0.00E+00 1.65 0.00E+00 1.25	0.00E+00 0.00E+00	1.75	0.00E+00 0.00E+00	1.95 0 1.55 0	0.00E+00 1.95 0.00E+00 1.55	0.00E+00 0.00E+00	1.95     0.00E+00       1.55     0.00E+00	2.15 0.00E+00	0.95 1.29E-06 0.55 9.00E-07	1.50 1.96E-07 1.50 0.00E+00
Zone 53	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.85	2.22E-06 0.95	1.52E-06	1.10 1.14E-	E-06 1.30	3.46E-07	1.65	0.00E+00 1.65	0.00E+00	1.75	0.00E+00	1.95 0	0.00E+00 1.95	0.00E+00	1.95 0.00E+00	2.15 0.00E+00	0.95 1.52E-06	1.50 3.46E-07
Zone 54 Zone 55	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.93E-06     0.55       5.13E-06     0.95	1.39E-06 1.90E-06	0.70 1.02E- 1.10 1.26E-	E-06 0.90 E-06 1.30	2.70E-07 6.45E-07	1.25	0.00E+00 1.25 0.00E+00 1.65	0.00E+00 0.00E+00	1.35	0.00E+00 0.00E+00	1.55 0 1.95 0	0.00E+00 1.55 0.00E+00 1.95	0.00E+00 0.00E+00	1.55     0.00E+00       1.95     0.00E+00	1.75     0.00E+00       2.15     0.00E+00	0.55 1.39E-06 0.95 1.90E-06	1.50 0.00E+00 1.50 6.45E-07
Zone 56	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	1.05	2.98E-04 1.15	2.92E-04	1.30 2.90E-	E-04 1.50	2.65E-04	1.85	7.46E-05 1.85	7.46E-05	1.95	2.46E-05	2.15 0	0.00E+00 2.15	0.00E+00	2.15 0.00E+00	2.35 0.00E+00	1.50 2.65E-04	1.70 2.65E-04
Zone 57 Zone 58	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.76E-06 0.55 1.05	9.01E-07	1.20 2.43E-	E-06 0.90 E-07 1.40	6.01E-07	1.25	4.50E-07     1.25       7.51E-08     1.75	4.50E-07 7.51E-08	1.35	0.00E+00 0.00E+00	2.05	0.00E+00 1.55 0.00E+00 2.05	0.00E+00 0.00E+00	1.55     0.00E+00       2.05     0.00E+00	1.75     0.00E+00       2.25     0.00E+00	0.55 2.88E-06 0.55 2.70E-06	1.50 0.00E+00 1.50 6.01E-07
Zone 59 Zone 60	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.24E-05 0.55 8.32E-06 0.55	4.95E-06 2.70E-06	0.70 2.47E-	E-06 0.90	1.65E-06 9.00E-07	1.25	0.00E+00 1.25	0.00E+00 0.00E+00	1.35	0.00E+00 0.00E+00	1.55 0	0.00E+00 1.55 0.00E+00 1.55	0.00E+00	1.55 0.00E+00	1.75 0.00E+00	0.55 4.95E-06	1.50 0.00E+00
Zone 61	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	1.05	1.26E-05 1.15	5.85E-06	1.30 4.13E-	E-06 1.50	2.75E-06	1.85	0.00E+00 1.85	0.00E+00	1.95	0.00E+00	2.15 0	0.00E+00 2.15	0.00E+00	2.15 0.00E+00	2.35 0.00E+00	1.15 5.85E-06	1.50 2.75E-06
Zone 62 Zone 63	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa) SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.26E-05 0.55 3.55E-04 0.55	8.88E-06 3.48E-04	0.70 7.98E- 0.70 3.31E-	E-06 0.90 E-04 0.90	5.85E-06 1.94E-04	1.25 1.25	3.50E-07 1.25 7.92E-06 1.25	3.50E-07 7.92E-06	1.35	0.00E+00 2.00E-06	1.55 O	0.00E+00 1.55 0.00E+00 1.55	0.00E+00 0.00E+00	1.55 0.00E+00 1.55 0.00E+00	1.75 0.00E+00	0.55 8.88E-06 1.25 7.92E-06	1.50 0.00E+00 1.50 2.00E-06
Zone 64	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	8.99E-06 0.55	6.24E-06	0.70 5.67E-	E-06 0.90	3.61E-06	1.25	4.40E-07 1.25	4.40E-07	1.35	2.08E-07	1.55 0	0.00E+00 1.55	0.00E+00	1.55 0.00E+00	1.75 0.00E+00	0.55 6.24E-06	1.50 2.08E-07
Zone 65 Zone 66	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.95	1.34E-04     1.05       5.19E-04     0.55	1.30E-04 5.12E-04	1.20     1.26E-       0.70     4.91E-	E-04 1.40 E-04 0.90	8.43E-05 2.91E-04	1.75 1.25	3.83E-06     1.75       1.64E-05     1.25	3.83E-06 1.64E-05	1.85	2.92E-06 1.01E-05	2.05 0 1.55 0	0.00E+00 2.05 0.00E+00 1.55	0.00E+00 0.00E+00	2.05 0.00E+00 1.55 0.00E+00	2.25 0.00E+00 1.75 0.00E+00	1.40     8.43E-05       1.25     1.64E-05	1.50 8.43E-05 1.50 1.01E-05
Zone 67	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	3.66E-05 0.55	3.29E-05	0.70 3.13E-	E-05 0.90	2.10E-05	1.25	2.47E-06 1.25	2.47E-06	1.35	1.39E-06	1.55 0	0.00E+00 1.55	0.00E+00	1.55 0.00E+00	1.75 0.00E+00	0.90 2.10E-05	1.50 1.39E-06
Zone 68 Zone 69	LOOSE SAND SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.30	1.73E-05     0.40       5.62E-06     0.55	1.25E-05 3.95E-06	0.50 1.10E- 0.70 3.19E-	E-05 0.60 E-06 0.90	7.10E-06 2.02E-06	0.85	2.06E-06 0.85 2.53E-07 1.25	2.06E-06 2.53E-07	0.95	1.54E-06 2.53E-07	1.05 0 1.55 0	0.00E+00 1.05 0.00E+00 1.55	0.00E+00 0.00E+00	1.05         0.00E+00           1.55         0.00E+00	1.20         0.00E+00           1.75         0.00E+00	0.60 7.10E-06 0.70 3.19E-06	1.50 0.00E+00 1.50 2.53E-07
Zone 70	VERY LOOSE SAND	0.40	8.72E-06 0.50	6.60E-06	0.60 5.63E-	E-06 0.75	4.24E-06	1.05	2.77E-06 1.10	1.39E-06	1.15	1.39E-06	2.05	1.39E-06 1.35	0.00E+00	1.35 0.00E+00	1.50 0.00E+00	0.60 5.63E-06	1.50 0.00E+00
Zone 72	VERY LOOSE SAND	0.40	4.43E-05 0.50	3.29E-05	0.60 2.22E-	E-05 0.75	1.36E-05	1.05	6.23E-06 1.10	1.53E-06	1.15	1.53E-06	1.30	1.53E-06 1.35	0.00E+00	1.35 0.00E+00	1.50 0.00E+00	0.75 1.36E-05	1.50 0.00E+00
Zone 73 Zone 74	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	1.86E-05 0.55 1.21E-04 0.50	1.45E-05 1.10E-04	0.70 1.07E- 0.60 1.06E-	E-05 0.90 E-04 0.75	5.00E-06 3.81E-05	1.25	1.25E-06 1.25 1.91E-05 1.10	1.25E-06 8.41E-06	1.35	1.25E-06 5.60E-06	1.55 O	0.00E+00 1.55 4.20E-06 1.35	0.00E+00 0.00E+00	1.55 0.00E+00 1.35 0.00E+00	1.75 0.00E+00	0.70 1.07E-05 0.75 3.81E-05	1.50 1.25E-06
Zone 75	MEDIUM DENSE SAND	0.45	2.46E-04 0.50	2.30E-04	0.55 2.29E-	E-04 0.60	3.49E-06	0.75	0.00E+00 0.75	0.00E+00	0.80	0.00E+00	0.85 0	0.00E+00 0.85	0.00E+00	0.85 0.00E+00	0.90 0.00E+00	0.60 3.49E-06	1.50 0.00E+00
Zone 76 Zone 77	MEDIUM DENSE SAND	0.35	7.94E-05     0.40       3.79E-04     0.40	5.78E-05 1.76E-04	0.45 4.75E- 0.50 8.39E-	E-05 0.50 E-05 0.60	2.11E-05 2.95E-05	0.65	0.00E+00 0.65 0.00E+00 0.85	0.00E+00 0.00E+00	0.70	0.00E+00 0.00E+00	0.75 0 1.05 0	0.00E+00 0.75 0.00E+00 1.05	0.00E+00 0.00E+00	0.75 0.00E+00 1.05 0.00E+00	0.80 0.00E+00 1.20 0.00E+00	1.50 0.00E+00 1.50 0.00E+00	1.50 0.00E+00 1.50 0.00E+00
Zone 78	VERY LOOSE SAND	0.40	1.33E-05 0.50	5.56E-06	0.60 1.60E-	E-06 0.75	5.34E-07	1.05	0.00E+00 1.10	0.00E+00	1.15	0.00E+00	1.30 0	0.00E+00 1.35	0.00E+00	1.35 0.00E+00	1.50 0.00E+00	1.50 0.00E+00	1.50 0.00E+00
Zone 79 Zone 80	MEDIUM DENSE SAND VERY LOOSE SAND	0.30	1.26E-04     0.35       1.13E-05     0.50	1.06E-04 3.21E-06	0.40 1.04E- 0.60 2.31E-	E-04 0.45 E-06 0.75	0.00E+00 2.01E-06	0.60	0.00E+00 0.60 1.80E-06 1.10	0.00E+00 0.00E+00	0.65	0.00E+00 0.00E+00	0.70 0 1.30 0	0.00E+00 0.70 0.00E+00 1.35	0.00E+00 0.00E+00	0.70 0.00E+00 1.35 0.00E+00	0.75 0.00E+00 1.50 0.00E+00	1.50     0.00E+00       1.50     0.00E+00	1.50         0.00E+00           1.50         0.00E+00
Zone 81	LOOSE SAND	0.30	5.20E-05 0.40	3.48E-05	0.50 2.70E-	E-05 0.60	2.43E-05	0.85	6.75E-07 0.85	6.75E-07	0.95	0.00E+00	1.05 0	0.00E+00 1.05	0.00E+00	1.05 0.00E+00	1.20 0.00E+00	1.50 0.00E+00	1.50 0.00E+00
Zone 82	MEDIUM DENSE SAND MEDIUM DENSE SAND	0.30	0.35 0.35 1.35E-02 0.35	7.83E-03 1.31E-02	0.40 7.01E- 0.40 1.14E-	E-03 0.45	3.14E-03 5.66E-03	0.60	1.78E-03 0.60	1.08E-03 1.78E-03	0.65	5.55E-04 7.54E-04	0.70 3	5.92E-Ub     0.70       5.48E-06     0.70	3.92E-06	0.70 3.92E-06 0.70 5.48E-06	0.75 0.00E+00 0.00E+00 0.00E+00	2.00 0.00E+00 2.00 0.00E+00	2.00 0.00E+00 2.00 0.00E+00
Zone 84	SAND and CLAY (>10 to <100 kPa) & CLAY (>10 to <100 kPa)	0.45	3.03E-04 0.55 2.81E-03	2.36E-04	0.70 2.04E- 0.40 2.105	E-04 0.90	1.73E-04 1.69F-03	0.60	5.22E-05 1.25 4.66E-04 0.60	5.22E-05	0.65	5.70E-06	1.55 0 0.70 ~	0.00E+00 1.55 0.00E+00 0.70	0.00E+00	1.55 0.00E+00 0.70 0.00E+00	1.75 0.00E+00	1.50 5.70E-06	1.50 5.70E-06
Zone 86	SAND and CLAY (≥10 to <100 kPa) & CLAY (≥10 to <100 kPa)	0.45	0.35 3.14E-04 0.55	2.40L-05	0.70 2.53E-	E-04 0.90	2.37E-04	1.25	6.43E-05 1.25	6.43E-05	1.35	2.51E-04	1.55 0	0.00E+00 1.55	0.00E+00	1.55 0.00E+00	1.75 0.00E+00	1.50 2.51E-05	1.50 2.51E-05
Zone 87 Zone 88	MEDIUM DENSE SAND	0.30 TBC	3.39E-04 0.35 TBC TBC	3.02E-04 TBC	0.40 2.55E- TBC TBC	E-04 0.45	2.19E-04	0.60 TBC	6.76E-05 0.60 TBC TBC	6.76E-05 TBC	0.65 TBC	2.77E-05 TBC	0.70 0 TBC	0.00E+00 0.70 TBC TBC	0.00E+00 TBC	0.70 0.00E+00 TBC TBC	0.75 0.00E+00 TBC TBC	1.50 0.00E+00 TBC 0.00E+00	1.50 0.00E+00 TBC 0.00E+00
Annual Failure Probability for Entire rout	te	1.00E-01		9.43E-02	8.74E-02		5.71E-02	2.00E-02		1.99E-02	7.93	93E-03	6.70E-05		5.35E-05	5.35E-05	0.00E+00	9.00E-04	5.37E-04
Return Period (years) Failure Probability in the lifetime (40 years)	rs)	9.96 98.55%		10.60 98.10%	11.45 97.42%		17.51 90.48%	49.99 55.44%		50.28 55.23%	120 27.	26.06 7.28%	0.27%		18684.52 0.21%	18684.52 0.21%	0.00%	1111.27 3.54%	<u>1863.84</u> 2.12%