



**Environmental and Geotechnical Site
Assessment**

**Proposed Site for Gasification Plant, Shelton
Road, Willowbrook East Industrial Estate, Corby
NN17 5XH**

Clean Power Properties Ltd

Delta-Simons Project No. 15-0645.02

Issued: December 2015

EXECUTIVE SUMMARY
ENVIRONMENTAL AND GEOTECHNICAL SITE ASSESSMENT
PROPOSED SITE FOR GASIFICATION PLANT, SHELTON ROAD, WILLOWBROOK
EAST INDUSTRIAL ESTATE, CORBY NN17 5XH
DELTA-SIMONS PROJECT NUMBER: 15-0645.02

Context and Purpose	<p>Delta-Simons Environmental Consultants Limited was instructed by Clean Power Properties Limited, to undertake an Environmental and Geotechnical Assessment of a proposed site being considered for acquisition for redevelopment as a gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH.</p> <p>The Site investigation has been carried out in order to provide information on the quality of the soil and groundwater beneath the Site in the context of land contamination and provide information on the ground gas regime beneath the Site. In addition, the assessment will provide geotechnical information to assist in the design of suitable foundations.</p>
Current Site Status	<p>The Site, comprises a flat area covered by roadways and gravel surfaced parking bays, used for open storage of cars. A landscaped strip runs along the northern and eastern edges of the Site. The Site is part of a wider area used for storage of cars, extending to the west and south, and industrial/commercial buildings associated with the Willowbrook East Industrial Estate, to the south. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
Environmental Setting	<p>The Site is reportedly underlain by a significant thickness of Made Ground, comprising granular cover material overlying reworked glacial till, overlying steelworks/settlement lagoon waste fill. This overlies further Made Ground over remnants of the previously worked bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been previously observed in the Made Ground and bedrock.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site. The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The nearest surface water abstraction record is 1,865 m south of the Site, for cooling purposes, now revoked.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A aquifer, and the lack of proximate ground and surface water abstractions.</p>
Site Investigation	<p>The ground investigation undertaken by Delta-Simons comprised:</p> <ul style="list-style-type: none"> △ Drilling of 20 dynamic sampler boreholes (DS101 to 119 and DS107a) to a maximum depth of 3.0 m bgl; △ Drilling of ten cable percussion borehole (BH101 to BH110) to a maximum depth of 20.45 m bgl; △ Drilling of four rotary boreholes (BHR1 to BHR4) to a maximum depth of 30.0 m bgl; △ Installation of 10 selected dynamic sampler, five cable percussive, and four rotary boreholes with 50 mm internal diameter gas and groundwater monitoring wells; △ Standard penetration tests (SPTs) were undertaken every 1.00 m to 5.00 m bgl, then every 1.50 m thereafter (where undisturbed sampling was not undertaken), and at selected intervals in the rotary boreholes; △ Completion of two days truck mounted Cone Penetrometer Testing (CPT) over 10 targeted locations, progressed to a maximum depth of 25.15 m bgl; △ Collection of disturbed and undisturbed soil samples from selected locations for

	<p>subsequent laboratory environmental analysis and geotechnical testing;</p> <ul style="list-style-type: none"> △ Collection of groundwater samples from installed boreholes on one occasion; and △ Four rounds of gas and groundwater level monitoring.
Ground Conditions	<p>Encountered ground conditions comprised a thin layer of granite aggregate and topsoil, topsoil or asphalt hardstanding at each intrusive location. Made Ground (Fill) was encountered in each borehole location advanced and generally comprised a shallow layer of light greyish brown, slightly gravelly sand, underlain by greyish black/brown and greenish brown, slightly silty/sandy/gravelly clays with variable layers of pseudo-fibrous and fibrous peat. Gravels generally consisted of fine to coarse sandstone and chalk. Orangey brown, slightly clayey sand was encountered in BH101, BH102 and BH103, and is considered to represent possible fill material with a maximum depth of fill encountered being 20.5 mbgl.</p> <p>The Northampton Sand Formation, consisting of strong, massive orangey brown sandstone was encountered in boreholes R1, R3 and R4 and BH109. The Northampton Sand Formation was not present in all locations drilled indicating this had been potentially extracted to its full depth in parts of the Site. Underlying the fill, possible fill or Northampton Sand Formation, were deposits of the Whitby Mudstone Formation comprising, weak, dark grey, slightly weathered, laminated mudstone and was proven to a maximum depth of 29.8 m bgl. Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl.</p>
Environmental Findings	<p>The chemical analysis undertaken on selected soil samples did not identify widespread significantly elevated concentrations of contamination in the tested locations.</p> <p>A hotspot of TPH contamination was identified in DS107a, however, this is not considered to represent a risk in the context of the proposed redevelopment which it is understood will comprise hardstanding. Asbestos (amosite lagging) was identified in one sample within the Made Ground (2.2-2.5mbgl).</p> <p>Groundwater chemical analysis results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4. Slightly elevated concentrations of Mercury were identified in six of the locations sampled. These exceedance are not considered significant as the Site is not located within a Source Protection Zone, and there are no groundwater abstractions within 2 km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality.</p> <p>Ground gas monitoring indicated low level gas flow rates and slightly elevated concentrations of methane (maximum concentration of 10.4 % v/v) and carbon dioxide (maximum concentration of 4.9% v/v) giving the Site a Characterisation Situation 2 (CS2 – Low Risk). Basic ground gas protection measures will be required for the development.</p>
Environmental Recommendations	<p>Based on the information obtained to date the following information can be concluded:</p> <ul style="list-style-type: none"> △ Significantly elevated concentrations of targeted contaminants above the respective assessment criteria which are considered to represent a risk in the context of the redevelopment have not been identified in soils and a specific remediation exercise is not considered to be required; △ If landscaping is incorporated into the design, a minimum 300 mm of certified suitable for use topsoil/subsoil should be allowed for in such locations; △ Although good site coverage has been achieved, unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place should such contamination be identified during construction; △ Based on the ground gas monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works; △ For materials removed from site to achieve cut and fill / for pile caps etc. shallow soils likely to be encountered should generally be considered as non-

	<p>hazardous for disposal. Additional waste classification testing as part of the development process (including WAC testing) may be required to facilitate off-Site disposal of Made Ground materials once the specific materials to be removed are identified;</p> <ul style="list-style-type: none"> △ As with all brownfield development sites, groundworkers who are required to perform sub-surface work at the Site should be made aware of the known contaminants in soil and groundwater and the possibility of encountering additional localised low levels of contamination. This should include information on the potential to encounter Asbestos Containing Materials (ACM). Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans Suitable dust suppression techniques will need to be implemented during the redevelopment; and △ Given the history of the Site, it should be assumed that upgraded water pipe material will be required, albeit, confirmation should be sought from the Local Water Authority.
<p>Geotechnical Recommendations</p>	<p>Based on the information obtained to date the following information can be concluded:</p> <ul style="list-style-type: none"> △ The Made Ground Fill material is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads; △ A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads. It is recommended that, once pile positioned have been confirmed, each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions; △ It is considered that ground improvement techniques would not be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site; △ Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs; △ In the absence of In-situ DCP CBR tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design; △ The use of soakaways as a form of drainage is not recommended for the Site given the depth of Made Ground encountered; △ All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site; and △ The conditions of the soils at the Site would be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater. Piling is not generally considered to result in disturbed ground, therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay, which in this case would result in a DS-2 classification based on the results obtained.
<p>Overall Statement of Risk</p>	<p>On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination issues and associated environmental liabilities, the Site represents an investment opportunity with a Low overall risk status.</p> <p>In the context of a commercial redevelopment remediation would be limited to basic engineering measures and a specific remediation programme will not be needed.</p>
<p>This Environmental Assessment Executive Summary is intended as a summary of the Assessment of the Site based on information received by Delta-Simons at the time of production.</p>	

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PROPOSED SITE FOR GASIFICATION PLANT, SHELTON ROAD, WILLOWBROOK
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CLEAN POWER PROPERTIES LTD
DELTA-SIMONS PROJECT NUMBER: 15-0645.02

1.0 INTRODUCTION

1.1 Authorisation

Delta-Simons Environmental Consultants ('Delta-Simons') was instructed by Clean Power Properties Limited (the 'Client'), to undertake an Environmental and Geotechnical Assessment of a proposed site being considered for acquisition for redevelopment as a gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH (hereafter referred to as the 'Site').

1.2 Context and Purpose

It is understood that the Client is seeking to establish the potential in-ground geotechnical and environmental risks and liabilities as part of due diligence for the proposed purchase and development of the Site. This Environmental and Geotechnical Assessment was prepared following completion of Delta-Simons' report 'Phase I Environmental Assessment, Proposed site for gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH' (ref. 15-0645.01), dated July 2015. It is assumed that the reader is familiar with the contents and findings of this report, although a summary of the information is provided.

The Site, comprising 2.53Ha of a previously restored quarry, is currently utilised for open storage of vehicles. The Site has previously been subject to a planning application for redevelopment of the Site as an Advanced Conversion Technology (ACT) and Anaerobic Digestion (AD) facility comprising an 8-12 MWe pyrolysis plant and a 2-3 MWe digestion facility, together with ancillary and support facilities. It is understood the Client is considering an alternative gasification facility for the Site.

Specific geotechnical elements of the investigation were specified by Bouygues E&S Contracting Limited following discussions with the Client to support the preparation of a design by Bouygues.

The purpose of completing the Environmental Assessment is to provide information on the quality of the soil and groundwater beneath the Site in the context of land contamination and provide information on the ground gas regime beneath the Site.

The purpose of completing the Geotechnical Assessment is to provide information regarding the strength and chemical characteristics of the underlying geological deposits in order to aid foundation design of the proposed redevelopment of the Site.

This investigation has been completed in general accordance with BS5930:2015, Code of Practice for Ground Investigations.

This Report has been produced in accordance with the current relevant guidance and best practice as set out within British Standard BS10175, Contaminated Land Report 11 and the National Planning Policy Framework (NPPF).

This Report satisfies 'BREEAM New Construction 2011: LE01 – Site Selection: Criterion 2' by detailing the results of site-investigation works; identifying the degree and sources of contamination; assessing risks to human and environmental health; and providing recommendations for remediation.

1.3 Limitations

Although reference may be made to archaeological and ecological issues, or the potential presence of asbestos containing materials (ACMs) and invasive weeds, this Assessment does not constitute an archaeological or ecological assessment, nor does it constitute an asbestos inspection or invasive weeds survey.

This document provides an assessment of the potential and actual contamination of the ground below the Site based upon the available information and in the context of the scope of works undertaken during this investigation. It does not provide a flood risk assessment, as such, any comments relating to such matters are for information only.

During the preparation of this Assessment, Delta-Simons reviewed and evaluated information provided by the Client, Groundsure, Chemtest Ltd and others. Delta-Simons' conclusions, opinions and recommendations are based upon this information. Delta-Simons does not warrant the accuracy of the information provided to it and will not be responsible for

any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

The recommendations contained in this assessment represent our professional opinions. These opinions were arrived at in accordance with currently accepted industry practices and hydrological and engineering practices at this time and location and, as such, are not a guarantee that the Site is free of hazardous or potentially hazardous materials or conditions.

This assessment was prepared by Delta-Simons for our Client and parties as detailed in the appointment. Any third party using this assessment without reliance does so entirely at their own risk. Delta-Simons makes no warranty or representation whatsoever, express or implied, with respect to the use by a third party of any information contained in this assessment or its suitability for any purpose. Delta-Simons assumes no responsibility for any costs, claims, damages or expenses (including any consequential damages) resulting from the use of this assessment or any information contained in this assessment by a third party.

The Report has not considered the adjacent slope in detail following discussions with the D&B Contractor, this has been considered by others as detailed in the Phase 1 Report prepared for the Site.

2.0 SITE STATUS, HISTORY AND ENVIRONMENTAL SETTING

2.1 Phase I Desk Study and Walkover Summary

A summary of the current Site status, Site history and environmental setting of the Site from the Delta Simons Phase I Environmental Assessment Report, is presented in Table 1. This review includes information sourced from an Envirocheck Report and historical maps; Environment Agency (EA) and British Geological Survey (BGS) Data; previous third party reports; and observations made during a Site walkover in July 2015.

Table 1 – Summary of Site Status, History and Environmental Setting

Current Site & Surrounding Area	<p>The Site is located to the west of Shelton Road in the Willowbrook East Industrial Estate, 3 km north-east of Corby town centre, with an area of approximately 2.53 Ha. The Site comprises a flat area covered by roadways and gravel surfaced parking bays, used for open storage of cars. A landscaped strip runs along the northern and eastern edges of the Site.</p> <p>The Site is proposed to be developed as a waste gasification plant, comprising a large industrial building containing process plant, a number of external fire water tanks, a surface water flow balancing pond, hard surfaced roadways, parking and vehicle delivery areas and landscaping, and is considered to be a low sensitivity development with a commercial end-use.</p> <p>The Site is part of a wider area used for storage of cars, extending to the west and south, and industrial/commercial buildings associated with the Willowbrook East Industrial Estate, to the south. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
Environmental Setting	<p>The Site is reportedly underlain by a significant thickness of Made Ground, comprising granular cover material overlying around 8 m of reworked glacial till, overlying a further 2 m to 9 m of steelworks/lagoon waste fill. This overlies further Made Ground over remnants of the previously worked bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been observed at between 8 m and 20 m below ground level (bgl) in the bedrock or Made Ground.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site. The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The nearest surface water abstraction record is 1,865 m south of the Site, for cooling purposes, now revoked.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm watercourse to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A aquifer, and the lack of proximate ground and surface water abstractions.</p>
Historical Land Use	<p>Historically the Site has been associated with opencast ironstone mining and backfilling with steelworks wastes and reworked overburden materials, prior to surface remediation works carried out in 2001-2002 for construction of the current vehicle storage area.</p>

3.0 SITE INVESTIGATION

3.1 Walkover Survey

A representative of Delta-Simons carried out a walkover survey on the 1st September 2015 in order to confirm the location of the proposed exploratory holes.

3.2 Intrusive Investigation

The fieldwork was undertaken between the 1st September and the 8th September 2015, and comprised the following items.

- △ Supervision of all works by a Delta-Simons Geo-Environmental engineer. All boreholes were logged to BS5930:2015, Code of Practice for Ground Investigations;
- △ Service avoidance exercise;
- △ Drilling of 20 dynamic sampler boreholes (DS101 to 119 and DS107a) to a maximum depth of 3.0 m bgl;
- △ Drilling of ten cable percussion borehole (BH101 to BH110) to a maximum depth of 20.0 m bgl;
- △ Drilling of four rotary boreholes (BHR1 to BHR4) to a maximum depth of 30.0 m bgl;
- △ Installation of 10 selected dynamic sampler, five cable percussive, and four rotary boreholes with 50 mm internal diameter gas and groundwater monitoring wells;
- △ Standard penetration tests (SPTs) were undertaken every 1.00 m to 5.00 m bgl, then every 1.50 m thereafter (where undisturbed sampling was not undertaken), and at selected intervals in the rotary boreholes.;
- △ Completion of two days truck mounted Cone Penetrometer Testing (CPT) over 10 targeted locations, progressed to a maximum depth of 25.15 m bgl;
- △ Collection of disturbed and undisturbed soil samples from selected locations for subsequent laboratory environmental analysis and geotechnical testing;
- △ Collection of groundwater samples from installed boreholes on one occasion; and
- △ Four rounds of gas and groundwater level monitoring.

3.3 Ground Investigation Factual Data

An intrusive location plan is presented as Figure 2.

Delta-Simons engineer verified borehole logs are presented as Appendix I, the SPT Calibration Certificates (in accordance with BS EN ISO 22476-3:2005 incorporating

corrigendum No. 1 2007), Geotechnical investigation and testing - Field testing - Part 3: Standard penetration test for SPT trip hammers are presented as Appendix II.

The gas and groundwater monitoring results are presented as Appendix III.

3.4 In-situ Testing and Sampling

SPT tests were undertaken in all boreholes at 1.00 m intervals until 5.00 m bgl, then every 1.5 m bgl thereafter (where undisturbed sampling was not undertaken). The results of these tests are presented in the borehole logs included as Appendix I.

Sampling comprised disturbed tub and jar samples generally taken at 1.00 m intervals as detailed on the borehole logs.

The results of the truck mounted CPT testing (including assumed material type and geotechnical properties) are included in Appendix IV.

3.5 Laboratory Investigation

Following the ground investigations, a schedule of environmental and geotechnical and chemical laboratory testing was prepared by Delta-Simons.

3.5.1 Environmental Soil Analysis

The location, depth and suite of analyses selected for each environmental soil sample is presented in Table 2.

Table 2 – Soil Sample Environmental Analyses

Borehole Location	Depth (mbgl)	Strata/Sample ID	Standard Suite *	sTPH + Fuel Type	SVOC	WAC Testing (Inert)
DS104	0.2-0.3	SAND	✓	✓		
DS104	1.0-1.4	CLAY	✓	✓		
DS102	0.3-0.5	CLAY	✓			
DS105	0.2-0.3	SAND	✓	✓		
DS105	2.0-2.4	CLAY			✓	
DS103	0.2-0.3	SAND	✓	✓		
DS103	0.6-0.9	CLAY			✓	
DS106	0.2-0.3	SAND	✓	✓		
DS106	1.5-1.8	CLAY	✓			
DS107a	0.08-0.11	GRAVEL			✓	
DS107a	0.9-1	CLAY	✓	✓		
DS107a	2.3-2.7	CLAY		✓		✓
DS111	0.08-0.1	GRAVEL	✓			
DS111	1.3-1.5	CLAY			✓	
DS109	0.1-0.2	SAND	✓	✓		
DS109	2.2-2.5	CLAY	✓			
DS110	1.6-1.8	CLAY	✓			✓
DS110	1.8-2.1	GRAVEL			✓	

DS112	0.4-0.5	SAND	✓			
DS107	0.2-0.3	SAND	✓			
DS107	1.3-1.7	CLAY			✓	
DS101	0.1-0.25	SAND			✓	
DS101	0.5-0.8	CLAY	✓			
DS108	0.1-0.2	SAND			✓	
DS108	0.7-1	CLAY	✓			
DS113	0.2-0.3	SAND	✓	✓		
DS113	1.8-2	CLAY			✓	
DS114	0.7-1	CLAY	✓			
DS116	0.2-0.3	SAND	✓	✓		
DS116	0.3-0.7	CLAY			✓	
DS115	0.05-0.1	GRAVEL	✓	✓		
DS115	1.5-1.8	CLAY			✓	
DS119	1.8-2	CLAY	✓	✓		
DS117	1.3-1.5	CLAY			✓	✓
DS117	0.1-0.3	SAND	✓	✓		
DS118	0.8-1	CLAY	✓			
DS118	0.2-0.3	SAND			✓	
BH108	2.5-3	CLAY	✓	✓		
BH108	8-8.45	ES2	✓			
BH110	2.5-3	ES	✓			
BH101	11-11.5	ES3	✓	✓		
BH101	4.2	ES	✓			
BH102	11	ES4	✓	✓		
BH102	3	ES	✓			
BH103	0.5	ES2				✓
BH103	7.5-8.0	ES3	✓	✓		
BH103	16	ES5	✓			
BH105	4	ES1			✓	
BH105	11	ES3	✓	✓		
BH105	19	ES5	✓			
BH109	3.5-4.0	ES1	✓	✓		✓
BH109	6.5	ES2			✓	
BH109	14	ES4	✓			
BH104	4.1	ES1	✓			
BH104	10.5-11	ES3	✓	✓		
BH106	4.5	ES1	✓			
BH106	11	ES3	✓			
BH107	4.2	ES1	✓			
BH107	12.5	ES3	✓			
Total			42	20	15	5

- MG = Made Ground
 Project Specific Suite = Arsenic, boron, cadmium, chromium (III & VI), copper, lead, mercury, nickel, selenium, zinc, Speciated Polycyclic Aromatic Hydrocarbons (sPAH), pH, phenol and cyanides, Volatile Organic Compounds (VOC), asbestos screening, total sulphur, water soluble sulphate and acid soluble sulphate.
 sTPH = Total and speciated total petroleum hydrocarbons
 SVOC = Semi-volatile organic compounds
 WAC Testing = Waste Acceptance Criteria Testing

3.5.2 Environmental Groundwater Analysis

The suite of analyses selected for each environmental groundwater sample is presented in Table 3.

Table 3 – Groundwater Sample Analysis Summary

Location	Project Specific Suite
R1	✓
R2	✓
R3	✓
R4	✓
BH101	✓
BH102	✓
BH104	✓
DS107	✓
DS116	✓
Total	9

Project Specific Suite = Arsenic, boron, cadmium, chromium (III & VI), copper, lead, mercury, nickel, selenium, zinc); Speciated Polycyclic aromatic hydrocarbons (sPAH); phenols and cyanide; pH and hardness, Speciated Total Petroleum Hydrocarbons (sTPH); Semi Volatile Organic Compounds (SVOC); Volatile Organic Compounds (VOC); water soluble sulphate.

3.5.3 Geotechnical Testing

The geotechnical testing was carried out by a UKAS accredited laboratory (PSL), in accordance with BS 1377 - Parts 2 to 9:1990 Methods of test for soils for civil engineering purposes. A summary of the location, depth, strata and selected analysis for each sample is presented in Table 4. Copies of the geotechnical laboratory test results are presented in Appendix V.

Table 4 – Geotechnical Soil and Rock Sample Analyses Summary

Location	Depth (m bgl)	Strata	Atterberg Limits and Moisture Content	Particle Size Distribution	Triaxial Test (kPa)	Unconfined Compressive Strength	ID Consolidation	Determination of Organic Matter
R3	21.1-21.3	Mudstone				✓		
R3	21.75-22	Mudstone				✓		
R3	22-22.15	Mudstone				✓		
BH101	1-1.5	Granular		✓				
BH106	1-1.5	Granular		✓				
BH107	1-1.5	Granular		✓				
BH103	1.0	Granular		✓				
BH103	3.5-4	Clay		✓				
BH106	4.5-5	Clay		✓				
BH109	3.5-4	Clay		✓				
BH108	4.5-5	Clay		✓				
BH102	2.2	Clay	✓					
BH104	3	Clay	✓					
BH106	3	Clay	✓					
BH108	4	Clay	✓					
BH107	3	Clay	✓					
BH106	10	Peaty Clay	✓					
BH106	11.5	Peaty Clay		✓				
BH102	11.5	Peaty Clay	✓					
BH102	12-12.5	Peaty Clay		✓				
BH101	11-11.5	Clay		✓				

Location	Depth (m bgl)	Strata	Atterberg Limits and Moisture Content	Particle Size Distribution	Triaxial Test (kPa)	Unconfined Compressive Strength	ID Consolidation	Determination of Organic Matter
BH104	10.5-11	Clay		✓				
BH107	12.5-13	Clay		✓				
BH108	8-8.5	Clay		✓				
BH102	14.5	Clay	✓					
BH109	9	Clay	✓					
BH110	9	Clay	✓					
BH107	11.5	Clay	✓					
BH108	8	Clay	✓					
R1	29	Mudstone	✓					
R2	20.8	Mudstone	✓					
R3	23.5	Mudstone	✓					
R4	25	Mudstone	✓					
BH101	8	Peaty Clay						✓
BH102	13	Peaty Clay						✓
BH107	6.7	Peaty Clay						✓
BH106	8	Peaty Clay						✓
BH101	2.5	Clay			✓			
BH101	13.5	Clay			✓			
BH103	4.5	Clay			✓			
BH103	16.5	Clay			✓			
BH108	2.5	Clay			✓			
BH108	13.5	Clay			✓			
BH107	4.5	Clay			✓			
BH107	16.5	Clay			✓			
BH105	3.5-3.95	Clay					✓	
BH105	12-12.45	Clay					✓	
BH106	7.5-7.95	Clay					✓	
BH106	13.5-13.95	Clay					✓	
Total			16	14	8	3	4	4

4.0 GROUND AND GROUNDWATER CONDITIONS

4.1 Ground Conditions

A summary of the observed ground conditions at the Site are provided in Table 5. Geological section is presented as Figures 3a to 3c. The depth to rock head contour plot is presented as Figure 4a, and a 3D representation as Figure 4b.

Table 5 – Summary of Observed Ground Conditions

Strata	Description of Strata	Depth Range of Strata Base (m bgl)
Topsoil/ Hardstand	Granite aggregate and topsoil, topsoil or asphalt hardstanding was present at each borehole location.	<i>0.1 m bgl</i>
Made Ground (Fill)	Made Ground was encountered in each borehole location advanced and generally comprised a shallow layer of light greyish brown, slightly gravelly sand, underlain by greyish black/brown and greenish brown, slightly silty/sandy/gravelly clays with variable layers of pseudo-fibrous and fibrous peat. Gravels generally consisted of fine to coarse sandstone and chalk.	<i>13.80 m bgl (BH103) to 20.50 m bgl (R3)</i>
Made Ground (Possible Fill)	Orangey brown, slightly clayey sand was encountered in BH101, BH102 and BH103, and is considered to represent possible fill material.	<i>18.5 m bgl (BH102) to 16.9 m bgl (BH103)</i>
Northampton Sand Formation	Strong, massive orangey brown sandstone. Encountered in Rotary boreholes BH109, R1, R3 and R4.	<i>18.30 m bgl (BH109) to 22.75 m bgl (R3)</i>
Whitby Mudstone Formation	Weak, dark grey, slightly weathered, laminated mudstone.	<i>Proven to a maximum depth of 29.8 m bgl (R3).</i>

Staining and a strong hydrocarbon odour was encountered between 0.9-1.0 m bgl in the clay of DS107a. No other visual or olfactory evidence of significant contamination was encountered during the intrusive works.

4.2 Groundwater

Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl.

A summary of the maximum and minimum groundwater depths measured in each of the boreholes from the monitoring events between the 07th and 29th of September 2015 are summarised in Table 6.

Table 6 – Summary of Groundwater Depths (m bgl)

Borehole ID	Minimum Depth to Groundwater (m bgl)	Maximum Depths to Groundwater (m bgl)	Ground Level (m AOD)	Groundwater Elevation (m AOD)	
				Minimum	Maximum
R1	14.80	15.96	105.834	91.034	89.874
R2	18.48	20.33	105.503	87.023	85.173
R3	18.39	18.66	104.568	86.178	85.908
R4	16.57	18.71	106.257	87.216	87.547
BH101	14.35	15.63	107.198	92.848	91.568
BH102	14.37	14.68	106.544	92.174	91.864
BH104	18.44	18.91	105.656	87.216	86.746
BH106	N/A	N/A	105.671	N/A	N/A
BH107	N/A	N/A	104.426	N/A	N/A
DS101	0.46	1.14	104.232	103.772	103.092
DS104	0.40	0.44	104.955	104.555	104.515
DS105	0.13	0.31	104.489	104.359	104.179
DS107	0.16	0.71	105.780	105.620	105.070
DS107a	0.33	0.8	105.551	105.221	104.751
DS109	0.91	2.25	105.321	104.411	103.071
DS113	0.12	0.36	106.550	106.430	106.190
DS114	0.13	0.72	105.758	105.628	105.038
DS116	0.12	0.73	105.545	105.425	104.815
DS117	0.10	1.82	106.397	106.297	104.577
DS118	0.29	0.96	106.898	106.608	105.938

It is considered likely that the shallow waters encountered in the dynamic sample boreholes are resultant from perched water and therefore considered separately to the deeper consistent groundwater body.

Based on the measured groundwater levels from the surface and the measured surface elevation (m AOD) at each location, the groundwater elevation (m AOD) has been inferred. An interpolated contour plot for the shallowed perched groundwater is presented as Figure 5a (indicated to flow in a south-easterly direction), and a plot for the deeper resting groundwater is presented as Figure 5b (also indicated to flow in a south-easterly direction).

5.0 GROUND CONDITIONS AND MATERIAL PROPERTIES

5.1 Summary of Geotechnical Parameters

A plot of corrected SPT 'N' values against depth for all strata is presented as Figure 6 and a plasticity chart is presented as Figure 7. A summary of geotechnical parameters for each strata are summarised in Table 7.

Table 7: Summary of Geotechnical Parameters

	Made Ground Fill	Whitby Mudstone Formation	Northampton Sand Formation
Moisture Content - w	16 - 64%	13 - 19%	9.7 – 16%
Liquid Limit - w _L	31 - 100%	48 - 60%	-
Plastic Limit - w _P	17 - 46%	23 - 28%	-
Plasticity Index - I _P	14 - 54%	25 - 32%	-
Uncorrected SPT N	2 – 50*	50*	50*
Corrected SPT 'N' ¹	2.1 – 63.6	62.5	62.5
Bulk Density - ρ _b	1.75 – 2.13	-	2.35 – 2.45
Bulk Unit Weight ³ - γ _b	17.2 - 20.9 kN/m ³	-	23.1 – 24.0 kN/m ³
Undrained Shear Strength - C _u ⁴	31 - 105 kPa	-	-
Coefficient of Volume Compressibility - m _v ⁴	0.087 - 0.171 m ² /MN	-	-
Coefficient of Consolidation - c _v ⁴	0.877 - 4.2 m ² /yr	-	-
Uniaxial Compressive Strength	-	-	4.7 - 14.4 MPa
Organic Matter	1.9 - 9.1%	-	-

1. SPT N values corrected for energy delivered to drive rods utilising the determined energy ratio (E_r): N₆₀ = (E_r x N) / 60 after BS EN ISO 22476-3:2005 [Ref. 4]
2. *Note – An SPT 'N' value of 50 is considered to be a refusal, although original results may be higher, a maximum SPT 'N' value of 50 has been used.
3. Bulk unit weight (kN/m³) = 9.81 x bulk density (Mg/m³ - as determined by laboratory testing)
4. From laboratory test results.

5.2 Geochemical Testing

Geochemical analysis was undertaken on 44 soil samples and nine groundwater samples, tested for selective contaminants (BRE Special Digest 1:2005 (3rd Edition), Concrete in Aggressive Ground, the results of which are summarised in Table 8.

Table 8: BRE SD1 Test Result Summary

	No. of Tests	Minimum	Maximum
Soil - pH	44	7.3	10.2
Soil - Total Sulphur	44	0.05%	3.6%
Soil – Acid Soluble Sulphate	30	0.12%	5.7%
Soil - Water Soluble Sulphate	44	0.10 g/l	1.6 g/l
Groundwater - pH	9	7.0	9.3
Groundwater - Sulphate	9	120 mg/l	1400 mg/l

6.0 GEOTECHNICAL ASSESSMENT

6.1 Summary of Development Proposals

The Site comprises 2.53Ha of restored quarry, and it is understood the Client is considering to develop the Site for a gasification facility. At this stage, detailed design loads are not known, however, structural loadings are expected to be moderate to high.

6.2 Foundations

6.2.1 Shallow Foundations

Given the depth of Made Ground Fill material (up to circa 20 m bgl), which is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads.

6.2.2 Ground Improvement Techniques

It is not considered that ground improvement techniques would be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site.

6.2.3 Piled Foundation

A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads, predominantly utilising end bearing capacity due to the depth of Made Ground Fill, the ongoing settlement of which may induce negative skin friction. Furthermore, consideration should be given to the variable depth to bedrock (Figures 4a and 4b), and the potential presence of in-ground obstructions. As such it is recommended, once pile positions have been confirmed, that each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions.

The precise method of pile installation and applicability of proprietary systems, diameters and depths required would need to be informed based on the results of this investigation, by discussions with a suitably experienced piling contractor.

For preliminary design purposes, the following allowable continuous flight auger (CFA) loads have been assessed based on commonly accepted methods for determining pile base resistance and skin friction/adhesion (utilising a bulk Factor of Safety of 2.5); any negative skin friction effects associated with Made Ground Fill

strata have been ignored. Commercial pile designers may use different parameters, design factors or safety factors than published methods.

Table 9: Estimated Likely Allowable Pile Capacities (CFA Piles)

Typical Pile Size		Allowable Pile Capacity on a Single Pile
0.45 m diameter	25 m	460 kN
0.60 m diameter	25 m	690 kN
0.75 m diameter	25 m	960 kN

Individual pile/ pile group loads will be a function of the surface area of the piles to be employed at the Site and their method of construction.

Normal static and dynamic load testing (including uplift tests) should be considered to achieve satisfactory quality control/assurance in accordance with good practice.

There will be a requirement for the placement of a suitably engineered piling mat, which should be designed and validated by a suitably qualified and experienced engineer.

6.2.4 Floor Slabs

Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs.

At this stage given the likely floor loads expected, it is recommended that a suspended floor slab could be adopted, transferring loads to piles through concrete ground beams/concrete frame.

6.3 Roads and Pavements

In-situ DCP CBR test have not been undertaken within the scope of this investigation. In the absence of such tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design.

Consideration should be given to potential differential settlements between proposed hard stand areas and pile structures. The use of a geotextile and/or stabilisation is recommended where variable ground conditions are encountered to minimise potential differential settlement.

It is recommended that plate load CBR tests are undertaken at formation level prior to finalising pavement design.

6.4 Drainage

The use of soakaways as a form of drainage is not recommended for the Site given the thickness and variability of Made Ground encountered.

6.5 Excavations

It is expected that conventional mechanical excavators will readily remove the Made Ground fill likely to be encountered in shallow excavations.

All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site.

6.6 Groundwater

Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl. It is considered likely that the shallow waters encountered in the dynamic sample boreholes associated with a localised perched water table. The deeper, consistent groundwater body ranged between 14.35 m bgl and 20.33 m bgl.

Groundwater is likely to be encountered in shallow excavations and trenches, and open excavations may collect surface waters. It is considered that the formation of sumps from which the water could be pumped may provide an adequate means of groundwater control.

6.7 Chemical Attack on Buried Concrete

In accordance with the recommendations of BRE Special Digest 1, 'Concrete in Aggressive Ground' 2005, the conditions of the soils at the Site would therefore, be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater, when considering the most appropriate type of concrete to be used at the Site in order to resist chemical attack from elevated sulphate present in the soils for both shallow foundations and deeper piles (assuming mobile groundwater in potentially pyritic soils).

Piling is not generally considered to result in disturbed ground (BRE SD1 – Appendix A), therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay (BRE SD1 – Box C8), which in this case would result in a DS-2 classification based on the results obtained.

7.0 ENVIRONMENTAL ASSESSMENT

7.1 Introduction

The soil and groundwater analysis results from the Delta-Simons Site Investigation have been assessed against the current Generic Assessment Criteria (GAC) in the context of a future commercial end-use.

7.2 Guidance for Analytical Results: Generic Assessment Criteria

A risk assessment approach has been used for the assessment of the results. This process is defined as a tiered assessment considering the 'pollutant linkages' on the basis of a 'source-pathway-receptor' relationship. Analytical results have been assessed against Generic Assessment Criteria considered protective of Human Health and/or controlled waters in the context of the proposed redevelopment of the Site and the environmental setting of the Site.

7.2.1 Human Health Soil Generic Assessment

In the absence of a statutory set of GAC values, Delta-Simons will refer to the following derived using the Contaminated Land Exposure Assessment (CLEA) Framework:

- △ Soil Guidance Values (SGVs) published by the EA;
- △ Category 4 Screening Levels (C4SLs) published by Defra;
- △ Suitable for Use Levels for Human Health Risk Assessment (S4ULs) published by Land Quality Management (LQM)/Chartered Institute of Environmental Health (CIEH);
- △ The GAC produced by the Environmental Industries Commission (EIC), the Association of Geotechnical and Geo-Environmental Specialists (AGS) and Contaminated Land: Application in Real Environments (CL:AIRE) in December 2009; and;
- △ In house Generic Assessment Criteria (HH-GSVs) derived by Delta-Simons and other non UK values where considered relevant.

Delta-Simons Adopted Human Health Generic Assessment Criteria for a commercial end-use are presented in Appendix VI.

7.2.2 Groundwater Generic Assessment

The groundwater analysis results have been assessed against GAC based on the Freshwater Environmental Quality Standards (EQS) or UK Drinking Water Quality Standards (DWQS). In terms of the risks to controlled waters, groundwater contaminant concentrations that exceed the above water quality standards need to

be considered in the context of the Site's environmental setting as to whether further qualitative or quantitative assessment is required.

7.3 Soil Analytical Results

A summary of the soil analytical results compared to a commercial end-use is provided in Table 10 and copies of the soil analysis results are included as Appendix VII.

Table 10 –Soil Sample Analysis Summary (mg/kg unless stated otherwise)

Parameter	Maximum Concentration	Screening Value (Saturation limit)	Source	Samples Which Exceed Screening Value/Elevated Results	
				Location (Depth m bgl) = Concentration	Area of Site
Heavy Metals					
Arsenic	230	640	SGV/LQM	-	-
Barium	300	22000	EIC	-	-
Beryllium	4.3	12	LQM	-	-
Boron	5.6	240000	LQM	-	-
Cadmium	2.3	190	SGV/LQM	-	-
Chromium (Trivalent)	86	8600	LQM	-	-
Chromium (Hexavalent)	0	33	LQM	-	-
Copper	52	68000	LQM	-	-
Lead	220	2300	C4SL	-	-
Mercury	0.35	73	DS-GAC	-	-
Nickel	150	980	LQM	-	-
Selenium	0.50	12000	LQM	-	-
Vanadium	640	9000	LQM	-	-
Zinc	4900	730000	LQM	-	-
Petroleum Hydrocarbons (Only concentrations identified above laboratory detections limits included in table)					
Aliphatic TPH >C8-C10	2700	2000 (78)	LQM	DS107a (0.9-1)=2700	North-east
Aliphatic TPH >C10-C12	2600	9700 (48)	LQM	DS107a (0.9-1)=2600	North-east
Aliphatic TPH >C12-C16	56	59000 (24)	LQM	DS106 (0.2-0.3)=36 DS107a (0.9-1)=56	East North-east
Aliphatic TPH >C16-C21	170	1600000 (8.48)	LQM	DS106 (0.2-0.3)=17 DS107a (0.9-1)=170	East North-east
Aliphatic TPH >C21-C35	1200	1600000 (8.48)	LQM	DS107a (0.9-1)=1200	North-east
Aliphatic TPH >C35-C44	58	1600000 (8.48)	LQM	DS107a (0.9-1)=58	North-east
Aromatic TPH >C8-C10	8.7	3500 (613)	LQM	DS107a (0.9-1)=8.7	North-east
Aromatic TPH >C10-C12	750	16000 (364)	LQM	DS107a (0.9-1)=750	North-east
Aromatic TPH >C12-C16	79	36000 (169)	LQM	DS107a (0.9-1)=79	North-east
Aromatic TPH >C16-C21	390	28000	LQM	DS107a (0.9-1)=390	North-east
Aromatic TPH >C21-C35	2000	28000	LQM	DS107a (0.9-1)=2000	North-east
Aromatic TPH >C35-C44	280	28000	LQM	DS107a (0.9-1)=280	North-east
Total Petroleum Hydrocarbons	10000	N/A	N/A	DS107a (0.9-1)=10000 DS104 (0.2-0.3)=18 DS106 (0.2-0.3)=70	North-east, east

Parameter	Maximum Concentration	Screening Value (Saturation limit)	Source	Samples Which Exceed Screening Value/ Elevated Results	
				Location (Depth m bgl) = Concentration	Area of Site
PAH, including PAH compounds within the SVOC suite					
Naphthalene	2	190 (76.4)	LQM	-	-
Acenaphthylene	0.45	83000 (86.1)	LQM	-	-
Acenaphthene	1.1	84000 (57)	LQM	-	-
Fluorene	3	63000 (30.9)	LQM	-	-
Phenanthrene	9.3	22000 (36)	LQM	-	-
Anthracene	1.9	520000 (1.17)	LQM	BH106 (11)=1.9	Central/east
Fluoranthene	4.9	23000	LQM	-	-
Pyrene	3.2	54000	LQM	-	-
Benzo[a]anthracene	1.4	170	LQM	-	-
Chrysene	2.2	350	LQM	-	-
Benzo[b]fluoranthene	1.9	44	LQM	-	-
Benzo[k]fluoranthene	1.2	1200	LQM	-	-
Benzo[a]pyrene	0.82	35	LQM	-	-
Indeno(1,2,3-c,d)Pyrene	0.91	500	LQM	-	-
Dibenz(a,h)Anthracene	0.65	3.5	LQM	-	-
Benzo[g,h,i]perylene	1.2	3900	LQM	-	-
Others					
Asbestos Screen	N/A	N/A	N/A	Amosite fibres were identified in DS109 (2.2-2.5m bgl)	Central
pH	7.3-10.2	N/A	N/A	-	-
Sulphate (acid soluble %)	5.7	N/A	N/A	-	-
Sulphate (water soluble g/l)	1.6	N/A	N/A	-	-
Total Sulphur (%)	3.6	N/A	N/A	-	-
Cyanide (free mg/kg)	<0.50	N/A	N/A	-	-
Cyanide (total mg/kg)	16	N/A	N/A	BH102(11.0)=16 BH106 (11.0)=7.4 BH108 (8.0-8.45)=2.3 BH101(11.0-11.5)=0.6 BH103(7.5-8)=0.5	Across Site
Total Phenols	<0.5	440	LQM	-	-

Note: N/A = Generic screening value not available
 Shaded = Concentrations exceed screening criteria or are considered significantly elevated
 Shaded = Concentrations exceed saturation limit
 SGV = DEFRA/EA Soil Guideline Value
 LQM = LQM/CIEH Generic Assessment Criteria
 DS-GAC = Delta-Simons' Generic Assessment Criteria

As shown in Table 10 the soil analysis results from the site investigation indicate that very limited contamination of the soils has been identified at the Site.

One sample from DS107 (0.9 to 0.1 m bgl) exceeded the GAC for Aliphatic >C8-C10 and the saturation limits for Aliphatic >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44 and Aromatic >C10-C12. Staining of the soil, a strong hydrocarbon odour and an elevated PID reading (631 ppm) was noted during the Site investigation at this location. The laboratory analytical results and field observations indicate potential separated phase contamination present at this location. Furthermore low concentrations of VOCs were encountered above detection in this location, primarily associated with BTEX benzene compounds.

One sample from DS106 (0.2 to 0.3 m bgl) exceeded the saturation limits for Aliphatic >C12-C16 and >C16-C21. Theoretically this could indicate potential separated phase contamination present at this location, however, on-Site olfactory and visual observations did not corroborate this within the underlying geology and it is considered likely the concentrations represent a solid phase material within the Made Ground.

One sample from BH106 (11 m bgl) marginally exceeded the saturation limit for Anthracene, however it was significantly below the GAC.

Asbestos (amosite lagging) was identified in one sample within the Made Ground at DS109 (2.2 to 2.5 m bgl).

The risk associated with the detectable concentrations of contaminants in soils to the identified receptors is further discussed in Section 8.2.

7.4 Groundwater Analytical Results

A total of nine groundwater samples were collected from the newly installed monitoring wells during one monitoring event. A summary of the groundwater analytical results is presented in Table 11 and copies of the groundwater analytical results are included in Appendix VIII.

Table 11 –Groundwater Sample Analysis Summary (µg/l unless stated otherwise)

Parameter	Maximum Concentration µg/l	Screening Value µg/l (Source)	Samples Which Exceed Screening Value/ Elevated Results	
			Location (Concentration)	Area of Site
Heavy Metals (only those above laboratory detection)				
Arsenic	4.5	10 ^{DWQS}	-	-
Boron	1200	1000 ^{DWQS}	R4	Central/Northern (deeper groundwater)

Parameter	Maximum Concentration µg/l	Screening Value µg/l (Source)	Samples Which Exceed Screening Value/ Elevated Results	
			Location (Concentration)	Area of Site
Heavy Metals (only those above laboratory detection)				
Cadmium (dissolved)	1.2	5 ^{DWQS}	-	-
Chromium	9.9	44.7 ^{DWQS}	-	-
Copper	1.5	2000 ^{DWQS}	-	-
Mercury	2	1 ^{DWQS}	R3, R4, R2, BH101, DS107, DS116	Across Site (both the shallow perched and deeper groundwater)
Nickel	6.3	20 ^{DWQS}	-	-
Lead	1.2	10 ^{DWQS}	-	-
Selenium	16	10 ^{DWQS}	R4	Central/Northern (deeper groundwater)
Zinc	40	50 ^{DWQS}	-	-
Speciated Total Petroleum Hydrocarbons				
All Below Level of Detection				
sPAH				
All Below Level of Detection				
SVOC & VOC				
All Below Level of Detection				
Phenols & Cyanide				
All Below Level of Detection				
Others				
pH	7.0-9.3	6 – 9 ^{EQS}	BH102 (pH 9.3)	West

Note:

- EQS = Freshwater Environmental Quality Standard
- DWQS = UK Drinking Water Quality Standards
- Shaded = Concentrations exceeding screening values

As shown in Table 11, groundwater results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4, situated in the central northern area of the Site. Slightly elevated concentrations of mercury were identified in six of the boreholes sampled.

These exceedance are not considered significant as the Site is not located within a Source Protection Zone, and there are no groundwater abstractions within 2 km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality.

The risk associated with the detectable concentrations of contaminants in the groundwater to the identified receptors is further discussed in Section 8.2.

7.5 Ground Gas Monitoring

Four rounds of ground gas monitoring were undertaken following the Site investigation. A collated summary of the results from the ground gas monitoring

exercise is presented in Table 12. A complete set of ground gas monitoring results are presented in Appendix III.

Table 12 – Summary of Ground Gas Monitoring Data

Monitoring Location	Methane (%v/v)	Carbon Dioxide (%v/v)	Flow Rate (l/hr)	GSV/CS
	Max	Max	Max	
R1	<0.1	2.7	0.2	0.052/CS2
R2	<0.1	4.9	0.2	
R3	<0.1	0.1	<0.1	
R4	<0.1	<0.1	<0.1	
BH101	<0.1	0.1	<0.1	
BH102	10.4	0.1	<0.1	
BH104	<0.1	0.1	<0.1	
BH106	<0.1	0.1	<0.1	
BH107	0.9	1.6	<0.1	
DS101	<0.1	0.3	<0.1	
DS104	<0.1	0.1	<0.1	
DS105	<0.1	0.4	<0.1	
DS107	<0.1	1.6	0.50	
DS107a	<0.1	0.6	0.2	
DS109	<0.1	0.8	0.1	
DS113	<0.1	0.7	<0.1	
DS114	<0.1	0.6	<0.1	
DS116	<0.1	0.5	0.2	
DS117	<0.1	1.0	<0.1	
DS118	<0.1	1.0	<0.1	

Note: GSV = Gas Screening Value
 CS = Characteristic Situation (Range: 1 = Very low risk to 6 = Very high risk)

Low ground gas flow rates were recorded in the following boreholes: R1, R2, DS107, DS107a, DS109 and DS116. Methane was identified in BH102 and BH107, with peak concentrations of 10.4% v/v and 0.9% v/v respectively. Carbon Dioxide peak concentrations ranged from <0.1% v/v to 4.9% v/v (R2).

The monitoring undertaken to date indicates that the Site should be classified as a CS2 –Low Risk. Therefore based on the monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works.

The ground gas monitoring results are considered further within Section 8.2 of this Report.

7.6 Waste Classification

7.6.1 Regulatory Guidance

The Waste Framework Directive (2008/98/EC) (WFD) sets out what waste is and how it should be managed. The WFD considers some wastes to be hazardous which is based upon one or more of the fifteen specified properties listed in Annex III to the WFD and the application of this is determined by the List of Wastes Decision (2000/532/EC) (LoWD). This LoWD provides:

- △ A list of wastes (often still called the European Waste Catalogue);
- △ Rules for using the list; and
- △ Criteria used to assess if a waste on the list is hazardous.

The WFD and LoWD use the classification of product chemicals as the basis for the assessment of hazardous waste and are implemented in England, Northern Ireland, Scotland and Wales using different domestic regulations. There are two chemical directives that apply to hazardous waste assessment: the Dangerous Substances Directive (67/548/EC) DSD and the Dangerous Preparations Directive (1999/45/EC) (DPD) which are implemented in the UK by the Chemical (Hazard Information and Packaging for Supply) Regulations (CHIP). These are being replaced in stages by the Classification, Labelling and Packaging of Substances and Mixtures Regulation (CLP).

The key guidance document in relation to hazardous waste is: Technical Guidance WM3, Hazardous Waste: Interpretation of the definition and classification of hazardous waste (1st edition 2015). This document provides a common technical basis for applying the definition and classification of hazardous waste in the UK and with respect to oil related wastes supersedes and replaces SEPA's SWAN 04 guidance.

Hazardous waste classification presents certain challenges within the context of contaminated soils because classification relies upon the detailed knowledge of toxicological properties of specific substances as described in the Health and Safety Executive (HSE) document 'Approved Classification and Labelling Guide' (6th Edition) which refers to Table 3.2 Part 3 of Annex VI to the CLP Regulation Supply List' which defines a substance's specific properties. These are required to be displayed on product supply labels, Transport Emergency (TREM) cards and Material Safety Data Sheets (MSDS). Therefore, to completely profile waste soils the

advanced categorisation of specific substances would be required. However, this level of testing is not practicable and, for example, typical laboratory testing only provides cation concentrations for heavy metals rather than concentrations of specific heavy metal compounds. Therefore, a conservative approach is usually adopted utilising a suitable worst-case surrogate substance from Table 3.2 Part 3 of Annex VI to the CLP Regulation Supply List as a benchmark against the hazardous waste property threshold.

HazWasteOnline (HAZWOL) is a web-based tool for classifying hazardous waste. The software follows the latest EA guidance and European regulations and maintains a conservative approach for surrogate compounds (although it can be adapted to reflect additional knowledge/data). The HAZWOL tool will classify sample results as either hazardous or non-hazardous based upon the concentrations of contaminations present and the threshold levels for various hazardous properties.

Since the Landfill Directive was implemented into UK law, landfill sites have been divided into those accepting inert, non-hazardous and hazardous waste. Landfills may only accept waste of the same classification as the landfill, although some non-hazardous landfills with specially prepared engineered cells, can accept certain types of hazardous waste such as Stable Non-reactive Hazardous Waste (SNRHW).

Waste Acceptance Criteria (WAC) testing is used to determine the acceptance of waste at landfills, the tests do not provide waste classification to determine whether the waste is hazardous, non-hazardous or inert. There are specific WAC tests for inert and hazardous landfills. Materials classified as hazardous must meet the hazardous WAC before they are accepted in a hazardous landfill. If materials classified as non-hazardous meet the inert WAC they may be accepted in an inert landfill, if not, they may be accepted at a non-hazardous landfill. There are currently no non-hazardous WAC.

Landfill facilities may also have their own individual permit restrictions dictating the wastes acceptable at their premises. These permit restrictions are often only available following direct consultation with the landfill facility.

7.6.2 Analytical Review

Analytical data from Made Ground soil samples collected from intrusive locations have been entered into the HWOL spreadsheets (a copy of which is included as

Appendix IX). In general the Made Ground Fill would likely be classified as Non-Hazardous for disposal purposes, with localised 'hotspots' of potentially hazardous soils associated with metals and cyanide, and a confirmed location of hazardous soils associated with hydrocarbons.

Consultation with landfill operators should be undertaken at an early stage to confirm their requirements with copies of the HWOL, solid chemical and WAC results submitted to them for their own classification purposes.

8.0 ASSESSMENT OF RISK AND CONCEPTUAL MODEL

8.1 Risk Assessment

The risk assessment procedure which identifies sources, pathways, receptors and pollutant linkages is, therefore, recognised as an appropriate approach to determining the extent and significance of contamination either within the context of Part 2A of the Environmental Protection Act 1990 (when assessing current Site status or when considering the acquisition of an existing development), or as part of the planning process (for the redevelopment of an existing Site, or when considering the acquisition of a Site for redevelopment purposes). In either context the 'suitable for use' approach is adopted in assessing the risks. As such, the source-pathway-receptor assessment defines a conceptual model for the Site under consideration.

8.2 Identified Sources of Contamination

A CSM is presented overleaf and has been formulated taking into account all of the available data from the Delta-Simons intrusive investigation suitable for a Site with a proposed commercial end-use (gasification plant).

Table 12 – Conceptual Site Model

Source	Pathway	Receptor	Matrix Assessment	Justification / Additional Assessment
Identified concentrations of heavy metals within shallow Made Ground Previously unidentified hotspots of contamination	Direct contact/ ingestion and inhalation of dust	Future Site users (occupiers and visitors)	Low Risk	Widespread elevated concentrations of contaminants have not been identified in soils across the Site (a hotspot of TPH contamination was identified in DS107a). The majority of the redevelopment will consist of hardstand surfacing, however, in any areas of soft landscaping proposed, a clean layer of imported topsoil will be required to break the pollutant linkage.
		Groundworkers during redevelopment and any future sub-surface works	Low Risk	Groundworkers and sub-surface maintenance workers should be made aware of the possibility of encountering contaminated soils through toolbox talks. Safe working procedures should be implemented, good standards of personal hygiene should be observed and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans.
	Windblown contaminated dust	Off-Site receptors	Low Risk	The potential for the generation of contaminated dust and the risk to off-Site receptors is considered to be low. However, in accordance with general good practice, the groundworks contractor will need to implement dust suppression techniques at the Site to limit the potential for the generation of dust.
	Leaching and migration through groundwater present beneath the Site	Controlled waters - Secondary A Aquifer	Low Risk	Elevated concentrations of boron, mercury and selenium have been identified within the groundwater, but are considered representative of wider groundwater quality, and as such not considered to represent a risk to the end Site use or its users.
	Direct infiltration in water supply pipes.	Drinking water supply pipes	Low Risk	Hydrocarbons, especially aromatics and chlorinated solvents, are known to permeate plastic pipes. Assessment of the risk to water pipes for any new supply will have to be undertaken as a requirement of the statutory undertakers who should be provided with a copy of this Site investigation Report and provide recommendations for upgrading of potable water supply pipes, if considered necessary.
Asbestos containing materials	Groundworkers and construction workers during redevelopment and future sub-surface maintenance and occupiers of adjacent properties during redevelopment	Inhalation of asbestos fibres	Low Risk	Asbestos fibres have been identified in one location (DS109). Groundworkers should be made aware of the possibility of encountering potential Asbestos Containing Materials (ACM) within the Made Ground across the Site and an appropriate protocol should be in place. Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans.

Potentially hazardous ground gas	Vertical & lateral migration and accumulation of gas in enclosed spaces and sub-floor voids	Construction / maintenance workers and Site users / visitors	Low Risk	Elevated concentrations of methane and carbon dioxide have been identified across the Site, however, flows are low and therefore it is considered that the ground gas regime at the Site is Characteristic Situation 2 – low risk, under which only basic ground gas protection measures are required.
Potentially unidentified 'hotspots' of contamination, which may be present in areas of the Site that have not been directly investigated	All receptors	All pathways	Possible	As with all redevelopment works, a 'hotspot' protocol should be in place for groundworkers to act upon during any future redevelopment of the Site.

9.0 ASSESSMENT OF RISKS AND LIABILITIES

This assessment considers both perceived and actual risks using the source-pathway-receptor concept, with the principal measure of risk being whether significant harm (to people, animals, property (including buildings, etc.), or ecosystems) or pollution of controlled waters (surface water bodies, aquifers, coastal waters, or territorial waters) is being caused, or whether there is a significant possibility of such harm being caused with respect to statutory liability.

Risks and liabilities have been assessed both in terms of investment and development impacts.

The overall risk classification, based on the Source-pathway-receptor principle, adopted for this preliminary assessment, is defined as follows:

- △ Low risk – issue unlikely to present a liability or cost;
- △ Moderate risk – issue may present a liability or cost, but these may be limited;
and
- △ High risk – likely that significant liabilities and/or costs exist.

9.1 Statement of Risk

Based on the available information following the Phase II Investigation, Delta-Simons considers that in the context of a continuing commercial use of the Site, the following risk and liability statements can be made.

Table 13 - Liability Assessment

Regulatory Body Enforcement (Part 2A or WRA)	There is considered to be a Low risk of enforcement action under Part 2A or WRA.
Third Party Liability	Potential for legal action by surrounding landowners based on the potential for contamination to migrate off-Site is considered to be Low .
Investment Impact	Delta-Simons considers there to be a Low risk of impact on the commercial value of the Site in terms of investment from significant contamination issues.
Development Impact	Delta-Simons considers there to be a Low risk of impact associated with redevelopment of the Site with respect to significant contamination issues.
Overall Statement of Risk	On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination issues and associated environmental liabilities, the Site represents an investment opportunity with a Low overall risk status. In the context of a commercial redevelopment remediation would be limited to basic engineering measures and a specific remediation programme will not be needed.

10.0 CONCLUSIONS AND RECOMMENDATIONS

10.1 General

The Site investigation has been carried out in order to assess the contamination status of the soil and groundwater beneath the Site, and the geotechnical characteristics of the soil and rock. The assessment is being completed prior to the redevelopment of the Site for a commercial end use.

The chemical analysis undertaken on selected soil samples did not identify significantly elevated concentrations of contamination in the tested locations. A hotspot of TPH contamination was identified in DS107a, however, this is not considered to represent a material risk as the majority of the proposed redevelopment is understood to consist of hardstand surfacing. Asbestos (amosite lagging) was identified in one sample within the Made Ground at DS109 at depth. Groundwater chemical analysis results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4. Slightly elevated concentrations of mercury were identified in six of the boreholes sampled. These exceedances are not considered significant as the Site is not located within a Source Protection Zone, and there are no active groundwater abstractions within 2km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality. Ground gas monitoring indicated low gas flow rates and slightly elevated concentrations of methane (maximum concentration of 10.4% v/v) and carbon dioxide (maximum concentration of 4.9% v/v) giving the Site a Characterisation Situation 2 (CS2 –Low Risk).

10.2 Environmental Recommendations

Based on the information obtained to date the following information can be concluded:

- △ Significantly elevated concentrations of targeted contaminants above the respective assessment criteria which are considered to represent a risk in the context of the redevelopment have not been identified in soils and a specific remediation exercise is not considered to be required;
- △ It is recommended that a minimum 300 mm of certified suitable for use topsoil/subsoil should be incorporated into all new landscaped areas;

- △ Although good site coverage has been achieved, unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place should such contamination be identified during construction;
- △ Based on the ground gas monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works;
- △ For materials removed from site to achieve cut and fill / for pile caps etc. shallow soils likely to be encountered should generally be considered as non-hazardous for disposal, with localised areas of potentially hazardous soils. Additional waste classification testing as part of the development process (including WAC testing) may be required to facilitate off-Site disposal of Made Ground materials once the specific materials to be removed are identified;
- △ As with all brownfield development sites, groundworkers who are required to perform sub-surface work at the Site should be made aware of the known contaminants in soil and groundwater and the possibility of encountering additional localised low levels of contamination. This should include information on the potential to encounter Asbestos Containing Materials (ACM). Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans Suitable dust suppression techniques will need to be implemented during the redevelopment; and
- △ Given the history of the Site, it should be assumed that upgraded water pipe material will be required, albeit, confirmation should be sought from the Local Water Authority.

10.3 Summary of Geotechnical Recommendations

On the basis of the information obtained and reviewed as part of this Assessment and the conclusions drawn above, Delta-Simons makes the following geotechnical recommendations:

- △ The Made Ground Fill material is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads;

- △ A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads, predominantly utilising end bearing capacity due to the depth of Made Ground Fill, the ongoing settlement of which may induce negative skin friction. It would be recommended, once pile positions have been confirmed, that each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions;
- △ It is not considered that ground improvement techniques would be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site;
- △ Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs;
- △ In-situ DCP CBR tests have not been included within the scope of this investigation. In the absence of such tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design;
- △ The use of soakaways as a form of drainage is not recommended for the Site given the thickness and nature of the Made Ground encountered;
- △ All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site;
- △ The conditions of the soils at the Site would be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater, when considering the most appropriate type of concrete to be used at the Site in order to resist chemical attack from elevated sulphate present in the soils for both shallow foundations and deeper piles. Piling is not generally considered to result in disturbed ground, therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay, which in this case would result in a DS-2 classification based on the results obtained.

10.4 Statement of Risk

Based on the available information, Delta-Simons considers that in the context of a continuing commercial use of the Site, the risk and liabilities associated with third party, investment and development impacts to be low.

This Report was prepared by:



Stacey Ragsdale
Environmental Scientist

Date 9th December 2015

This Report was reviewed by:



Simon Steele
Projects Manager

Date 9th December 2015

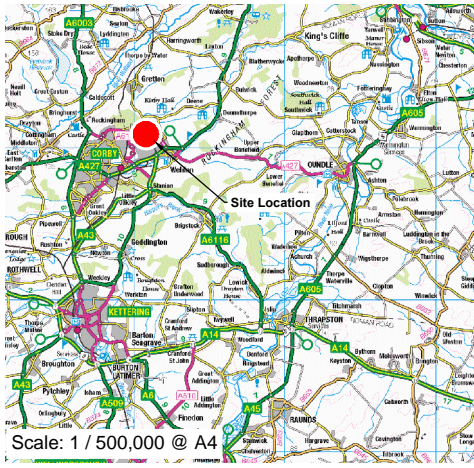
This Report was authorised by:




Simon Brown
Commercial Director

Date 9th December 2015





LEGEND

 Site Boundary



Scale: 1 / 10,000 @ A4

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TITLE:
Site Location Map
Shelton Road
Corby

DRAWN BY:
DP

SCALE:
To Scale @ A4

PROJECT NO:
15-0645.02

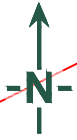
CHECKED BY:
SR

REVISION:
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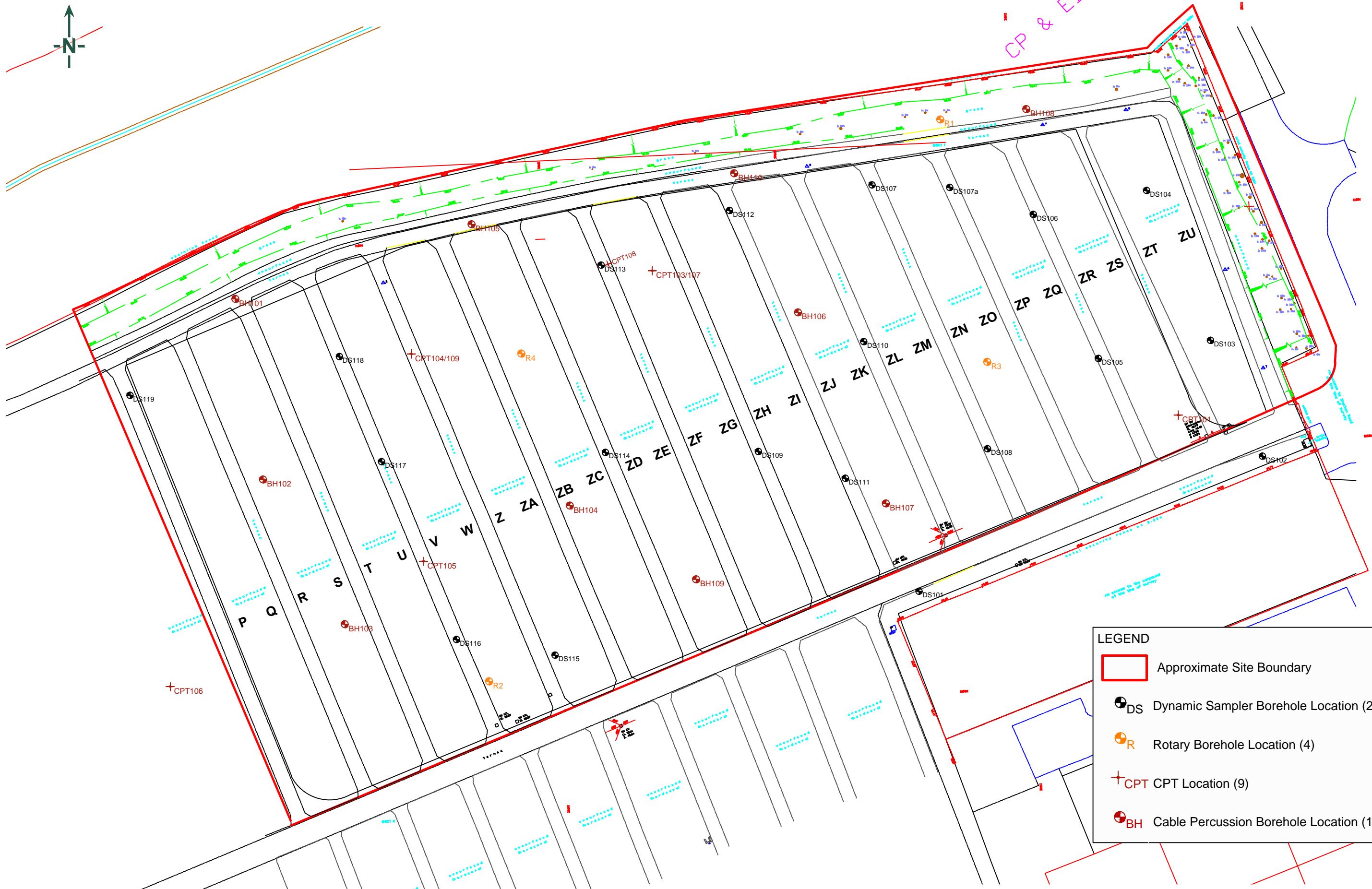
FIGURE NO:

DATE:
30 September 2015






1



CP & ED Ba



LEGEND

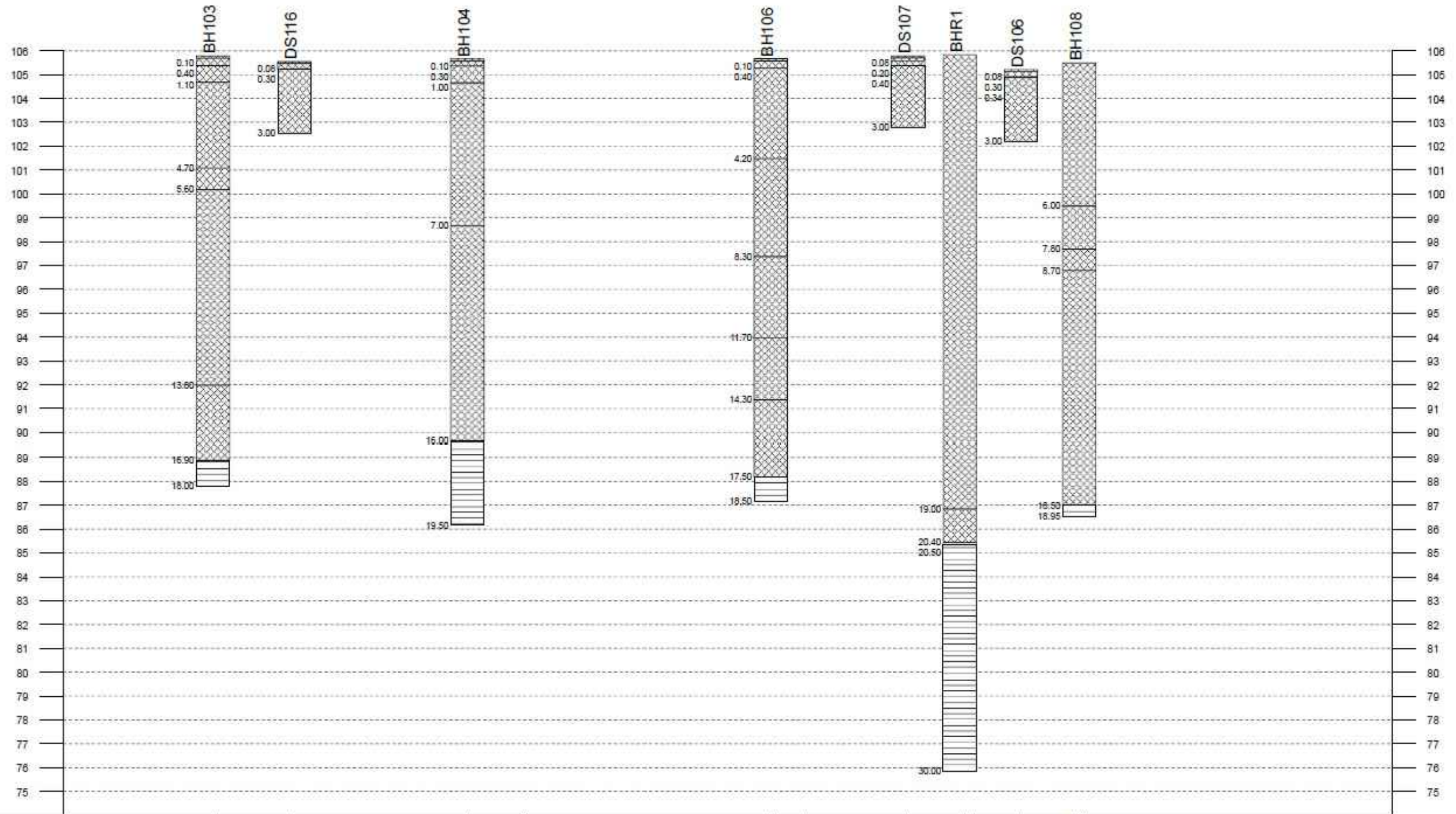
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-  DS Dynamic Sampler Borehole Location (20)
-  R Rotary Borehole Location (4)
-  CPT CPT Location (9)
-  BH Cable Percussion Borehole Location (10)

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TITLE:
Site Layout and Investigation Location Plan
Shelton Road
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 2
DATE: 09-09-2015	REV: 1	



Legend Key

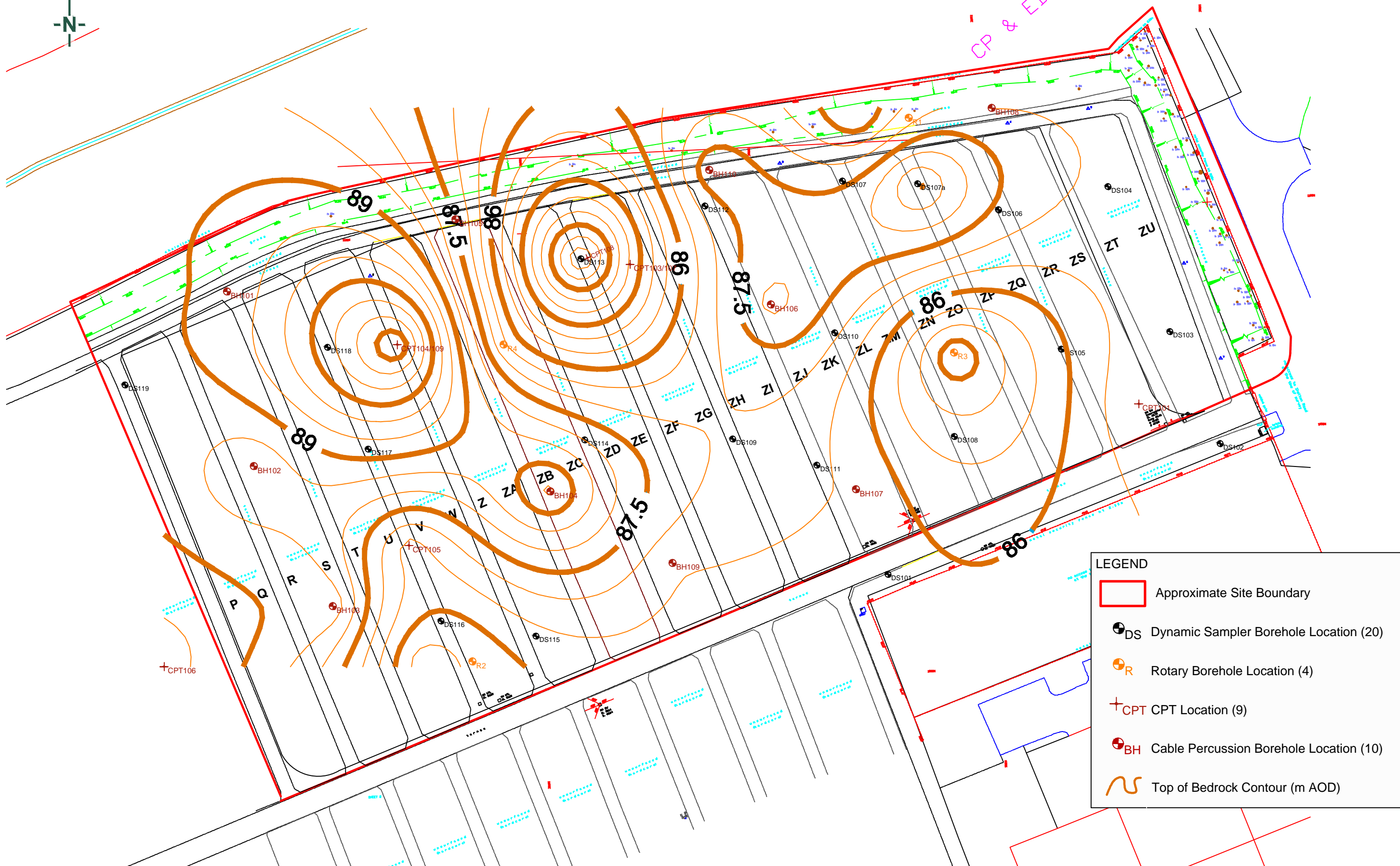
- MADE GROUND
- MUDSTONE
- SANDSTONE

74.00

Chainage (m)	0.06	17.10	53.40	64.57	116.78	124.26	145.59	156.44	169.25	182.06
Offset (m)	0.51	17.33	8.98	20.61	5.17	16.55	7.08	16.30	18.50	0.31
Elevation (mAOD)	105.78	105.55	105.66	106.28	105.67	105.36	105.78	105.83	105.21	105.49



CP & ED Body



LEGEND

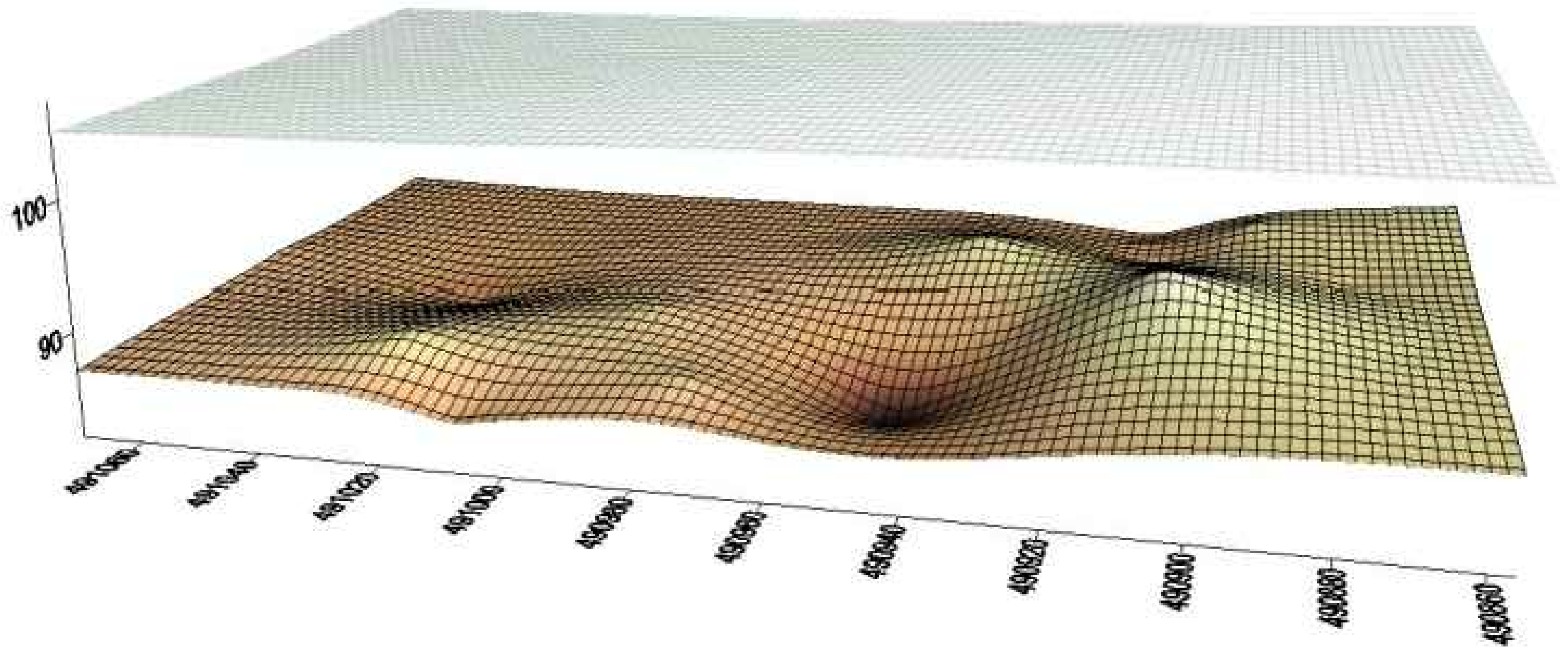
- Approximate Site Boundary
- Dynamic Sampler Borehole Location (20)
- Rotary Borehole Location (4)
- CPT Location (9)
- Cable Percussion Borehole Location (10)
- Top of Bedrock Contour (m AOD)

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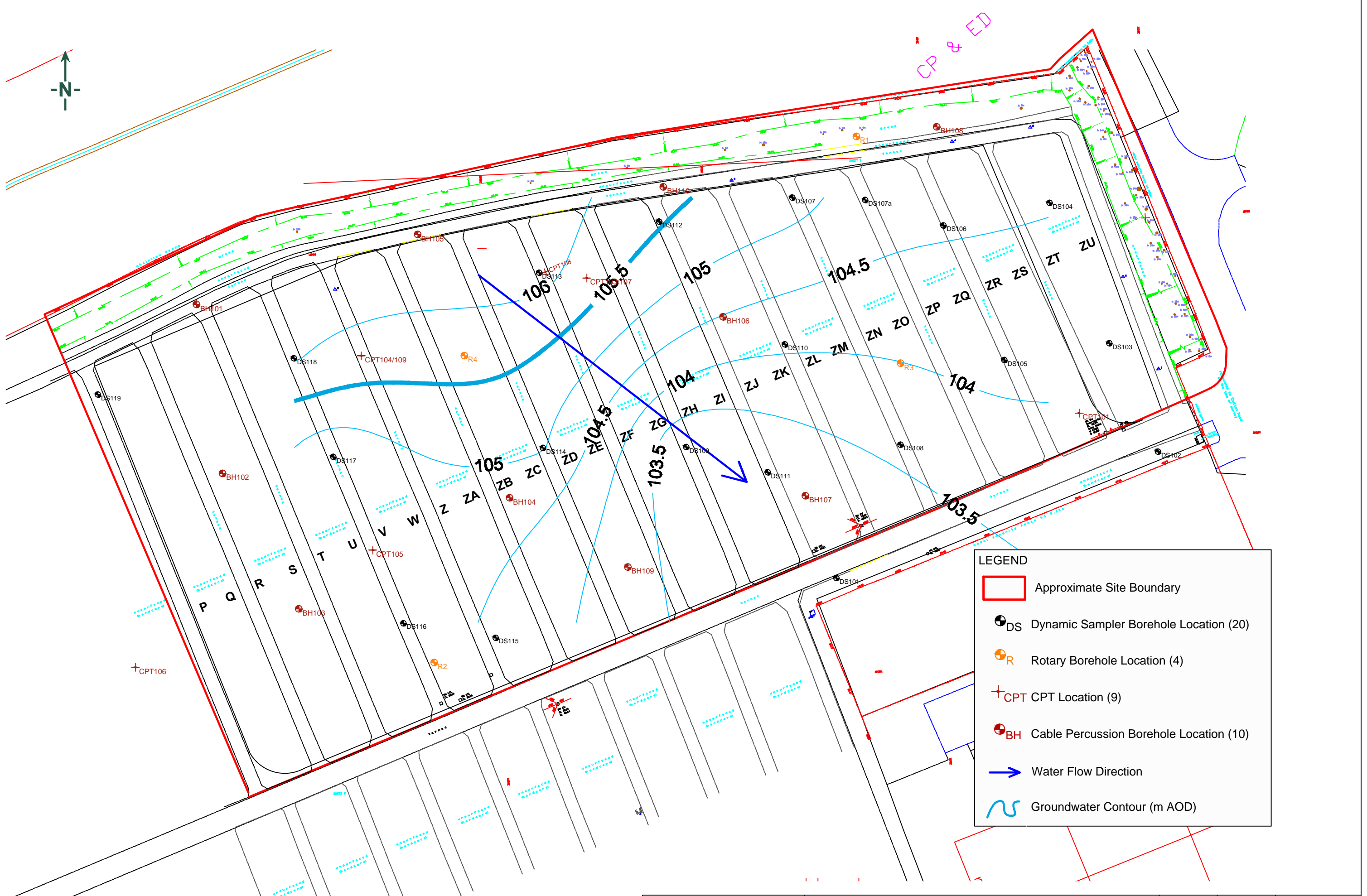
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Interpolated Top of Bedrock (2D)
Shelton Road
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 4a
DATE: 01-10-2015	REV: 1	



TITLE:
Interpolated Top of Bedrock (3D)
Shelton Road
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 4b
DATE: 01-10-2015	REV: 1	

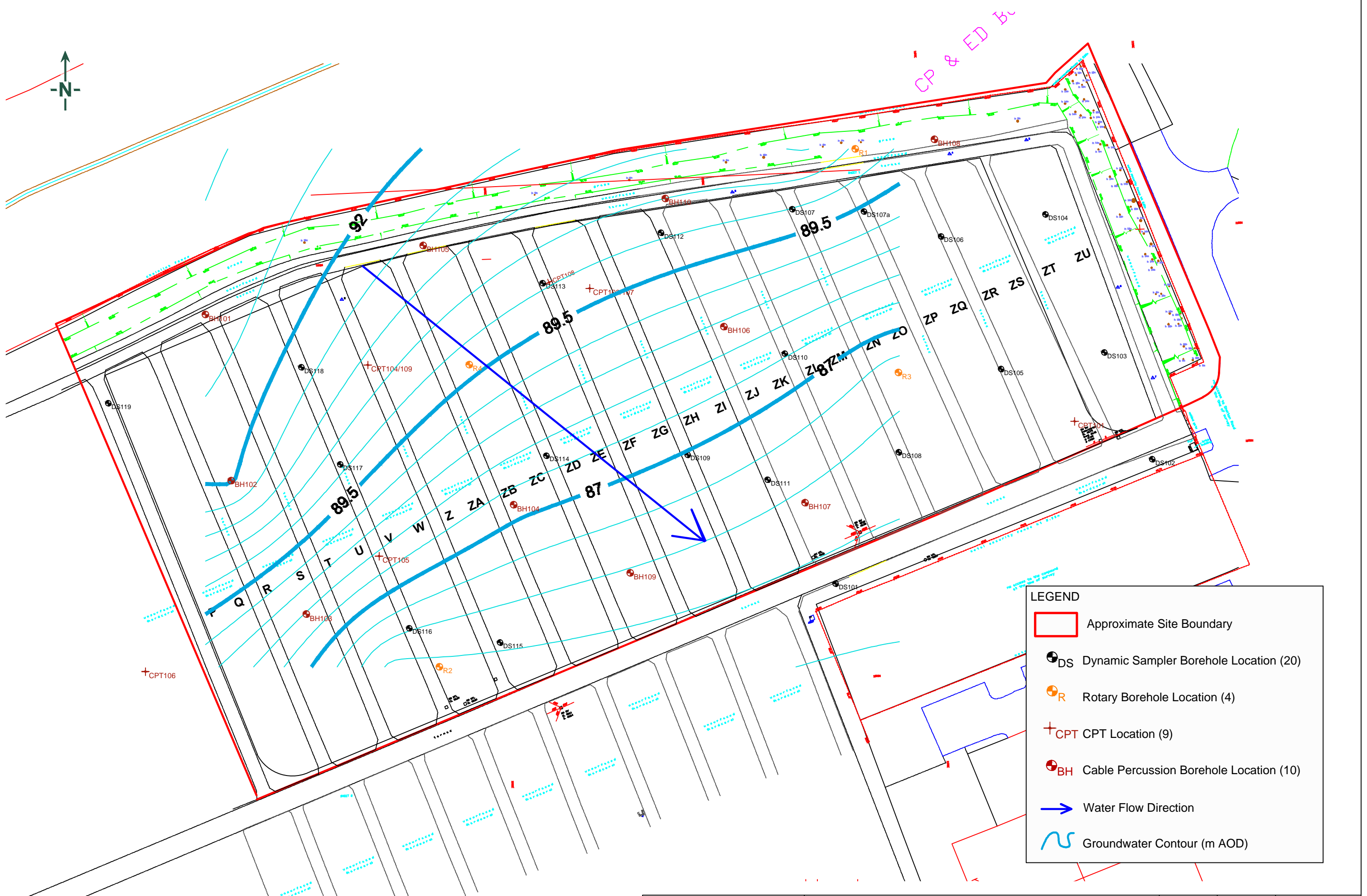
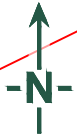


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TITLE:
 Interpolated Groundwater Contour Plot (Perched Groundwater)
 Shelton Road
 Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 5a
DATE: 01-10-2015	REV: 1	



LEGEND

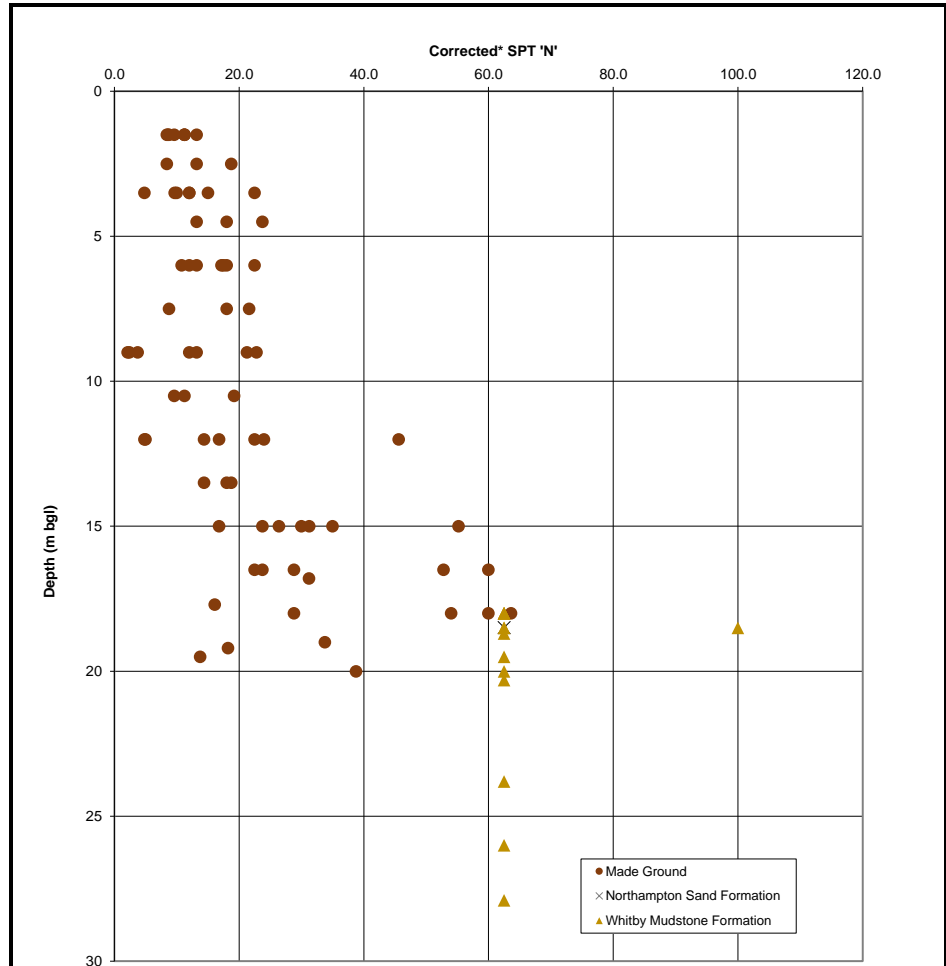
- Approximate Site Boundary
- Dynamic Sampler Borehole Location (20)
- Rotary Borehole Location (4)
- CPT Location (9)
- Cable Percussion Borehole Location (10)
- Water Flow Direction
- Groundwater Contour (m AOD)


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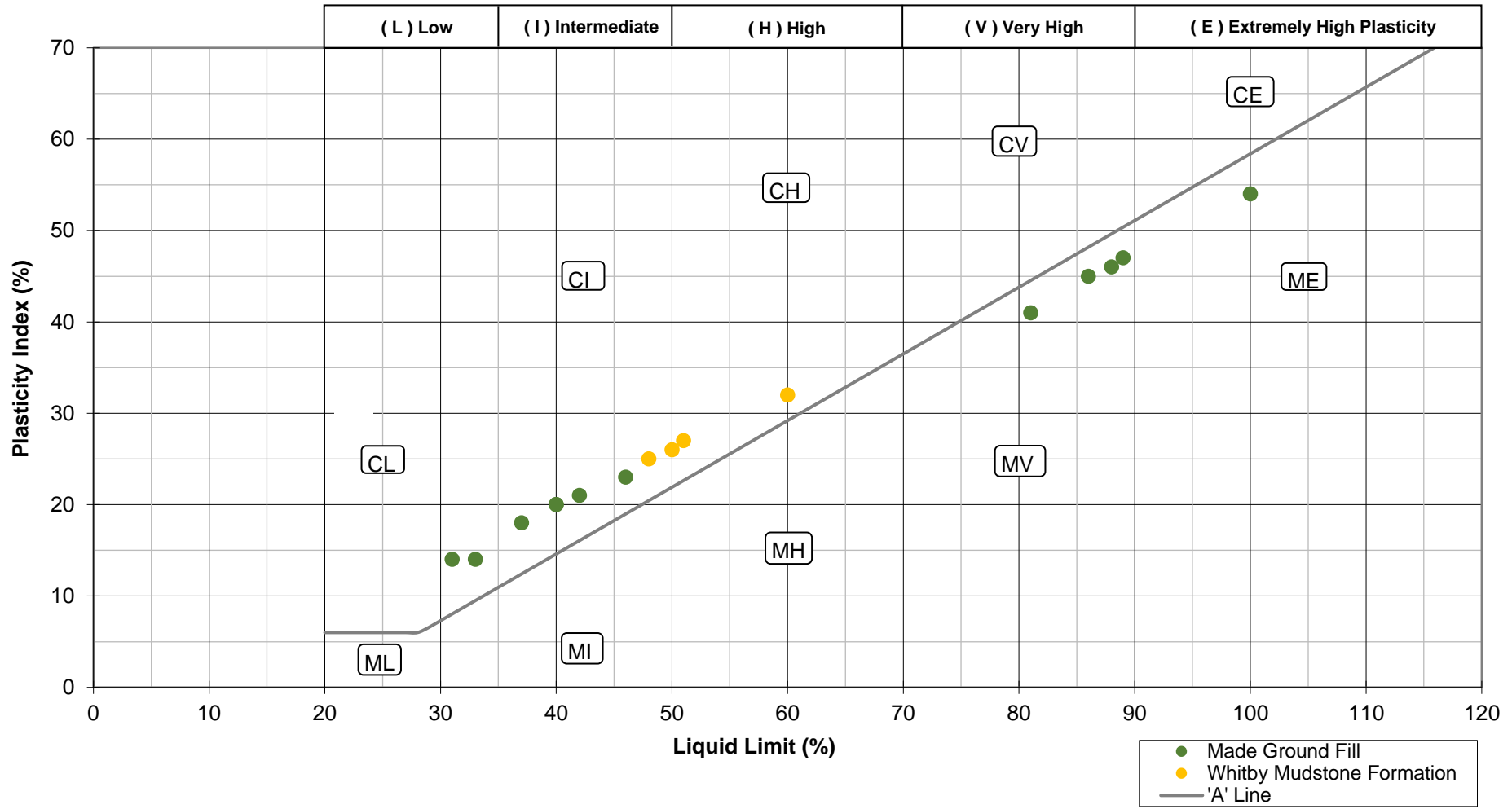


TITLE:
Interpolated Groundwater Contour Plot (Deep Groundwater)
Shelton Road
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 5b
DATE: 01-10-2015	REV: 1	



	TITLE: Corrected* SPT, Depth and Strata Type Shelton Road, Corby *corrected for SPT hammer energy ratio only	DWN:	PROJECT NO.:
		SR	15-0645.02
		DATE:	FIGURE NO.:
		Oct-15	6



TITLE:

Plasticity Chart - All Soils
Shelton Road, Corby

DWN:

SS

PROJECT NO.:

15-0645.02

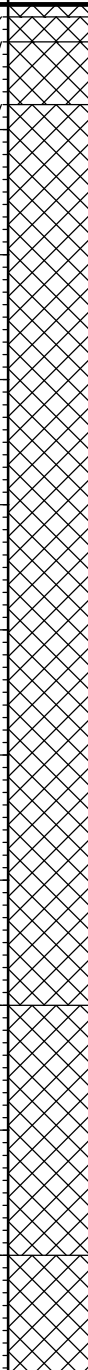
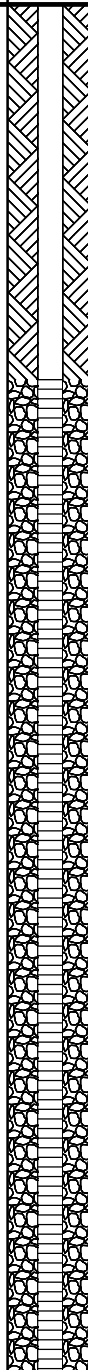
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Oct-15


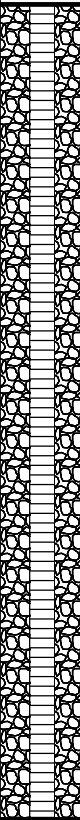





FIGURE NO.:

7



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.10 107.10 0.30 106.90 (0.50)	(150)	0.10	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.80		D 2				
MADE GROUND: Soft dark grey and black, slightly sandy slightly gravelly silty clay with occasional plant material. (FILL)		1.00-1.50		B B1				
MADE GROUND: Soft to firm greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.50-1.95			SPT(S) N=8 1,1,2,1,2,3			
		2.20		D 3				
		2.50		U U1	U=25/450mm			
		3.00		D 4				
		3.50-3.95			SPT(S) N=9 1,2,2,2,3,2			
		4.20		D 5				
		4.50-4.95		U U2	U=12/135mm			
MADE GROUND: Very soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		(7.20)		5.00	D 6			
	5.50		D 7					
	6.00-6.45			SPT(S) N=16 2,2,3,4,5,4				
	7.00		D 8					
	7.50-7.95		U U3	U=36/450mm				
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)	(2.00)	8.00	D 9					
		8.00-8.50	B B2					
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)	(10.00)	9.00-9.45		SPT(S) N=2 1,0,0,0,1,1				
		10.00	D 10					
		10.50-10.95	U U4	U=35/450mm				
		11.00	D 11	PID=0.2ppm				

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing 20 (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN					15.60	2.50
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490870.036 N:290895.238 Level:107.198	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(6.00)		11.00-11.50	B B3					
						12.00-12.45			SPT(S) N=12 2,3/2,3,3,4	
						13.00	D 12			
						13.50-13.95	U U5		13.50-13.95	U=35/0mm
						14.00	D 13			
MADE GROUND: Orange and brown slightly clayey sand. (POSSIBLE FILL)		(2.10)		15.00-15.45		15.00-15.45	SPT(S) N=22 2,4/5,4,6,7			
				16.00	D 14					
				16.50-16.95	U U6	16.50-16.95	U=70/0mm			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)				16.80-17.00	B B4					
				17.50	D 15					
Borehole complete at 18.20 m bgl.				18.00-18.45		18.00-18.45	SPT(S) N=50 6,19/50,0,0,0			

Remarks

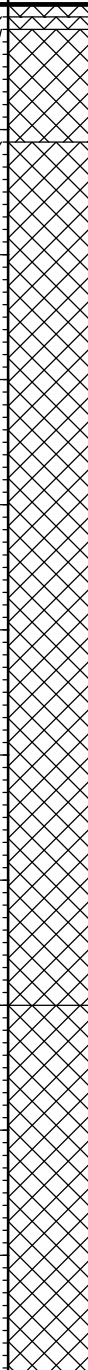
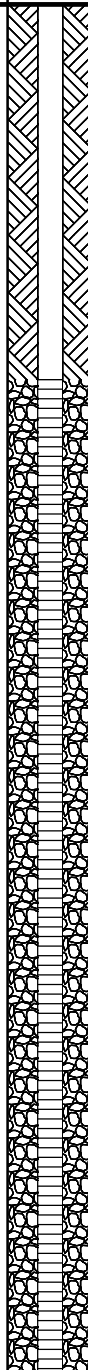
1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

Chiselling Details

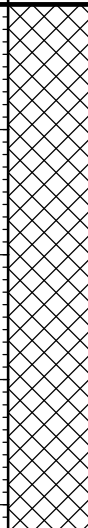

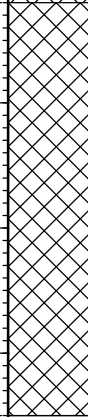



Water Level Observations

Depth (m)	Time	Date	Time	Water Strike (m)	Standing 20 (m)	Casing Depth (m)
NO CHISELLING UNDERTAKEN						
					15.60	2.50



Borehole Diameter	Casing Diameter	Depth Sealed
	150mm to 2.50m	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Aggregate		0.10 106.44	(150)	0.20	D 1				
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		0.20 106.34							
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(0.90)							
MADE GROUND: Very soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		1.10 105.44			1.00	D 2	1.50-1.95		SPT(C) N=8 1,1,2,1,2,3
					1.10	D 3			
					1.10-1.50	B B1			
					2.20	D 4			
					2.50	U U1	2.50-2.95		U=6/225mm
					3.00	D 5			
					4.20	D 6			
				(6.90)	4.50-5.00	B B2	4.50-4.95		U=10/0mm
					4.50-4.95	U U2			
			5.50	D 7					
			7.00	D 8					
			7.50-7.95	U U3	7.50-7.95	U=20/180mm			
			8.00	D 9					
		8.00 98.54	8.50	D 10					
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)			9.00-9.45		9.00-9.45	SPT(S) N=2 0,1,0,0,1,1			
			10.00	D 11					
			10.50-11.00	D 12	10.50-10.95	U=10/0mm			
			10.50-10.95	U U4					

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	18.50 - 18.70	00:00					
	NO WATER ENCOUNTERED						
Borehole Diameter		Casing Diameter		Depth Sealed			
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490875.945 N:290856.916 Level:106.544	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(7.20)		11.50	D 13			
				12.00-12.50	B B3	12.00-12.45	SPT(S) N=4 1,0,1,1,1,1	
				13.00	D 14			
				13.50-14.00	B B4	13.50-13.95	U=7/450mm	
				13.50-13.95	U U5			
				14.50	D 15			
MADE GROUND: Orange and brown slightly clayey sand, becoming gravelly from 18.00 m. (POSSIBLE FILL)		(3.30)		15.20	D 16	15.00-15.45	SPT(S) N=46 4,10,11,21,9,5	
				16.00-16.50	B B5			
				16.50-17.00	B B6	16.50-16.95	SPT(C) N=44 5,9,9,11,12,12	
				17.50	D 17			
				18.00-18.50	B B7	18.00-18.45	SPT(C) N=53 6,5,8,10,15,20	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		18.70 87.84		18.50	D 18	18.70-19.15	SPT(C) N=50/225mm (25/40mm,0/0mm/50,0,0,0/0mm)	
Borehole complete at 18.70 m bgl.								

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	18.50 - 18.70	00:00					
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490875.945 N:290856.916 Level:106.544	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Aggregate		0.10 105.68	(150)	0.30	D 1	1.50-1.95	SPT(S) N=7 1,0,1,2,2,2			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 105.38		0.50-1.00	B B1					
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(0.70)		1.00	D 2					
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		1.10 104.68		2.00	D 3					
		(3.60)		2.50-2.95	B B2 U U1				U=40/0mm	
				3.00	D 4					
				3.50-4.00	B B3				SPT(S) N=10 1,1,2,2,3,3	
				4.00	D 5					
				4.50-4.95	U U2				U=35/0mm	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		4.70 101.08		5.00	D 6					
		(0.90)		6.00	D 7				6.00-6.45	SPT(S) N=9 1,2,1,2,3,3
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)		5.60 100.18		7.00	D 8					
		7.50-8.00	B B4 U U3	7.50-21.00	U=0mm					
		8.00	D 9							
		9.00	D 10	9.00-9.45	SPT(S) N=11 2,2,2,2,4,3					
	(8.20)	10.00	D 11							
		10.50-11.00	B B5 U U4	10.50-10.95	U=100/0mm					
		11.00	D 12							

Remarks

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

Chiselling Details

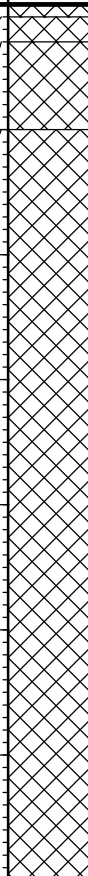
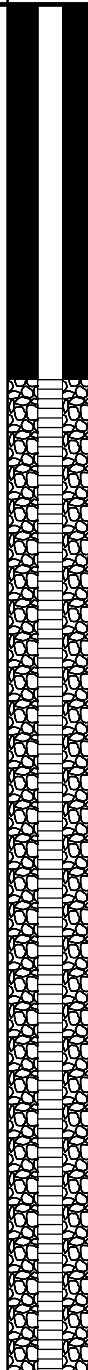
Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
NO CHISELLING UNDERTAKEN						2.50

Water Level Observations

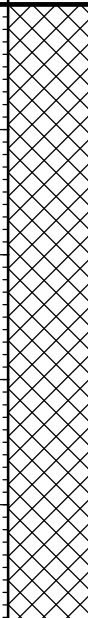


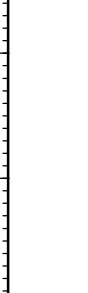
Borehole Diameter	Casing Diameter	Depth Sealed
	150mm to 7.50m	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)	[Cross-hatch pattern]			12.00	D 13	12.00-12.45	SPT(S) N=20 3,3,4,4,5,7	[Diagonal hatch pattern]
				13.00	D 14			
		13.80 91.98		13.50-13.95	U U5	13.50-13.95	U=0mm	
MADE GROUND: Orange and brown slightly clayey sand. (POSSIBLE FILL)	[Cross-hatch pattern]			14.00	D 15			
				15.00	D 16	15.00-15.45	SPT(S) N=19 3,4,4,5,5,5	
			(3.10)		16.00	D 17		
		16.90 88.88		16.50-16.95	U U6	16.50-16.95	U=100/0mm	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)	[Horizontal line pattern]			17.00	D 18			
			(1.10)		18.00	D 19	18.00-18.45	SPT(C) N=50 7,10,14,20,16,0
Borehole complete at 18.00 m bgl.		18.00 87.78						



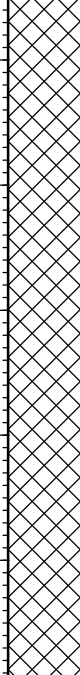
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations					
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)	
	NO CHISELLING UNDERTAKEN							2.50
	Borehole Diameter		Casing Diameter		Depth Sealed			
		150mm to 7.50m						
Coordinates (National Grid) / Level (mAOD): E:490893.272 N:290826.17 Level:105.782	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Aggregate		0.10 105.56 0.30 105.36	(150)	0.30	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		(0.70)		1.00 1.00-1.50	D 2 B B1			
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00 104.66		2.20	D 3	1.50-1.95	SPT(S) N=9 1,2,2,2,3,2	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)				2.50	U U1	2.50-2.95	U=16/225mm	
				3.00	D 4			
				4.20	D 5	3.50-3.95	SPT(S) N=8 2,2,1,2,3,2	
				4.50-4.95	D U2			
				5.00	D 6			
				5.50	D 7			
				6.00		6.00-6.45	SPT(S) N=14 2,2,3,4,3,4	
				7.00 98.66		7.00	D 8	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)				7.50-7.95	U U3	7.50-7.95	U=/135mm	
				8.00	D 9			
				8.50	D 10			
				9.00-9.45		SPT(S) N=17 2,2,4,4,3,6		
				10.00	D 11			
				10.50-11.00 10.50-10.95	B B2 U U4	10.50-10.95	U=15/0mm	

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490941.061 N:290851.362 Level:105.656	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.00)		11.50	D 12	12.00-12.45	SPT(S) N=18 1,2,4,4,5,5	
				13.00	D 13			
				13.50-13.95	U U5	13.50-13.95	U=20/450mm	
				14.00	D 14			
				14.50	D 15			
				15.00-15.45		15.00-15.45	SPT(S) N=25 5,4,5,6,6,8	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		16.00 89.66		16.00	D 16			
				16.50-16.95	U U6	16.50-16.95	U=100/180mm	
				17.00	D 17			
				17.00-17.50	B B3			
				(3.50)		18.00-18.45	SPT(S) N=50/295mm (11,11/12,12,14,12/70)	
Borehole complete at 19.50 m bgl.		19.50 86.16		19.00-19.50	B B4	19.50-19.95	SPT(C) N=50/225mm (12,13/20mm/31,19,0,0mm)	

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490941.061 N:290851.362 Level:105.656	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.20 106.72	(150)	0.20	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 106.52		0.50-1.00	B B1			
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00		D 2				
		1.50-1.95		U U1	1.50-1.95	U=45/450mm		
		2.00		D 3				
		2.50			2.50-2.95	SPT(S) N=11 1,2/3,3,2,3		
		(5.10)		3.00	D 4			
		3.50-3.95		U U2	3.50-3.95	U=30/450mm		
		4.00		D 5				
		4.50-4.95			4.50-4.95	SPT(S) N=11 2,2/3,2,3,3		
		5.00		D 6				
		5.50 101.42						
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)				(6.20)	6.00	D 7	6.00-6.45	
	6.00-6.45		U U3					
	6.50		D 8					
	7.00		D 9					
	7.50-7.95				7.50-7.95	SPT(S) N=18 3,4/4,4,5,5		
	8.00		D 10					
	9.00		D 11		9.00-9.45	U=33/0mm		
	9.00-9.50 9.00-9.45		B B2 U U4					
10.00	D 12							
				10.50-10.95	SPT(S) N=8 2,2/2,1,2,3			
				11.00	D 13			

Remarks

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

Chiselling Details

Depth (m)	Time
NO CHISELLING UNDERTAKEN	

Water Level Observations

Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
NO WATER ENCOUNTERED				

Borehole Diameter


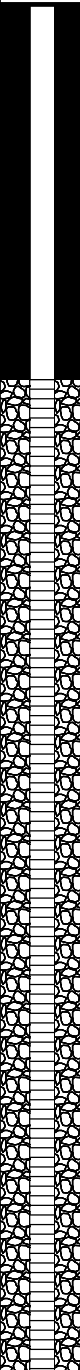


Casing Diameter

Depth Sealed



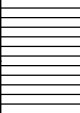
150mm to 2.50m

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)		11.70 95.22						
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(4.30)		12.00	D 14	12.00-12.45	U=55/450mm	
				12.00-12.45	U U5			
				12.50	D 15			
				13.00	D 16			
				14.00	D 17			
				15.00	D 18			
MADE GROUND: Orange brown slightly silty sandy gravel. Gravel is sub angular to rounded fine to coarse sandstone. (FILL)		(3.40)		15.00-15.25	U U6	15.00-15.25	U=100/125mm	
				15.30	D 19			
				16.00	D 20			
				16.00 90.92				
		(3.40)		16.50-16.95		16.50-16.95 16.80-17.25	SPT(C) N=50/155mm SPT(C) N=26 5,7,6,5,6,9	
				18.00	D 21			
				19.00	D 22			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		(0.60)						
Borehole complete at 20.00 m bgl.		20.00 86.92		20.00	D 23	20.00-20.45	SPT(S) N=50/275mm (7,7/8,13,17,12/50mm)	


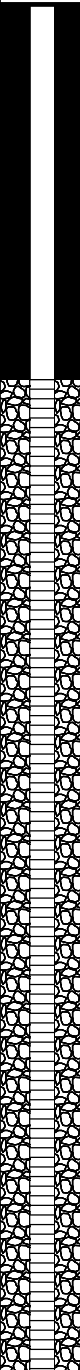
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490920.21 N:290911.094 Level:106.924	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill			
				Depth (m)	Type Ref	Depth (m)	Results				
MADE GROUND: Asphalt.		0.10 105.57	(150)	0.10	D 1						
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 105.27		0.50	D 2						
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00-1.50		D 3 B B1							
		1.50-2.00		B B2	1.50-1.95	SPT(C) N=9 1,1,2,2,2,3					
		2.20		D 4							
		2.50-2.95		U U1	2.50-2.95	U=17/270mm					
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		(3.80)		2.50	3.00	D 5					
		4.20 101.47		4.20	4.50-5.00 4.50-4.95	D 6 B B3 U U2	4.50-4.95		U=27/0mm		
		(4.10)		5.50	D 7						
				6.00-6.45		6.00-6.45	SPT(S) N=18 2,1,2,3,3,4				
				7.00	D 8						
				7.50-7.95	U U3	7.50-7.95	U=40/450mm				
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)	8.30 97.37	8.00	8.30 8.50	D 9 D 10 B B4							
	(3.40)	9.00-9.45		9.00-9.45	SPT(S) N=3 1,0,1,0,1,1						
		10.00	D 11								
		10.50-10.95	U U4	10.50-10.95	U=7/450mm						
		11.00	D 12								

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:490989.514 N:290892.399 Level:105.671	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)		11.70 93.97		11.50	D 13				
MADE GROUND: Dark grey black slightly clayey silt. (FILL)		(2.60)		13.00	D 14	12.00-12.45	SPT(S) N=4 1,1,1,1,1,1		
				13.50-13.95	U U5	13.50-13.95	U=7/450mm		
				14.00	D 15				
MADE GROUND: Soft dark grey and brown slightly sandy slightly gravelly silty clay with occasional cobbles. Gravel is subangular to rounded, fine to medium chalk and sandstone. (FILL)			14.30 91.37		14.50	D 16			
			(3.20)			15.00-15.45	SPT(S) N=28 6,6,6,7,7,8		
						16.50-16.95	SPT(S) N=18 3,4,3,4,5,6		
			17.50 88.17		17.50	D 17			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)			(1.00)		18.00	B B5	18.00-18.45		SPT(C) N=50/235mm (5,8/11,15,20,4/10mm)
				18.50 87.17		18.30	D 18		18.50-18.95

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490989.514 N:290892.399 Level:105.671	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Aggregate		0.10 104.33	(150)	0.30	D 1				
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		0.40 104.03		0.90	D 2				
MADE GROUND: Soft to firm greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(1.80)		1.00-1.50	B B1	1.50-1.95	SPT(S) N=9 1,1/2,2,2,3		
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		2.20 102.23		2.20	D 3	2.50-2.95	U=26/450mm		
		(4.50)		2.50	2.50-2.95	U U1	3.50-3.95		SPT(S) N=18 3,3/4,3,5,6
				3.00		D 4			
				4.20		D 5			
				4.50-5.00 4.50-4.95		B B2 U U2			
5.50				D 6	6.00-6.45	SPT(S) N=11 2,3/2,4,3,2			
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		6.70 97.73		6.70	D 7				
MADE GROUND: Orange slightly clayey sand. Sand is fine to medium. (FILL)		7.10 97.33		7.10	D 8				
	(1.40)	7.50-7.95	U U3	7.50-7.95	U=30/135mm				
		8.00		D 9					
MADE GROUND: Firm to stiff brown and green slightly sandy silty clay. Sand is fine to medium. (FILL)	8.50 95.93	8.50-9.00	B B3	9.00-9.45	SPT(S) N=19 3,3/3,4,5,7				
	(1.00)	10.00		D 10					
		10.50-10.95		U U4	10.50-10.95	U=38/450mm			
		11.00		D 11					

Remarks

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

Chiselling Details

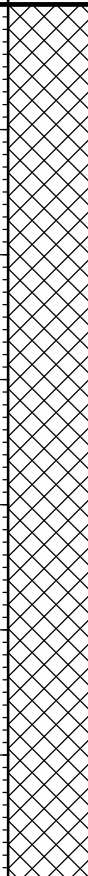


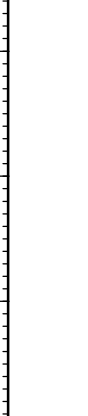
Chiselling Details		Water Level Observations				
Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				

Borehole Diameter

Casing Diameter

Depth Sealed

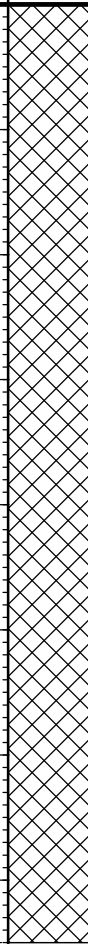
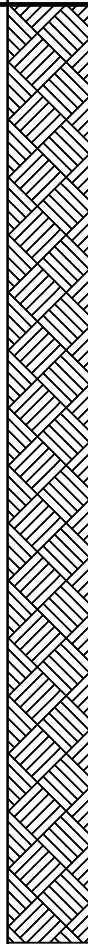

150mm to 2.50m

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.50)		11.50	D 12	12.00-12.45	SPT(S) N=38 4,5/5,9,12,12	
				12.50	B B4			
				13.50-13.95	U U5	13.50-13.95	U=35/270mm	
				14.00	D 13			
				15.00-15.45		15.00-15.45	SPT(S) N=25 3,4/6,6,6,7	
				16.00	D 14			
				16.50-16.95	U U6	16.50-16.95	U=30/360mm	
				17.00	D 15			
				18.00	D 16	18.00-18.45	SPT(S) N=50/220mm 9,6/10,21,19/70mm	
				18.50-18.95		18.50-18.95	SPT(C) N=50/80mm (12,13/15mm/41,9/5mm)	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		(0.50)						
Borehole complete at 18.50 m bgl.		18.50 85.93						

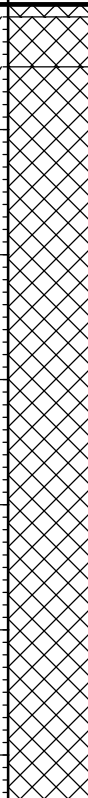
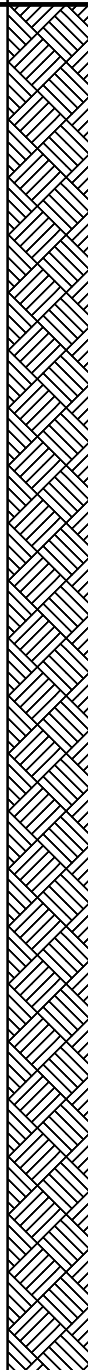
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:491008.194 N:290851.84 Level:104.426	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Grass over firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)	[Cross-hatch pattern]	(6.00)	3.00	0.20	D 1	1.50-1.95	SPT(S) N=11 1,1/3,2,3,3	[Diagonal hatch pattern]
				0.40	D 2			
				0.50-1.00	B B1			
				1.00	D 3			
				2.00	D 4			
				2.50	B B2			
				2.50-2.95	U U1			
				3.00	D 5			
				3.50-3.95				
				4.00	D 6			
				4.50	B B3			
				4.50-4.95	U U2			
				5.00	D 7			
6.00	D 8	6.00-6.45	SPT(S) N=10 2,1/2,2,3,3					
MADE GROUND: Firm to stiff brown and dark grey slightly sandy gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)	[Cross-hatch pattern]	(1.80)	7.80	6.50-7.00	B B4	7.50-7.95	U=45/450mm	[Diagonal hatch pattern]
				7.00	D 9			
				7.50-7.95	U U3			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)	[Cross-hatch pattern]	(0.90)	8.70	8.00	D 10	9.00-9.45	SPT(S) N=10 2,2/3,2,3,2	[Diagonal hatch pattern]
				8.00-8.50	B B5			
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)	[Cross-hatch pattern]	8.70	96.79	9.00	D 11	10.50-10.95	U=15/450mm	[Diagonal hatch pattern]
				10.00	D 12			
				10.50-10.95	U U4			
				11.00	D 13			

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
			150mm to 3.00m				
Coordinates (National Grid) / Level (mAOD): E:491038.008 N:290935.539 Level:105.49	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.80)		12.00	D 14	12.00-12.45	SPT(S) N=14 2,2,3,4,3,4	
				13.00	D 15			
				13.50-13.95	U U5	13.50-13.95	U=25/450mm	
				14.00	D 16			
				15.00	D 17	15.00-15.45	SPT(S) N=14 1,2,3,3,4,4	
				16.00	D 18			
				16.50-16.95	U U6	16.50-16.95	U=20/450mm	
				17.00	D 19			
				18.00	D 20	18.00-18.45	SPT(S) N=24 2,4,4,5,6,9	
				18.50 86.99		18.50-18.95	SPT(S) N=80/80mm (12,13/50mm/40,40/5mm)	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		18.95 86.54						

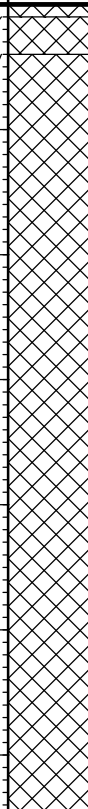
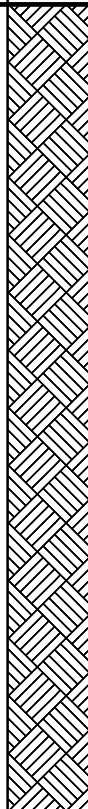
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 3.00m					

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Asphalt.		0.10 104.78	(150)	0.30	D 1					
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.50 104.38		0.50	B B1					
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00		D 2						
		1.50		B B2	1.50-1.95				U=45/0mm	
		1.50-1.95		U U1						
		2.00		D 3						
		2.50		2.50-2.95	SPT(S) N=7 1,1/2,1,2,2					
		3.00							D 4	
		(5.90)		3.50-4.00	B B3				3.50-3.95	U=18/0mm
				3.50-3.95	U U2					
		4.00		D 5						
		4.50-4.95		4.50-4.95	SPT(S) N=15 2,2/3,3,4,5					
5.00		D 6								
6.00		D 7		6.00-6.45	U=45/450mm					
6.00-6.45	U U3									
6.40 98.48	6.50	D 8								
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)	(0.60)	7.00	D 9							
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)	7.00 97.88	7.50-7.95	SPT(S) N=15 3,2/3,4,4,4							
	8.00			D 10						
	9.00			D 11	9.00-9.45	U=85/450mm				
	9.00-9.45			U U4						
	9.50			D 12						
	10.00			D 13						
10.50-10.95	10.50-10.95	SPT(S) N=16 2,3/3,4,4,5								
11.00			D 14							

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490967.894 N:290835.691 Level:104.878	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)(BH Continued)	[Cross-hatch pattern]	(8.80)		12.00	D 15	12.00-12.45	U=80/450mm	[Diagonal pattern]	
				12.00-12.45	U U5				
				12.50	D 16				
				13.00	D 17				
				13.50-13.95					SPT(S) N=12 2,3/2,3,4,3
				14.00	D 18				
				15.00	D 19				
				15.00-15.45	U U6				U=100/450mm
				15.50	D 20				
				15.80 89.08					
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)	[Cross-hatch pattern]	(2.50)		16.00	D 21	16.50-16.95	SPT(S) N=24 4,4/5,5,5,9	[Diagonal pattern]	
				17.00	D 22				
				18.00	D 23				
				18.00-18.45	U U7				U=100/450mm
18.30 86.58									
Strong light grey coarse grained SANDSTONE. (NORTHAMPTON SAND FORMATION)	[Dotted pattern]	18.50 86.38		18.50	D 24	18.50-18.95	SPT(C) N=50/235mm (5,6/11,16,18,5/10mm)	[Diagonal pattern]	



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:490967.894 N:290835.691 Level:104.878	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.10 106.30		0.30	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 106.00		1.00	D 2			
MADE GROUND: Soft to firm brown and dark grey slightly sandy gravelly silty clay with occasional cobbles. Gravel is subangular to rounded, fine to medium chalk and sandstone. (FILL)		(6.10)		1.50-2.00	B B1	1.50-1.95	SPT(S) N=7 1,1,1,2,2,2	
				2.00	D 3			
				2.40	D 4			
				2.50-3.00	B B2	2.50-2.95	SPT(S) N=15 5,7,7,4,3,1	
				3.00	D 5			
				3.50-4.00	B B3	3.50-3.95	U=35/0mm	
				3.50-3.95	U U1			
				4.00	D 6			
					4.50-4.95		SPT(S) N=19 1,2,2,4,6,7	
					5.00	D 7		
				6.00-6.50	B B4	6.00-6.45	U=7/0mm	
		6.00-6.45	U U2					
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)	(6.00)	7.00	D 8					
				7.50-7.95	SPT(S) N=7 2,2,1,2,2,2			
			8.00	D 9				
			9.00	D 10				
			9.00-9.45	U U3	9.00-9.45	U=50/450mm		
			9.50	D 11				
			10.00	D 12				
				10.50-10.95	SPT(S) N=9 2,2,2,1,2,4			
				11.00	D 13			



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490975.974 N:290921.914 Level:106.395	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)	[Cross-hatch pattern]	12.50 93.90		12.00 12.00-12.45	D 14 U U4	12.00-12.45	U=40/450mm	[Diagonal hatch pattern]
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		(2.50)		12.50	D 15			
MADE GROUND: Firm grey brown slightly sandy silty clay. Sand is fine to medium. (FILL)	[Cross-hatch pattern]	15.00 91.40		13.00	D 16			[Diagonal hatch pattern]
		(3.50)		13.50-13.95		SPT(S) N=15 4,3/3,4,3,5		
MADE GROUND: Firm grey brown slightly sandy silty clay. Sand is fine to medium. (FILL)	[Cross-hatch pattern]	18.50 87.90		14.00	D 17			[Diagonal hatch pattern]
		(3.50)		15.00-15.45	D 18 B B5 U U5	15.00-15.45	U=20/0mm	
MADE GROUND: Firm grey brown slightly sandy gravelly silty clay. Gravel is fine to coarse, subangular to rounded sandstone. Sand is fine to medium. (FILL)	[Cross-hatch pattern]	20.45 85.95		15.00-15.50 15.00-15.45				[Diagonal hatch pattern]
		(1.95)		16.00	D 19			
Borehole complete at 20.45 m bgl.	[Cross-hatch pattern]			16.50-16.95			SPT(C) N=19 4,4/4,5,5,5	[Diagonal hatch pattern]
				17.00	D 20			
Borehole complete at 20.45 m bgl.	[Cross-hatch pattern]			18.00 18.00-18.50 18.00-18.45	D 21 B B6 U U6	18.00-18.45	U=100/0mm	[Diagonal hatch pattern]
				19.00	D 22			
Borehole complete at 20.45 m bgl.	[Cross-hatch pattern]			19.50-19.95			SPT(C) N=11 18,4/3,2,2,4	[Diagonal hatch pattern]
				20.00	D 23	20.00-20.45	SPT(C) N=31 5,7/7,8,7,9	



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490975.974 N:290921.914 Level:106.395	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 104.18		0.10-0.25	ES 1	0.10	PID=<0.1ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Gravel if angular to subangular fine to coarse sandstone and rare flint gravels.		0.25 103.98		0.50-0.80	ES 2	0.50	PID=<0.1ppm	
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium sandstone and chalk with rare flint gravels. (FILL) 0.50 - 0.90 Rootlets and occasional fibrous to pseudo-fibrous peat.		(2.75)						
Borehole complete at 3.00 m bgl.		3.00 101.23						





Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 103.54		0.30-0.50	ES 1	0.30	PID=0.1ppm	
MADE GROUND: Dark green slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium flint, granite and sandstone. (FILL) 0.50 - 2.00 Occasional black pseudo-fibrous peat deposits.		(2.95)						
Borehole complete at 3.00 m bgl.		3.00 100.59						



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:491088.18 N:290861.848 Level:103.593	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite hardstanding and topsoil.		0.05 104.39		0.20-0.30	ES 1	0.20	PID=0.7ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular to subangular fine to coarse with occasional concrete gravels.		(0.25)						
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is subangular to rounded flint and occasional chalk with organic odour. (FILL)					0.60-0.90	ES 2	0.60	PID=0.3ppm
1.00 - 1.80 Occasional layers of peat and rootlets.		(2.70)						
Borehole completed at 3.00 m bgl.		3.00 101.44						





Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 104.91		0.20-0.30	ES 1	0.20	PID=1.2ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Gravel is angular to subangular fine to coarse sandstone.		(0.37)						
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium chalk, flint and sandstone with organic odour. (FILL)		0.42 104.54		1.00-1.40	ES 1	1.00	PID=2.1ppm	
1.00 - 3.00 Occasional layers of black fibrous peat.		(2.58)						
Borehole complete at 3.00 m bgl.		3.00 101.96						



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 104.47		0.20-0.30	ES 1	0.20	PID=0.7ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is angular to subangular fine to medium sandstone with rare red sandstone gravels.		0.30 104.19						
MADE GROUND:Dark grey mottled brown slightly silty slightly sandy slightly gravelly clay. Gravels are subangular to rounded fine to coarse flint and sandstone. (FILL) 0.60 - 0.90 Occasional rootlets and pseudo-fibrous peat.		(2.70)						
Borehole complete at 3.00 m bgl.		3.00 101.49						





Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:491053.337 N:290882.616 Level:104.489	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.13		0.20-0.30	ES 1	0.20	PID=0.3ppm	
MADE GROUND:Light greyish brown slightly gravelly sand.		0.30 104.91						
MADE GROUND:Possible concrete cobble obstruction. (Limited Recovery).		0.34 104.87						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is subangular to rounded chalk and sandstone chert aggregate. (FILL)				1.50-1.80	ES 2	1.50	PID=<0.1ppm	
1.30 - 1.90 Rare pseudo-fibrous peat								
Borehole complete at 3.00 m bgl.		3.00 102.21						


Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.70		0.20-0.30	ES 1	0.20	PID=0.1ppm	
MADE GROUND:Light brownish red slightly sandy gravel;. Gravel is angular to subangular fine to medium sandstone.		0.20 105.58						
MADE GROUND:Light brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone with rare flint.		0.40 105.38						
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium chalk and sandstone with organic odour. (FILL) 0.40 - 0.70 Pseudo-fibrous peat.		(2.60)		1.30-0.70	ES 2	1.30	PID=<0.1ppm	
Borehole complete at 3.00 m bgl.		3.00 102.78						



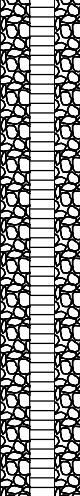
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:491005.239 N:290919.471 Level:105.78	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.47		0.08-0.11	ES 1	0.08	PID=0.3ppm	
MADE GROUND:Light greyish red slightly sandy gravel. Gravel is angular to subangular fine to medium flint and sandstone.		0.11 105.44		0.90-1.00	ES 2	0.90	PID=631 ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is angular to rounded fine to medium flint and sandstone.		0.25 105.30						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium chalk, flint and sandstone. (FILL) 0.90 - 1.00 Black staining and strong HC odour.		(2.75)	2.30-2.70	ES 3	2.30	PID=0.4ppm		
Borehole complete at 3.00 m bgl.		3.00 102.55						


Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details	
				Depth (m)	Type Ref	Depth (m)	Results
MADE GROUND:Tarmac hardstanding.		0.08 104.30				0.08	PID=<0.1ppm
MADE GROUND:Light greyish red very sandy gravel. Gravel is angular to subangular fine to medium sandstone. Sand is medium to coarse.		0.10 104.28				0.10	PID=<0.1ppm
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular fine sandstone.		0.25 104.13				0.70	PID=<0.1ppm
MADE GROUND:Grey slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium chalk, flint and sandstone. (FILL)		(2.75)					
Borehole complete at 3.00 m bgl.		3.00 101.38					



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.24		0.10-0.20	ES 1	0.08	PID=<0.1ppm PID=0.3ppm	
MADE GROUND:Light brownish red slightly sandy gravel. Gravel is angular fine to medium sandstone. Sand is medium to coarse.		0.10 105.22						
MADE GROUND:Light greyish brown slightly gravelly sand.		0.20 105.12						
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium sandstone and occasional chalk. (FILL)		(2.80)						
		3.00 102.32		2.20-2.50	ES 2	2.20	PID=0.2ppm	
Borehole complete at 3.00 m bgl.								

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.28						
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is subangular to subrounded fine sandstone.		0.20 105.16						
MADE GROUND:Dark grey slightly sandy slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone. (FILL) 0.40 - 0.70 Occasional rootlets.		(1.60)			1.60-1.80	ES 1	1.60	PID=0.1ppm
MADE GROUND:Light greyish brown silty clayey gravel. Gravel is medium subrounded sandstone. (FILL)		(0.30)	1.80 103.56		1.80-2.10	ES 2	1.80	PID=<0.1ppm
MADE GROUND:Dark grey slightly gravelly silty clay. (FILL)		(0.90)	2.10 103.26					
		3.00 102.36						
Borehole complete at 3.00 m bgl.								





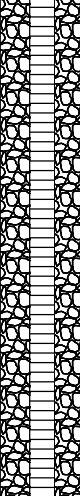
Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:491003.521 N:290886.164 Level:105.362	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 104.65		0.08-0.10	ES 1	0.08	PID=<0.1ppm	
MADE GROUND:Light greyish red slightly sandy gravel. Gravel is angular to subangular fine to medium sandstone and granite.		0.10 104.63						
MADE GROUND:Light greyish brown slightly gravelly gravel. Sand is fine to coarse. Gravel subangular to rounded sandstone.		0.30 104.43		1.30-1.50	ES 2	1.30	PID=<0.1ppm	
MADE GROUND:Dark grey slightly silty slightly gravelly CLAY. Gravel is rounded to subrounded fine to medium sandstone, chalk and rare flint. (FILL)		(2.70)						
Borehole complete 3.00 m bgl.		3.00 101.73						



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490999.608 N:290857.155 Level:104.725	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.	[Cross-hatch pattern]	0.08 106.24						[Cross-hatch pattern]
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is subangular fine to medium sandstone.	[Cross-hatch pattern]	(0.42) 0.50 105.82		0.40-0.50	ES 1	0.40	PID=<0.1ppm	[Cross-hatch pattern]
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone. (FILL)	[Cross-hatch pattern]	(2.50) 3.00 103.32						[Cross-hatch pattern]
Borehole complete at 3.00 m bgl.								



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations					
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)	
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED					
	Borehole Diameter		Casing Diameter		Depth Sealed			
Coordinates (National Grid) / Level (mAOD): E:490975.013 N:290914.048 Level:106.324		Drilled By: AK		Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.47						
MADE GROUND:Brownish red slightly sandy GRAVEL. Gravel is angular to subangular fine to medium granite and sandstone.		0.12 106.43						
MADE GROUND:Light greyish brown slightly gravelly SAND. Sand is fine to coarse. Gravel is angular to subangular fine to medium sandstone.		0.30 106.25		0.20-0.30	ES 1	0.20	PID=0.4ppm	
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly CLAY. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare flint.		(2.70)		1.80-2.00	ES 2	1.80	PID=0.4ppm	
Borehole complete at 3.00 m bgl.		3.00 103.55						



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490947.756 N:290902.426 Level:106.55	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.68		0.15-0.20	ES 1	0.15	PID=<0.1ppm	
MADE GROUND:Brownish red slightly sandy gravel. Gravel is angular to subangular fine to medium sandstone and occasional granite.		0.10 105.66						
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone.		0.25 105.51		0.70-1.00	ES 2	0.70	PID=0.1ppm	
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium sandstone chalk and flint. (FILL) 0.25 - 0.35 Occasional rootlets.		(2.75)						
Borehole complete 3.00 m bgl.		3.00 102.76						



Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490948.631 N:290862.675 Level:105.758	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel and topsoil.		0.05 105.02		0.05-0.10	ES 1	0.05	PID=0.6ppm	
MADE GROUND: Brownish red slightly sandy gravel. Gravel is angular fine to medium sandstone. Sand is fine to coarse.		0.10 104.97		1.50-1.80	ES 2	1.50	PID=0.1ppm	
MADE GROUND: Dark grey mottled yellow brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk, sandstone with occasional concrete and flint. (FILL)		(2.90)						
Borehole complete at 3.00 m bgl.		3.00 102.07						






















Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490937.929 N:290819.633 Level:105.066	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.47						
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular fine to medium sandstone and rare granite.		0.30 105.25		0.20-0.30	ES 1	0.20	PID=0.2ppm	
MADE GROUND:Dark grey mottled brownly orange slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium sandstone and chalk with rare granite and flint gravel. (FILL) 0.40 - 0.60 Pseudo-fibrous peat.		(2.70)		0.50-0.70	ES 2	0.50	PID=0.2ppm	
		3.00 102.55		2.80-3.00	ES 3	2.80	PID=<0.1ppm	
Borehole complete at 3.00 m bgl.								

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		
Coordinates (National Grid) / Level (mAOD): E:490917.006 N:290822.927 Level:105.545	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.32		0.10-0.30	ES 1	0.10	PID=0.3ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular to subangular fine to medium sandstone.		0.30 106.10						
MADE GROUND:Dark grey mottled yellowy brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare angular flint and granite. (FILL)		(2.70)		1.30-1.50	ES 2	1.30	PID=0.3ppm	
Borehole complete at 3.00 m bgl.		3.00 103.40						

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.82						
MADE GROUND:Light brownish red sandy gravel. Gravel is angular to subangular fine medium sandstone and occasional granite. Sand is fine to coarse.		0.12 106.78 (0.23) 0.35 106.55		0.20-0.30	ES 1	0.20	PID=<0.1ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone.								
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare flint. (FILL)				0.80-1.00	ES 2	0.80	PID=<0.1ppm	
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								

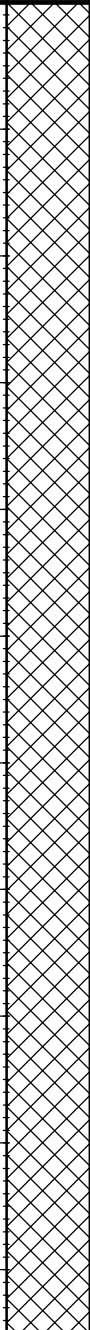
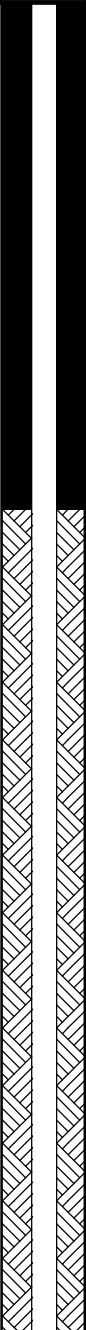
Borehole complete at 3.00 m bgl.

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 107.20		0.10-0.20	ES 1	0.20	PID=0.1ppm	
MADE GROUND:Brownish red sandy gravel. Gravel is angular fine to medium granite and sandstone. Sand is medium to coarse.		0.10 107.18		0.70-1.00	ES 2			
MADE GROUND:Light greyish brown slightly gravelly sand.		0.30 106.98						
MADE GROUND:Possible concrete cobble obstruction. (Limited Recovery).		0.35 106.93						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and occasional sandstone and flint. (FILL) 0.40 - 0.60 Roofless encountered.		(2.65)		1.20	PID=0.2ppm			
2.20 - 2.60 Pseudo-fibrous black peat.		3.00 104.28						
Borehole complete at 3.00 m bgl.								

Remarks 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		




Rotary Core Borehole Log Date From / To: **02/09/2015 - 03/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft brown clay with sandstone cobbles - driller's description. (FILL)												
		(19.00)										

Remarks:
 1. Engineer verified logged in general accordance to BS 5930:2015.
 2. Area CAT scanned prior to excavation.
 3. Groundwater encountered to 15.96 bgl.
 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
 5. Openhole drilled from surface to 20.50 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter			Casing Diameter		Depth Sealed		

Rotary Core Borehole Log Date From / To: **02/09/2015 - 03/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft brown clay with sandstone cobbles - driller's description. (FILL)(BH Continued)												
MADE GROUND: Brown sandstone gravel. Gravel is angular to rounded fine to medium - driller's description. (FILL)		19.00 86.83 (1.40)								19.20-19.65	SPT(C) N=17 5,3,4,4,5,4	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMPTON SAND FORMATION)		20.40 85.43 20.50 85.33					20.50-21.90	C 1				

- Remarks:**
1. Engineer verified logged in general accordance to BS 5930:2015.
 2. Area CAT scanned prior to excavation.
 3. Groundwater encountered to 15.96 bgl.
 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
 5. Openhole drilled from surface to 20.50 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter			Casing Diameter		Depth Sealed		


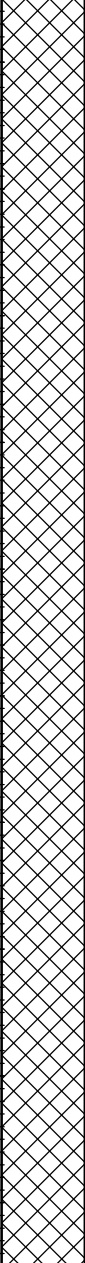
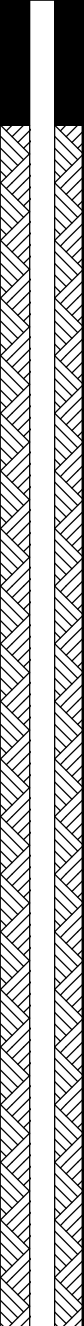
Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)(BH Continued)								21.90-23.30	C 2			
								23.30-23.80	OH1			
								23.80-24.50	OH2	23.80-24.25	SPT(C) N=50/245mm (5,10/12,15,17,6/20mm)	
								24.50-25.60	C 3			
								25.60-27.10	C 4			
								27.10-28.50	OH3			
								27.90-28.35			SPT(C) N=50/225mm (8,8/15,19,16,0/0mm)	
								28.50-30.00	C 5			
		(9.50)										
		30.00	75.83									
Borehole complete at 30.00 m bgl.												

Remarks:

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 15.96 bgl.
4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
5. Openhole drilled from surface to 20.50 m bgl.






Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter		Casing Diameter		Depth Sealed			

Rotary Core Borehole Log

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Hardcore - drillers description. (FILL)		(0.50) 0.50 105.00										
MADE GROUND: Soft brown gravelly clay. Gravel is fine to coarse chalk - driller's description. (FILL)		(10.50)										

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 20.33 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.30 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		

Rotary Core Borehole Log

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Black soft gravelly clay. Gravel is sandstone with cobbles - driller's description. (FILL)		11.00 94.50										
		(7.00)										
MADE GROUND: Soft brown gravelly clay. Gravel is sandstone - driller's description. (FILL)		18.00 87.50										
		(2.30)										
		20.30 85.20					20.30-21.80	C 1	20.30-20.75	SPT(C) N=50/235mm (8,10/12,16,17,5/10m)		

Remarks:


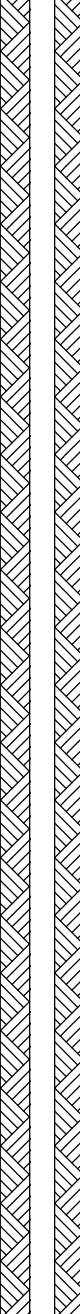
1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 20.33 bgl.
4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
5. Openhole drilled from surface to 20.30 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter		Casing Diameter		Depth Sealed			

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)(BH Continued)								21.80-28.30				
			(9.70)					28.30-29.80	C 2			
Borehole complete at 30.00 m bgl.		30.00 75.50										


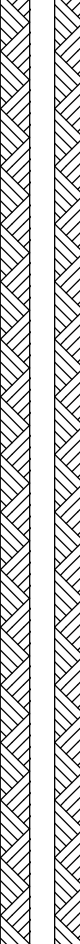

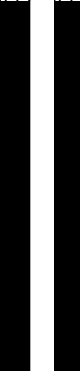


Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 20.33 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.30 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		

Rotary Core Borehole Log Date From / To: **01/09/2015 - 02/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Granite hard-core with fine to coarse gravels - driller's description. (FILL)		(0.50) 0.50 104.07										
MADE GROUND: Soft brown slightly gravelly clay. Gravel is rounded fine to medium chalk - driller's description. (FILL)		(6.00)										
MADE GROUND: Medium to coarse gravelly band. Possible sandstone gravel - driller's description. (FILL)		6.50 98.07										
MADE GROUND: Soft black/brown clay - driller's description. (FILL)		(0.50) 7.00 97.57										

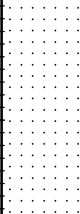



Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter			Depth Sealed	

Rotary Core Borehole Log Date From / To: **01/09/2015 - 02/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft black/brown clay - driller's description. (FILL)(BH Continued)		(13.50)										
		20.50 84.07					19.00-20.40	C 1				
							20.40		20.40-22.00	C 2	20.40-21.40	
				96	58	88	(1.00)					

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter			Depth Sealed	

Rotary Core Borehole Log Date From / To: **01/09/2015 - 02/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMPTON SAND FORMATION)(BH Continued)		(2.25)		96	58	88	21.40			21.40-22.40		
				98	92	92	(1.00)	22.00-23.30	C 3	22.40-23.30		
							22.40					
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)		(7.05)		92	92	50	(0.90)	23.30-24.90	C 4			
								24.90-26.40	C 5			
								26.40-27.20	C 6			
								27.20-28.30	C 7			
								28.30-29.80	C 8			
Borehole complete at 29.80 m bgl.		22.75 81.82										
		29.80 74.77										


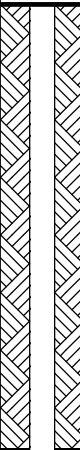
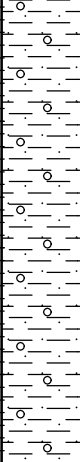
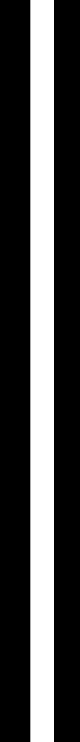

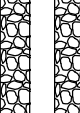

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter			Depth Sealed	

Rotary Core Borehole Log Date From / To: **03/09/2015 - 04/09/2015** Client: **Delta-Simons**

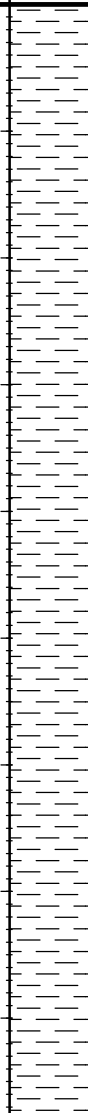

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
Hardcore.		(0.50) 0.50 105.76										
MADE GROUND: Soft brown gravelly clay. Gravel is fine to coarse sandstone and chalk - driller's description. (FILL)		(9.50)										
MADE GROUND: Black very soft gravelly sandy clay - droiller's descriptin. (FILL)		10.00 96.26										

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 16.40 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.50 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		

Rotary Core Borehole Log Date From / To: **03/09/2015 - 04/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Black very soft gravelly sandy clay - droiller's descriptin. (FILL)(BH Continued)		(6.00)										
MADE GROUND: Orange sandy gravelly clay. Gravel is fine to coarse sandstone - drillers description. (FILL)		16.00 90.26 (3.70)								17.70-18.15	SPT(C) N=15 4,4/3,4,4,4	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMTON SAND FORMATION)		19.70 86.56 (0.70)						19.50-20.50	C 1			
		20.40 85.86 (0.70)						20.50-22.10	C 2			

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 16.40 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.50 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION(BH Continued))		(9.40)						22.10-23.70	C 3		SPT(C) N=50 4.9,11,18,21,0	
								23.70-25.50	C 4			
								26.00-26.70	OH1			
								26.70-28.20	C 5			
								28.20-29.80	C 6			
								29.80 76.46				
Borehole complete at 29.80 m bgl.												

Remarks: 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 16.40 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.50 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter			Depth Sealed	



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SPT Hammer Ref: SEDS1
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS1.spt
Test Operator: NPB

Instrumented Rod Data

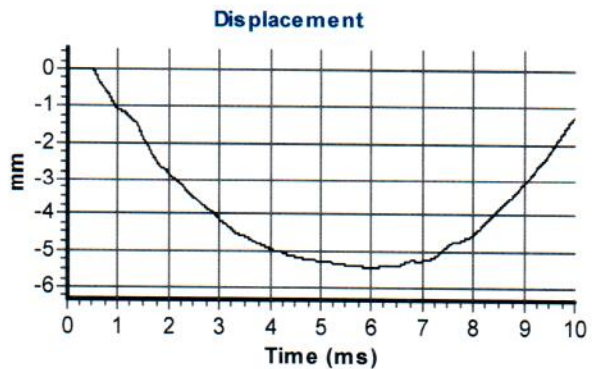
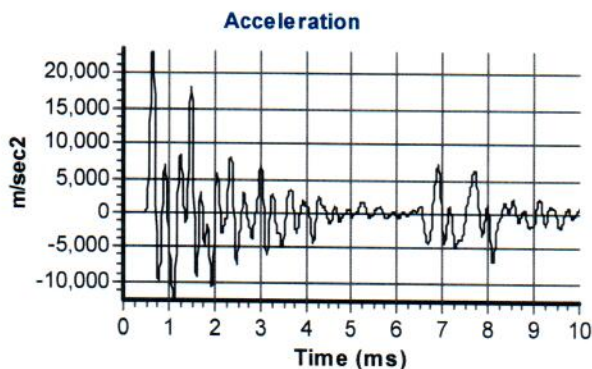
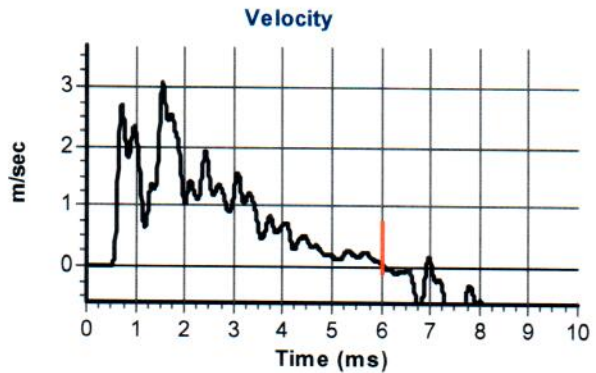
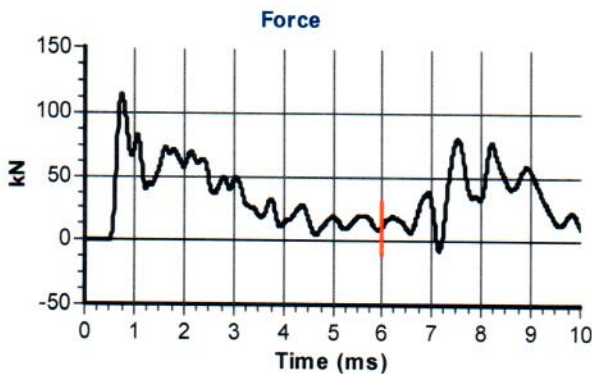
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 341

Energy Ratio E_r (%): 72



Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

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SPT Hammer Ref: SEDS02
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS02.spt
Test Operator: NPB

Instrumented Rod Data

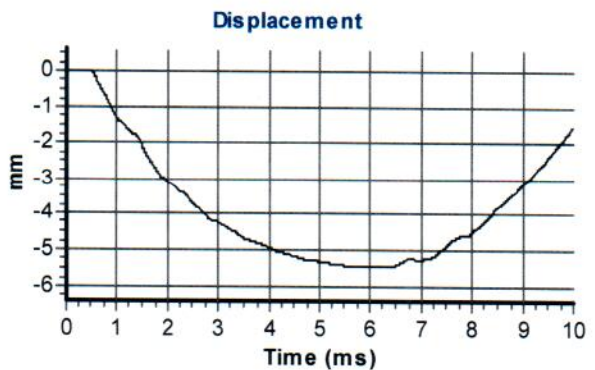
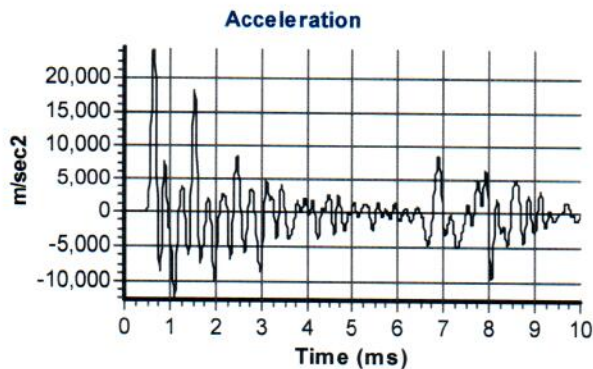
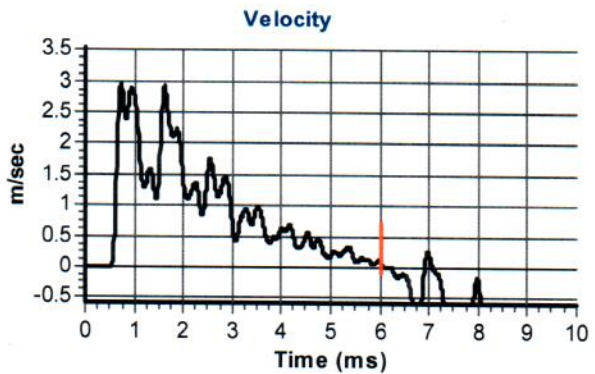
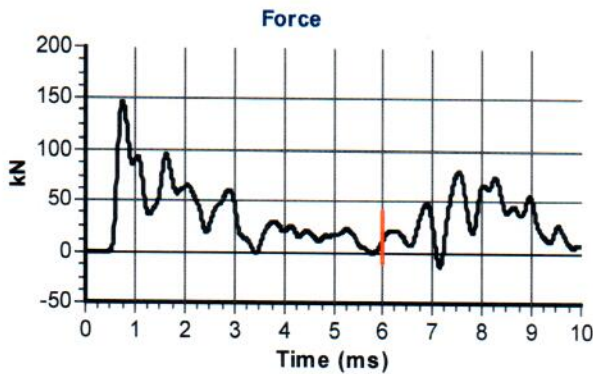
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 344

Energy Ratio E_r (%): 73



Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

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SPT Hammer Ref: SEDS3
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS3.spt
Test Operator: NPB

Instrumented Rod Data

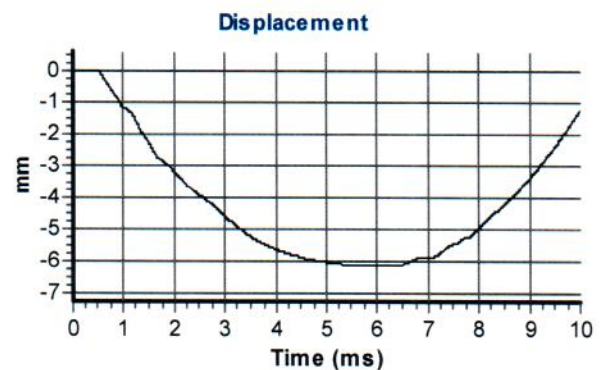
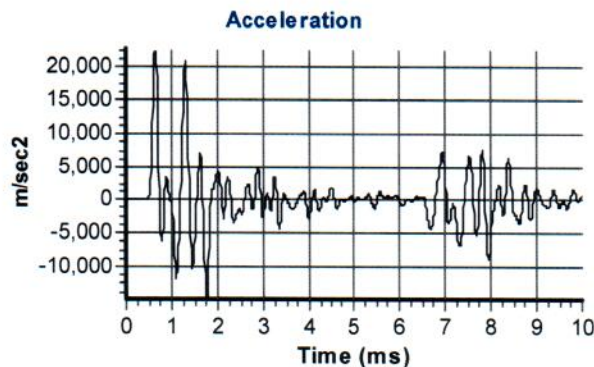
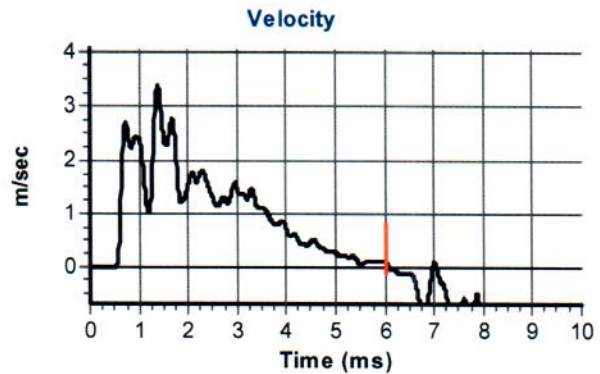
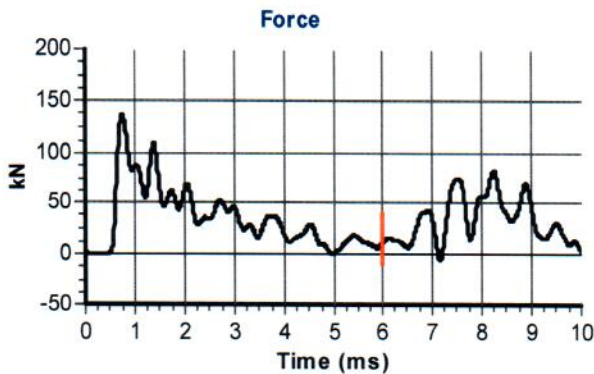
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm^2): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 361

Energy Ratio E_r (%): 76



Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

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SPT Hammer Ref: SEDS4
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS4.spt
Test Operator: NPB

Instrumented Rod Data

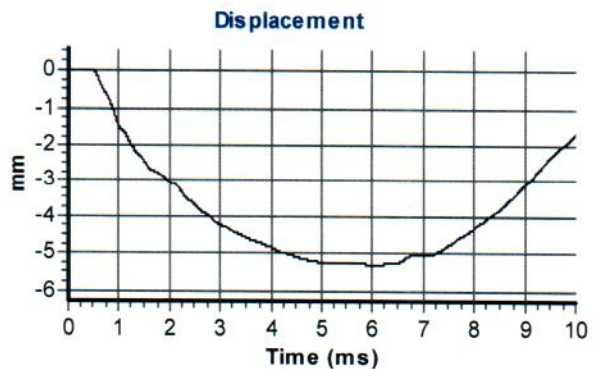
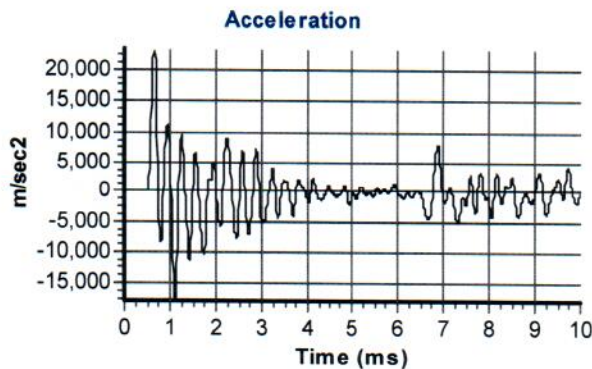
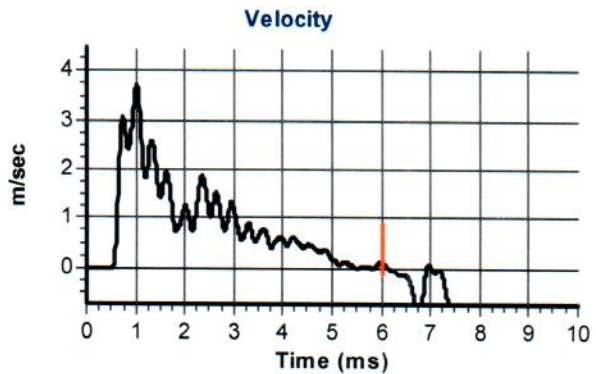
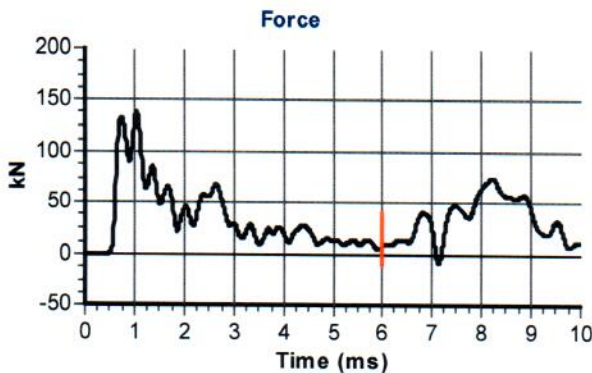
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location


CHARLWOODS



Calculations

Area of Rod A (mm^2): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 367

Energy Ratio E_r (%): 78


Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

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SPT Hammer Ref: SEDS5
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS5.spt
Test Operator: NPB

Instrumented Rod Data

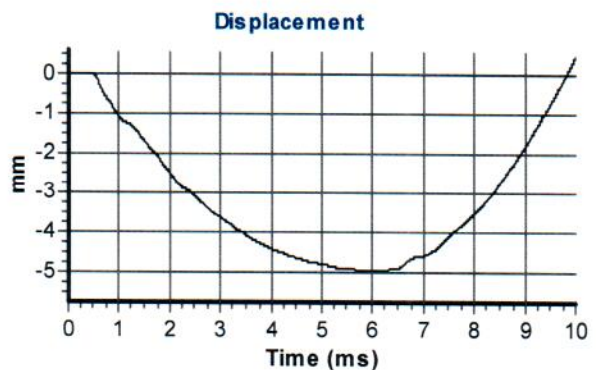
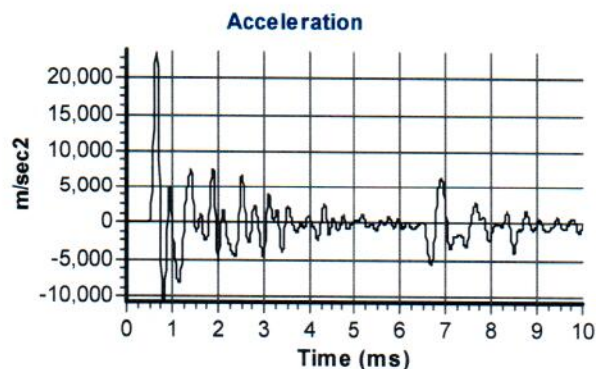
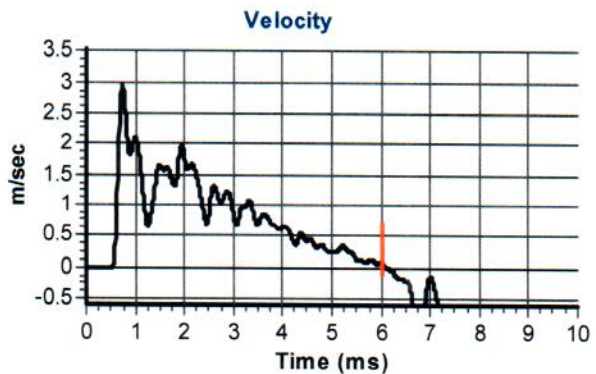
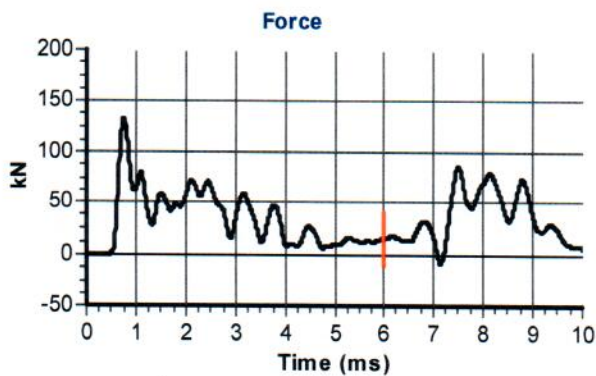
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 284

Energy Ratio E_r (%): 60



Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

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SPT Hammer Ref: SEDS6
Test Date: 10/05/2015
Report Date: 10/05/2015
File Name: SEDS6.spt
Test Operator: NPB

Instrumented Rod Data

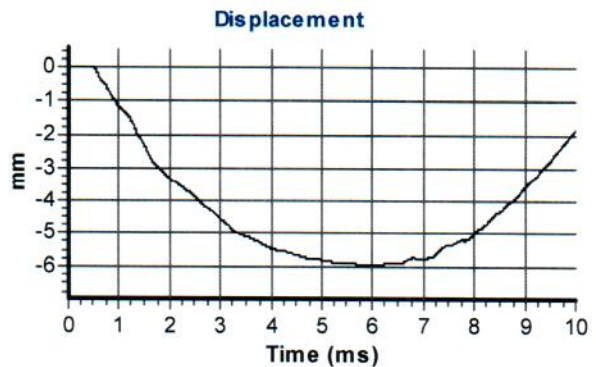
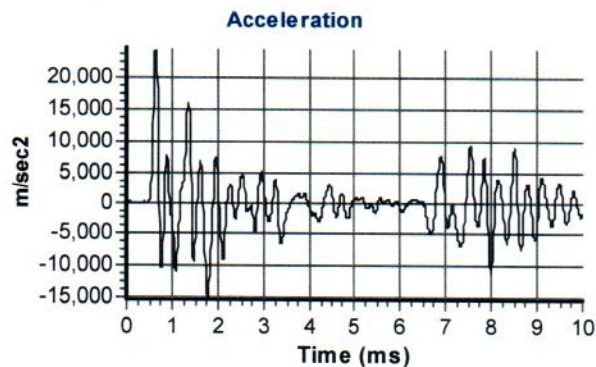
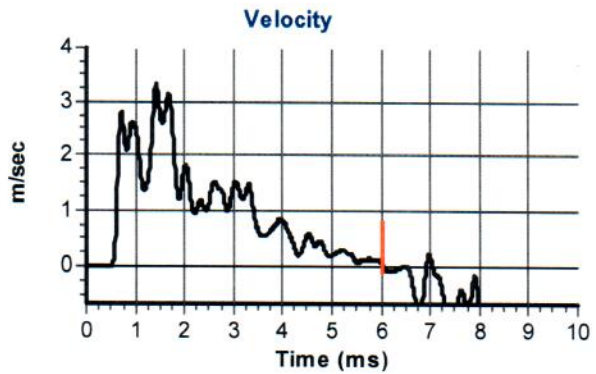
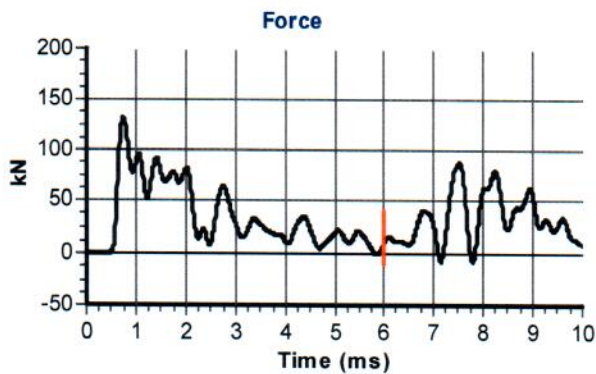
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 9607
Accelerometer No.2: 6458

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 354

Energy Ratio E_r (%): 75



Signed: N P Burrows
Title: Field Operations Manager

The recommended calibration interval is 12 months

SPT Calibration Report



www.equipegroup.com

Hammer Energy Measurement Report

Type of Hammer: SPT HAMMER
 Client: DELTA SIMONS
 Test No: EQU1240
 Test Depth (m): 6.70
 Date of Test: 02 April 2015
 Valid until: 01 April 2016
 Hammer ID: DS001

Mass of the hammer $m = 63.5\text{kg}$
 Falling height $h = 0.76\text{m}$
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

Characteristics of the instrumented rod

Diameter $d_r = 0.052\text{ m}$
 Length of the instrumented rod 0.558 m
 Area $A = 11.61\text{ cm}^2$
 Modulus $E_a = 206843\text{ MPa}$

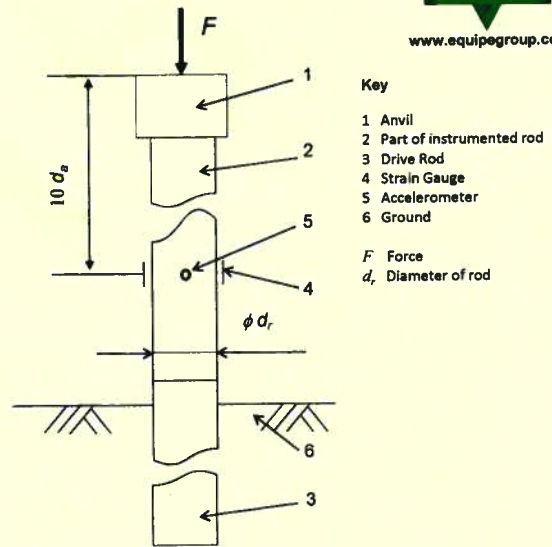
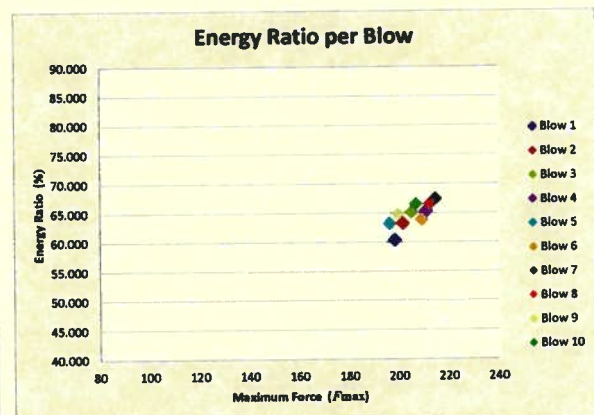
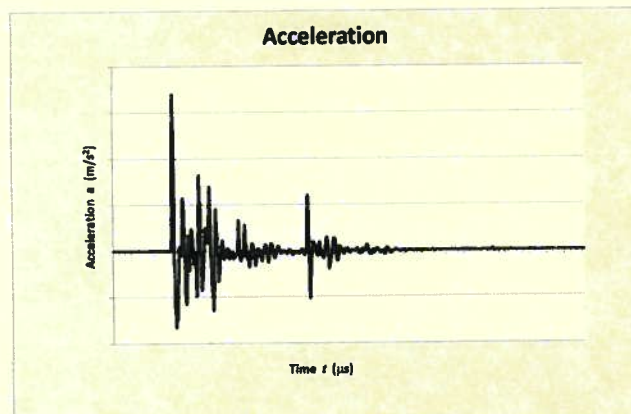
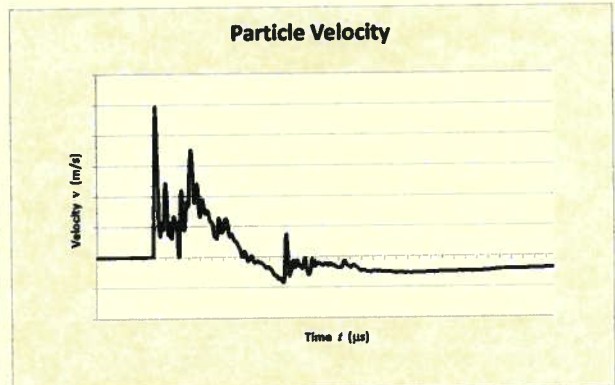


Fig. B.1 and B.2 BS EN ISO 22476-3 : 2005 + A1 : 2011



Observations:
1.

$E_{\text{meas}} = 0.304\text{ kN-m}$
 $E_{\text{theor}} = 0.473\text{ kN-m}$

Energy Ratio = $\frac{E_{\text{meas}}}{E_{\text{theor}}} = 64.36\%$

Equipe SPT Analyzer Operators: KS

Prepared by: *[Signature]* Checked by: *[Signature]* Date: 08/04/2015





GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby	Weather Conditions: 07/09 - Sunny, 14 degrees, wind at 5 m/s. 08/09 Overcast, occasional light rain, 13 degrees, wind at 3 m/s.	Date:
Project Number: 15-0645.02	Gas Kit Model: GA2000	07/09/2015 - 08/09/2015
Personnel: Stacey Ragsdale	Gas Kit Serial No:	

LOCATION	Flow Peak	Flow Steady	CH ₄ Peak	CH ₄ Steady	CO ₂ Peak	CO ₂ Steady	O ₂ Min.	O ₂ Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	20.2	20.2	1020	1.5				0.410	2.910	2.500	Very silty water
DS105	<0.1	<0.1	<0.1	<0.1	0.4	0.4	19.2	19.2	1021	4.2				0.290	3.000	2.710	Very silty water
DS107	<0.1	<0.1	0.5	0.5	1.6	1.6	17.2	17.2	1021	12.5				0.710	3.000	2.290	
DS107a	0.2	<0.1	<0.1	<0.1	0.6	0.6	18.1	18.1	1020	5.5				0.780	3.080	2.300	
DS101	<0.1	<0.1	<0.1	<0.1	0.3	0.3	18.8	18.8	1021	5.1				1.040	3.070	2.030	
DS109	0.1	<0.1	<0.1	<0.1	0.8	0.8	14.2	14.2	1021	9.3				2.200	3.020	0.820	Very silty water
DS113	<0.1	<0.1	<0.1	<0.1	0.7	0.7	14.3	14.3	1021	0.4				0.320	3.040	2.720	
DS114	<0.1	<0.1	<0.1	<0.1	0.6	0.6	15.7	15.7	1022	3.1				0.680	3.030	2.350	
DS116	0.2	<0.1	<0.1	<0.1	0.5	0.5	17.1	17.1	1022	0.5				0.710	3.020	2.310	
DS117	<0.1	<0.1	<0.1	<0.1	1.0	1.0	8.1	8.1	1022	13.4				1.820	2.930	1.110	
DS118	<0.1	<0.1	<0.1	<0.1	1.0	1.0	18.3	18.3	1021	4.8				0.960	3.020	2.060	
R3	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.9	19.9	1020	2.6				18.620	29.970	11.350	Very silty water
R1	0.2	<0.1	<0.1	<0.1	2.7	2.7	11.4	11.4	1020	1.5				15.960	30.030	14.070	Very silty water
BH106	<0.1	<0.1	<0.1	<0.1	0.1	0.1	3.7	3.7	1020	5.3				Dry	17.980	N/A	
BH107	<0.1	<0.1	0.9	0.9	1.6	1.6	5.8	5.8	1020	1.1				Dry	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.6	19.6	1019	2.3				18.610	19.100	0.490	Very silty water
R4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1020	1.8				16.710	29.960	13.250	Very silty water
R2	0.2	0.2	<0.1	<0.1	4.9	4.9	4.0	4.0	1019	3.2				20.330	30.310	9.980	Very silty water
BH102	<0.1	<0.1	5.1	5.1	0.1	0.1	3.3	3.3	1019	2.7				14.620	15.320	0.700	Very silty water
BH101	<0.1	<0.1	<0.1	<0.1	0.1	0.1	18.1	18.1	1018	1.9				14.500	16.240	1.740	Very silty water

GUIDE TO PURGING VOLUMES

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where r = radius of the well and h = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23



GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby	Weather Conditions: 16/09 - Sunny, 14 degrees, wind at 8 m/s.	Date:
Project Number: 15-0645.02	Gas Kit Model: GA2000	16/09/2015
Personnel: Stacey Ragsdale	Gas Kit Serial No:	

LOCATION	Flow Peak	Flow Steady	CH ₄ Peak	CH ₄ Steady	CO ₂ Peak	CO ₂ Steady	O ₂ Min.	O ₂ Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.4	20.4	1018					0.420	2.910	2.490	Very silty water
DS105	<0.1	<0.1	<0.1	<0.1	0.2	0.2	19.6	19.6	1018					0.310	3.000	2.690	Very silty water
DS107	<0.1	<0.1	0.4	0.4	1.2	1.2	18.3	18.3	1018					0.570	3.000	2.430	
DS107a	<0.1	<0.1	<0.1	<0.1	0.4	0.4	18.6	18.6	1018					0.800	3.080	2.280	
DS101	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.2	19.2	1018					1.140	3.070	1.930	
DS109	<0.1	<0.1	<0.1	<0.1	0.7	0.7	15.1	15.1	1019					2.250	3.020	0.770	Very silty water
DS113	<0.1	<0.1	<0.1	<0.1	0.5	0.5	15.2	15.2	1019					0.360	3.040	2.680	
DS114	<0.1	<0.1	<0.1	<0.1	0.6	0.6	15.9	15.9	1019					0.720	3.030	2.310	
DS116	<0.1	<0.1	<0.1	<0.1	0.3	0.3	17.9	17.9	1019					0.730	3.020	2.290	
DS117	<0.1	<0.1	<0.1	<0.1	0.8	0.8	9.9	9.9	1019					1.790	2.930	1.140	
DS118	<0.1	<0.1	<0.1	<0.1	1.1	1.1	18.3	18.3	1018					0.850	3.020	2.170	
R3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.3	20.3	1018					18.390	29.970	11.580	Very silty water
R1	<0.1	<0.1	<0.1	<0.1	2.6	2.6	12.1	12.1	1018					14.800	30.030	15.230	Very silty water
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.3	5.3	1018					Dry	17.980	N/A	
BH107	<0.1	<0.1	0.5	0.5	0.8	0.8	6.3	6.3	1018					Dry	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.5	20.5	1018					18.440	19.100	0.660	Very silty water
R4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.1	20.1	1018					16.570	29.960	13.390	Very silty water
R2	<0.1	<0.1	<0.1	<0.1	4.4	4.4	5.2	5.2	1018					20.120	30.310	10.190	Very silty water
BH102	<0.1	<0.1	4.7	4.7	<0.1	<0.1	3.8	3.8	1018					14.480	15.320	0.840	Very silty water
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19.3	19.3	1018					14.350	16.240	1.890	Very silty water

GUIDE TO PURGING VOLUMES

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where r = radius of the well and h = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23



GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby Weather Conditions: 19°C Overcast, Slight Breeze

Project Number: 15-0645.02 Gas Kit Model: GAS KIT 4

Personnel: Alex Cutts Gas Kit Serial No: 11030

Date:

24/09/2015

LOCATION	Flow Peak	Flow Steady	CH ₄ Peak	CH ₄ Steady	CO ₂ Peak	CO ₂ Steady	O ₂ Min.	O ₂ Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104														0.400	2.910	2.510	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS105														0.130	3.000	2.870	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS107	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.4	20.4	1025	<0.1				0.160	3.000	2.840	
DS107a	<0.1	<0.1	<0.1	<0.1	0.1	0.1	18.6	18.6	1025	1.2				0.530	3.080	2.550	
DS101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.3	20.3	1025	1.6				0.700	3.070	2.370	
DS109	<0.1	<0.1	<0.1	<0.1	0.3	0.3	15.0	15.0	1025	0.3				0.920	3.020	2.100	
DS113														0.120	3.040	2.920	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS114														0.160	3.030	2.870	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS116														0.120	3.020	2.900	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS117														0.100	2.930	2.830	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS118	<0.1	<0.1	<0.1	<0.1	0.7	0.7	19.5	19.5	1025	<0.1				0.290	3.020	2.730	
R3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15.0	15.0	1025	3.7				18.630	29.970	11.340	
R1	<0.1	<0.1	<0.1	<0.1	1.5	1.5	11.0	11.0	1025	<0.1				15.740	30.030	14.290	
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1025	<0.1				DRY	17.980	N/A	
BH107	<0.1	<0.1	0.7	0.7	1.2	1.2	3.4	3.4	1025	2.4				DRY	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	17.5	17.5	1025	<0.1				18.910	19.100	N/A	Very silty water
R4	<0.1	<0.1	0.8	0.8	<0.1	<0.1	11.4	11.4	1025	1.5				18.610	29.960	11.350	
R2	<0.1	<0.1	<0.1	<0.1	0.5	0.5	18.2	18.2	1025	1.1				18.480	30.310	11.830	
BH102	<0.1	<0.1	10.4	10.4	<0.1	<0.1	8.7	8.7	1025	0.2				14.680	15.320	0.640	
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6	20.7	1025	0.1				14.650	16.240	1.590	

GUIDE TO PURGING VOLUMES

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where r = radius of the well and h = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23

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GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby Weather Conditions: 15°C Sunny, slight breeze.

Date:

Project Number: 15-0645.02 Gas Kit Model: GAS KIT 4

29/09/2015

Personnel: Alex Cutts Gas Kit Serial No: 11030

LOCATION	Flow Peak	Flow Steady	CH ₄ Peak	CH ₄ Steady	CO ₂ Peak	CO ₂ Steady	O ₂ Min.	O ₂ Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.7	20.7	1024	<0.1				0.440	2.910	2.470	
DS105	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19.9	19.9	1024	<0.1				0.200	3.000	2.800	
DS107	<0.1	<0.1	0.2	0.2	0.3	0.3	20.1	20.1	1024	2.1				0.440	3.000	2.560	
DS107a	<0.1	<0.1	<0.1	<0.1	0.6	0.6	19.7	19.7	1024	0.3				0.330	3.080	2.750	
DS101	<0.1	<0.1	<0.1	<0.1	0.2	0.2	20.1	20.1	1024	1.3				0.460	3.070	2.610	
DS109	<0.1	<0.1	<0.1	<0.1	0.5	0.5	14.0	14.0	1024	0.4				0.910	3.020	2.110	
DS113														0.190	3.040	2.850	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS114														0.130	3.030	2.900	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS116														0.190	3.020	2.830	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS117														0.200	2.930	2.730	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS118	<0.1	<0.1	<0.1	<0.1	0.4	0.4	19.4	19.4	1024	1.0				0.290	3.020	2.730	
R3	<0.1	<0.1	<0.1	<0.1	0.1	0.1	14.0	14.0	1024	3.6				18.660	29.970	11.310	
R1	<0.1	<0.1	<0.1	<0.1	1.4	1.4	11.4	11.4	1024	<0.1				15.960	30.030	14.070	
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1024	<0.1				DRY	17.980	N/A	
BH107	<0.1	<0.1	0.7	0.7	1.0	1.0	11.5	11.5	1024	2.4				DAMP	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.8	20.8	1024	0.3				DAMP	19.100	N/A	
R4	<0.1	<0.1	0.8	0.8	<0.1	<0.1	9.5	9.5	1024	1.6				18.710	29.960	11.250	
R2	<0.1	<0.1	<0.1	<0.1	3.4	3.4	10.5	10.5	1024	1.2				19.350	30.310	10.960	
BH102	<0.1	0.0	6.9	6.8	<0.1	<0.1	6.7	6.7	1024	0.2				14.370	15.320	0.950	
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6	20.7	1024	0.1				15.630	16.240	0.610	

GUIDE TO PURGING VOLUMES

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where r = radius of the well and h = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23

Document No. C101 Version: 4.0 Issue Date: 13/01/12 Author: C Ramsbottom Authorised By: R Griffiths



PROJECT: CORBY

**STATIC CONE PENETRATION TESTING
FACTUAL REPORT**

CLIENT: DELTA SIMONS

CONTRACT No.: DS25869



Issue	Date	Description	Prepared	Checked	Approved
02	13/10/15	Final	RW	CD	DW

Date: 13 October 2015
Our Ref: 1150281

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www.insitusi.com
Company Reg No.: 6339499
VAT No.: 922 3561 41

Attention: Mr Simon Steele

Dear Mr Steele

**STATIC CONE PENETRATION TESTING
AT CORBY**

We have pleasure in providing a digital copy of our report and data in AGS format for the above project.

We hope that you are satisfied with the performance of our staff, equipment and reporting on this project. If you should have any queries about any aspect of the works carried out, please do not hesitate to contact us. We look forward to being of service to you in the future.

Yours faithfully,

In Situ Site Investigation Limited



Darren Ward
Director

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1.0 INTRODUCTION

At the request of Delta Simons (The Client), In Situ Site Investigation Limited (In Situ S.I.) carried out a soils investigation at Corby.

The investigation consisted of performing Static Cone Penetration Tests (CPTs). All tests were performed at locations set out by the Client.

The fieldwork details are shown below in figure 1.1 and figure 1.2.

Fieldwork Summary	
CPT Rig Used	15 Tonne wheel mounted CPT rig CPT 008
Operators	Darren Ward and Tom Brodie
Date Started	02/09/2015
Date Finished	03/09/2015
In Situ S.I. Project Manager	Darren Ward
Main Contractor's Site Manager	Stacey Ragsdale

Figure 1.1: Table showing the fieldwork summary details.

Completed Fieldwork Summary
10 Static Cone Penetration Tests (CPTs) to a maximum depth of 25.15m or refusal. Each test measured Cone Resistance (q_c), Sleeve friction (f_s), Measured Pore Pressure in the shoulder position (u_2), inclination in X and Y planes.
Provision of factual report with estimated soil type, geotechnical parameters and AGS data.

Figure 1.2: Table showing the completed fieldwork summary details.

2.0 FIELDWORK

2.1 CPT RIG

All works were performed with a 15 tonne CPT wheel mounted Rig. A full data sheet for this rig is presented in Appendix A.

2.2 CPTU CONE

A single electric CPTU cone was used S15CFIP.1093 of a type conforming to the requirements of Application Class 2 of ISO/ FDIS 22476-1 (2012). The cones measured parameters are shown in figure 1.2. The cone had a cross-sectional area of 10cm². The piezo filter was mounted in the shoulder (u_2) position (see figure 3.2). A full datasheet of the cone used is shown in Appendix A.

2.3 TEST PROCEDURE

The tests are carried out in accordance with the International Standard for electrical cone and piezocone penetration test (ISO/FDIS 22476-1 2012).

The final depths of the tests were determined by either completion to the specified test depth or when the maximum safe capacity of the equipment was reached. A schedule of the tests performed is shown in Appendix A which has been compiled from the operator's daily progress reports.

The data is transmitted from the digital CPTU through an umbilical cable that runs through the push rods to the data acquisition system.

The rate of penetration is kept constant at 2cm/s \pm 10% except when penetrating very dense or hard strata. A copy of the depth encoder calibration certificate is shown in Appendix A. Results are displayed instantaneously on the computer logging screen. The results are recorded on the computer hard disc.

Before each test is carried out zero values are taken of the cone to check to see if it is within calibration. At the end of each test, zero values are taken again to see if there has been any drift during the test. These values are inspected during the post processing stage. This is a quality check on the data and the testing procedure. Individual test zero values are shown on their corresponding test results on form CPT0001 in Appendix B.

2.4 POSITIONING

All positions were set out by the Client on site.

3.0 CONE PENETRATION TEST RESULTS

All tests carried with the CPTU cone are shown in Appendix B and displays all results as described in section 3.1 and 3.2. Two graphs are shown for each test. The first graph (form CPT0001 Estimated Soil Behaviour Type Plot) shows the measured readings from the cone and the estimated soil description, these are plotted at a 0-20MPa scale for the cone resistance. The second graph (form CPT0002 Measured Pore Pressure Plot) shows derived and corrected values along with the pore pressure results; these are plotted at a 0-80MPa scale for the cone resistance.

3.1 ESTIMATED SOIL BEHAVIOUR TYPE PLOT (FORM CPT0001)

The estimated soil behaviour type plot presented in Appendix B details the following:

- Measured cone end resistance (q_c) and sleeve friction (f_s);
- Friction ratio (R_f);
- Inclination, X and Y axis;
- Estimated behaviour soil type log (Robertson *et.al* 1986, friction ratio chart)
- Legend indicating soil log (BS5930:1999 legend)

3.1.1 Estimated Soil Behaviour Type

The estimation of soil behaviour type using measurements of cone and friction is based upon the variation of the friction ratio in respect to the cone resistance. The friction ratio varies depending upon whether the soil is cohesive or granular. The cone resistance varies depending on the strength and densities of the soil.

The interpretation is based on Robertson *et. al.* (1986) (Friction ratio chart) which is shown below (figure 3.1).

The density and stiffness values descriptions are based on derived N60 (Robertson *et. al.* (1986)) and S_u (Lunne and Kleven (1981)) values from the cone resistance in accordance to BS5930:1999. A list of these values are presented in Appendix A.

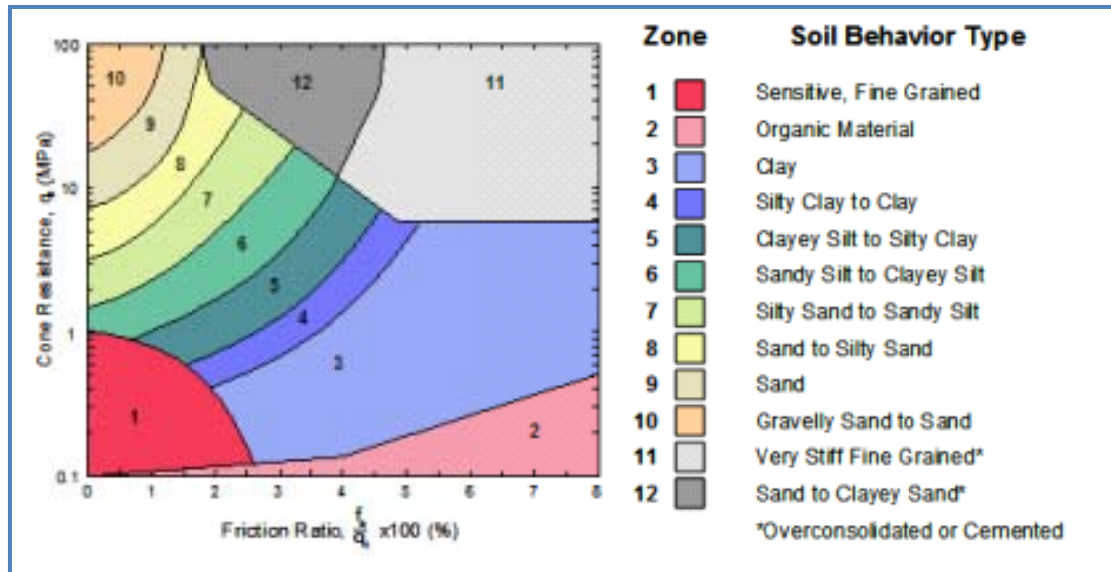


Figure 3.1: Robertson *et al.*, 1986 soil behaviour type chart.

3.1.2 Friction Ratio (R_f)

The friction ratio (R_f) is the ratio between the sleeve friction and the cone resistance. This is a very useful parameter for carrying out soil interpretation

$$\text{Friction Ratio } (R_f) = \left(\frac{\text{Sleeve Friction } (f_s)}{\text{Tip Resistance } (q_c)} \right) \times 100 \text{ (Lunne } et al., 1997)$$

3.1.3 Depth Correction

All tests in the report have been corrected for depth difference caused by inclination. This has been calculated using the method described in the International Reference Test Procedure (2001).

To calculate the corrected depth the following formula is used:

$$z = \int_0^l C_h \cdot dl$$

where:

z = penetration depth, in m;

l = penetration length, in m;

C_h = correction factor for the effect of the inclination of the CPTU relative to the vertical axis.

The equation for calculating the correction factor for the influence of the inclination for a bi-axial inclinometer is:

$$C_h = (1 + \tan^2 \alpha + \tan^2 \beta)^{-1/2}$$

3.2 MEASURED PORE PRESSURE PLOT (CPT0002)

Behind each estimated soil type plots in Appendix B is a second plot showing the pore pressure results as well as corrected and derived parameters. These logs detail the following:

- Measured Pore pressure (u_2),
- Corrected cone resistance (q_t);
- Pore pressure ratio (B_q)
- Sleeve friction (f_s)

3.2.1 Pore Pressure Results (u_2)

The CPTU measured the pore pressure during penetration. If the material is free draining and saturation is maintained it will normally measure hydrostatic pore pressure. In material that is not free draining it will record the total pore pressure (hydrostatic plus any excess pore pressures generated) created by the cone penetrating through this material

The filter element can be mounted in one of three positions. For the tests carried out in this report the filter was mounted in the u_2 , or shoulder position (see figure 3.2)

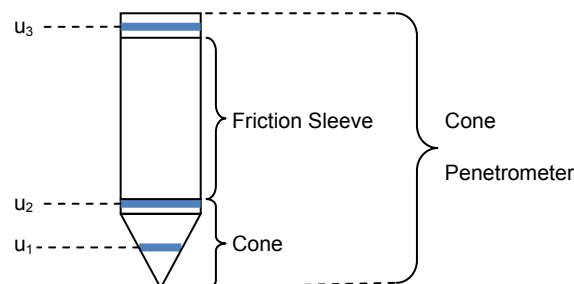


Figure 3.2: Diagram showing pore pressure filter locations (after Lunne *et al.*, 1997)

3.2.2 Corrected Cone Resistance (q_t)

For each penetration test, the measured Cone Resistance, q_c , can be corrected for the 'unequal area effect' due to the influence of the ambient pore water pressure acting on the cone.

The corrections have been applied using the following equation:

$$q_t = q_c + [u_2 \cdot (1 - \alpha)] \text{ (Lunne } et al., 1997)$$

Where α is the cone area ratio, which is **0.869** for the cone used on this project (This value is geometrically measured).

3.2.3 Pore Pressure Ratio (B_q)

Pore pressure ratio is the ratio between the measured pore pressure generated during penetration and the corrected cone resistance minus the total overburden stress.

Pore pressure ratio as defined by Senneset and Janbu (1985) is defined as:

$$B_q = \frac{u_2 - u_0}{q_t - \sigma_{vo}}$$

where:

u_2 = pore pressure measured between the cone and the friction sleeve

u_0 = equilibrium pore pressure

σ_{vo} = total overburden stress

q_t = cone resistance corrected for unequal end area effects

3.2.4 Soil Unit Weight

For calculations involving the total overburden stress, an estimate of the soil unit weight has to be made. For all calculations in this report, an approximate unit weight is assigned to each soil classification zone from the Robertson *et al.*, 1986 chart.

Figure 3.3 below lists the approximate unit weight for each zone from Lunne *et al.*, 1997.

Zone	Approximate unit weight (kN/m ³)
1	17.5
2	12.5
3	17.5
4	18
5	18
6	18
7	18.5
8	19
9	19.5
10	20
11	20.5
12	19

Figure 3.3: Estimate of unit weights based on the Robertson *et al.*,(1986) friction ratio chart (Lunne *et al.*, 1997).

3.2.5 In Situ Pore Pressure

On the pore pressure plot is a second line (in red) showing the inferred in situ or hydrostatic pore pressure, u_0 . This is calculated from a known or estimated water table level.

In the report, the water table has been inferred at 2m below ground level.

4.0 GEOTECHNICAL PARAMETERS

A number of empirical correlations can be carried out to derive geotechnical parameters from CPT data. This report includes a number of these parameters which are described in this section. For the CPT data only soil behaviour type, SPT values, shear strength and relative density are derived and are shown in Appendix C. For the CPTU data all the derived parameters described in the section are derived and displayed in Appendix C.

Please note that a number of the correlations are derived for a certain type of soil, and may not be appropriate for all the soil types encountered on this project.

4.1 SOIL BEHAVIOUR TYPE INDEX

The soil behaviour type index was derived by Jefferies and Davies (1991). It was created to allow a continuous variation of $(q_c/p_a)/N_{60}$ with soil type, which was an improvement on the discontinuous nature of an earlier conversion by Robertson *et al.* (1986).

This approach has been modified for use with the Robertson (1990) normalised CPT soil classification chart. The boundaries between soil behaviour type zones (2 to 7) can be approximated as concentric circles, and the radius of each circle can be used as a soil behaviour type index (Lunne *et al.*, 1997).

The soil behaviour type index, I_c , can then be defined as:

$$I_c = ((3.47 - \log Q_t)^2 + (\log F_r + 1.22)^2)^{0.5}$$

The boundaries of soil behaviour type are then given in terms of the index, I_c . See figure 4.1 for the table of soil behaviour types.

Soil Behaviour Type Index, I_c	Zone (from Robertson 1990 normalised chart)	Soil Behaviour Type
$I_c < 1.31$	7	Gravelly sand to dense sand
$1.31 < I_c < 2.05$	6	Sands – clean sand to silty sand
$2.05 < I_c < 2.60$	5	Sand mixtures – silty sand to sandy silts
$2.60 < I_c < 2.95$	4	Silt mixtures – clayey silt to silty clay
$2.95 < I_c < 3.60$	3	Clays: silty clay to clay
$I_c > 3.60$	2	Organic soils - peats

Figure 4.1: Boundaries of soil behaviour type index, I_c .

4.2 STANDARD PENETRATION TEST (SPT) N VALUE

The SPT N value can be derived using differing ratios of the relationship between q_c and N_{60} . These ratios were suggested by Robertson *et al.* (1986) and are shown in figure 4.2.

Zone	Soil Behaviour Type	$(q_c/p_a)/N_{60}$
1	Sensitive fine grained	2
2	Organic material	1
3	CLAY	1
4	Silty CLAY to CLAY	1.5
5	Clayey SILT to silty CLAY	2
6	Sandy SILT to clayey SILT	2.5
7	Silty SAND to sandy SILT	3
8	SAND to silty SAND	4
9	SAND	5
10	Gravelly SAND to SAND	6
11	Very stiff fine grained	1
12	SAND to clayey SAND	2

Figure 4.2: SPT N value ratios from Robertson *et al.*, 1986.

For the best results for the calculation of N_{60} it is recommended to use the soil behaviour type index, I_c . This is the method used in this report.

The relationship between N_{60} and I_c is defined as:

$$\frac{\left(\frac{q_c}{pa}\right)}{N_{60}} = 8.5 \left(1 - \frac{I_c}{4.6}\right) \text{ (Lunne } et al., 1997)$$

It is suggested (Jefferies and Davies, 1991) that this method provides a better estimate of the SPT N values than the actual SPT test due to poor repeatability of the SPT.

4.3 SHEAR STRENGTH

Estimation of s_u from CPTUs using corrected cone resistance is made from the following equation:

$$s_u = \frac{(q_t - \sigma_{vo})}{N_{kt}} \text{ (Lunne } et al., 1981)$$

where:

N_{kt} = empirical cone factor
 σ_{vo} = total overburden stress.

Research has shown that the cone factor N_{kt} varies between 11 and 30 with an average value of 15. We present an upper bound s_u value with an N_{kt} value of 15 and a lower bound s_u value with an N_{kt} value of 20. This report only presents this data on soils with a soil behaviour type index (I_c) of greater than 2.60.

4.4 RELATIVE DENSITY (D_r)

Relative density has been derived using a method by Jamiolkowski *et al.*, 1985 (see figure 4.3). This correlation was derived from five predominantly silica sands under controlled laboratory conditions. The sands were normally consolidated, un-cemented, un-aged and predominantly quartz. It is noted that field cases are likely to show more variability than that demonstrated in figure 4.3.

The correlation in this report is calculated on soil with a soil behaviour type index (I_r) of less than 2.60. The formula for calculating relative density (D_r) is:

$$D_r = -98 + 66 \log_{10} \frac{q_c}{[\sigma'_{vo}]^{0.5}}$$

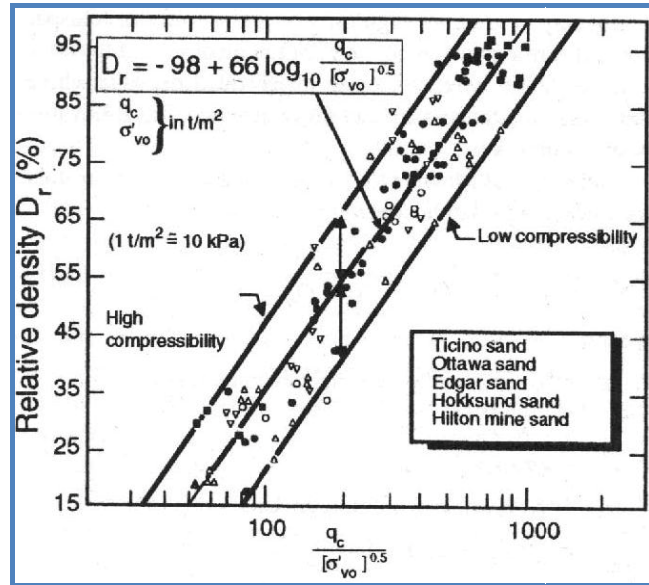


Figure 4.3: Correlation between q_c and relative density (after Jamiolkowski *et al.*, 1985)

4.5 FRICTION ANGLE

Friction angle is derived using the Robertson and Campanella (1983) method from their work looking at calibration test data (see figure 4.6). The correlation is based on un-aged un-cemented quartz sand. The formula for peak Φ' from CPTU is:

$$\Phi' = \arctan \left[0.1 + 0.38 \log \left(\frac{q_t}{\sigma_{vo}'} \right) \right]$$

The correlation in this report is calculated on soil with a soil behaviour type index (I_c) of less than 2.60.

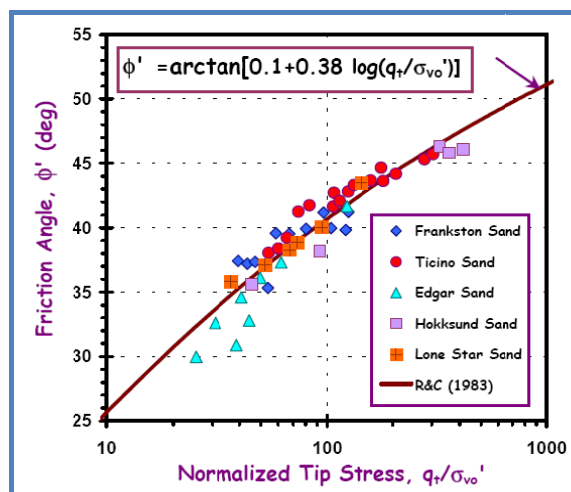


Figure 4.6: Peak friction angle of clean quartz sands from CPTU (after Robertson & Campanella, 1983).

4.6 FINES CONTENT (FC)

It is possible to estimate fines content from the friction ratio of sandy soils. Suzuki *et al.*, (1995) demonstrated how friction ratio (R_f) varies with fines content (FC) (see figure 4.7)

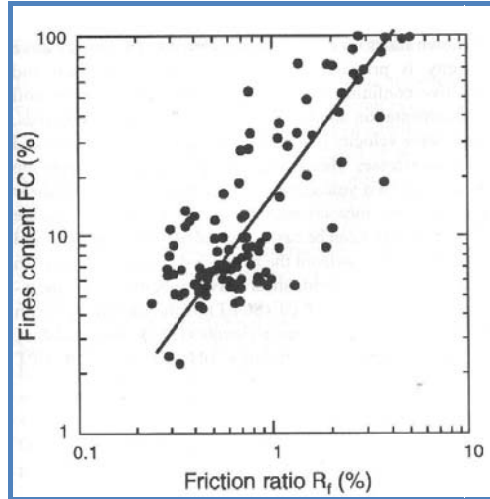


Figure 4.7: Variation of fines content with friction ratio (Suzuki *et al.*, 1995)

Robertson and Fear (1995) used this relationship and integrated it with the soil behaviour type index (I_c), this was later updated in 1998. This relationship is shown below:

$$\text{if } I_c < 1.26 \text{ apparent fines content FC (\%)} = 0$$

$$\text{if } 1.26 \leq I_c \leq 3.5 \text{ apparent fines content FC (\%)} = 1.75 I_c^3 - 3.7$$

$$\text{if } I_c > 3.5 \text{ apparent fines content FC (\%)} = 100$$

5.0 REFERENCES

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APPENDIX A

GENERAL INFORMATION

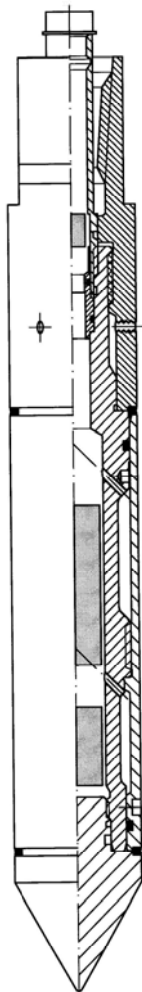
LIST OF FIGURES

Description	Pages Included
Cone Datasheet	1
Cone Calibration Certificate S15CFIP.1093	1
CPT Project Summary Sheet	1
15 Tonne Wheel Mounted Rig Datasheet	1
CPT Soil Description Table	1
Explanation of Symbols	1

CONE DATASHEET



Rijksstraatweg 22F
2171 AL Sassenheim
Tel. : +31 71 301 92 51
Fax : +31 71 301 92 52
E-mail : info@geopoint.nl
ING bank: 68.23.01.396
Postbank: 5226758
BTW nr. : NL806331677801



SPECIFICATIONS
S15 SERIES
ELECTRICAL CONES

The electronic subtraction cones have been developed to address the durability problems inherent in other cone designs. The unit consists of a single element temperature compensated strain gauge transducer for measuring both cone resistance and local sleeve friction. This design is therefore more robust than a compression type cone. The cone support electronics package is located directly behind the transducer. The precision strain gauge amplifiers and power supply eliminate the effects of cable resistance on the measurements. A standard subtraction cone is capable of measuring simultaneously the following channels: Tip, Local friction, Pore pressure, Temperature and Inclination.

GENERAL SPECIFICATIONS

Cone Tip Section Area	1,500 mm ²
Friction Sleeve Surface	22,500 mm ²
Total Length	325 mm
Weight	4200 g
Power Supply	± 15 VDC, 100 mA.
Output	0 – 10 VDC*
Working Temperature	0 - 60°C
Storage Temperature	- 40 to + 85°C
Connector	Lemo 10 pins (others on request)

TIP RESISTANCE

Range	100/150* kN
Accuracy	0.25 % FS
Maximum Load	150 % of range
Cone Area Ratio	0.75

LOCAL SLEEVE FRICTION

Range	100/150* kN
Accuracy	0.50 % FS
Maximum Load	150 %
Sleeve Area Ratio	1.0 (EA)

PORE PRESSURE

Range	1/2/5/10* MPa
Accuracy	0.5 % FS
Maximum Load	150 % of range

INCLINATION

Range	25 ° (biaxial)
Accuracy	< 2 °

All our equipment complies with the ISSMGE, ASTM, DIN and NEN Standards.

**Other output and voltage ranges available on request. Loadcells may be calibrated for lower ranges.*

CONE CALIBRATION CERTIFICATE S15CFIP.1093

Sondeerapparatuur



Rijksstraatweg 22F
2171 AL Sassenheim
Tel. : +31 71 301 92 51
Fax : +31 71 301 92 52
E-mail : info@geopoint.nl
BTW : NL814690178.801
IBAN : NL28 INGB0682301396
BIC : INGBNL2A

Cone Calibration Certificate

Certificate:
Instrument Type: Electric Subtraction Cone
Model: S15-CFIIP
Serial number: 1093
Calibration date: 20-08-2015
Client: Insitu
A. Verhart

Calibrated by:
Calibration instruments
Manufacturer: Hottinger Baldwin Messtechnik GmbH
HBM certificate no.: 49046

Calibration conditions
Ambient temperature: 21.3 °C
Atmospheric pressure: 1023 mBar

Cone specifications
Cone base area: 1500 mm²
Load tip resistance (nom.): 100 kN
Friction sleeve area: 22500 mm²
Load tip + local friction (nom.): 100 kN
Load friction sleeve (nom.): 22.5 kN
Load pore pressure (nom.): 2 MPa
Inclination (nom.): +/- 20 °
Temperature compensation (all channels): 0...+40 °C
Maximum overload capacity (all channels): 100 %
Cone area ratio (a): 0.79
Max. Inaccuracy, relative to measurement value: 1.0 %

Zero points:	Tip:		Sleeve:		Pore Pressure:		Inclinometer:		
	qc in kN	mV	fs in kN	mV	MPa	mV	Degrees	X (mV)	Y (mV)
	0	0262	0	0288	0	0235	0	2445	2301
	5	0302	5	0311	0.4	1369	-20	0440	0472
	10	0608	10	0624	0.8	2730	20	4482	3849
	15	0915	15	0939	1.2	4085			
	20	1219	20	1252	1.6	5434			
	25	1527	25	1567	2.0	6776			
	30	1832	30	1881					
	35	2138	35	2195					
	40	2445	40	2509					
	45	2749	45	2821					
	50	3053	50	3133					
	75	4564	75	4685					
	100	6071	100	6232					

Max. error, abs. qc: 35 kPa
Max. error, abs. fs: 2 kPa
Max. error, abs. u2: 10 kPa
Max. error, abs. l: 1 °

This calibration is compliant with GeoPoint Systems internal quality system, internal calibration procedures and meets the requirements of NEN2649, NEN5140, NORSOK G-001, ISSMFE and ASTM using calibration equipment traceable to (Inter-) National Standards.

Approved by: B. van Eijk
Date: 20-08-2015

www.geopoint.nl
www.geopoint.e

Ingeschreven in het handelsregister van de K.v.K. voor Rijnland onder nummer 28106251.
Op al onze leveranties en/of overeenkomsten zijn de algemene verkoopvoorwaarden van Geopoint Systems B.V. van toepassing.

CPT PROJECT SUMMARY SHEET

HOLE	Final Depth of Test (m)	Date of Test	Cone Used	Test Remarks
CPT 101	17.08	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 102	16.41	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 103	22.16	02/09/2015	S15CFIP.1093	Test Reached maximum equipment depth. (22m of rods)
CPT 104	14.19	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 105	19.68	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 106	16.72	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 107	1.00	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 107A	15.95	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 108	25.15	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 109	14.16	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure

15 TONNE WHEEL MOUNTED CPT RIG DATA SHEET

RIGS

15 TONNE CPT WHEEL MOUNTED RIG (CPT 008)

In Situ has a wide range of rigs which meet the clients varied CPT requirements often in difficult terrains. Projects may require CPT testing in areas which range from motorways to rugged mountainous terrain, to offshore work; the access to the projects may often be restricted for manoeuvring.

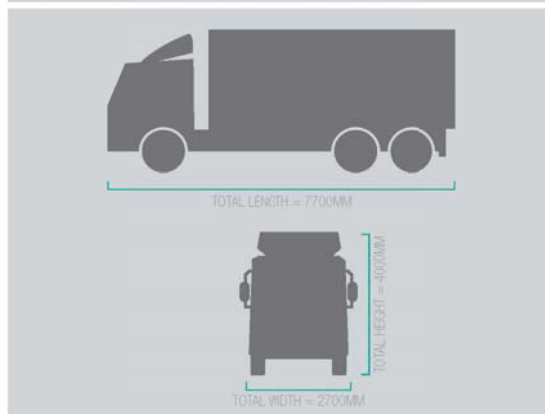
In Situ has rigs to meet all clients needs and situations .

CPT RIG DETAILS

DRIVE SYSTEM	6 X 4 WHEEL DRIVE
TOTAL WEIGHT	15 TONNES
GROUND BEARING PRESSURE	75KPA
CPT RAM THRUST CAPACITY	15 TONNES
MAXIMUM PENETRATION	30-40M DEPENDING ON THE GROUND CONDITIONS.
PERFORMANCE RATES	100-150M OF TESTING IN A DAY DEPENDING ON ACCESS TO POSITIONS.
TYPICAL SITES FOR THIS RIG	HARD STANDING SITES, E.G. ROADS, CAR PARKS, DRY NON HARD STANDING SITES.



CPT RIG DIMENSIONS



SOIL DESCRIPTION TABLES

GRANULAR SOILS (Sands and Gravels)

Description	Cone Resistance (q_c) (MPa)
Very Loose	0 – 2
Loose	2 – 4
Medium Dense	4 – 12
Dense	12 – 20
Very Dense	>20

COHESIVE SOILS (Clays)

Description	Cone Resistance (q_c) (MPa)	Equivalent S_u value from q_c (kPa)
Very Soft	0 – 0.3	0 – 20
Soft	0.3 – 0.5	20 – 40
Firm	0.5 – 1.0	40 – 75
Stiff	1.0 – 2.0	75 – 150
Very stiff	2.0-4.0	150-300
Hard	>4.0	>300

(from Waltham, 2002)

EXPLANATION OF SYMBOLS

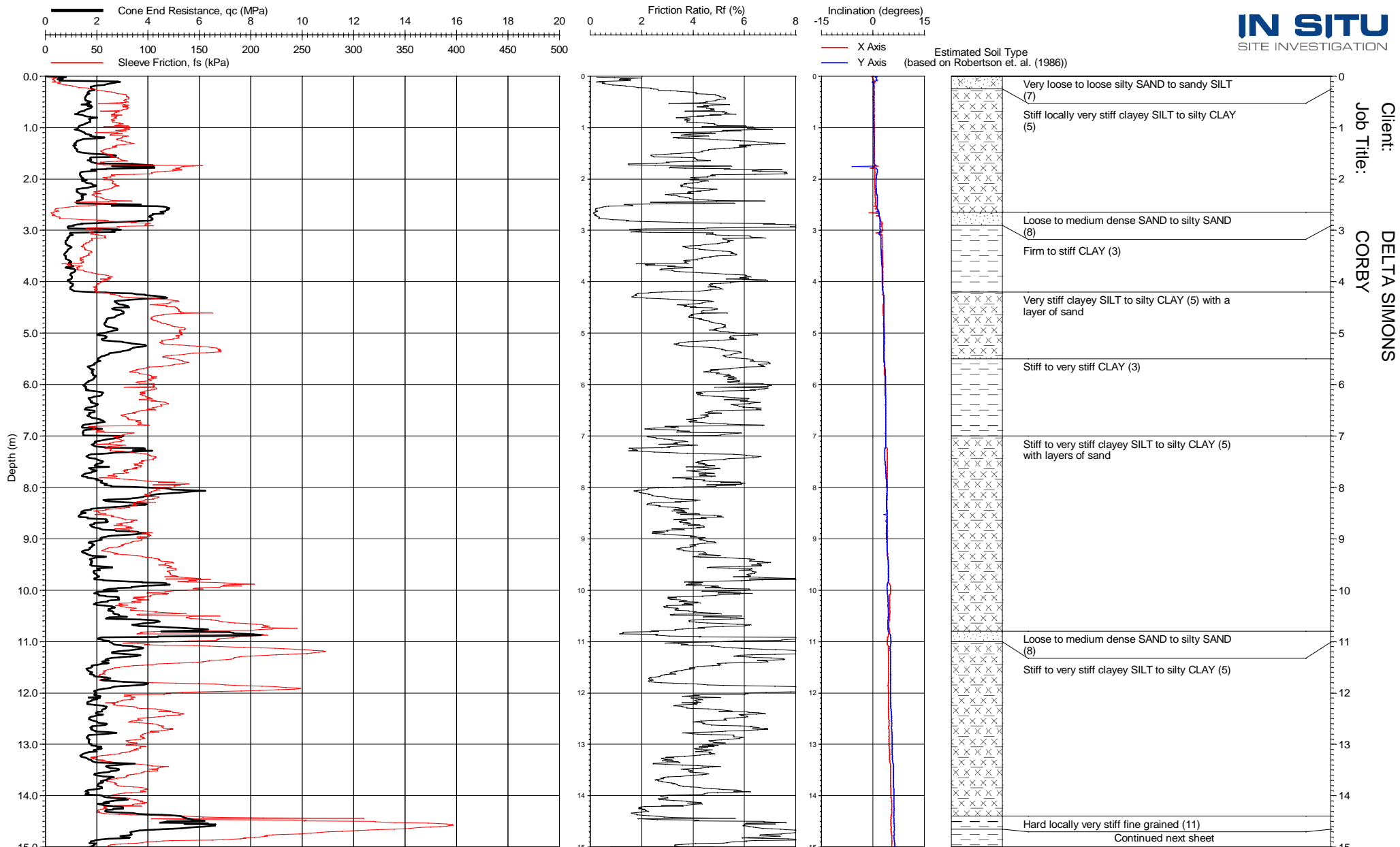
- a (α) = area ratio of the cone ($=A_n/A_c$)
- A_c = projected area of the cone
- A_n = cross-sectional area of shaft
- B_q = pore pressure parameter ($=(u_2-u_0)/(q_f-\sigma_{vo})$)
- c_h = horizontal coefficient of consolidation
- Dr = relative density $\left(D_r = \frac{e_{max} - e}{e_{max} - e_{min}} \times 100\% \right)$
- e = void ratio
- e_o = initial void ratio
- e_{max} = maximum void ratio
- e_{min} = minimum void ratio
- f_s = unit sleeve friction
- FC = fines content
- I_c = soil behaviour type index
- I_r = rigidity index = G/s_u
- m_v = coefficient of volume change
- M = constrained deformation modulus
- N = no. Of blows in the SPT
- N_k or N_{kt} = cone factor
- N_{60} = SPT energy ratio
- q_c = measured cone resistance
- q_e = effective cone resistance = (q_f-u_2)
- q_n = net cone resistance = $(q_f-\sigma_{vo})$
- q_t = corrected cone resistance = $q_c+(1-a)u_2$
- Q_t = normalised cone resistance = $(q_f-\sigma_{vo})/\sigma'_{vo}$
- R_f = friction ratio ($=(f_s/q_c)\times 100\%$)
- s_u = undrained shear strength
- t_{50} = time for 50% dissipation of measured pore pressure
- u_0 = in situ pore pressure
- u_1 = pore pressure measured on the cone
- u_2 = pore pressure measured behind the cone
- Δu = measured pore water pressure
- φ = total friction ratio

APPENDIX B

CPT RESULTS

LIST OF FIGURES

Description	Pages Included
CPT 101 – CPT 109 (Printed on Form CPT0001) Estimated Soil Behaviour Type Plot	17
CPT 101 – CPT 109 (Printed on Form CPT0002) Measured Pore Pressure Plot	17



Client: DELTA SIMONS
Job Title: CORBY

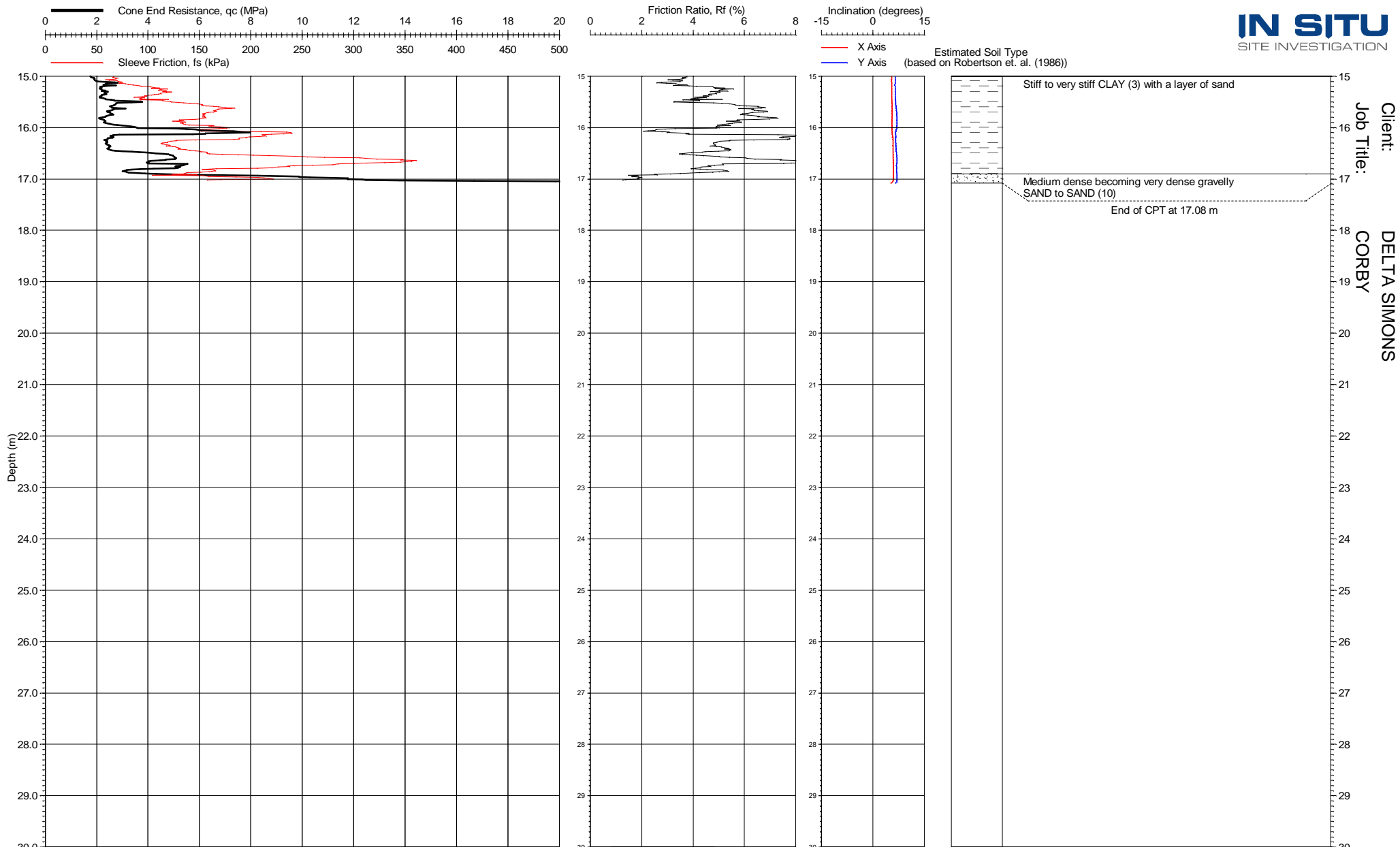
Location: Corby
Coordinates: 491070.280E - 290870.590N
Ground Level: 104.04 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 101
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 290 mV	Sleeve Zero Post: 285 mV	Sleeve Zero Difference: 2 %
Pore Pressure Zero Pre: 239 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 3 %
X Inclinator Zero Pre: 2248 mV	X Inclinator Zero Post: 2472 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2248 mV	Y Inclinator Zero Post: 2472 mV	Y Inclinator Difference: -9 %

PIEZO CONE PENETRATION TEST
CPT 101
insitusi.com
Form: CPT0001



Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 491070.280E - 290870.590N
Ground Level: 104.04 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

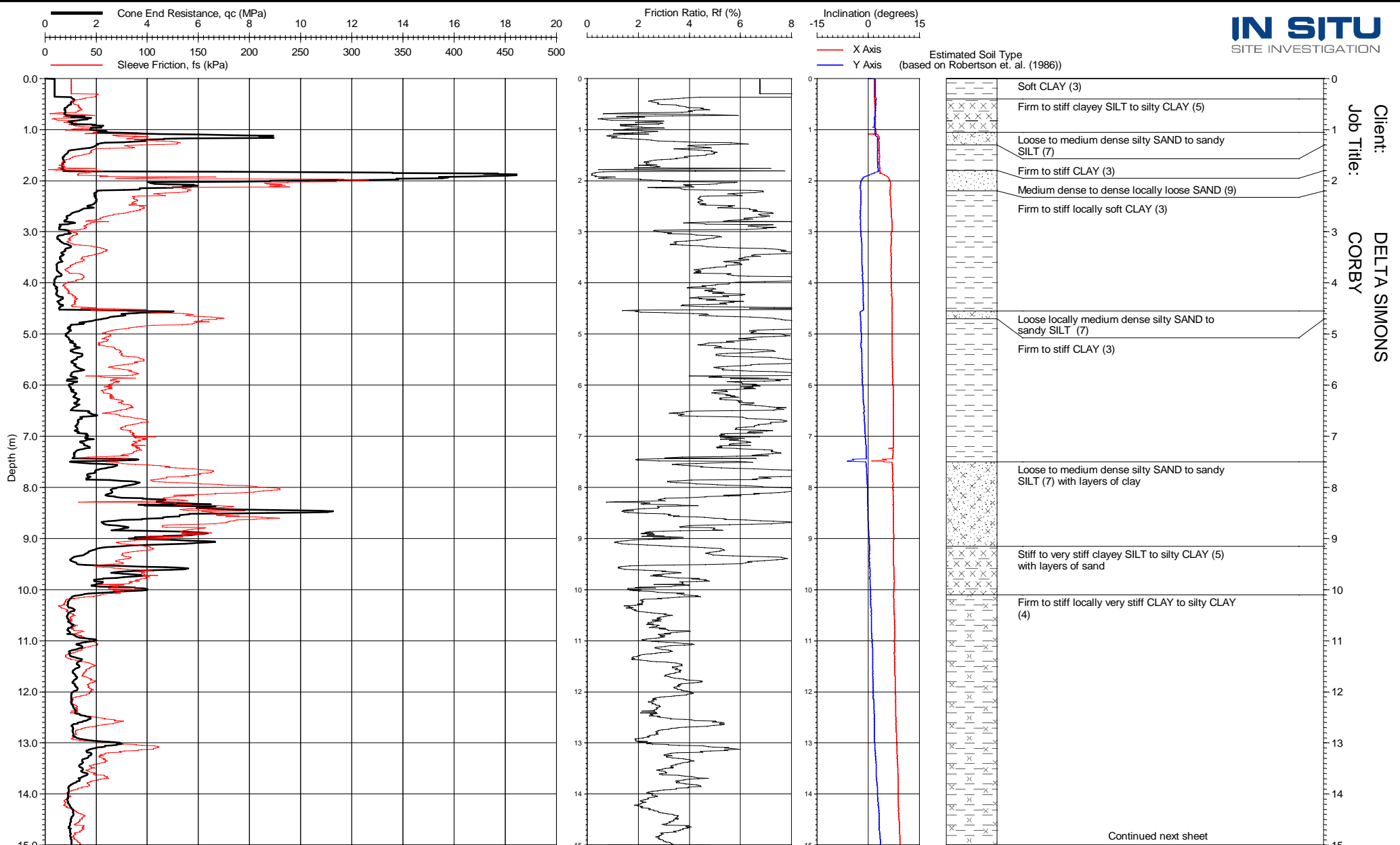
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Date of Plot: 13/10/2015
File Name: 1150281 - CPT 101
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 290 mV	Sleeve Zero Post: 285 mV	Sleeve Zero Difference: 2 %
Pore Pressure Zero Pre: 239 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 3 %
X Inclinator Zero Pre: 2248 mV	X Inclinator Zero Post: 2472 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2248 mV	Y Inclinator Zero Post: 2472 mV	Y Inclinator Difference: -9 %

PIEZO CONE PENETRATION TEST
CPT 101
insitusi.com
Form: CPT0001

Client: DELTA SIMONS
Job Title: CORBY

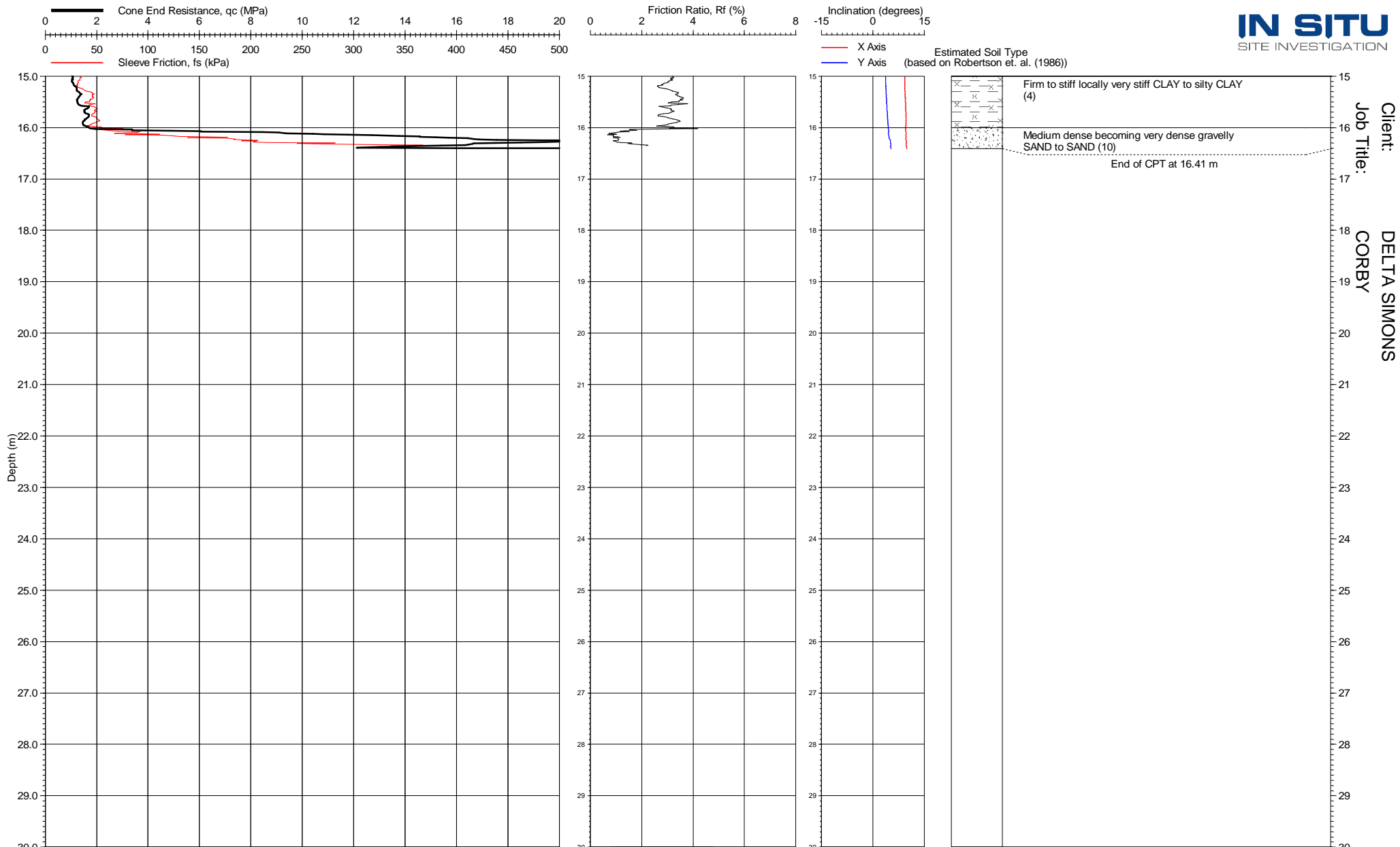


Location: Corby
Coordinates: 491021.740E - 290918.910N
Ground Level: 105.55 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 102
Checked By: *[Signature]*

Continued next sheet

PIEZO CONE PENETRATION TEST
CPT 102
insitusi.com
Form: CPT0001



Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

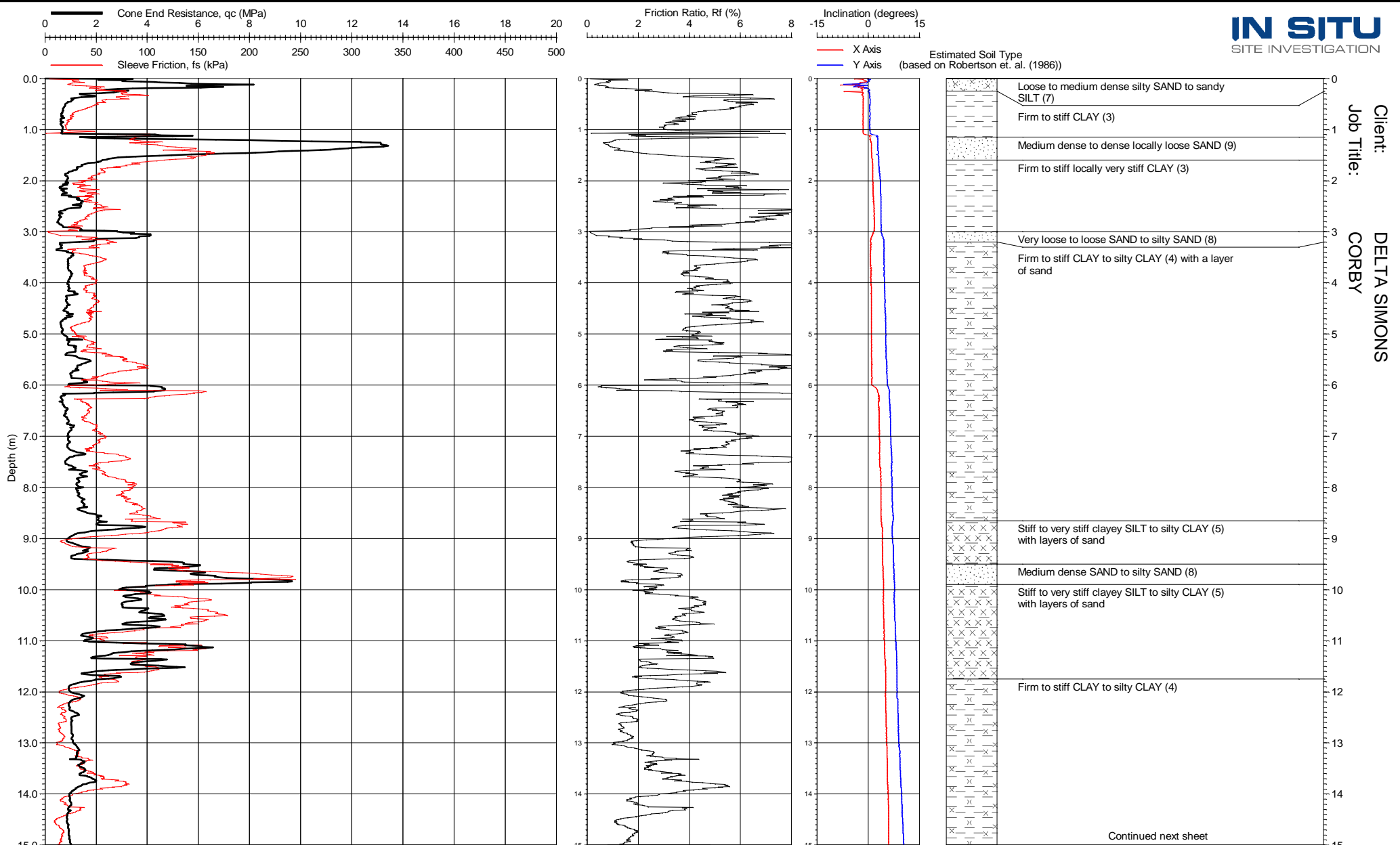
Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 279 mV	Sleeve Zero Post: 281 mV	Sleeve Zero Difference: -1 %
Pore Pressure Zero Pre: 231 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2480 mV	X Inclinator Zero Post: 2470 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2480 mV	Y Inclinator Zero Post: 2470 mV	Y Inclinator Difference: 0 %

PIEZO CONE PENETRATION TEST
CPT 102
 insitusi.com
 Form: CPT0001

Client: DELTA SIMONS
Job Title: CORBY



Location: Corby
Coordinates: 490958.570E - 290901.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

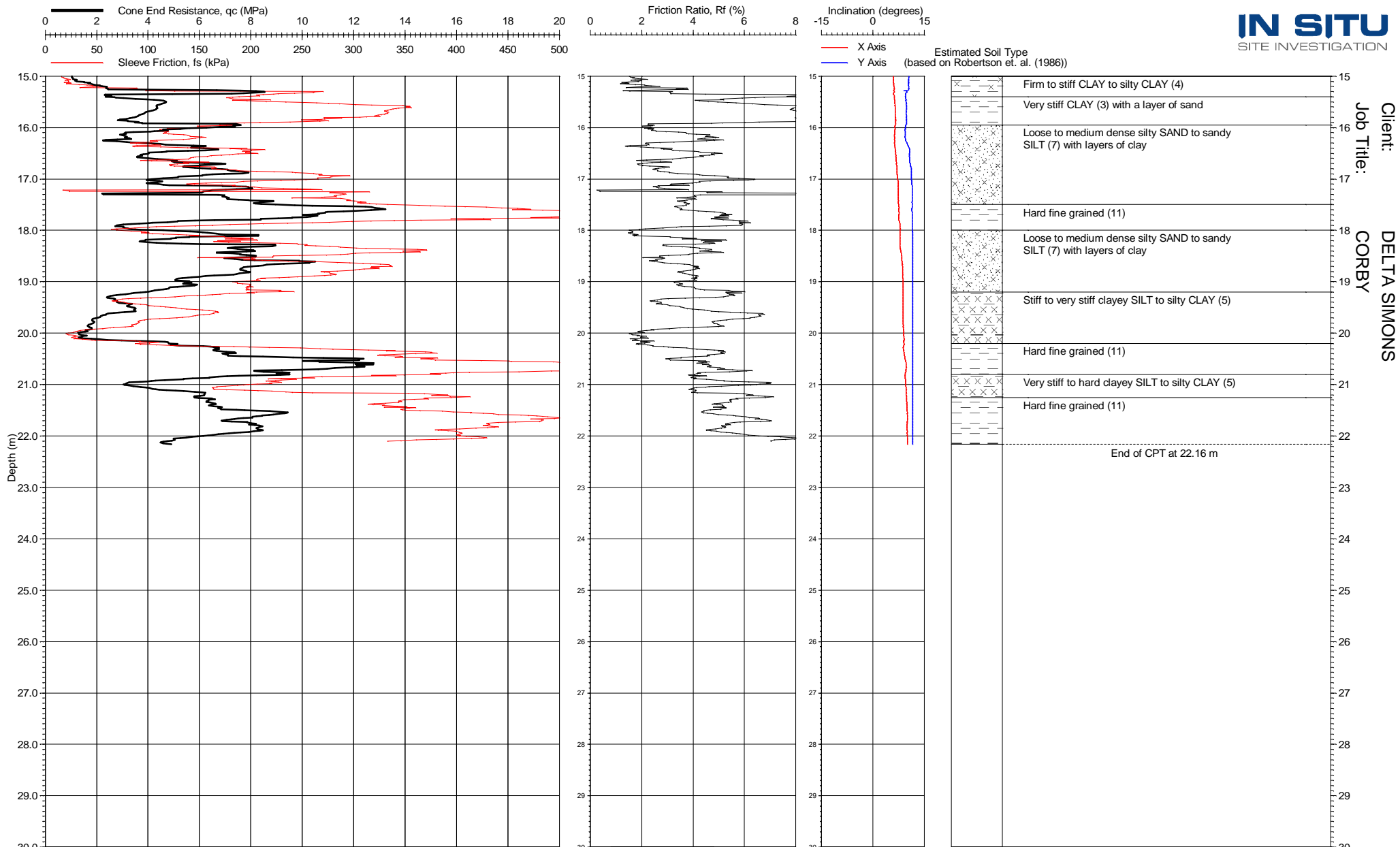
Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 103
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 257 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 256 mV	Pore Pressure Difference: -9 %
X Inclinator Zero Pre: 2439 mV	X Inclinator Zero Post: 2372 mV	X Inclinator Difference: 3 %
Y Inclinator Zero Pre: 2439 mV	Y Inclinator Zero Post: 2372 mV	Y Inclinator Difference: 3 %

Continued next sheet

PIEZO CONE PENETRATION TEST
CPT 103
insitusi.com
Form: CPT0001



Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490958.570E - 290901.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

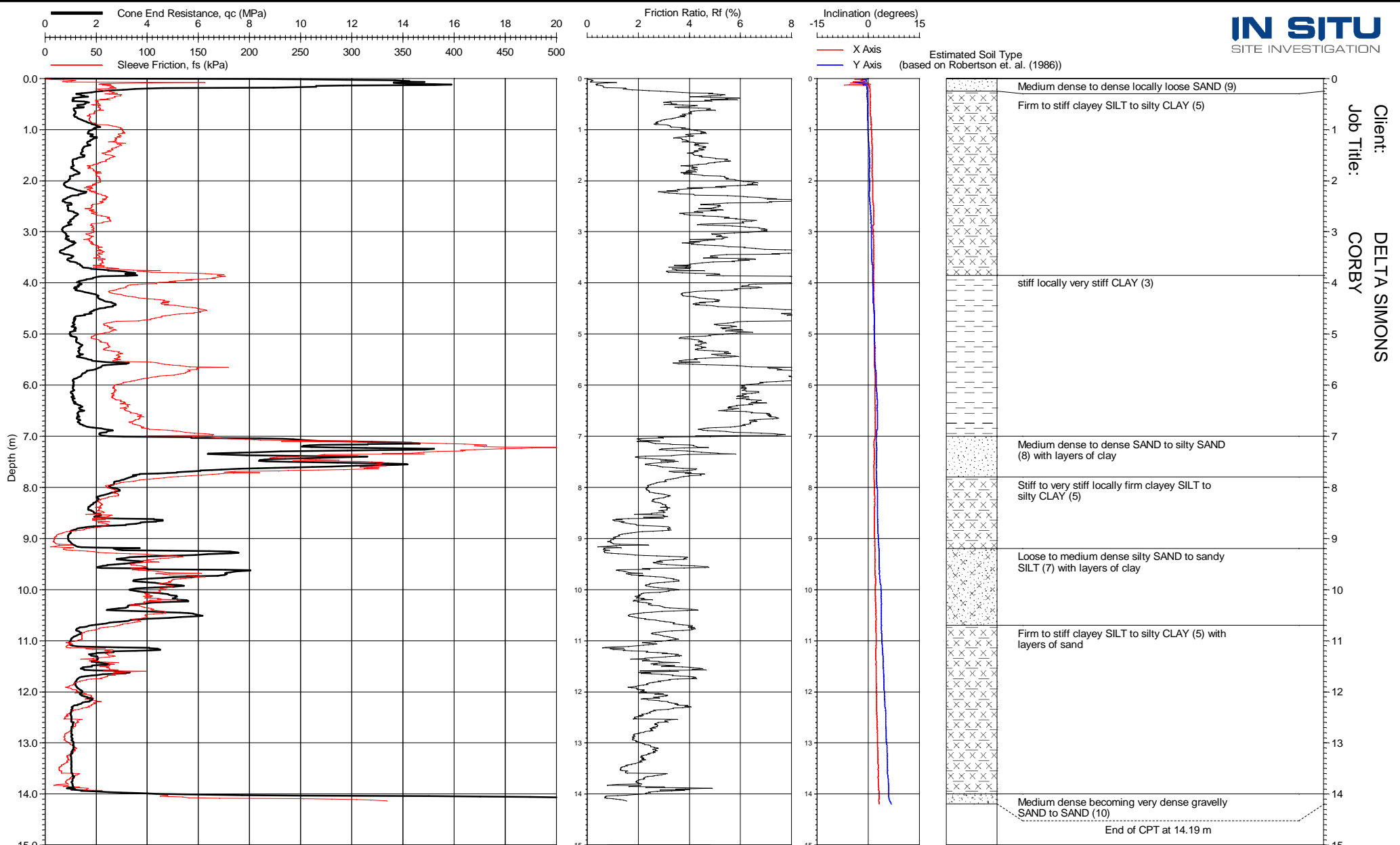
Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 103
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 257 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 256 mV	Pore Pressure Difference: -9 %
X Inclinator Zero Pre: 2439 mV	X Inclinator Zero Post: 2372 mV	X Inclinator Difference: 3 %
Y Inclinator Zero Pre: 2439 mV	Y Inclinator Zero Post: 2372 mV	Y Inclinator Difference: 3 %

PIEZO CONE PENETRATION TEST
CPT 103
insitusi.com
Form: CPT0001

Client: DELTA SIMONS
Job Title: CORBY



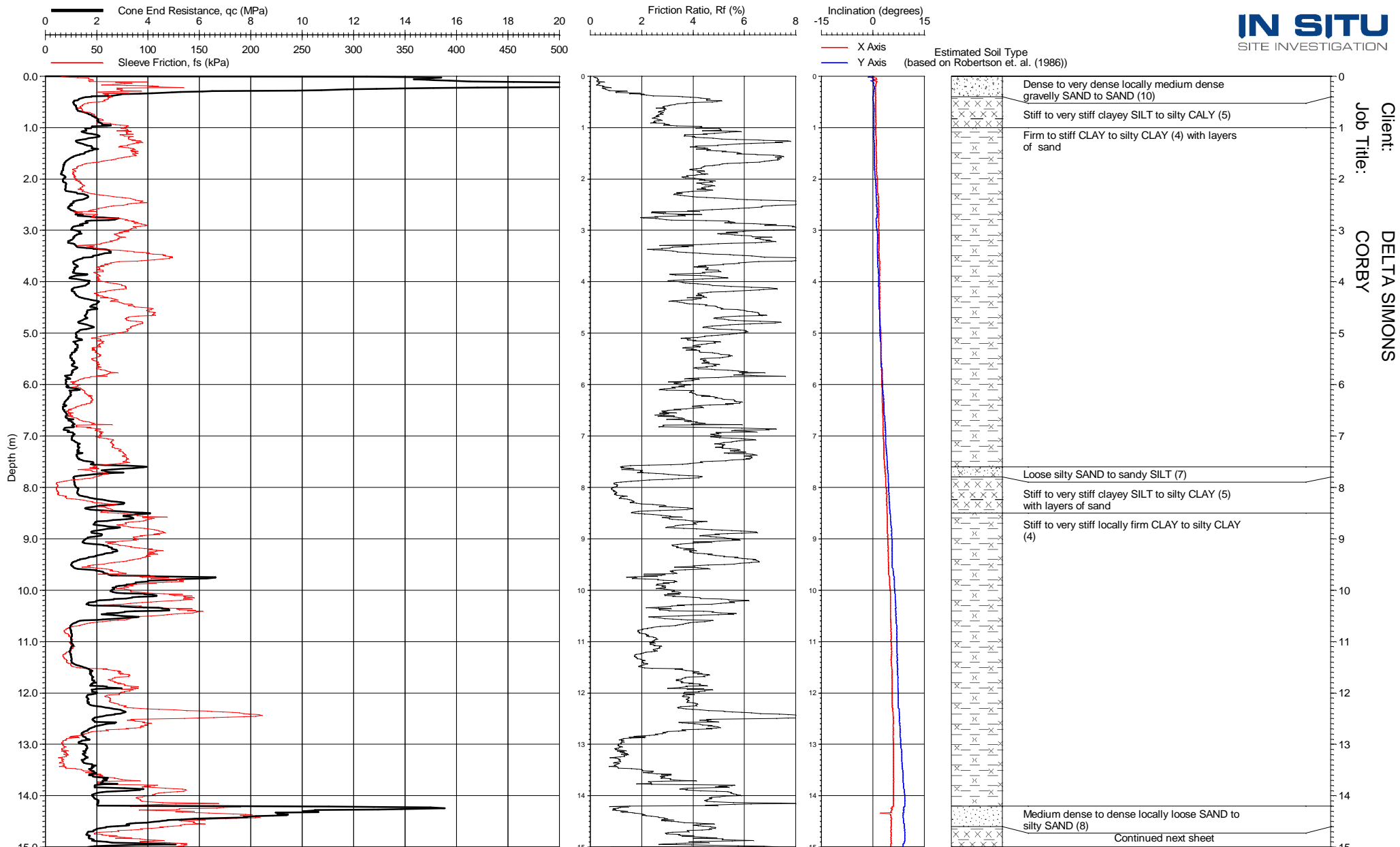
Location: Corby
Coordinates: 490907.410E - 290883.580N
Ground Level: 106.75 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 104
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 279 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 237 mV	Pore Pressure Difference: -3 %
X Inclinator Zero Pre: 2556 mV	X Inclinator Zero Post: 2563 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2556 mV	Y Inclinator Zero Post: 2563 mV	Y Inclinator Difference: 0 %

PIEZO CONE PENETRATION TEST
CPT 104
insitusi.com
Form: CPT0001



Client: DELTA SIMONS
Job Title: CORBY

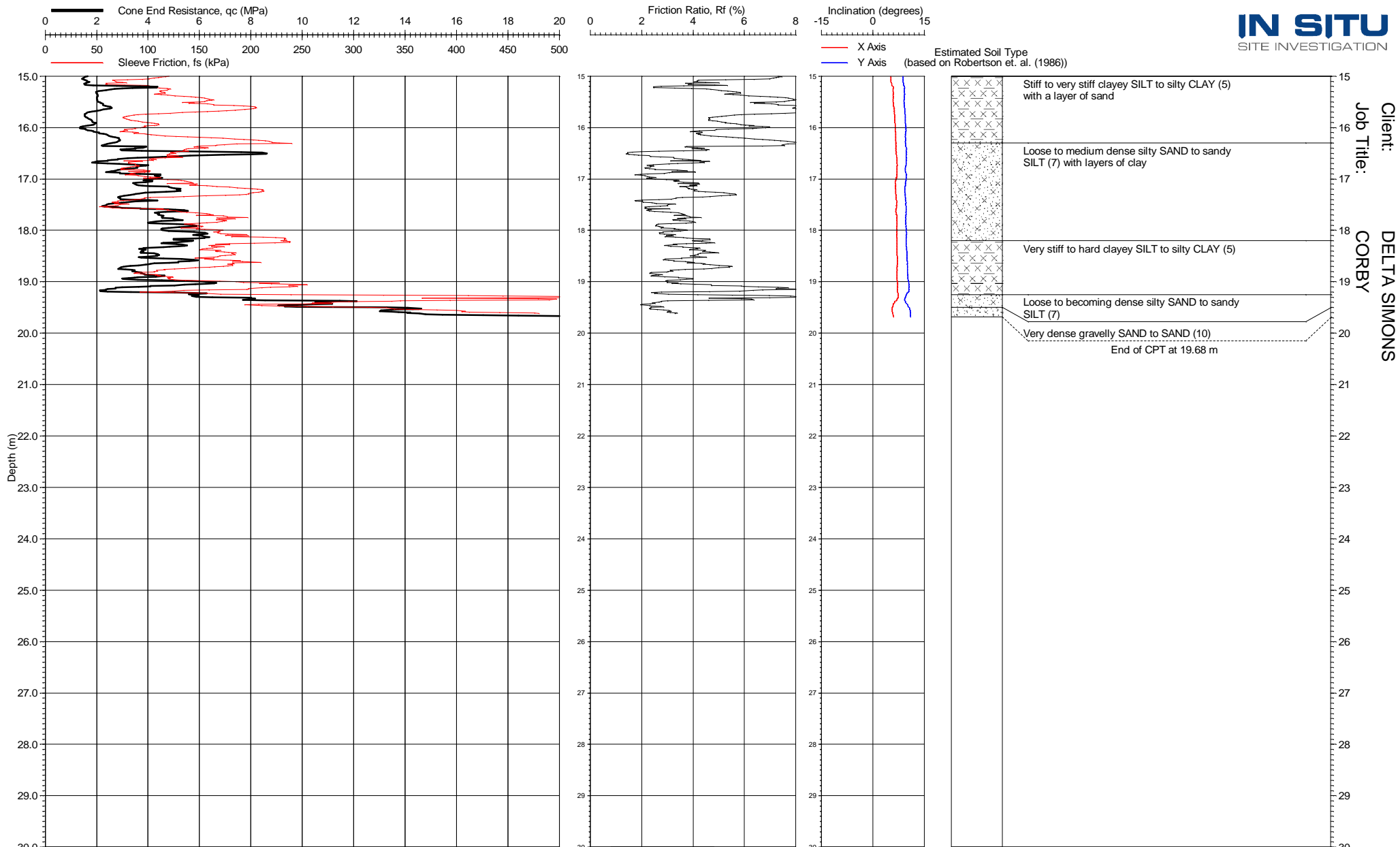
Location: Corby
Coordinates: 490910.010E - 290839.530N
Ground Level: 105.95 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 105
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 258 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 232 mV	Pore Pressure Zero Post: 235 mV	Pore Pressure Difference: -1 %
X Inclinator Zero Pre: 2548 mV	X Inclinator Zero Post: 2533 mV	X Inclinator Difference: 1 %
Y Inclinator Zero Pre: 2548 mV	Y Inclinator Zero Post: 2533 mV	Y Inclinator Difference: 1 %

PIEZO CONE PENETRATION TEST
CPT 105
insitusi.com
Form: CPT0001



Client: DELTA SIMONS
Job Title: CORBY

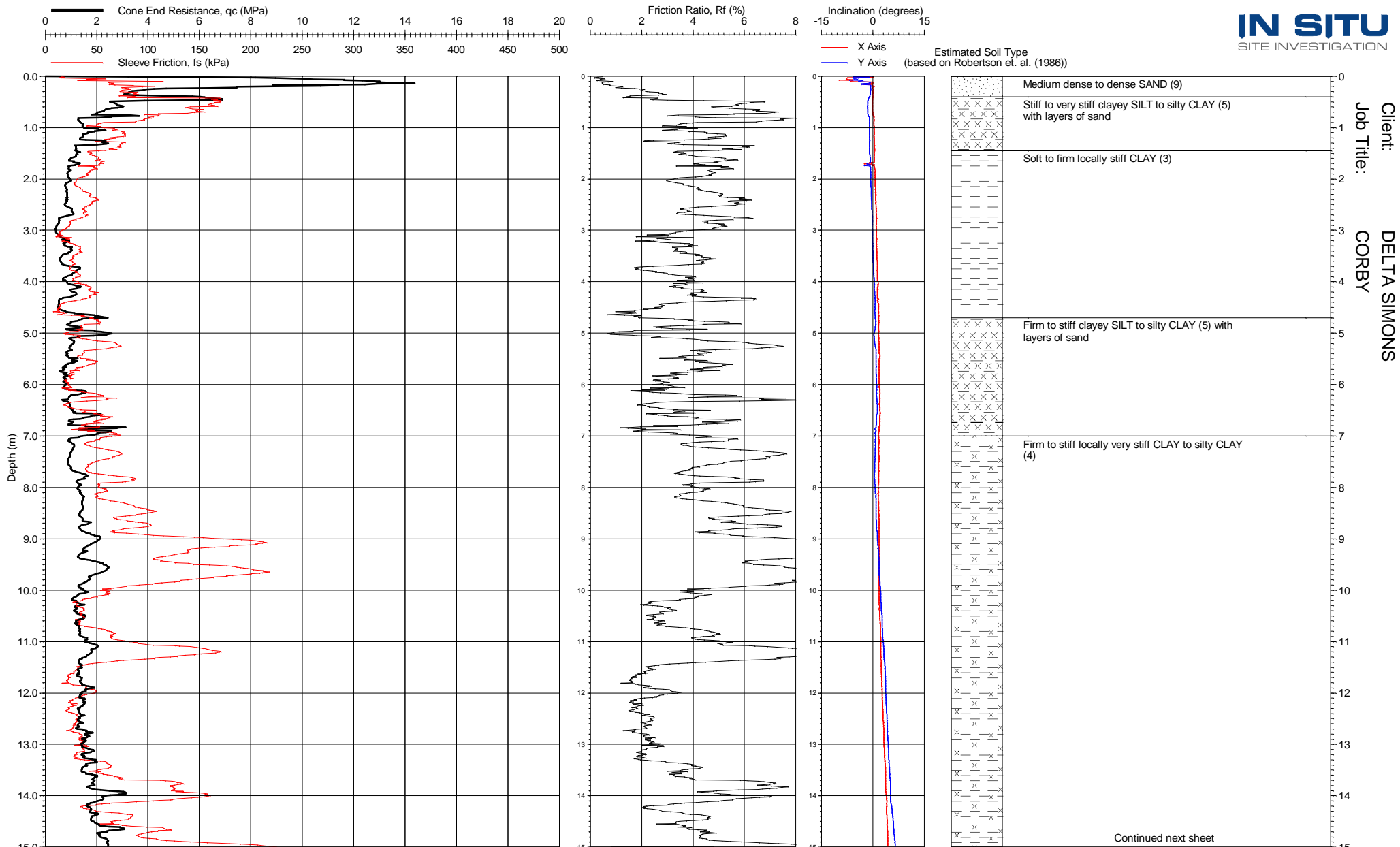
Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 258 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 232 mV	Pore Pressure Zero Post: 235 mV	Pore Pressure Difference: -1 %
X Inclinator Zero Pre: 2548 mV	X Inclinator Zero Post: 2533 mV	X Inclinator Difference: 1 %
Y Inclinator Zero Pre: 2548 mV	Y Inclinator Zero Post: 2533 mV	Y Inclinator Difference: 1 %

PIEZO CONE PENETRATION TEST
CPT 105
 insitusi.com
 Form: CPT0001

Remarks: Test refused on total pressure.



Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490856.190E - 290812.940N
Ground Level: 106.48 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

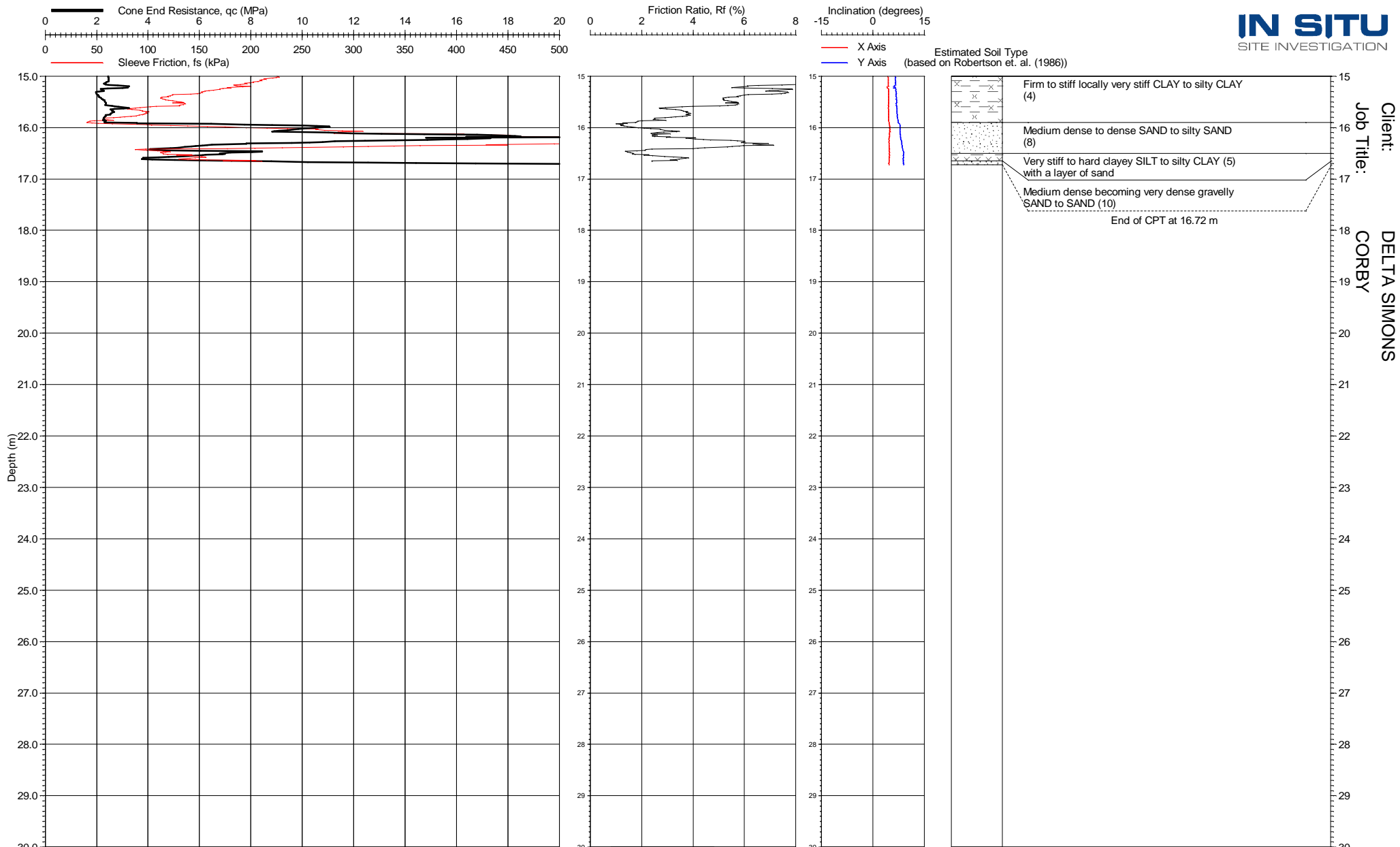
Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 106
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 257 mV	Tip Zero Post: 260 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 284 mV	Sleeve Zero Post: 284 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 249 mV	Pore Pressure Difference: -8 %
X Inclinator Zero Pre: 2437 mV	X Inclinator Zero Post: 2459 mV	X Inclinator Difference: -1 %
Y Inclinator Zero Pre: 2437 mV	Y Inclinator Zero Post: 2459 mV	Y Inclinator Difference: -1 %

Continued next sheet

PIEZO CONE PENETRATION TEST
CPT 106
insitusi.com
Form: CPT0001

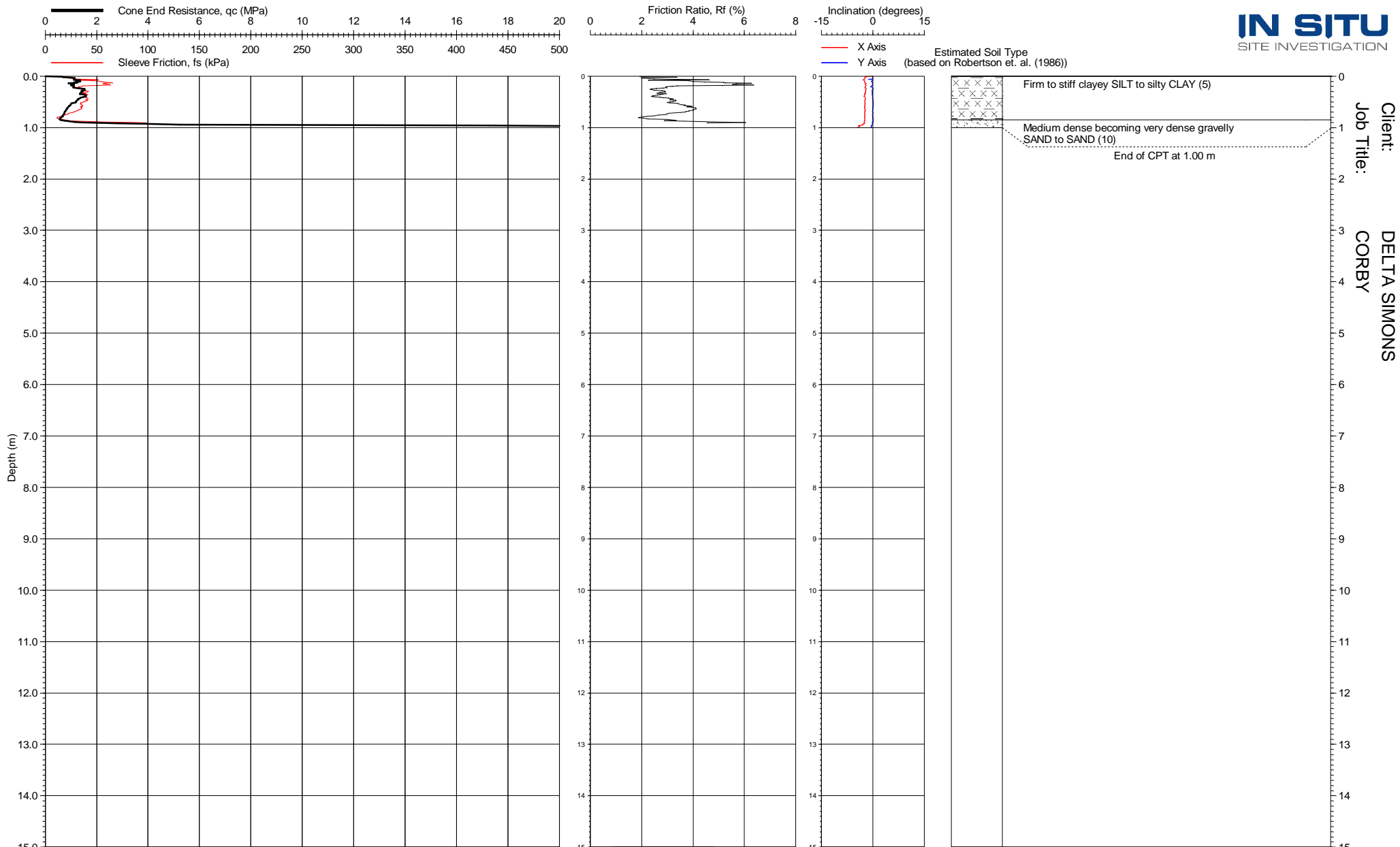


Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490856.190E - 290812.940N
Ground Level: 106.48 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 106
Checked By: *[Signature]*

PIEZO CONE PENETRATION TEST
CPT 106
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Form: CPT0001



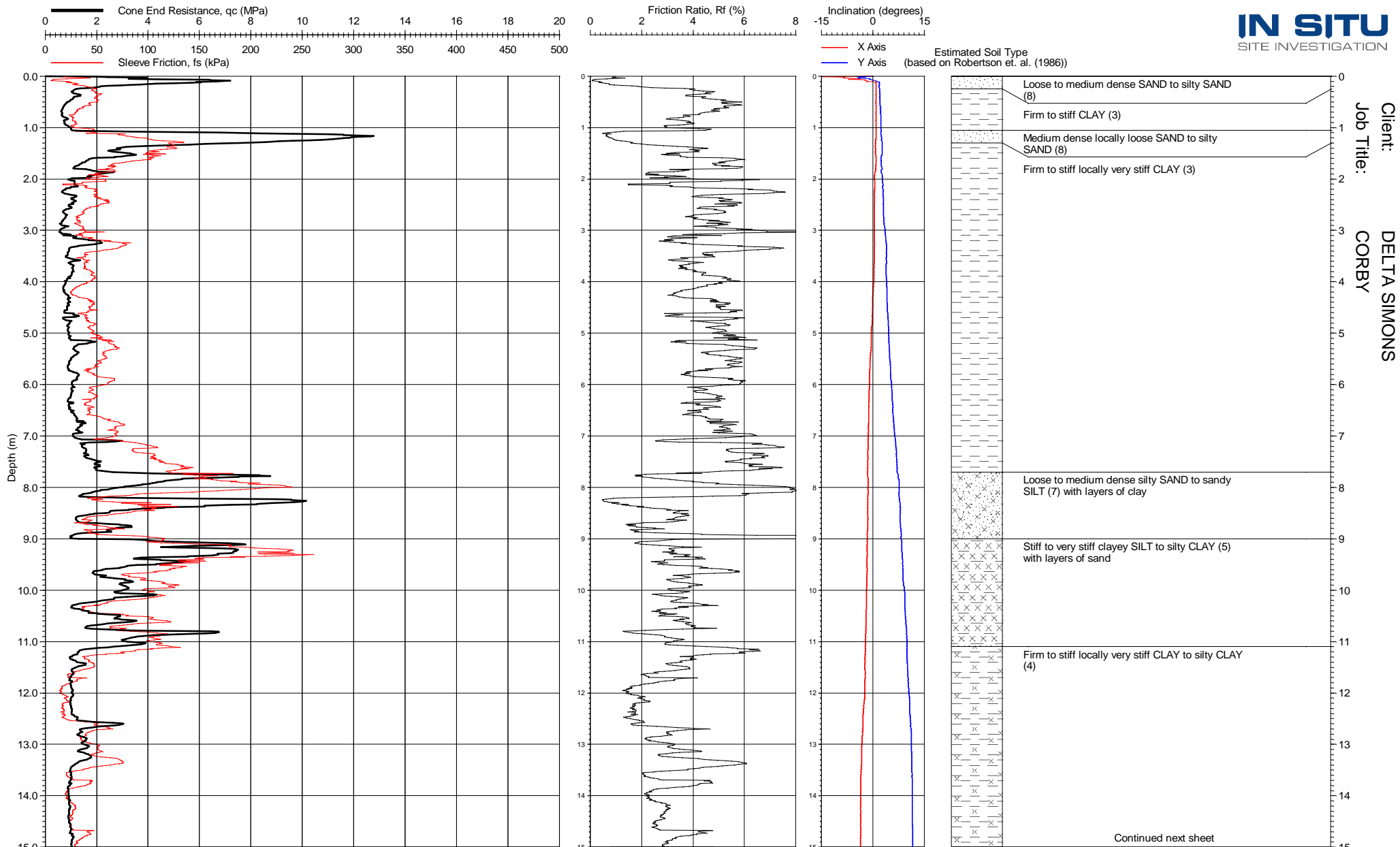
Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107
 Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 281 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 229 mV	Pore Pressure Zero Post: 229 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2341 mV	X Inclinator Zero Post: 2333 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2341 mV	Y Inclinator Zero Post: 2333 mV	Y Inclinator Difference: 0 %

PIEZO CONE PENETRATION TEST
CPT 107
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Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490959.570E - 290902.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

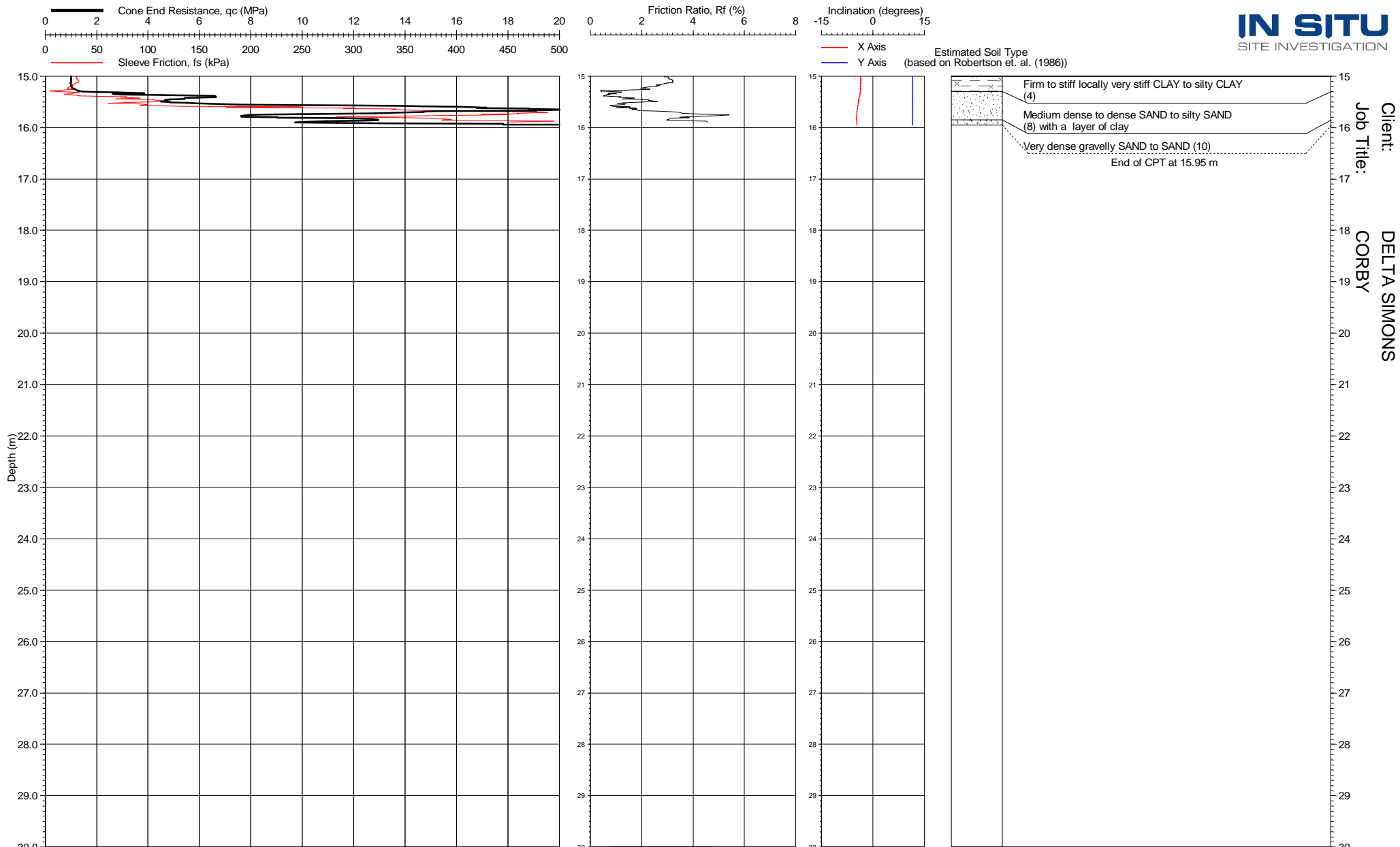
Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 107A
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 280 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 230 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2285 mV	X Inclinator Zero Post: 2514 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2285 mV	Y Inclinator Zero Post: 2514 mV	Y Inclinator Difference: -9 %

Continued next sheet

PIEZO CONE PENETRATION TEST
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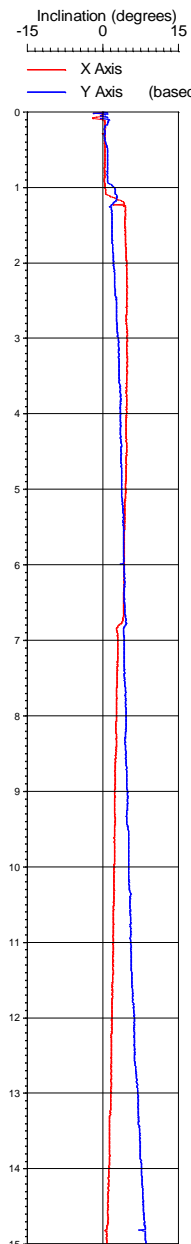
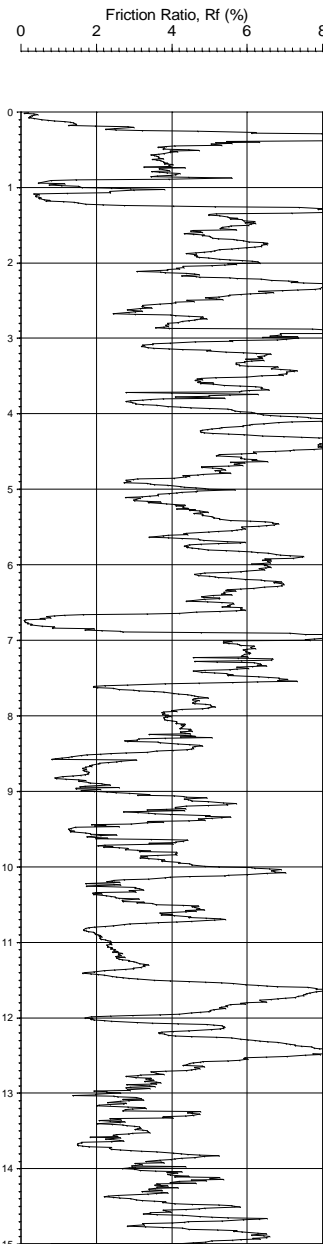
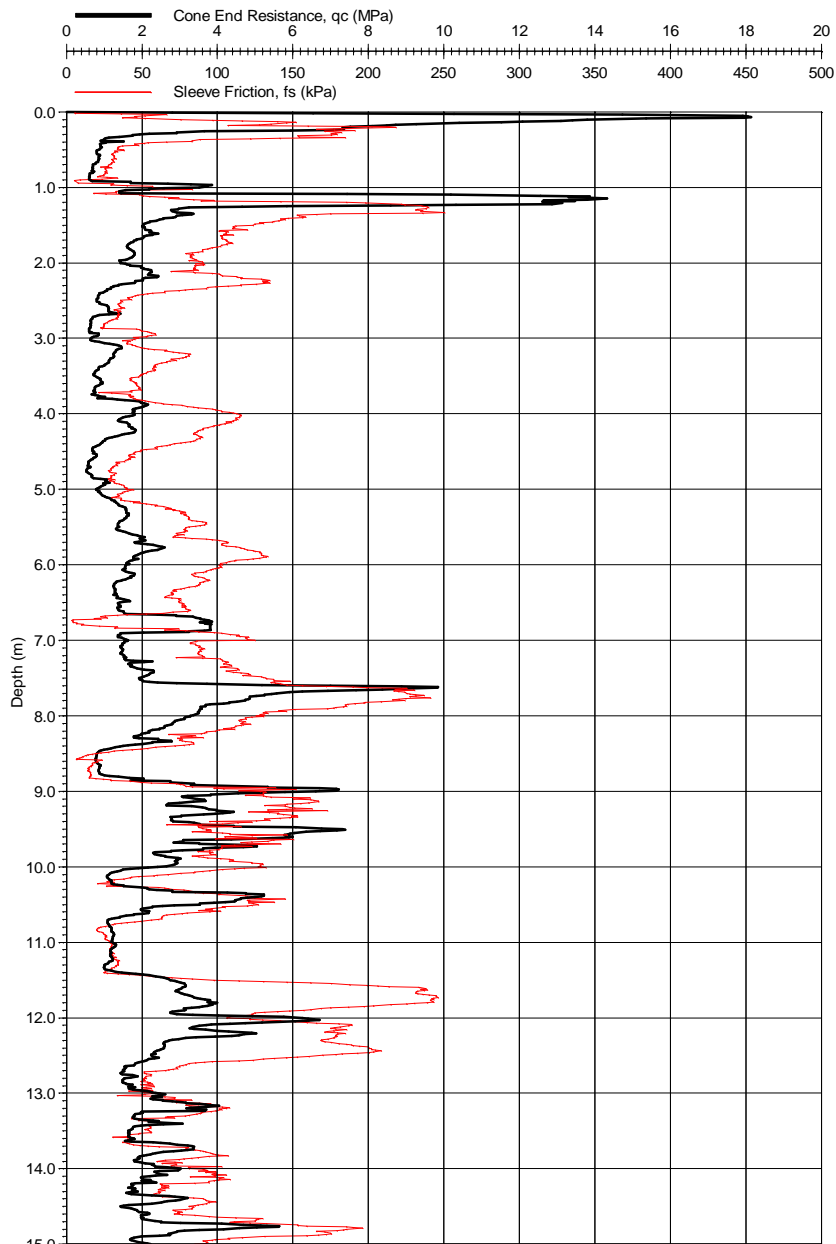
Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

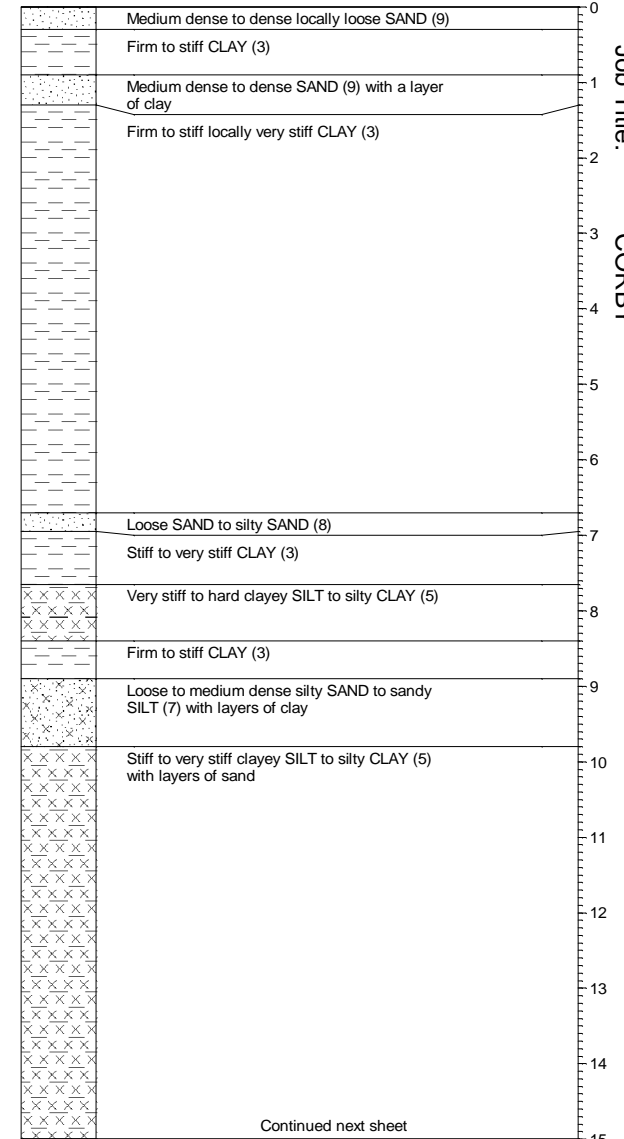
PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 280 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 230 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2285 mV	X Inclinator Zero Post: 2514 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2285 mV	Y Inclinator Zero Post: 2514 mV	Y Inclinator Difference: -9 %

PIEZO CONE PENETRATION TEST
CPT 107A
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 Form: CPT0001



Estimated Soil Type
(based on Robertson et. al. (1986))



Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490947.750E - 290902.420N
Ground Level: 106.55 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

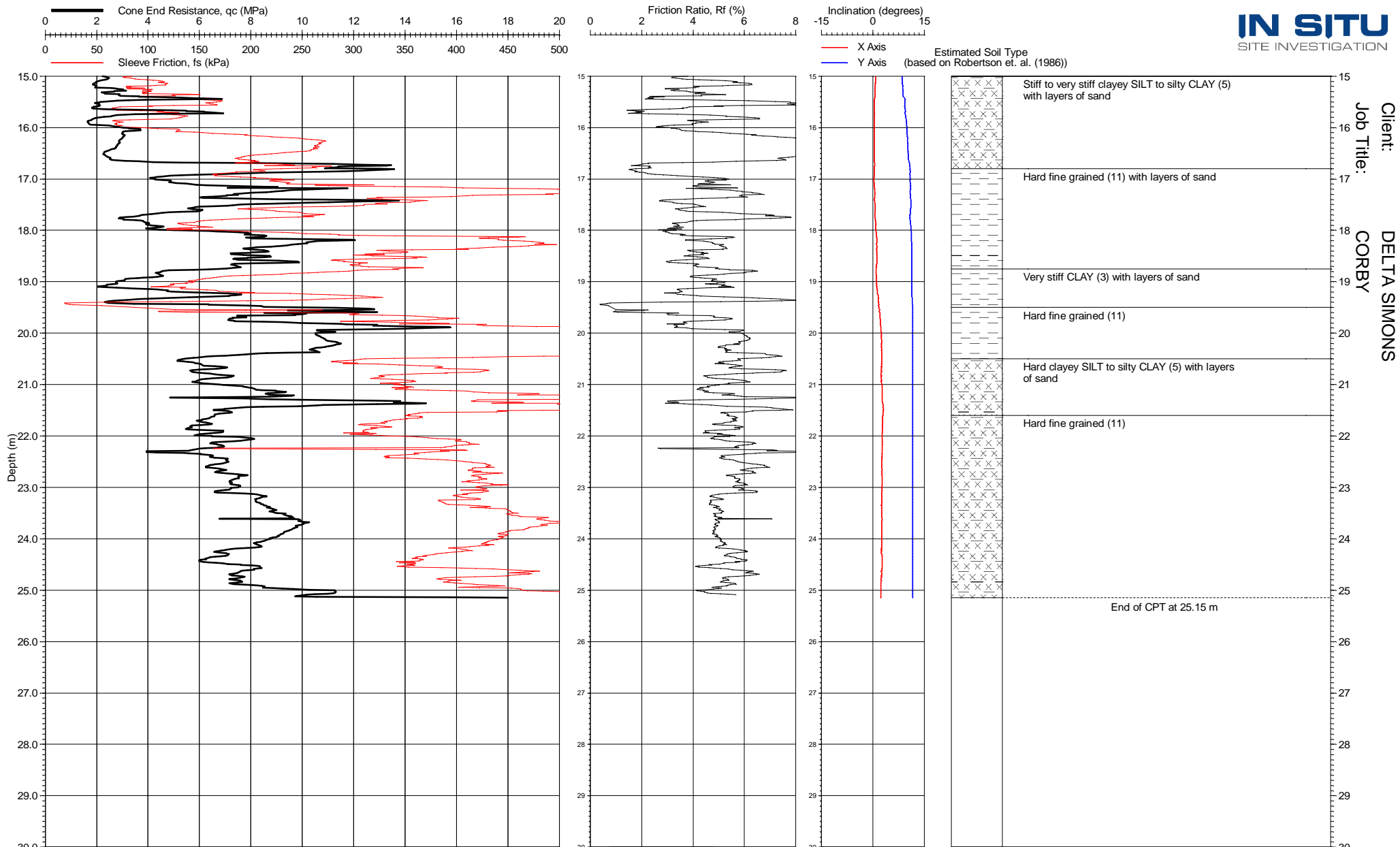
Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 108
Checked By: *[Signature]*

PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 262 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 280 mV	Sleeve Zero Post: 287 mV	Sleeve Zero Difference: -2 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 231 mV	Pore Pressure Difference: 1 %
X Inclinator Zero Pre: 2411 mV	X Inclinator Zero Post: 2463 mV	X Inclinator Difference: -2 %
Y Inclinator Zero Pre: 2411 mV	Y Inclinator Zero Post: 2463 mV	Y Inclinator Difference: -2 %

Continued next sheet

PIEZO CONE PENETRATION TEST
CPT 108
insitusi.com
Form: CPT0001



Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

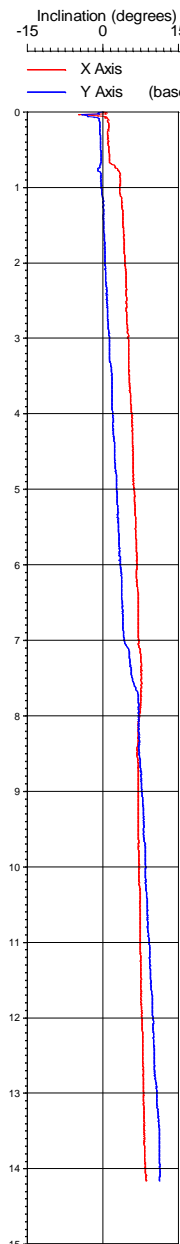
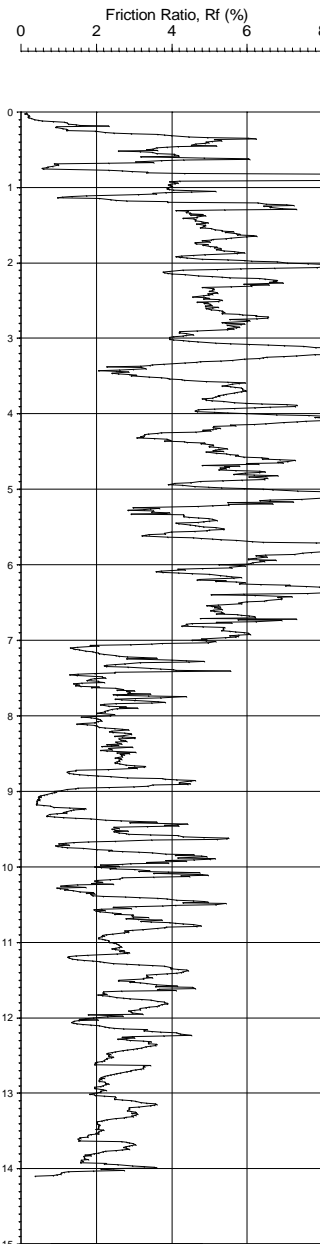
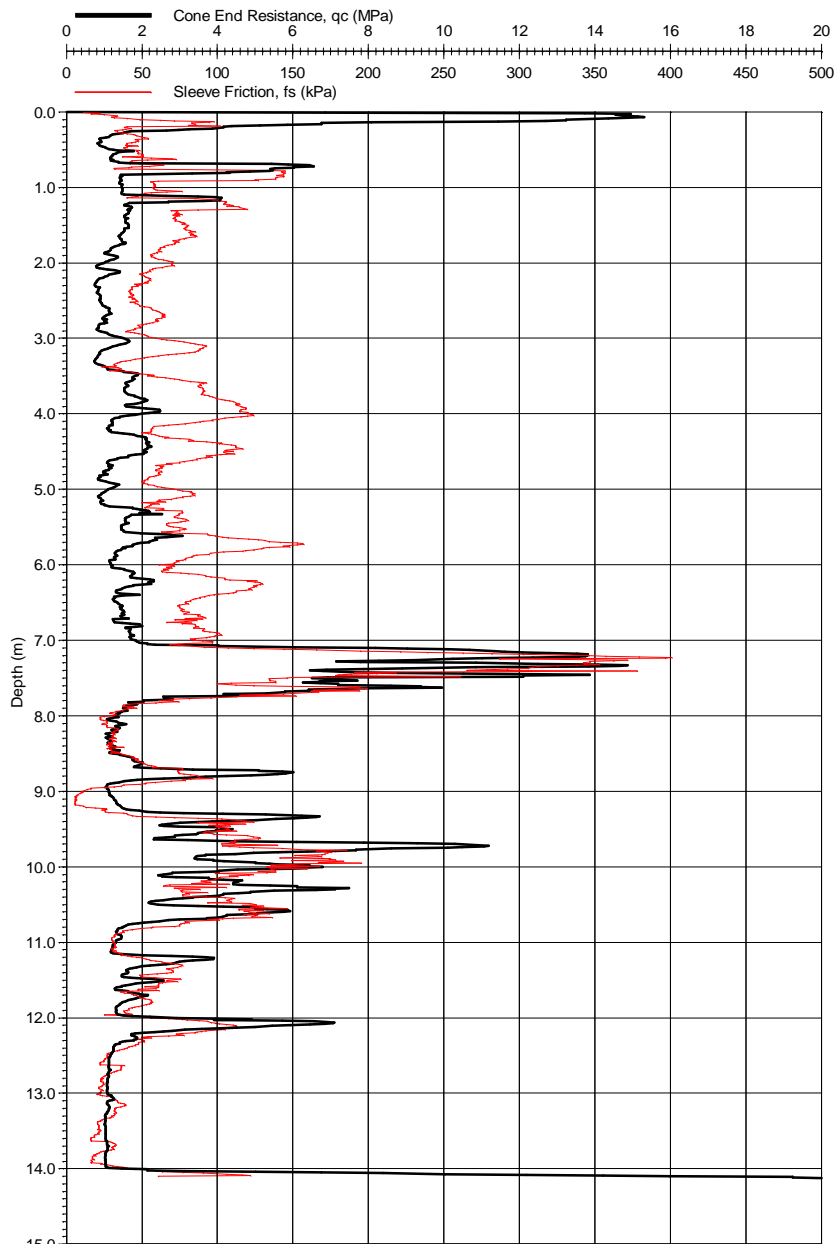
PCPT Zero Values

Tip Zero Pre: 259 mV	Tip Zero Post: 262 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 280 mV	Sleeve Zero Post: 287 mV	Sleeve Zero Difference: -2 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 231 mV	Pore Pressure Difference: 1 %
X Inclinator Zero Pre: 2411 mV	X Inclinator Zero Post: 2463 mV	X Inclinator Difference: -2 %
Y Inclinator Zero Pre: 2411 mV	Y Inclinator Zero Post: 2463 mV	Y Inclinator Difference: -2 %

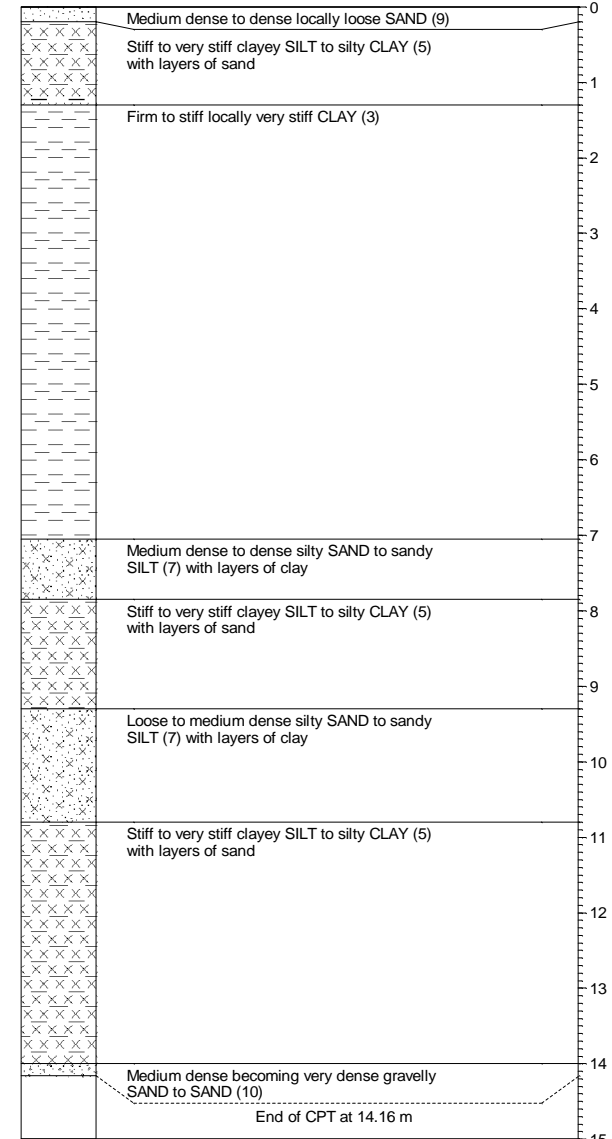
PIEZO CONE PENETRATION TEST
CPT 108
 insitusi.com
 Form: CPT0001

Remarks: Test refused on total pressure.

Client: DELTA SIMONS
Job Title: CORBY



Estimated Soil Type
(based on Robertson et. al. (1986))



Location: Corby
Coordinates: 490907.410E - 290883.580N
Ground Level: 106.75 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 109
Checked By: *[Signature]*

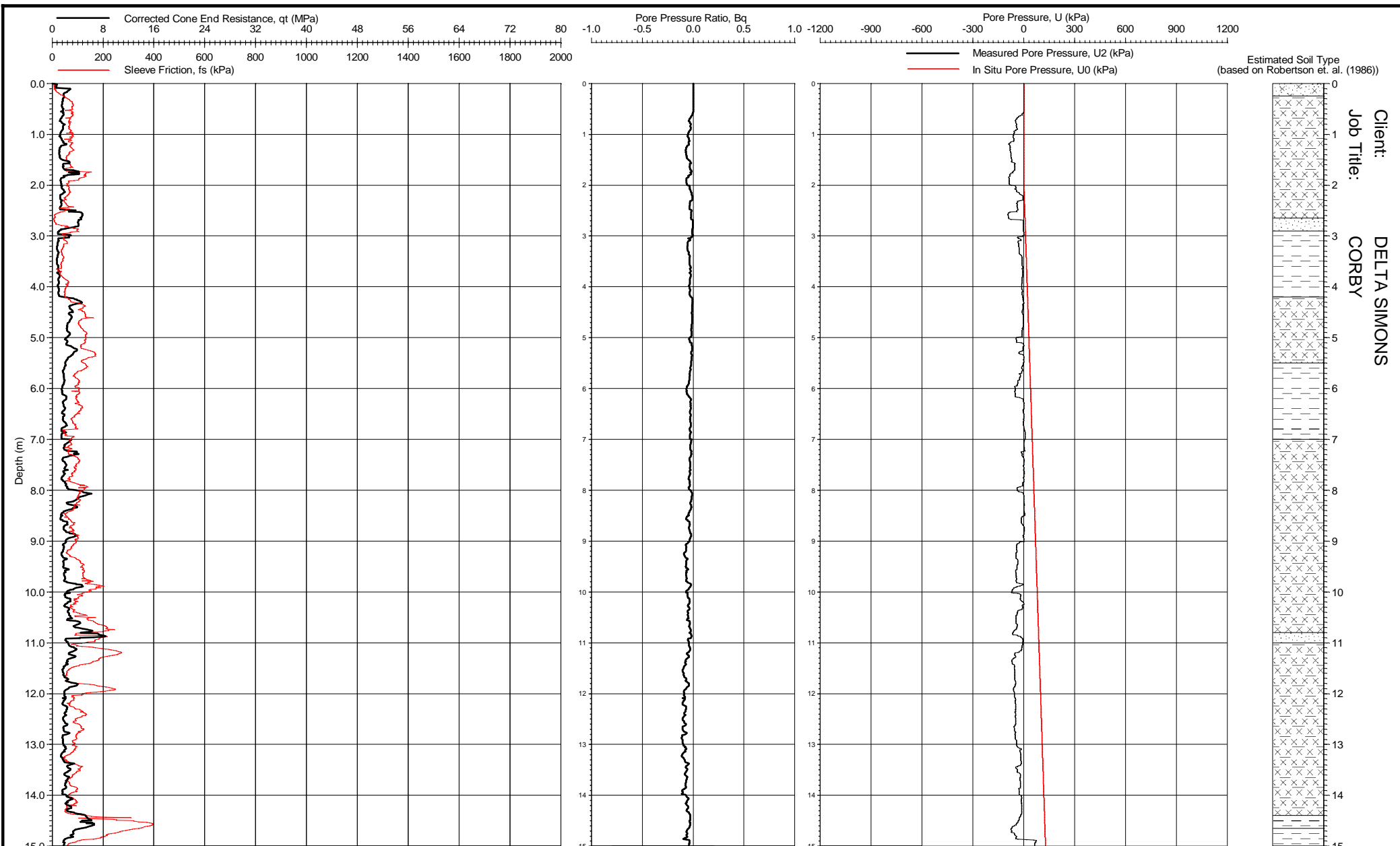
PCPT Zero Values		
Tip Zero Pre: 258 mV	Tip Zero Post: 264 mV	Tip Zero Difference: -2 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 283 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 237 mV	Pore Pressure Zero Post: 226 mV	Pore Pressure Difference: 5 %
X Inclinator Zero Pre: 2376 mV	X Inclinator Zero Post: 2493 mV	X Inclinator Difference: -5 %
Y Inclinator Zero Pre: 2376 mV	Y Inclinator Zero Post: 2493 mV	Y Inclinator Difference: -5 %

PIEZO CONE PENETRATION TEST

CPT 109

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Form: CPT0001



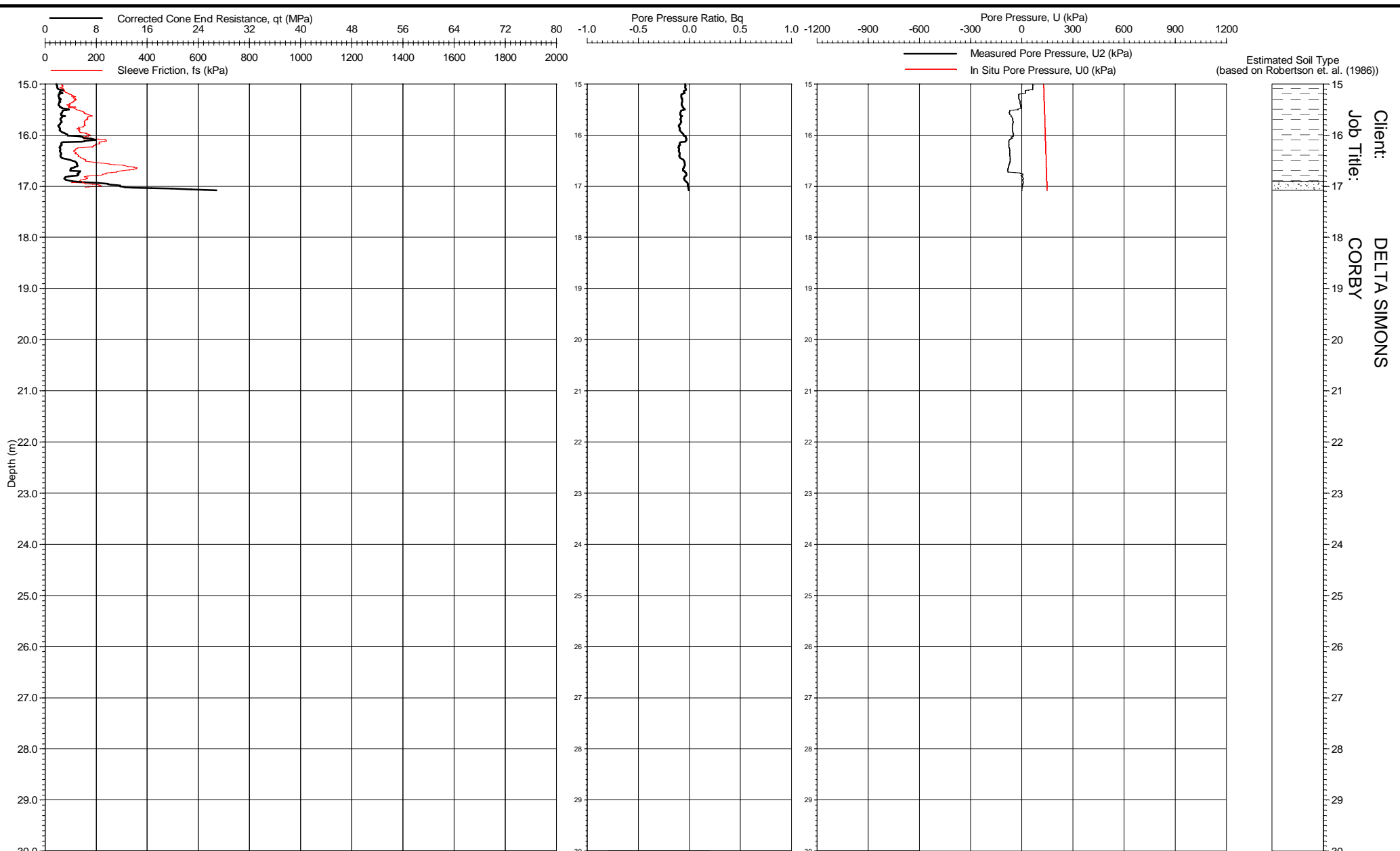
Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

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CPT 101

Client: DELTA SIMONS
 Job Title: CORBY



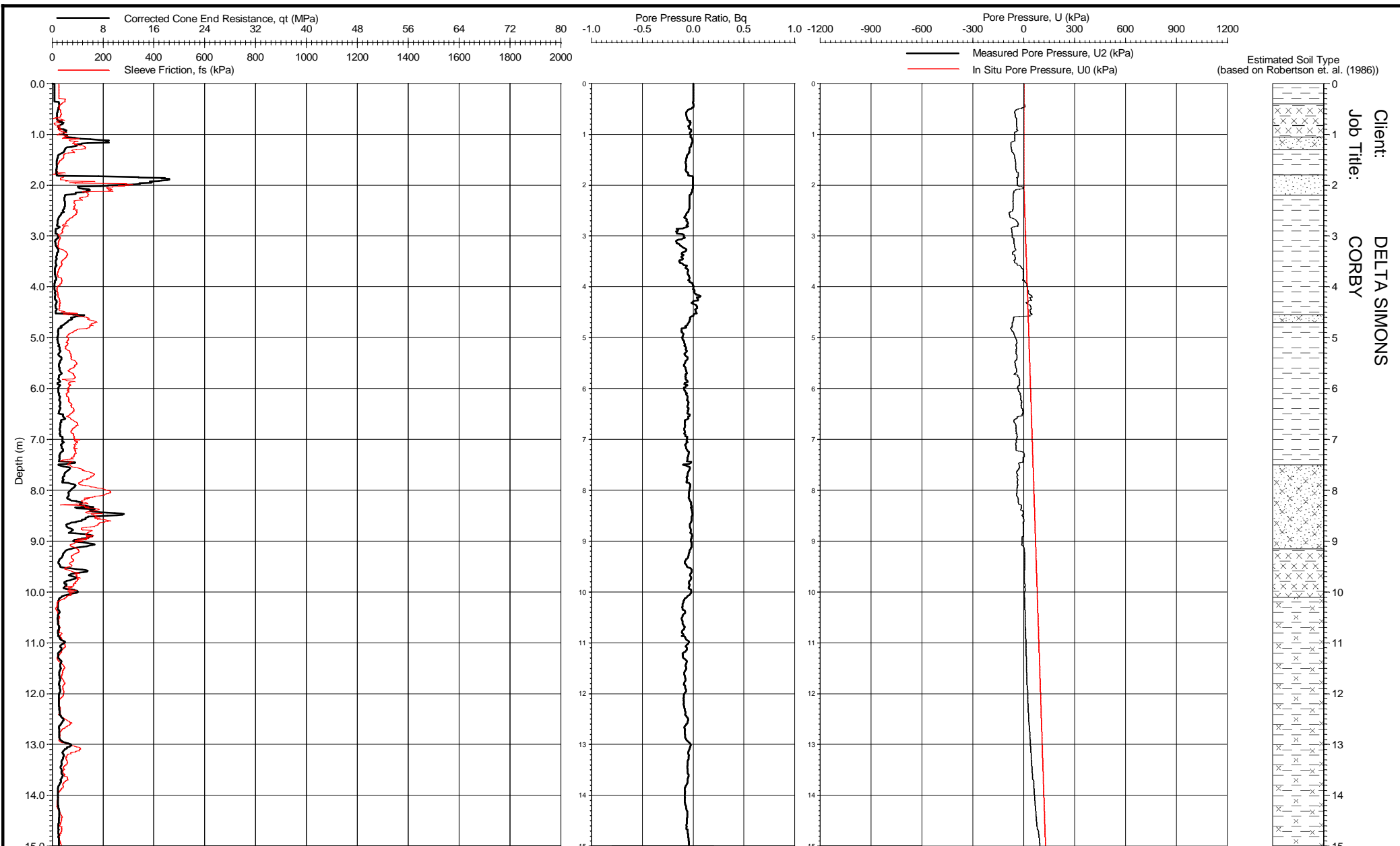
Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 101

Form: CPT0002



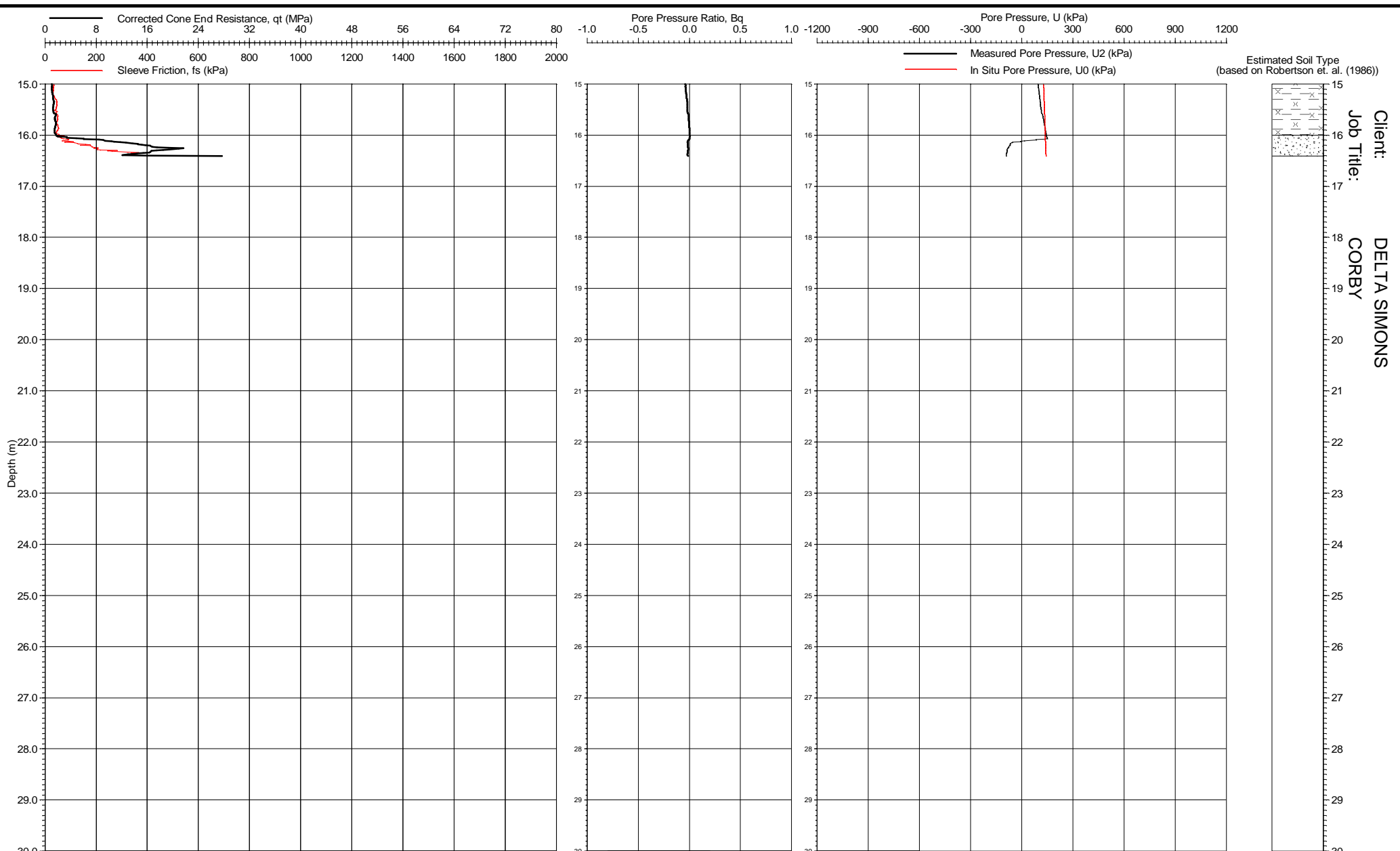
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 102



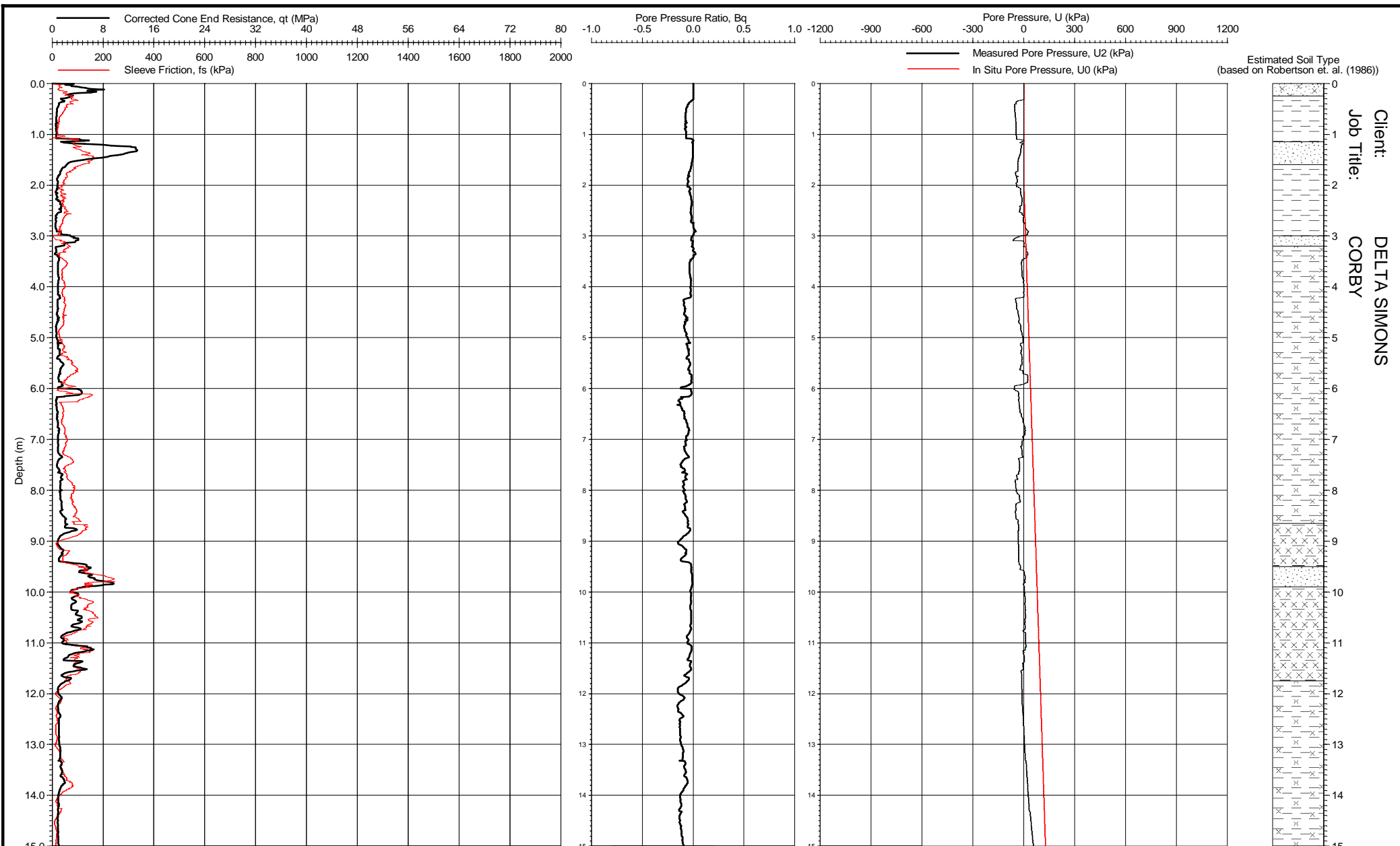
Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

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CPT 102

Client: DELTA SIMONS
 Job Title: CORBY



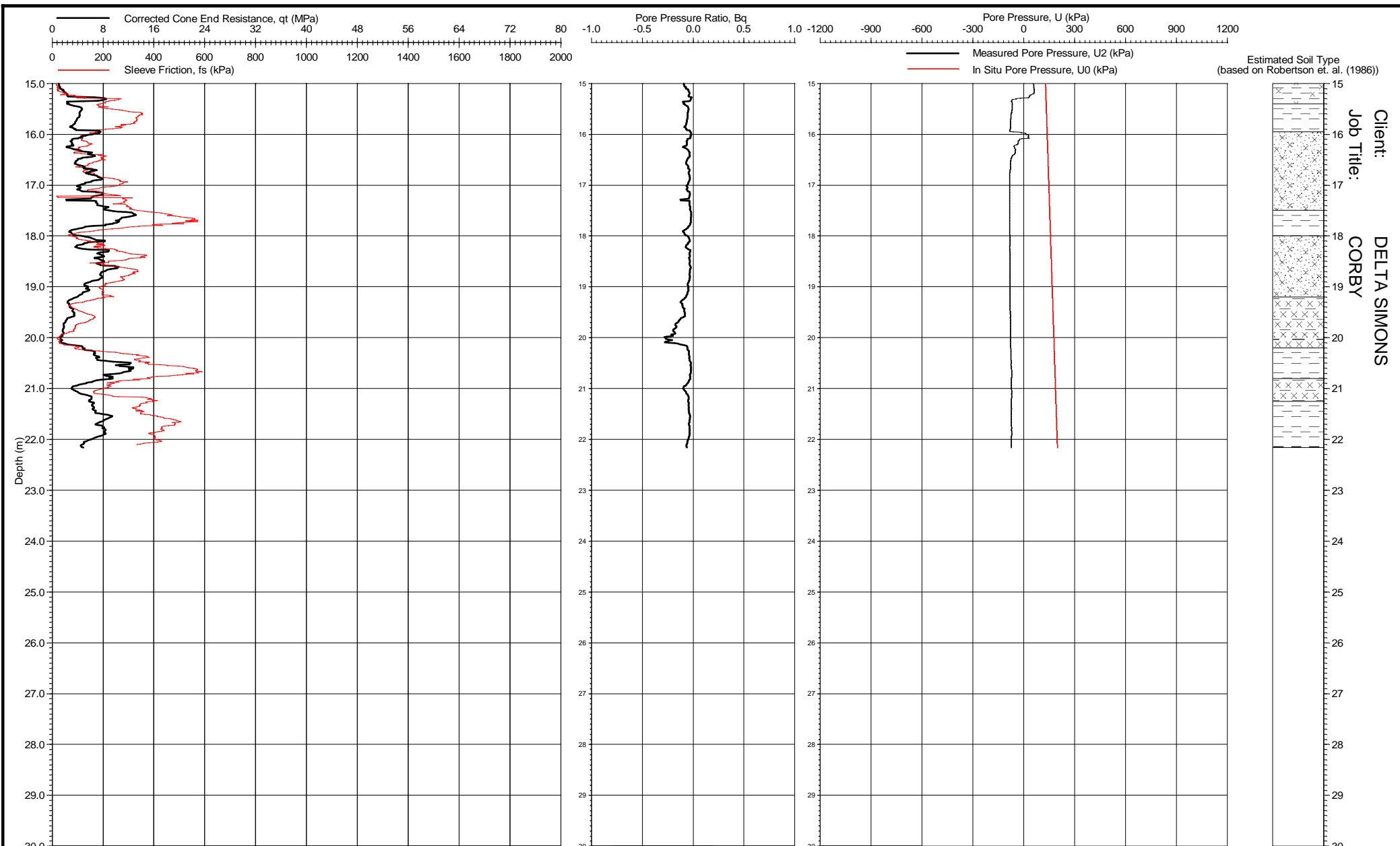
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 103



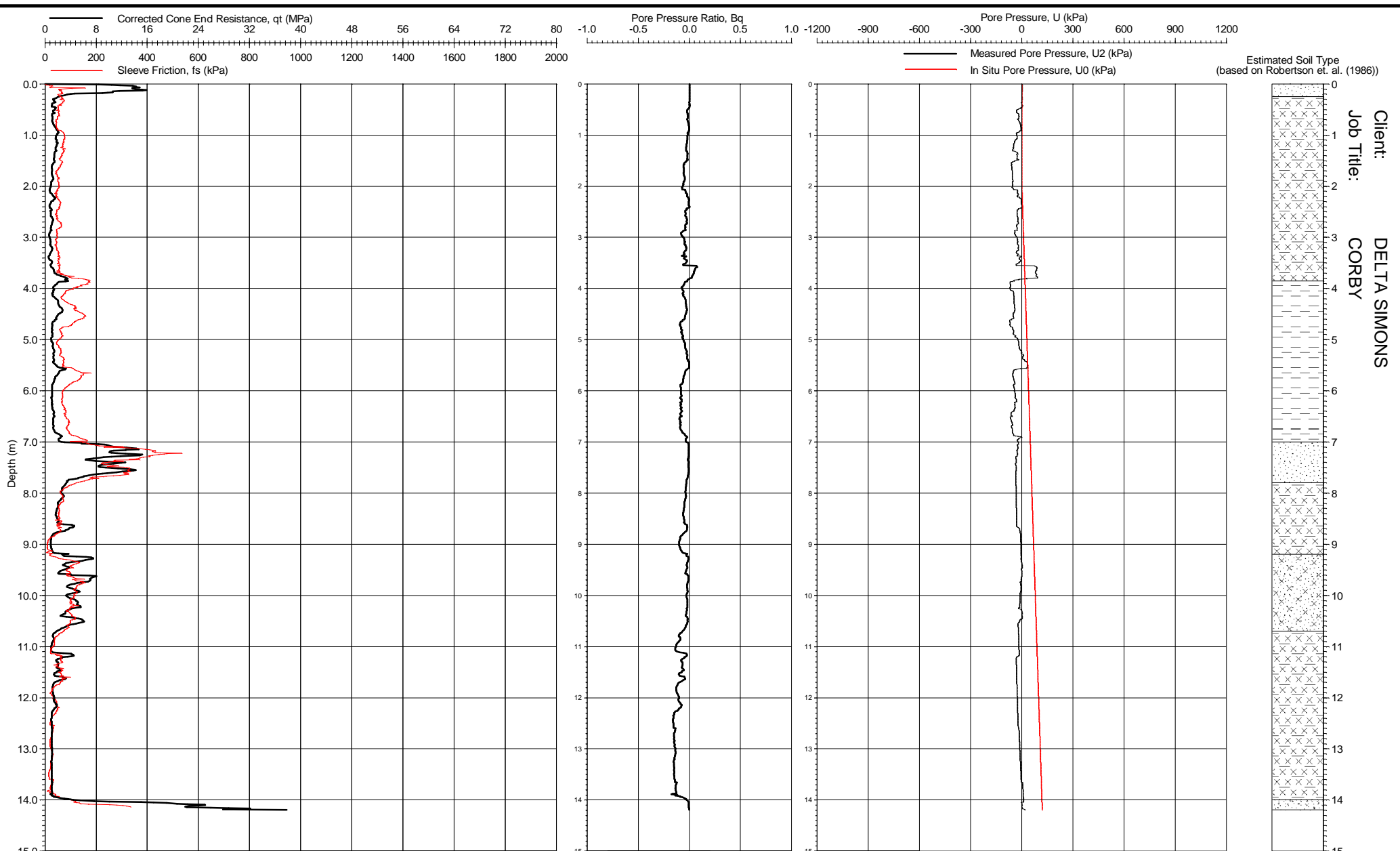
Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 103

Form: CPT0002



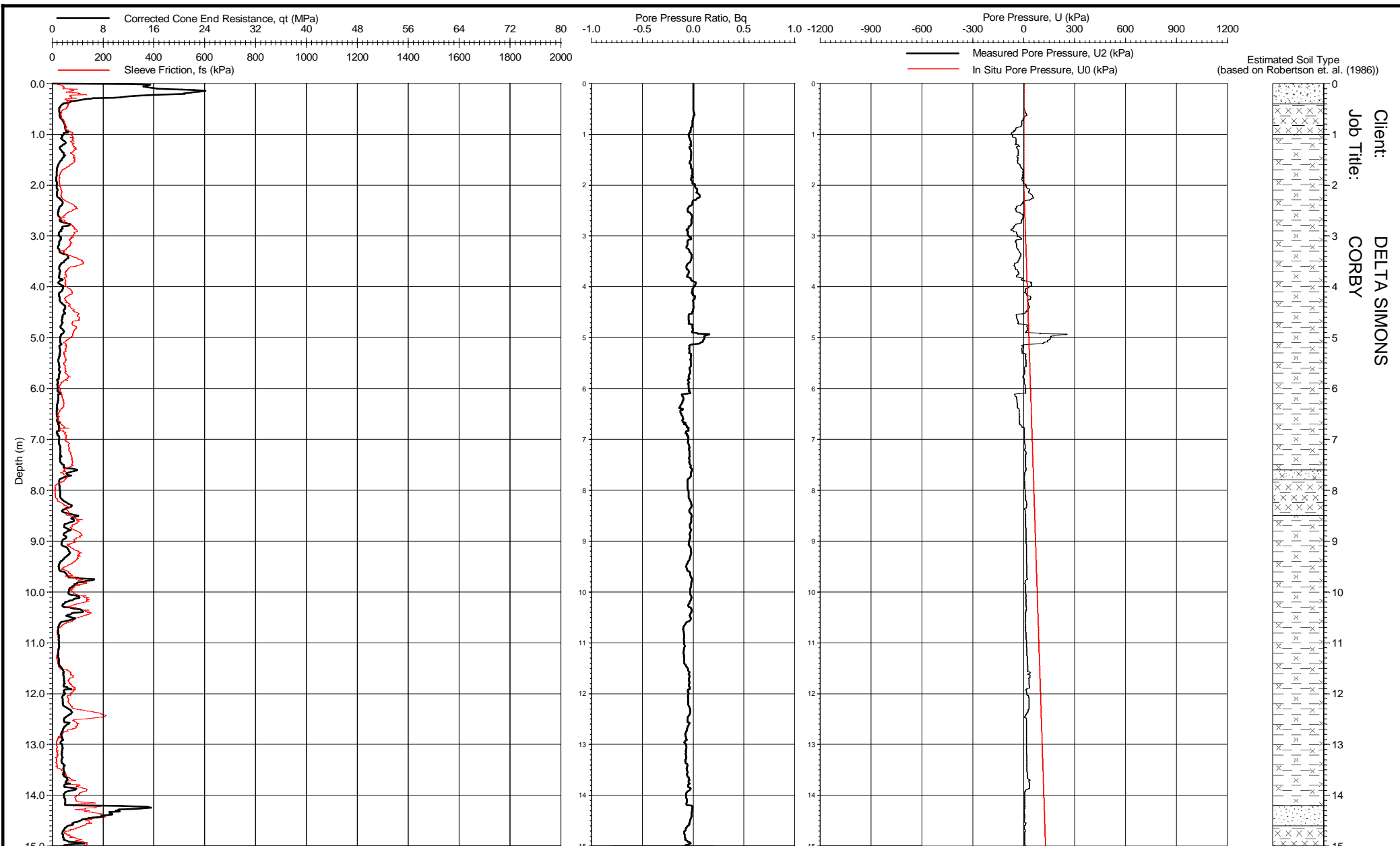
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 104
 Checked By: *[Signature]*

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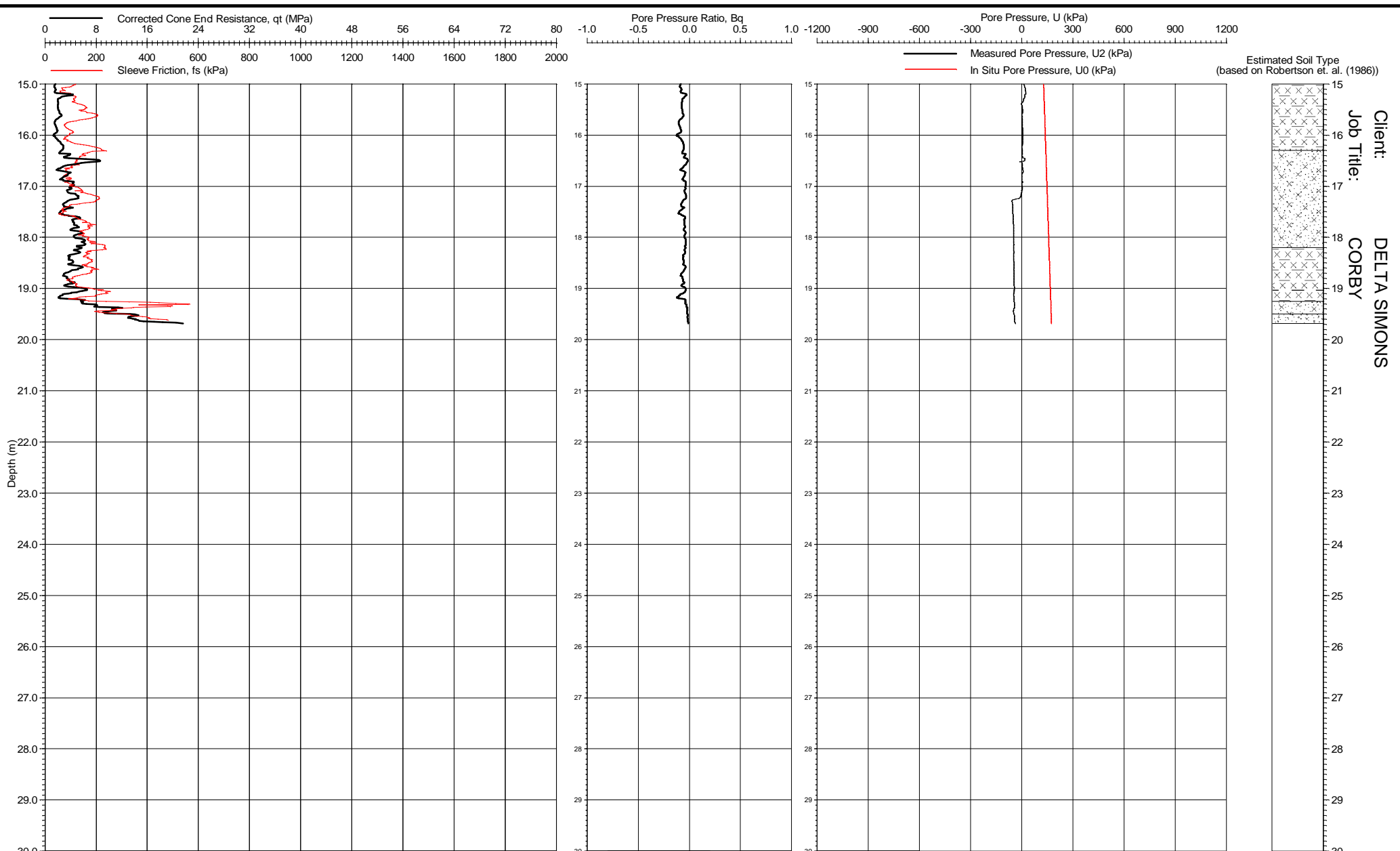


Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 105



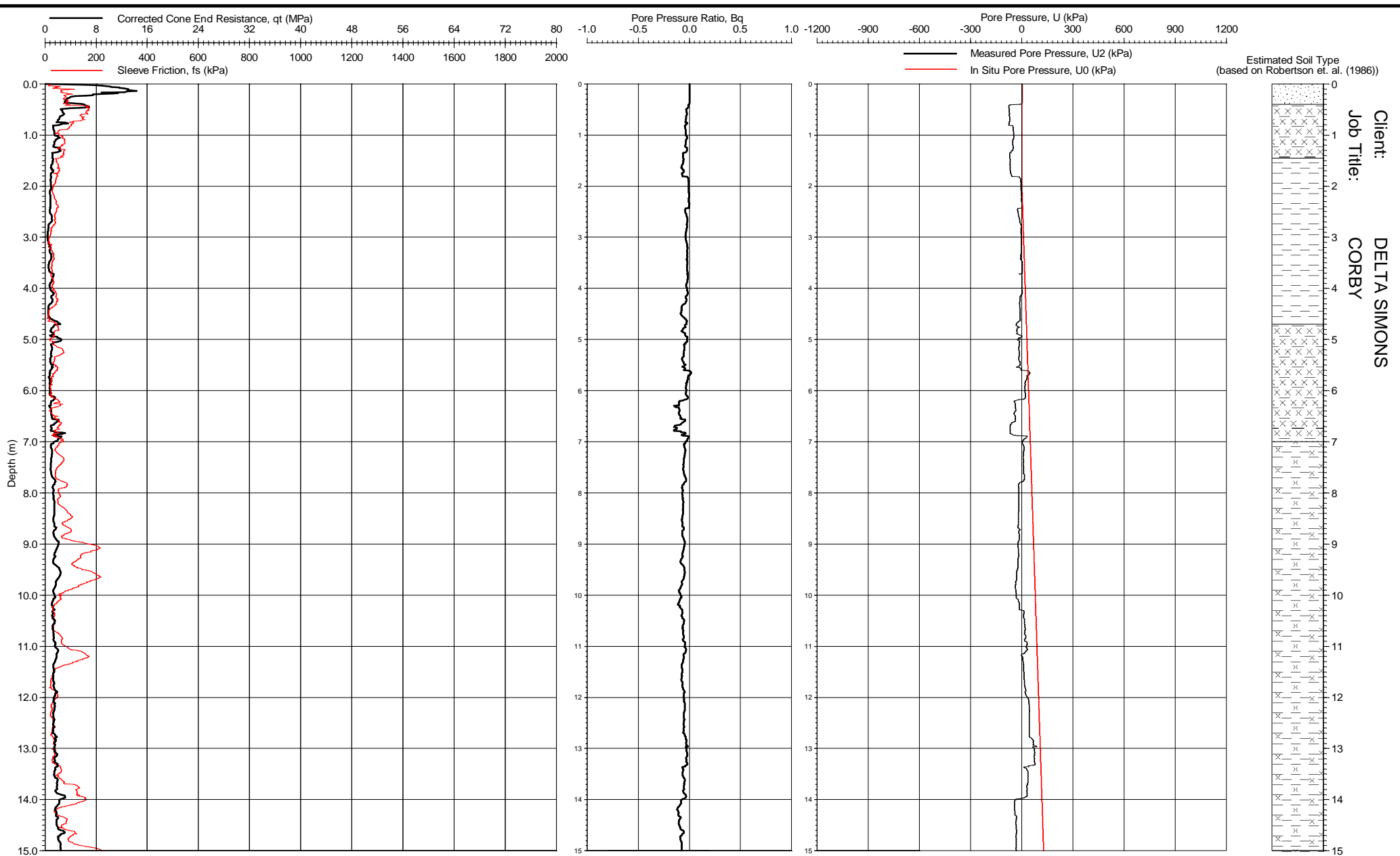
Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 105

Form: CPT0002



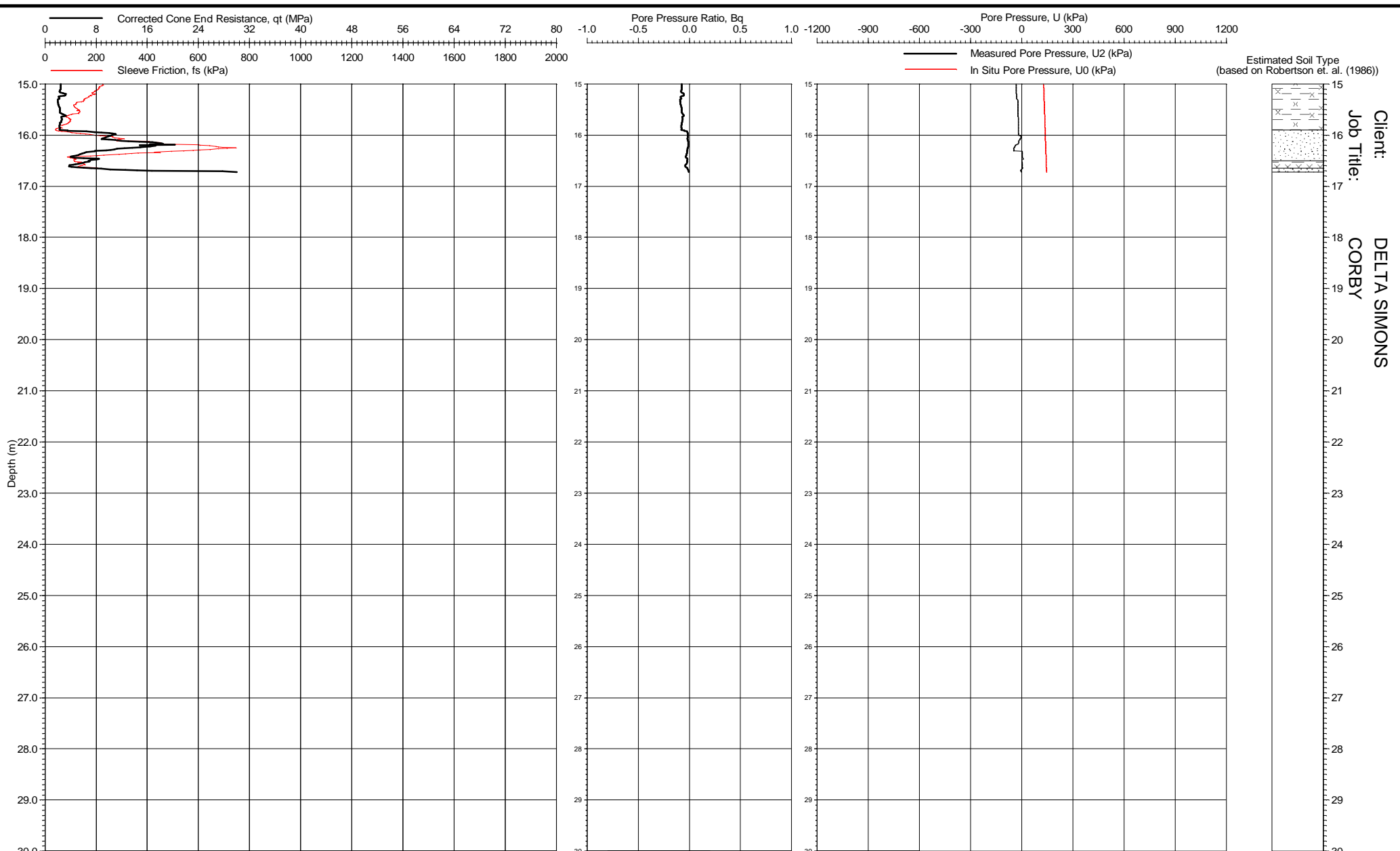
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 106



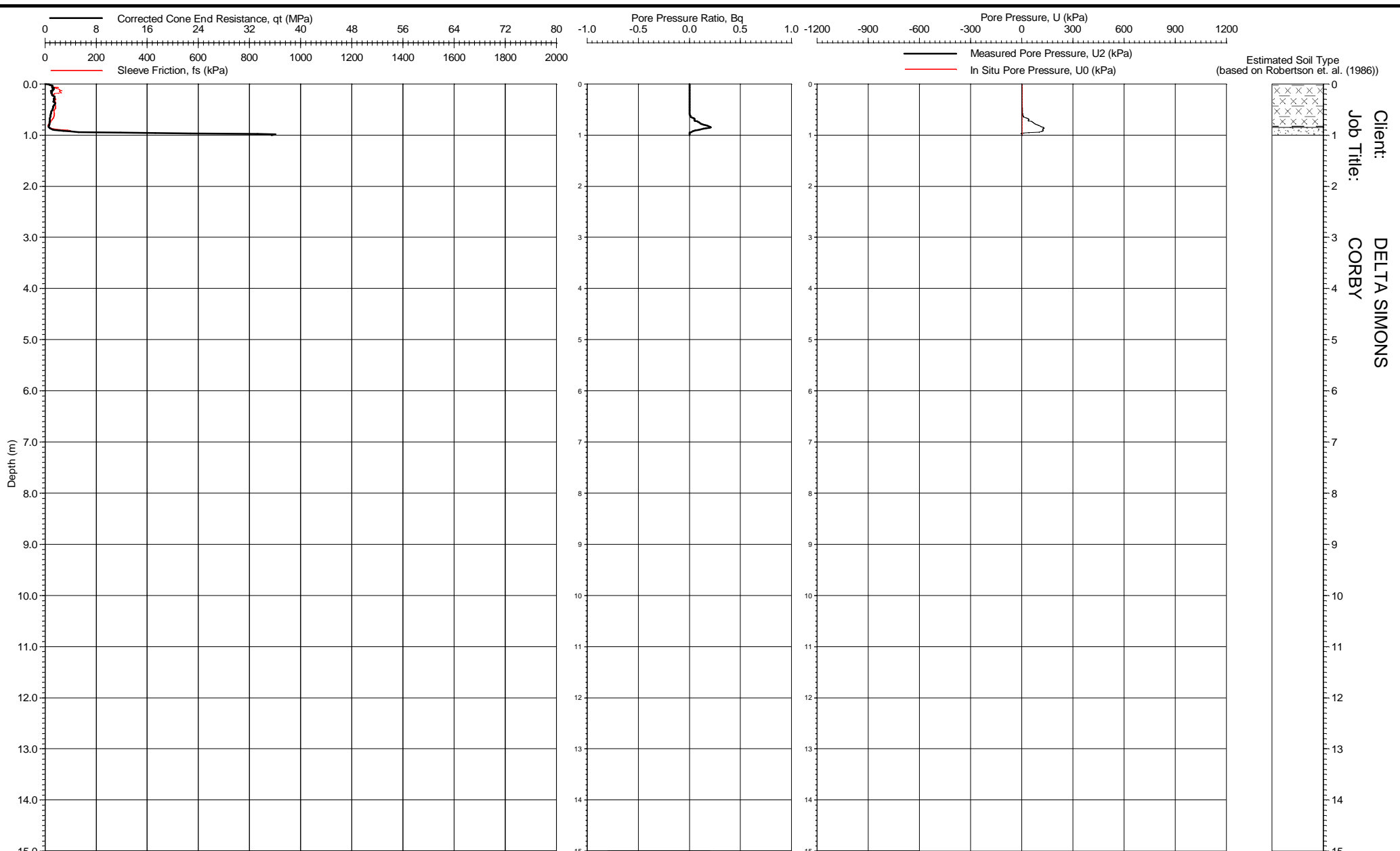
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

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CPT 106



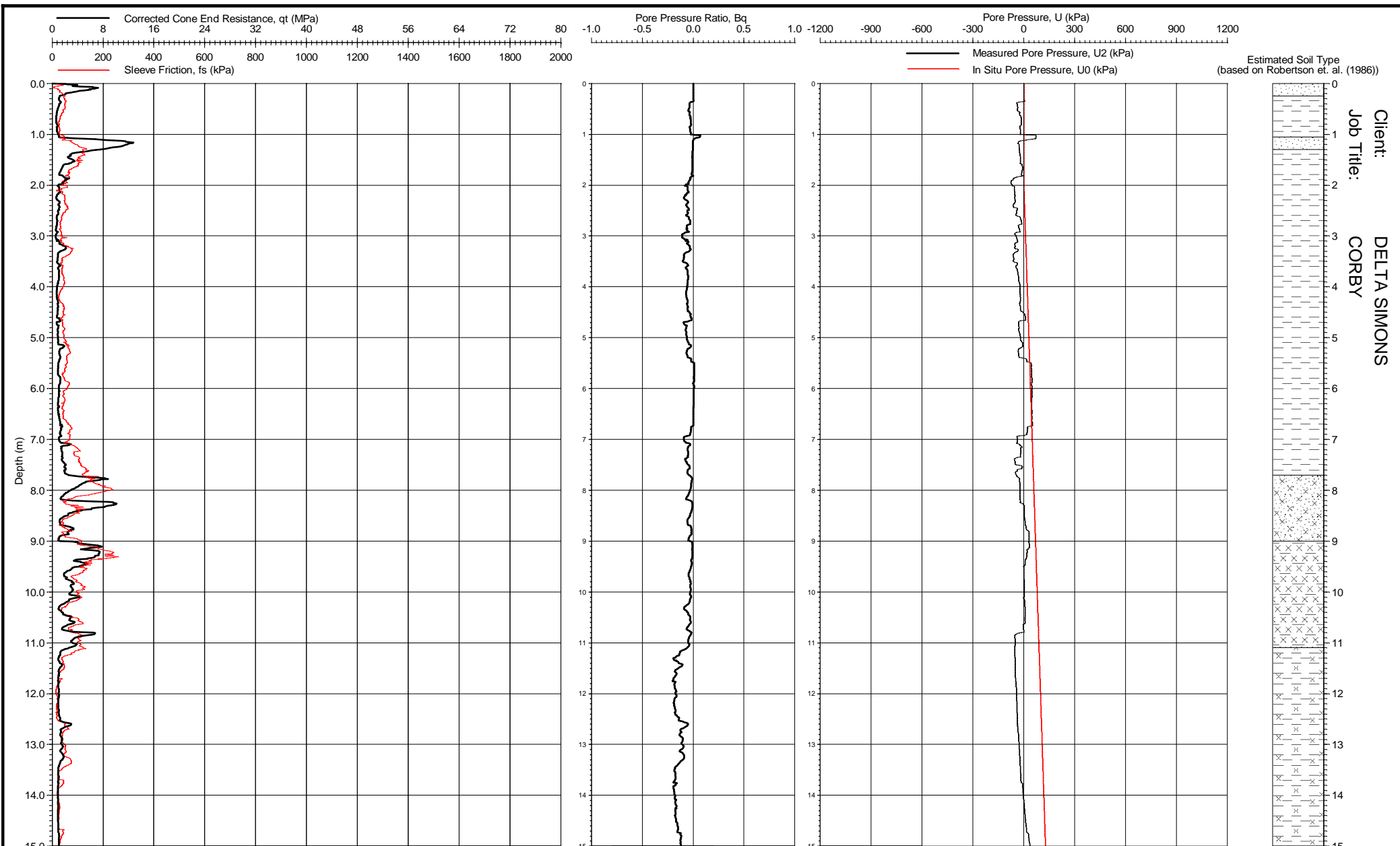
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107
 Checked By: *[Signature]*

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CPT 107



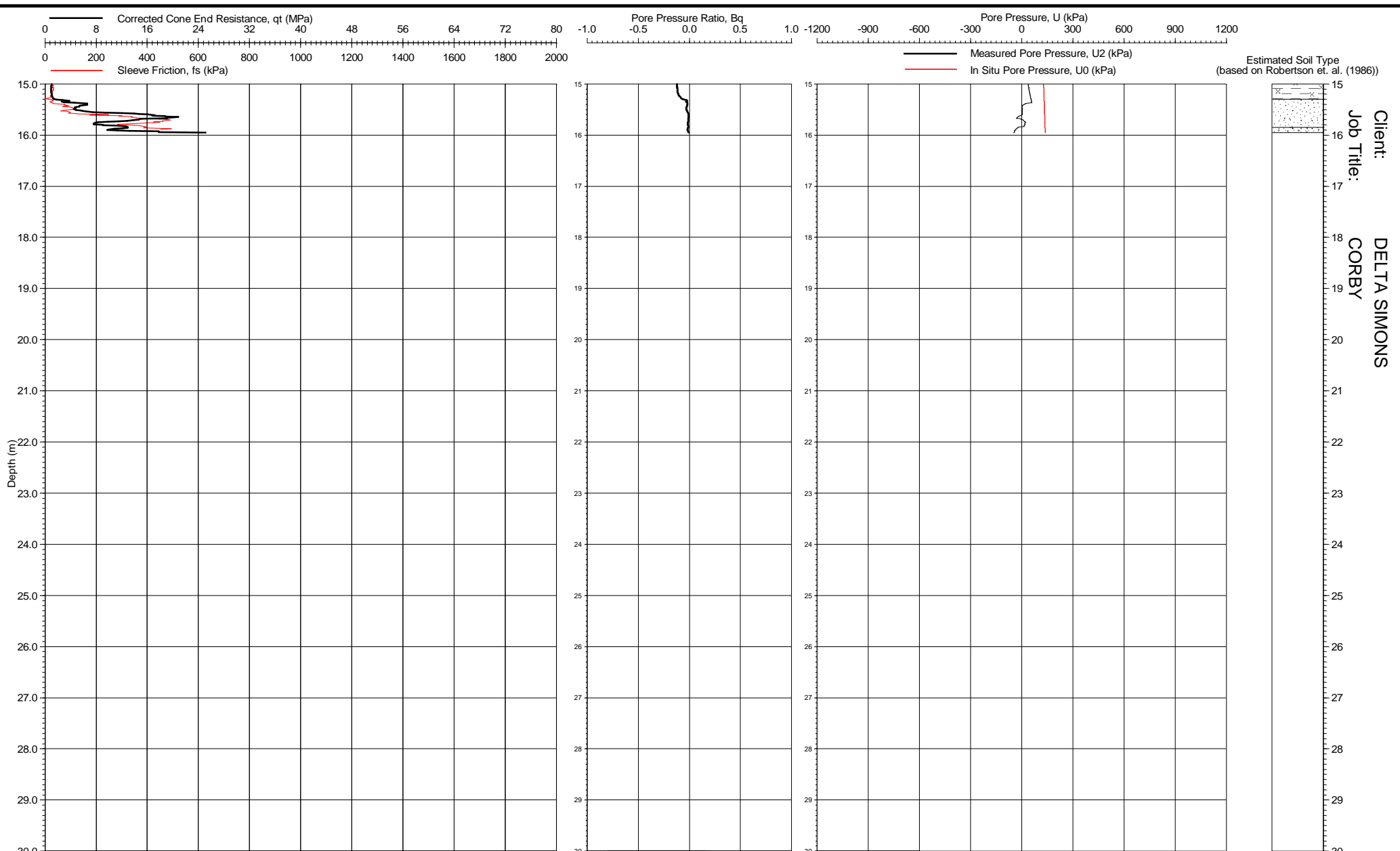
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 107A

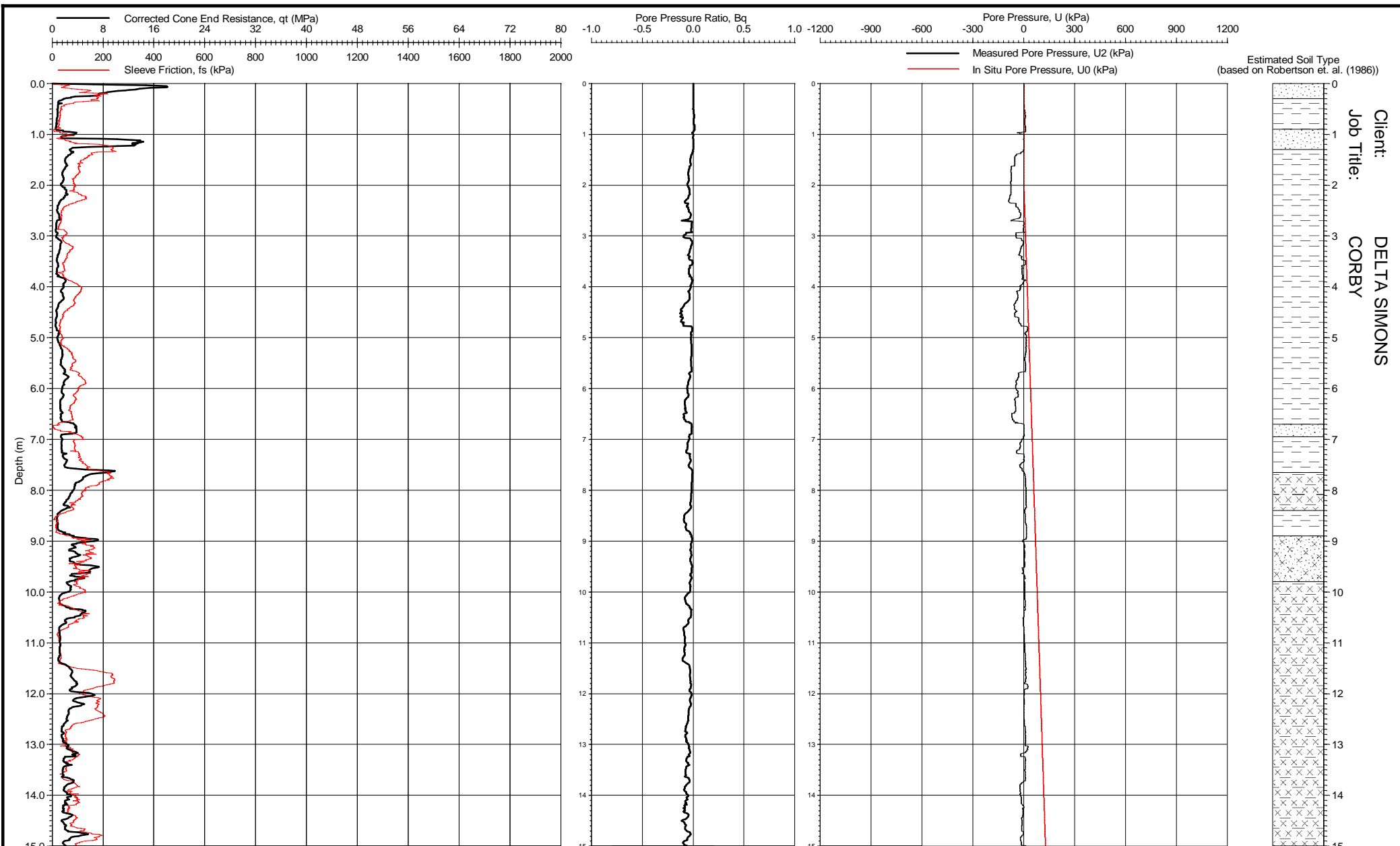


Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 107A



Estimated Soil Type (based on Robertson et. al. (1986))

Client: DELTA SIMONS
 Job Title: CORBY

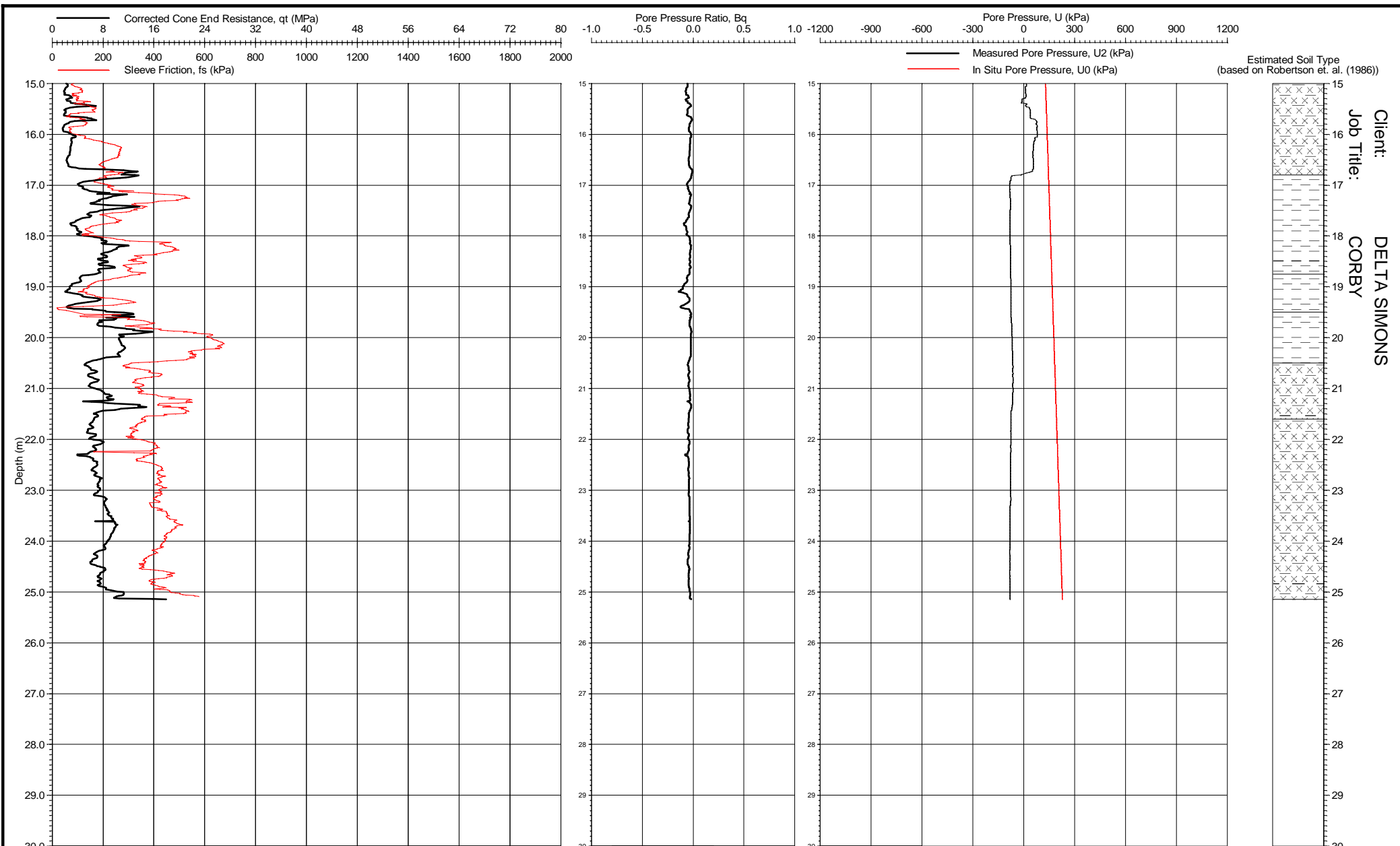
Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 108

Form: CPT0002



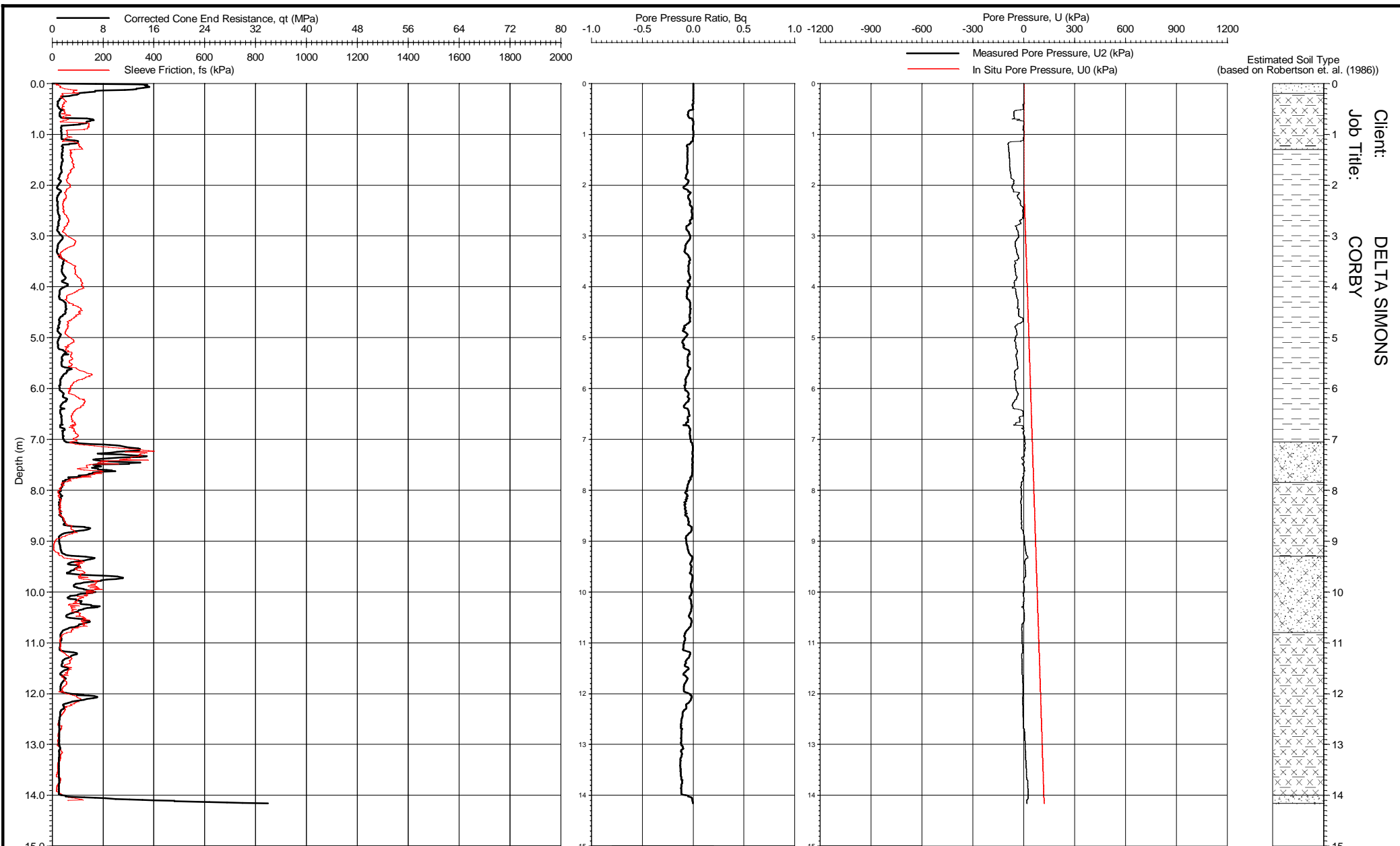
Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST
CPT 108



Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 109
 Checked By: *[Signature]*

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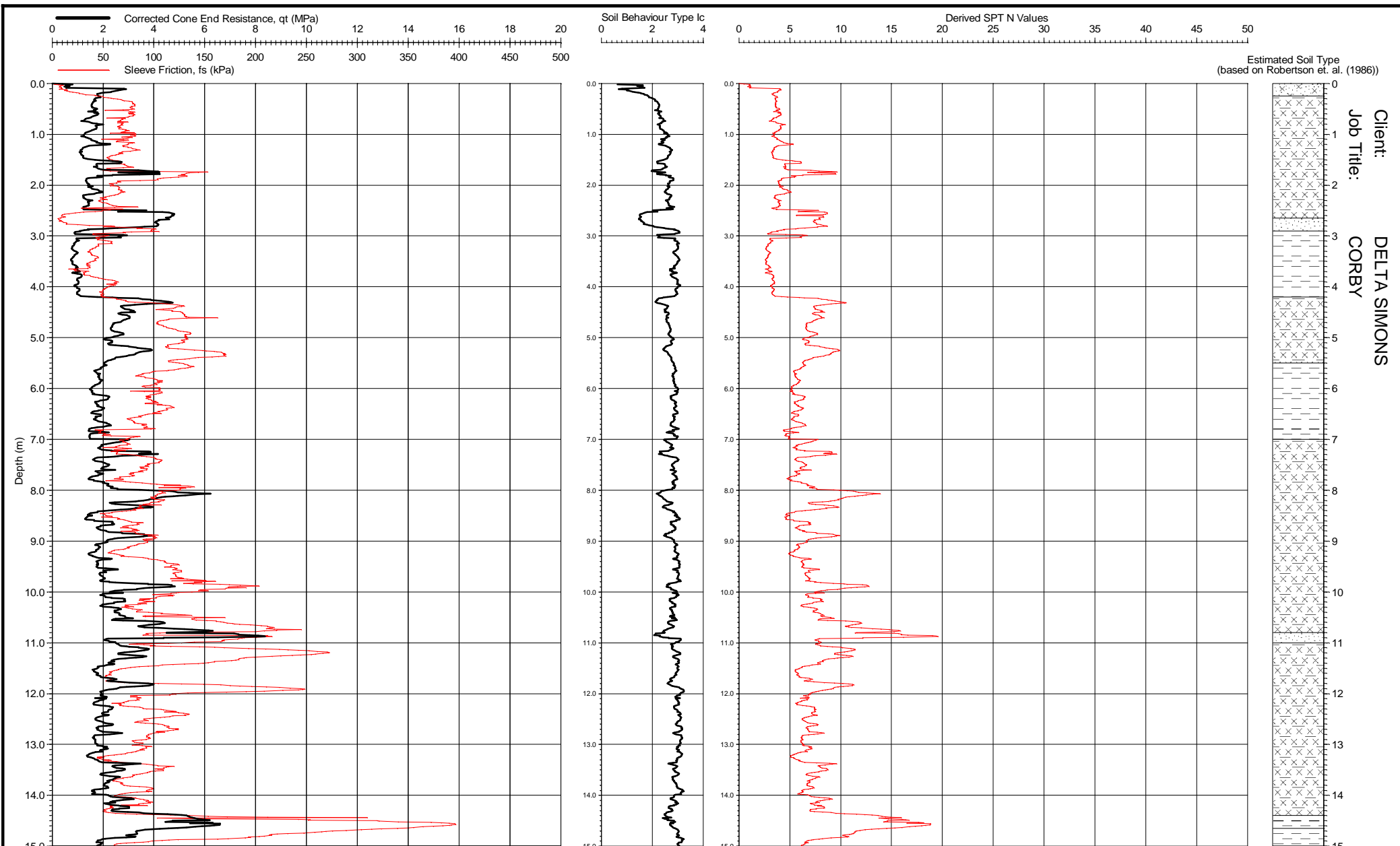
PIEZO CONE PENETRATION TEST
CPT 109

APPENDIX C

CPT DERIVED GEOTECHNICAL PARAMETERS

LIST OF FIGURES

Description	Pages Included
CPT 101 – CPT 109 (Printed on Form CPT0003) Soil Behaviour Type and N Value	17
CPT 101 – CPT 109 (Printed on Form CPT0004) Relative Density and Shear Strength	17
CPT 101 – CPT 109 (Printed on Form CPT0005) Fines Content and Friction Angle	17



Estimated Soil Type
(based on Robertson et. al. (1986))

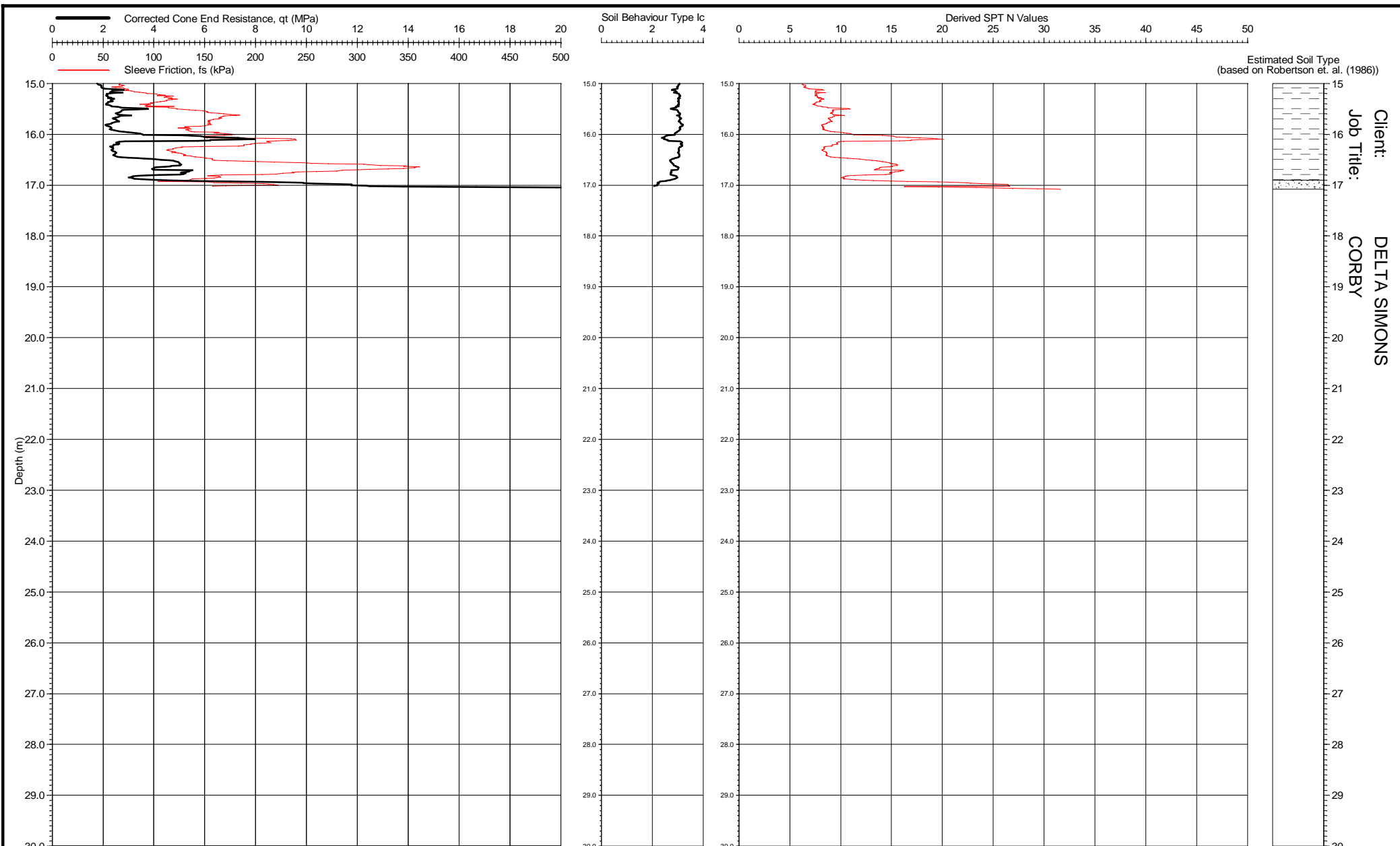
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 491070.280E - 290870.590N
Ground Level: 104.04 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 101
Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 101
insitusi.com

Form: CPT0003

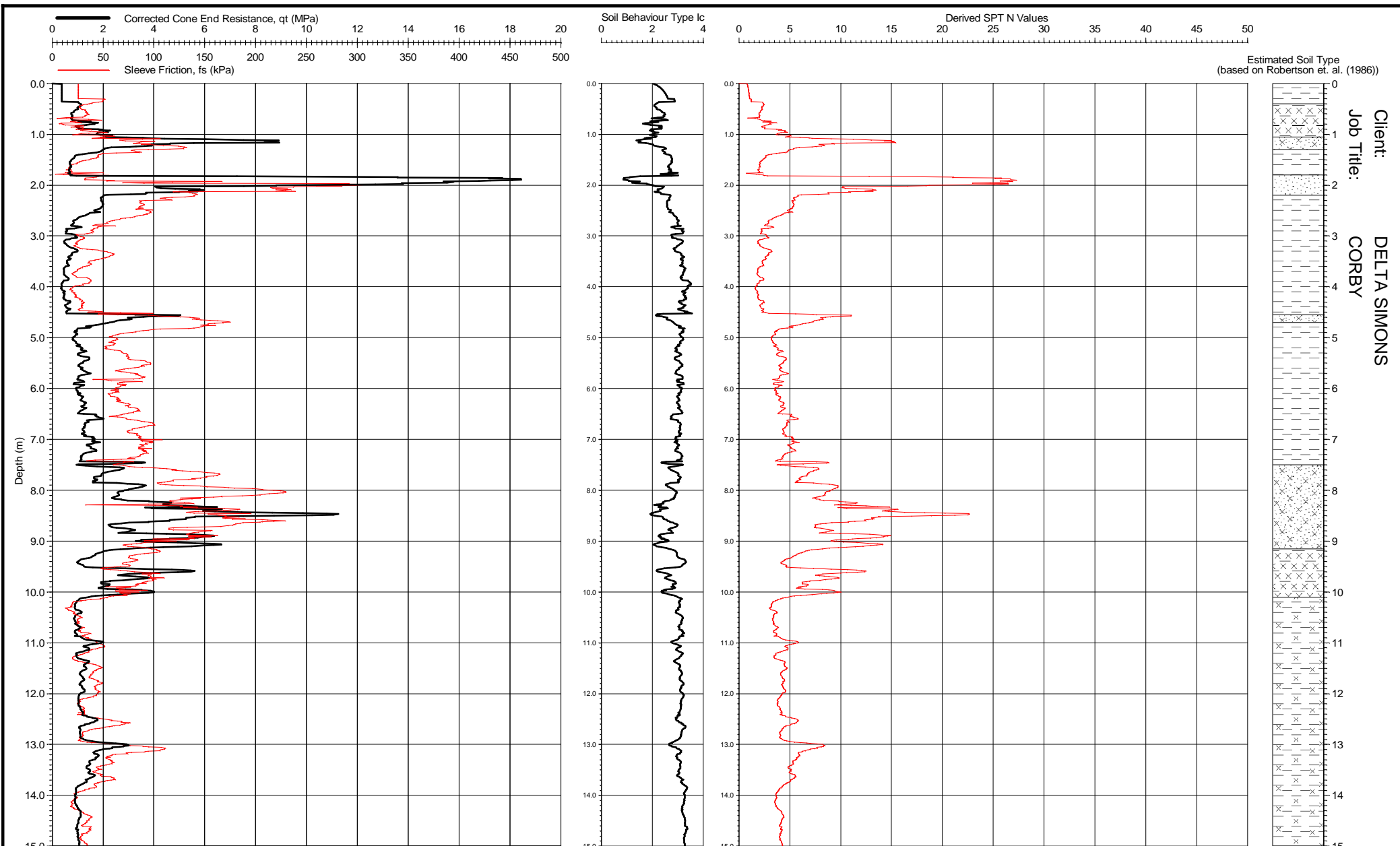


Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *R. Hill*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 101
 insitusi.com

Form: CPT0003



Estimated Soil Type
(based on Robertson et. al. (1986))

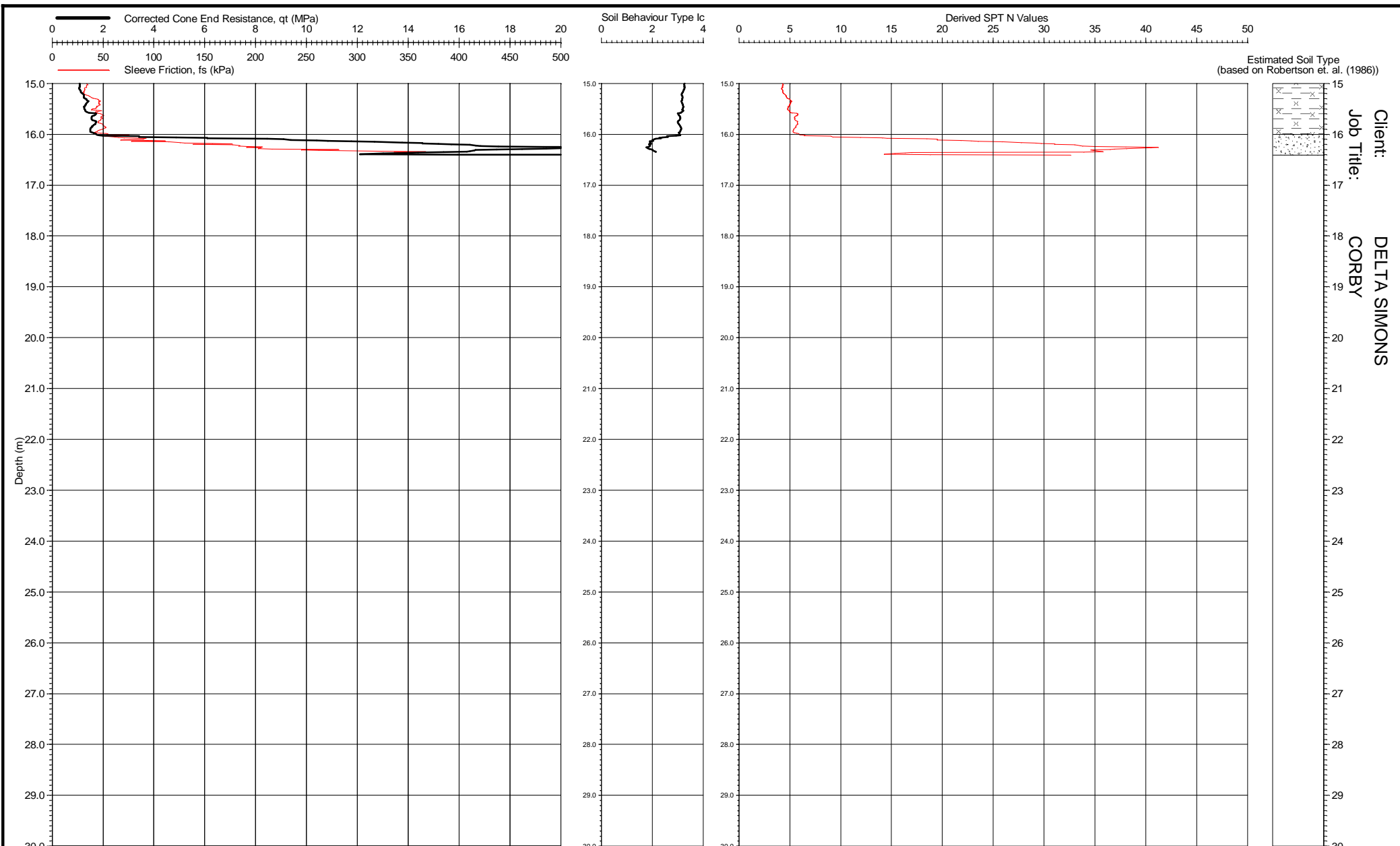
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 491021.740E - 290918.910N
Ground Level: 105.55 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 102
Checked By: *R. [Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 102
insitusi.com

Form: CPT0003

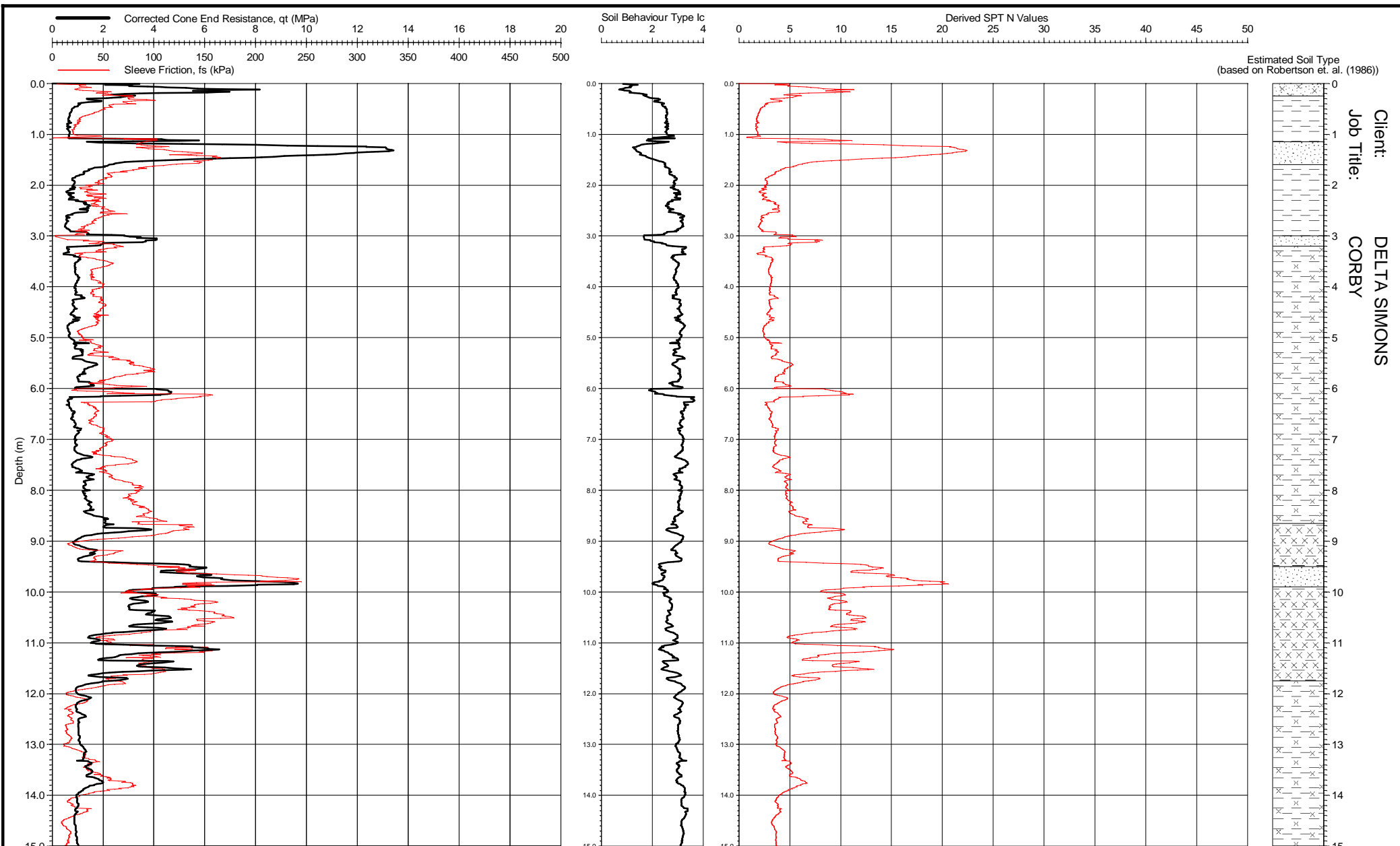


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *R. Hill*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 102
 insitusi.com

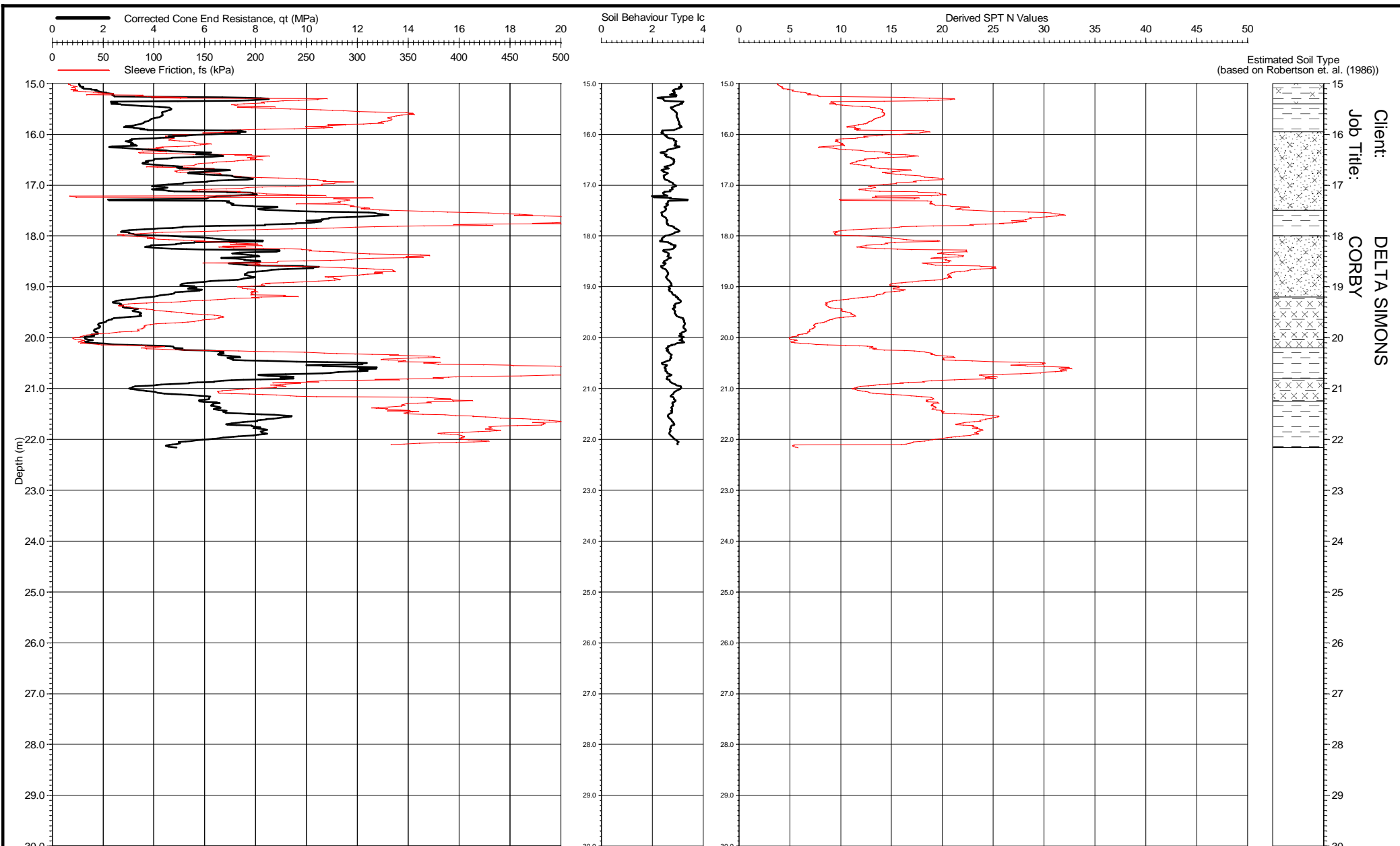


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

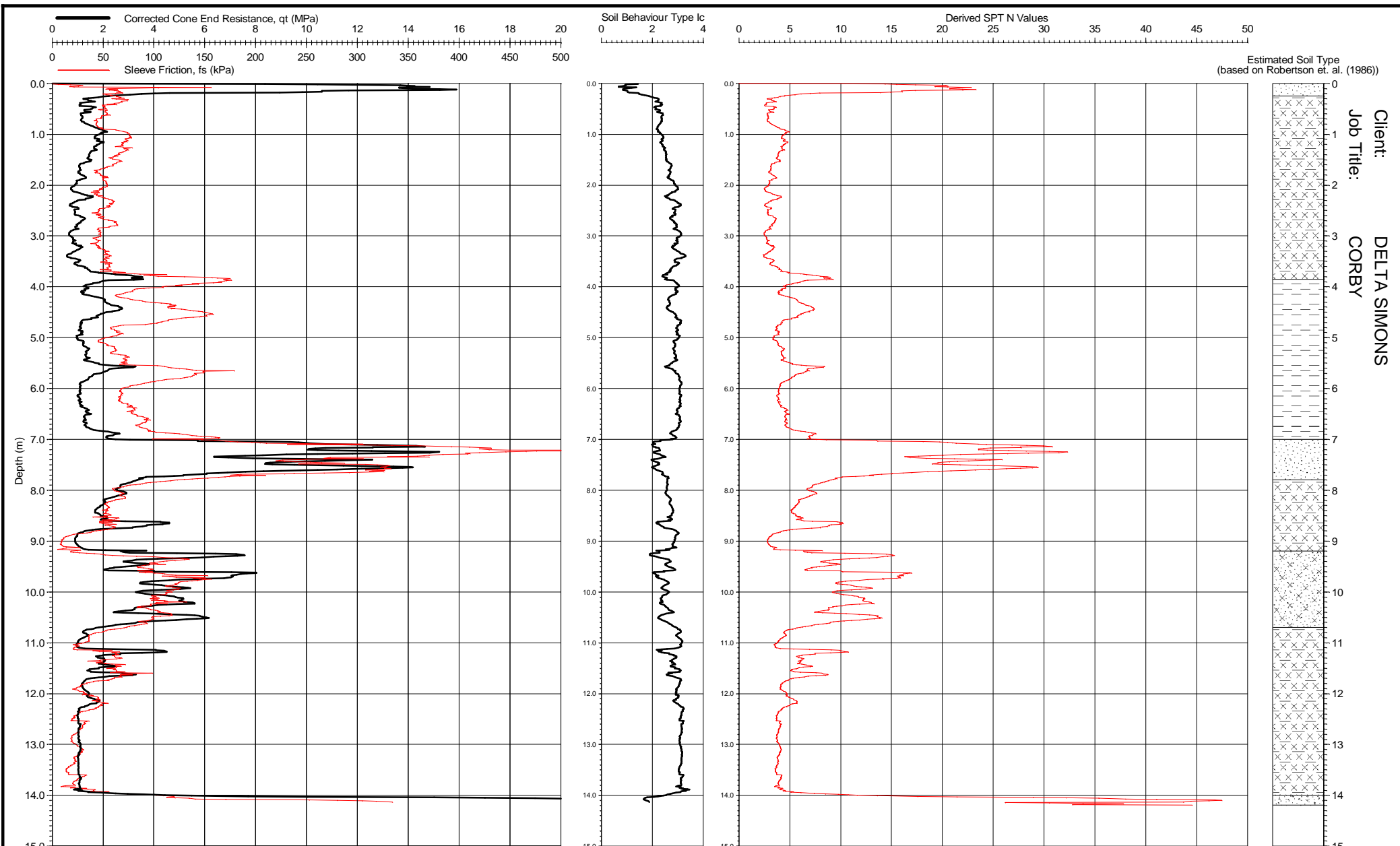
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 103
 insitusi.com



Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 103
 insitusi.com

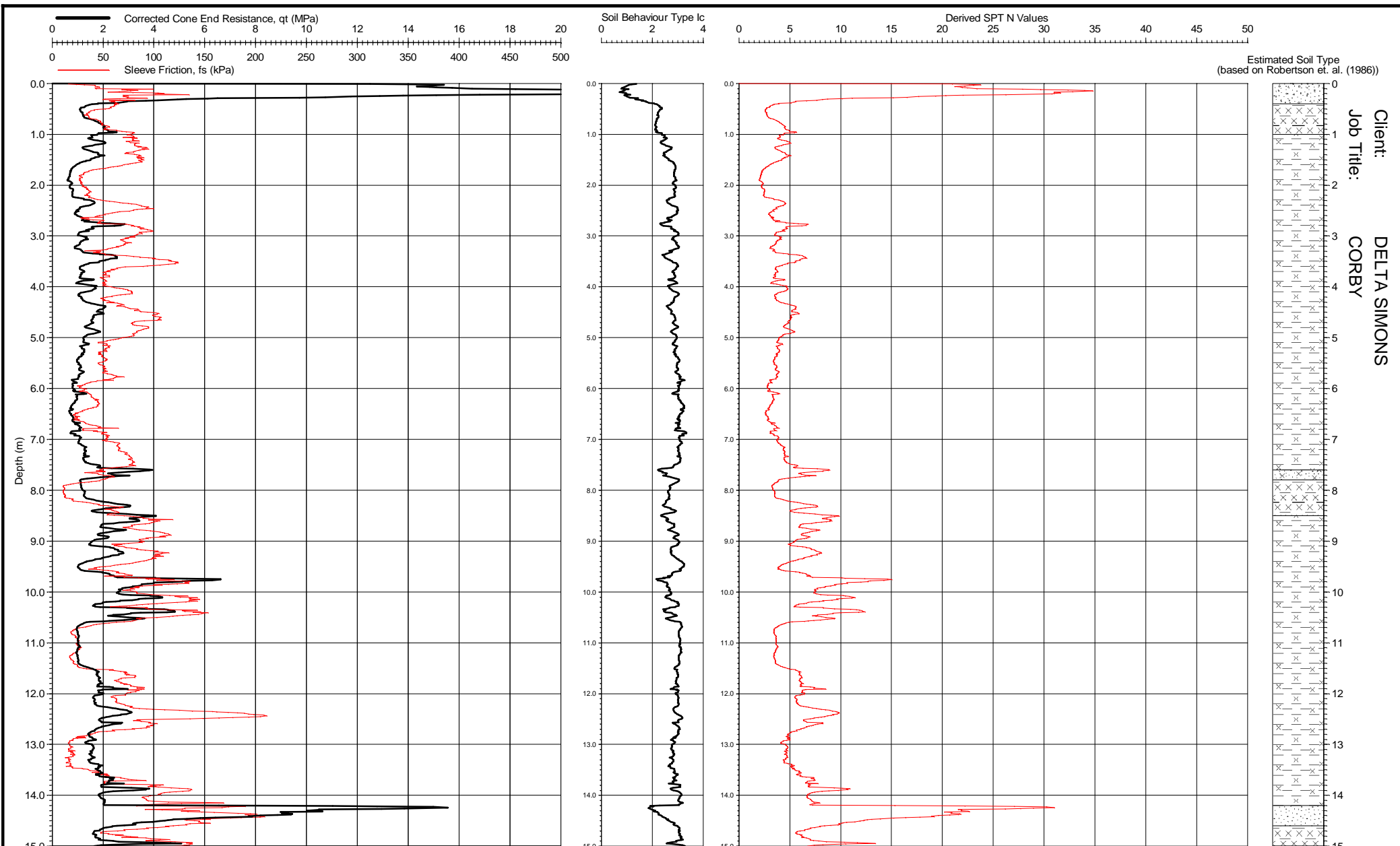


Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 104
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 104
 insitusi.com

Client: DELTA SIMONS
 Job Title: CORBY

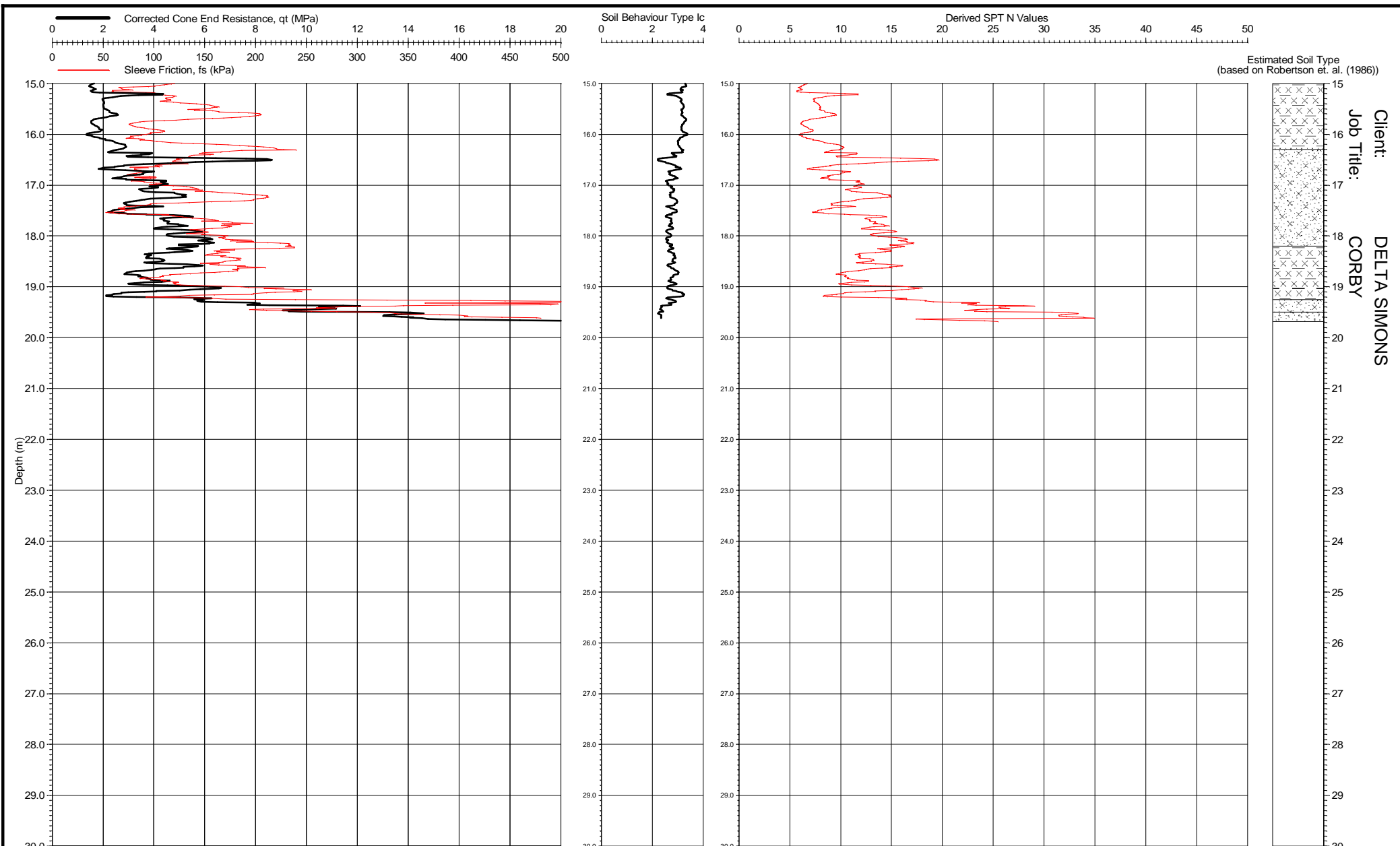


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *R. [Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com



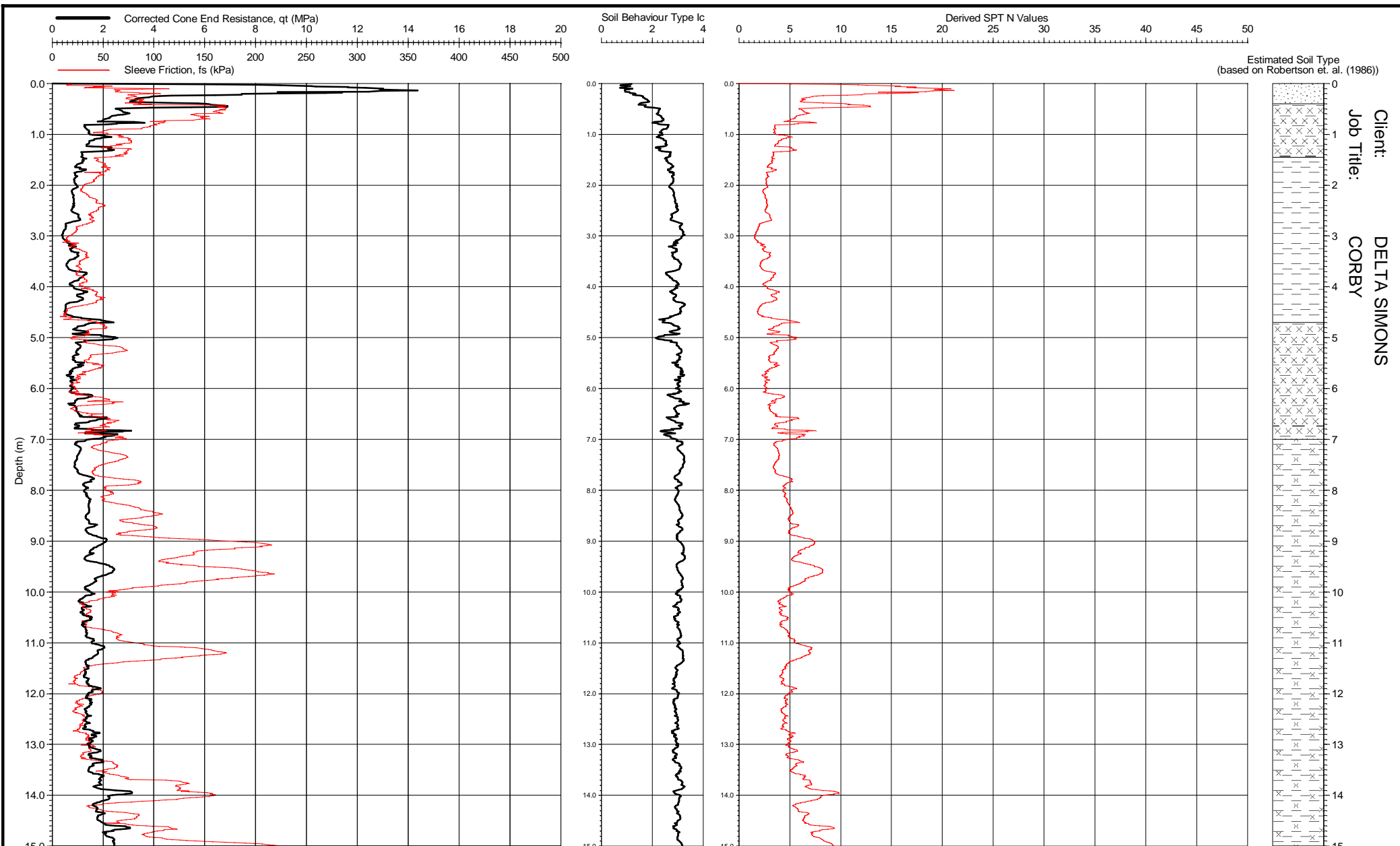
Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *R. [Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com

Form: CPT0003

Client: DELTA SIMONS
 Job Title: CORBY

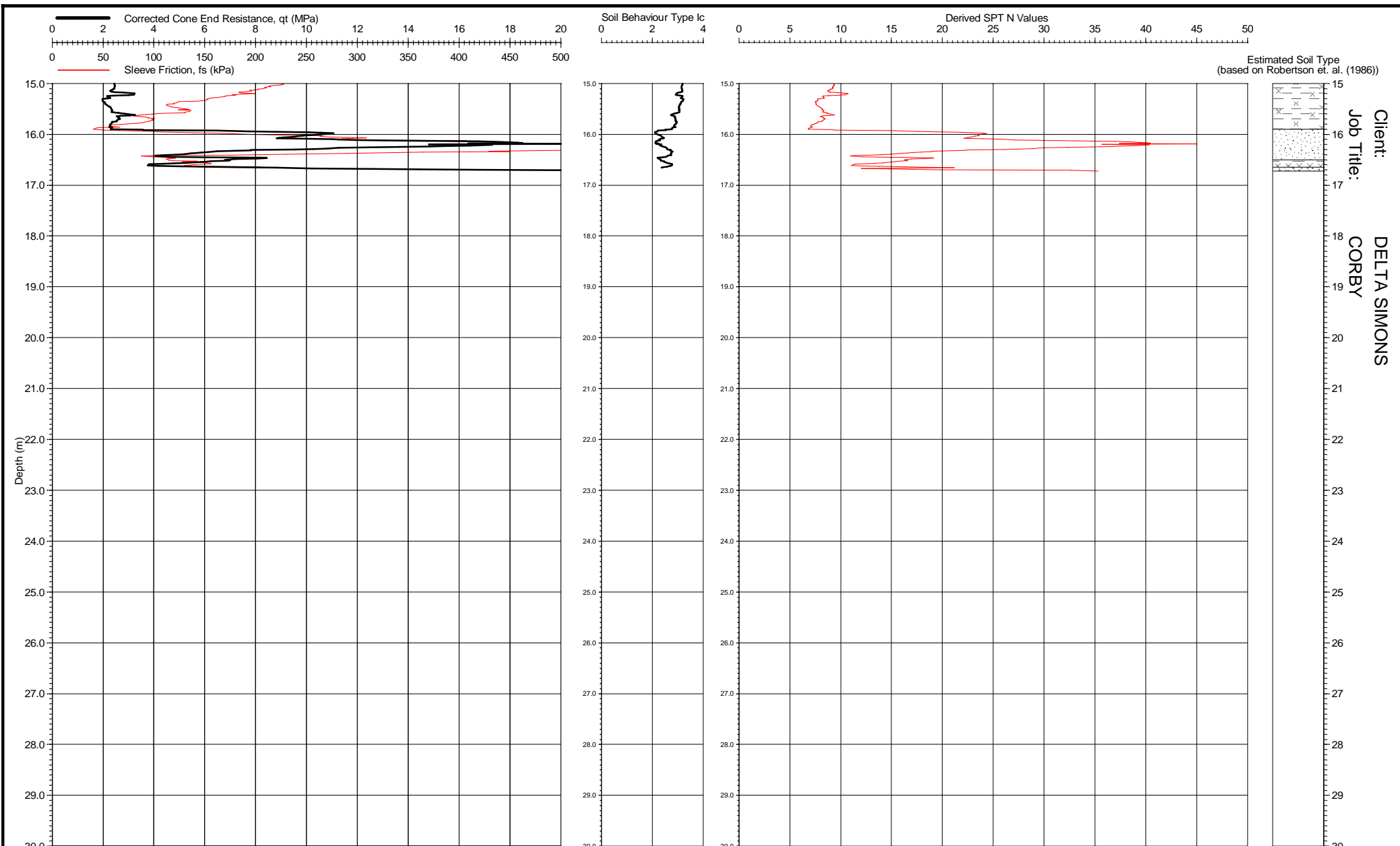


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *R. Hill*

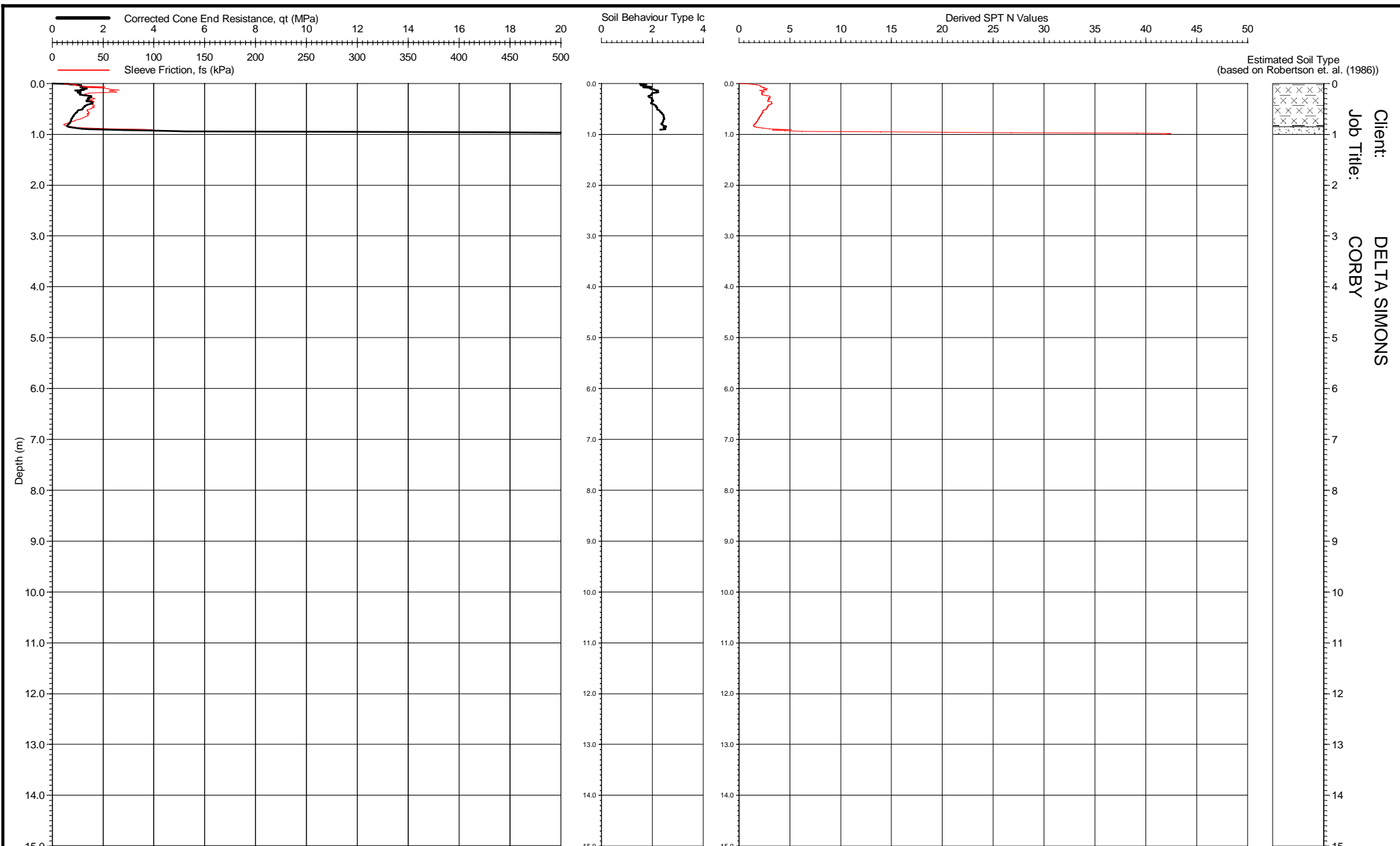
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
 insitusi.com



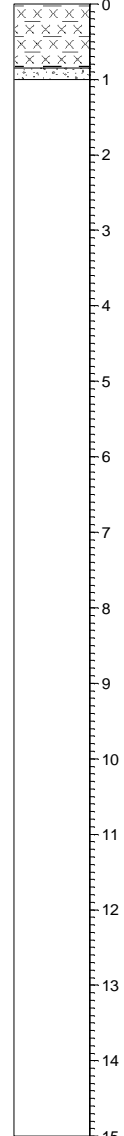
Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
 insitusi.com



Estimated Soil Type (based on Robertson et. al. (1986))

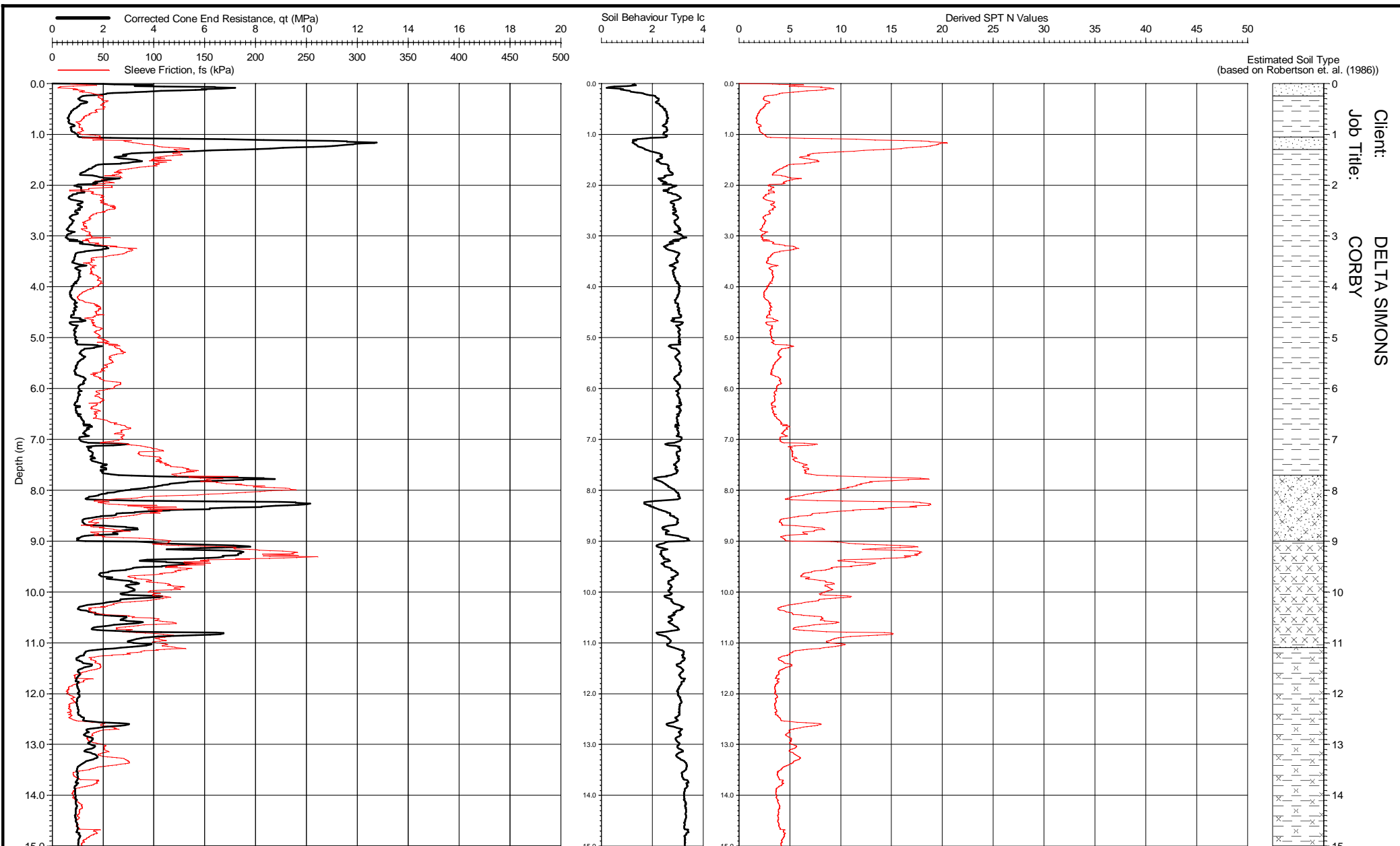


Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490958.570E - 290901.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 107
Checked By: *[Signature]*

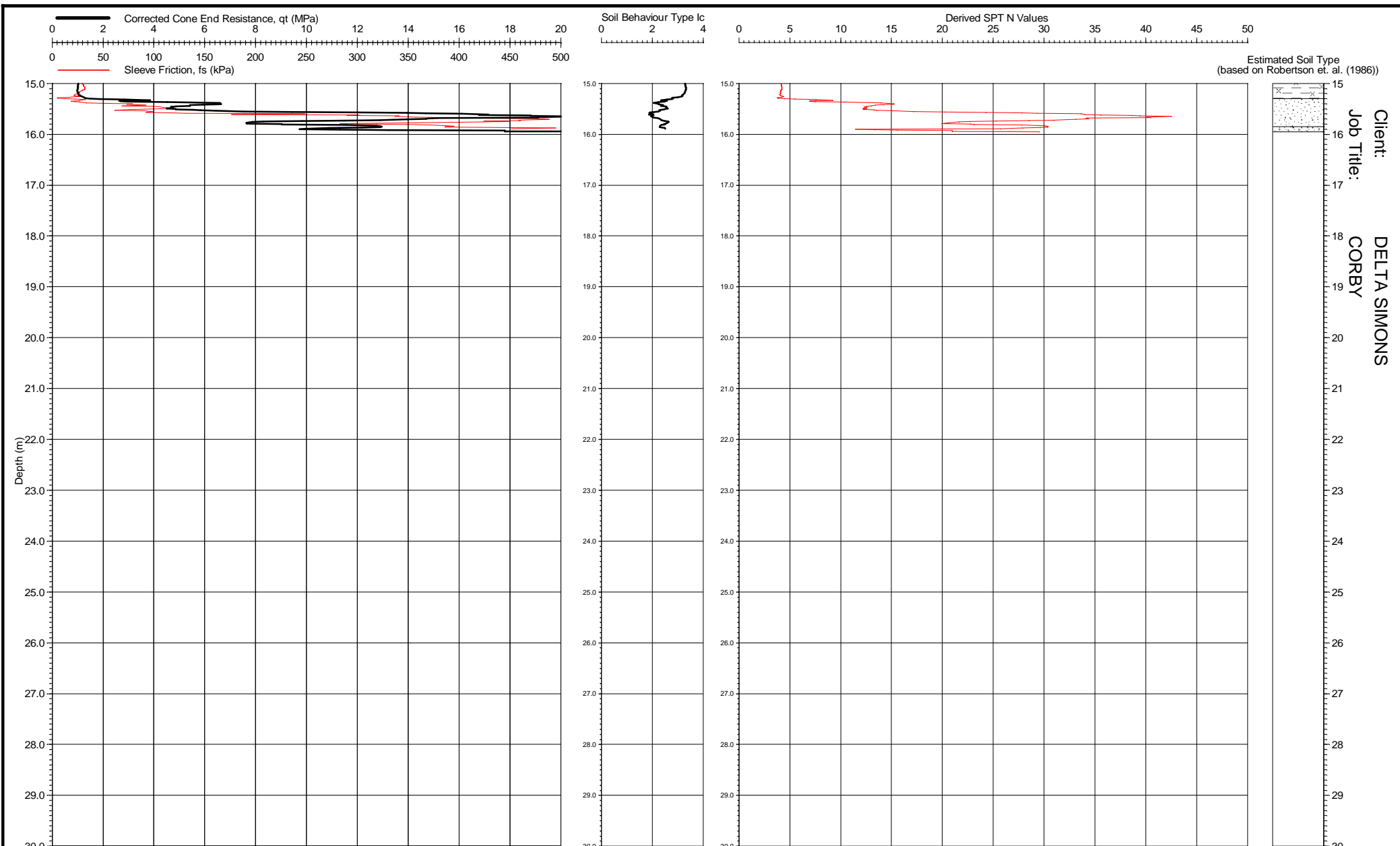
IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 107
insitushi.com



Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *R. [Signature]*

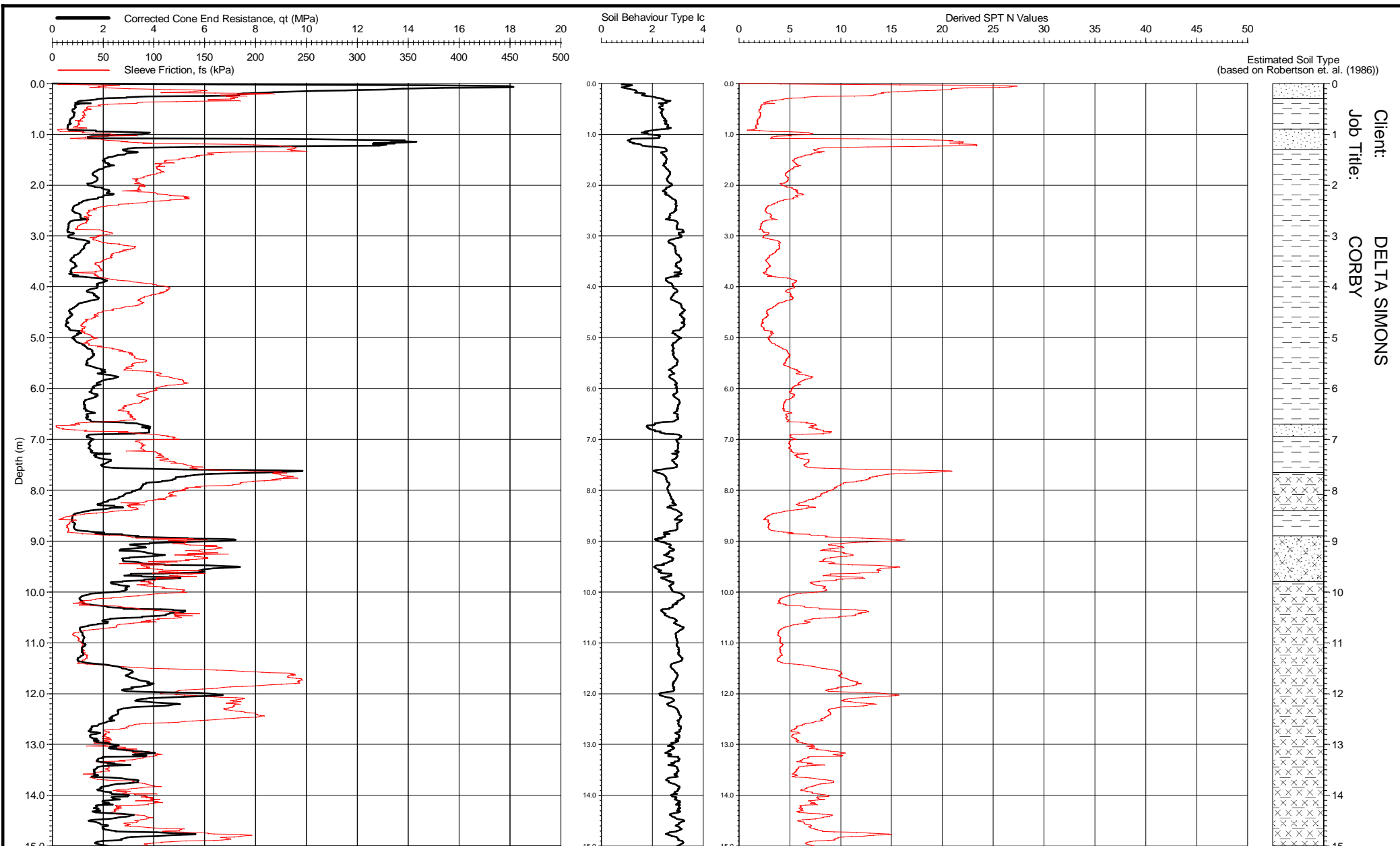
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107A
 insitusi.com



Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

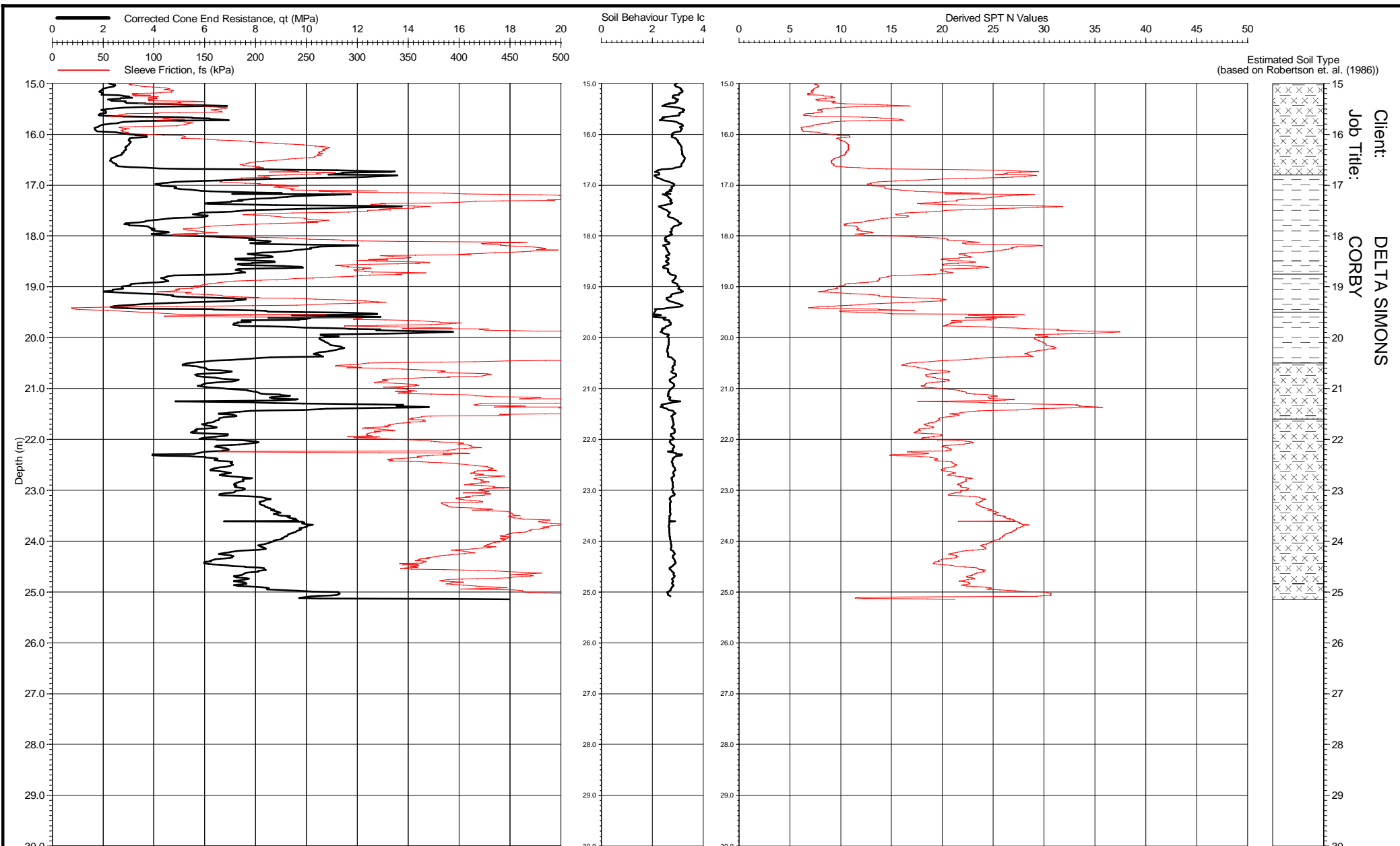
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107A
 insitusi.com



Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *R. Hill*

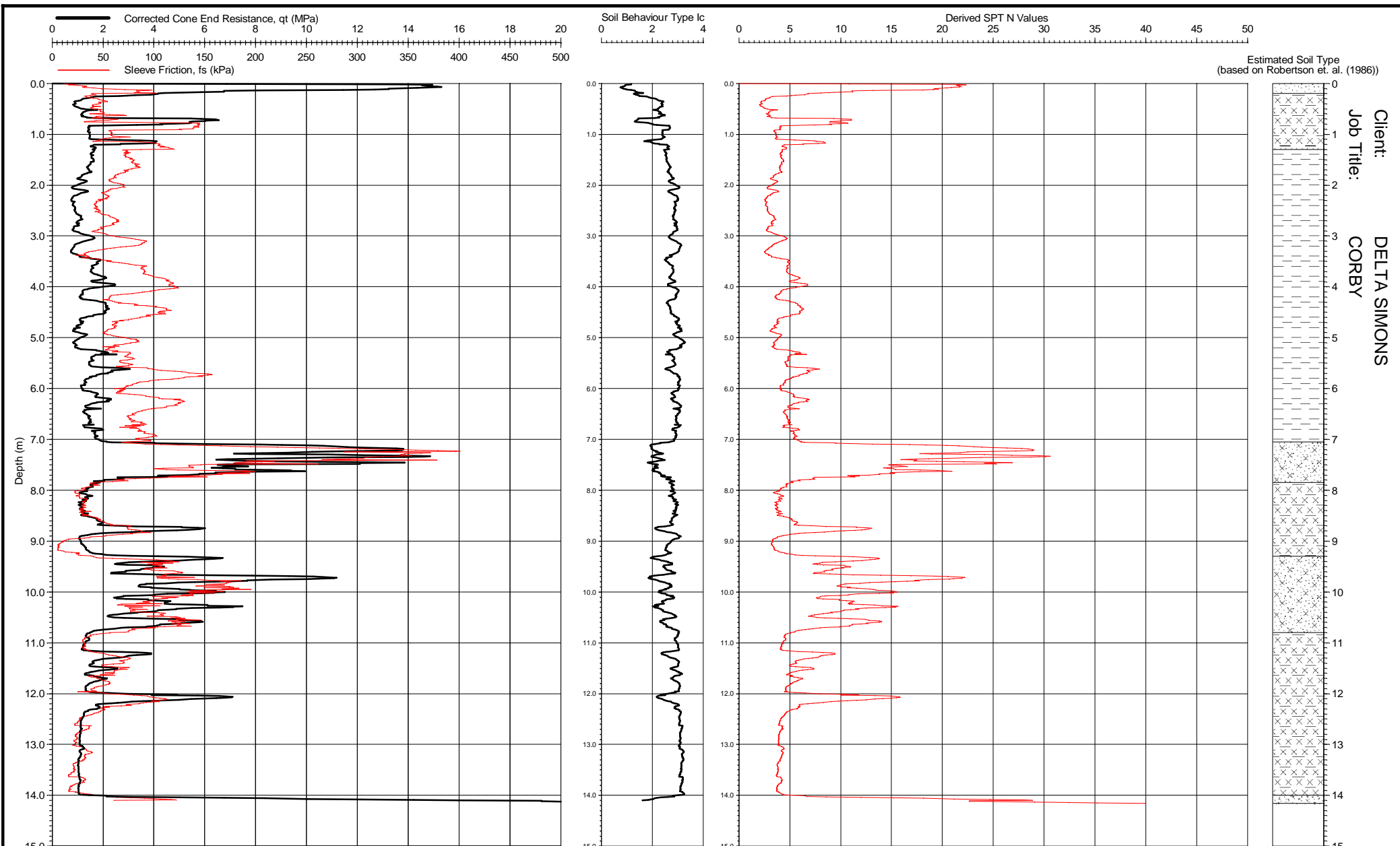
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 108
 insitusi.com



Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *Rhodes*

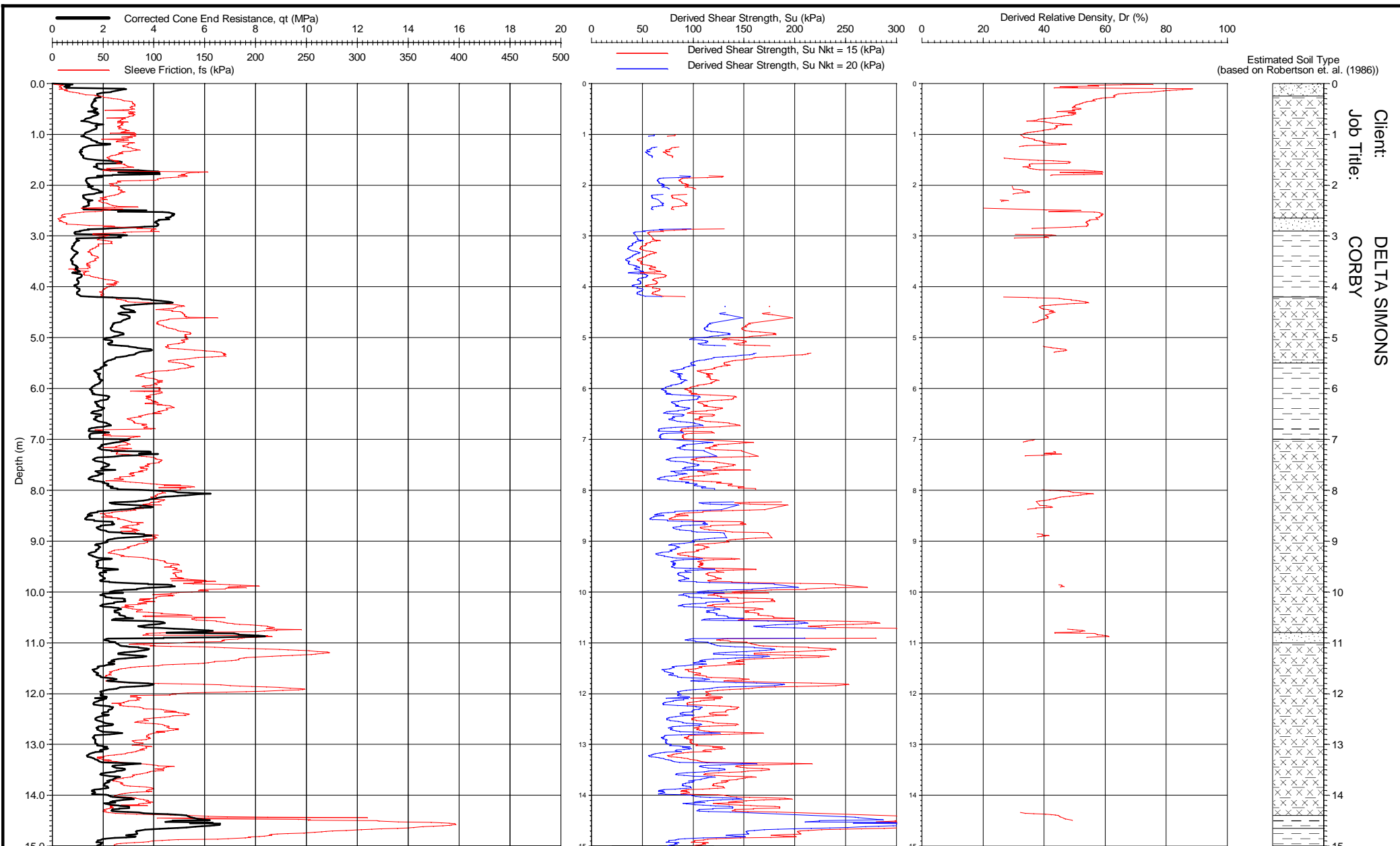
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION
 insitushi.com
 CPT 108



Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 109
 Checked By: *R. Hill*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 109
 insitusi.com

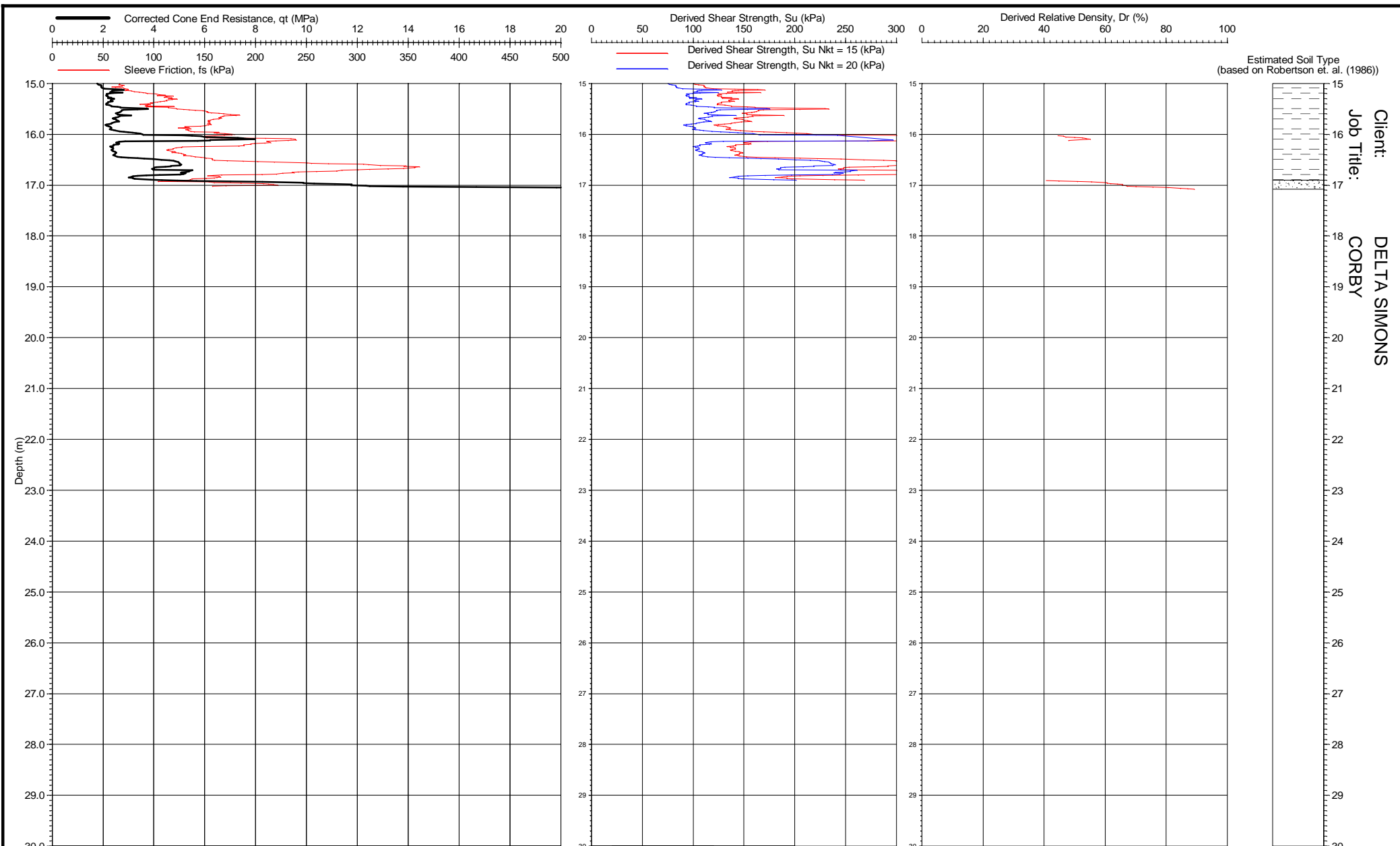


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 101
 insitusi.com

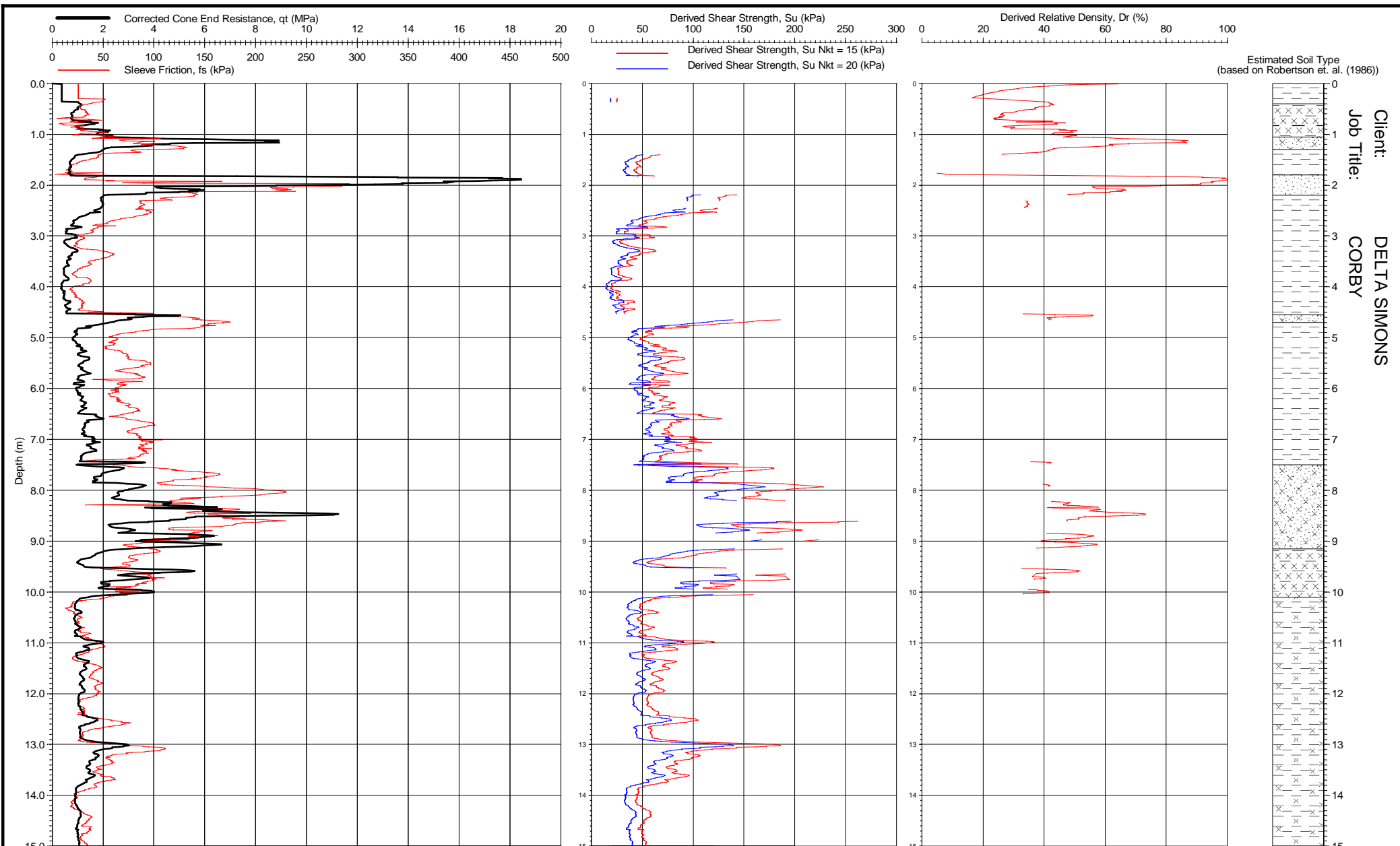


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 101
 insitusi.com

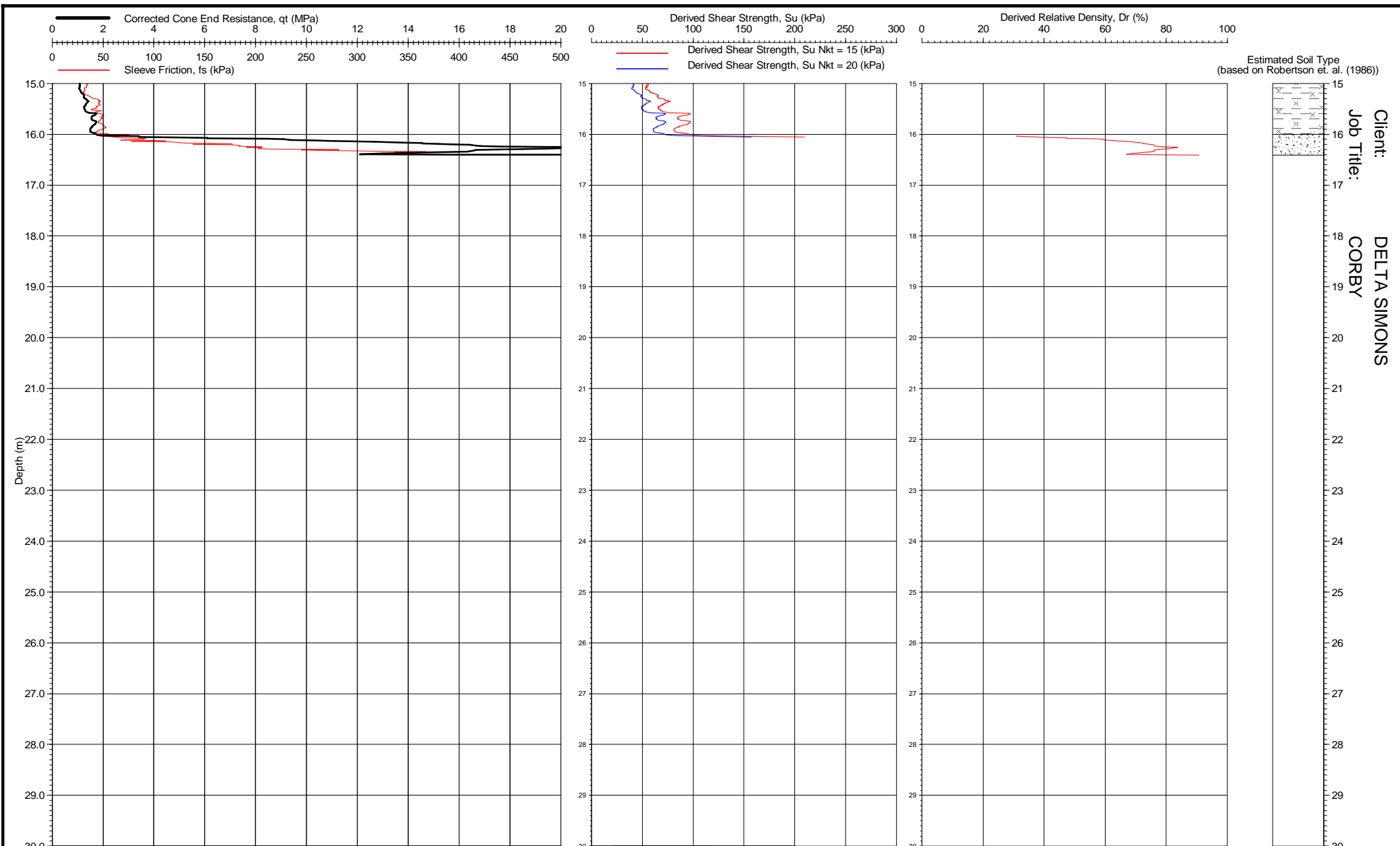


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 102
 insitusi.com



Estimated Soil Type
(based on Robertson et. al. (1986))

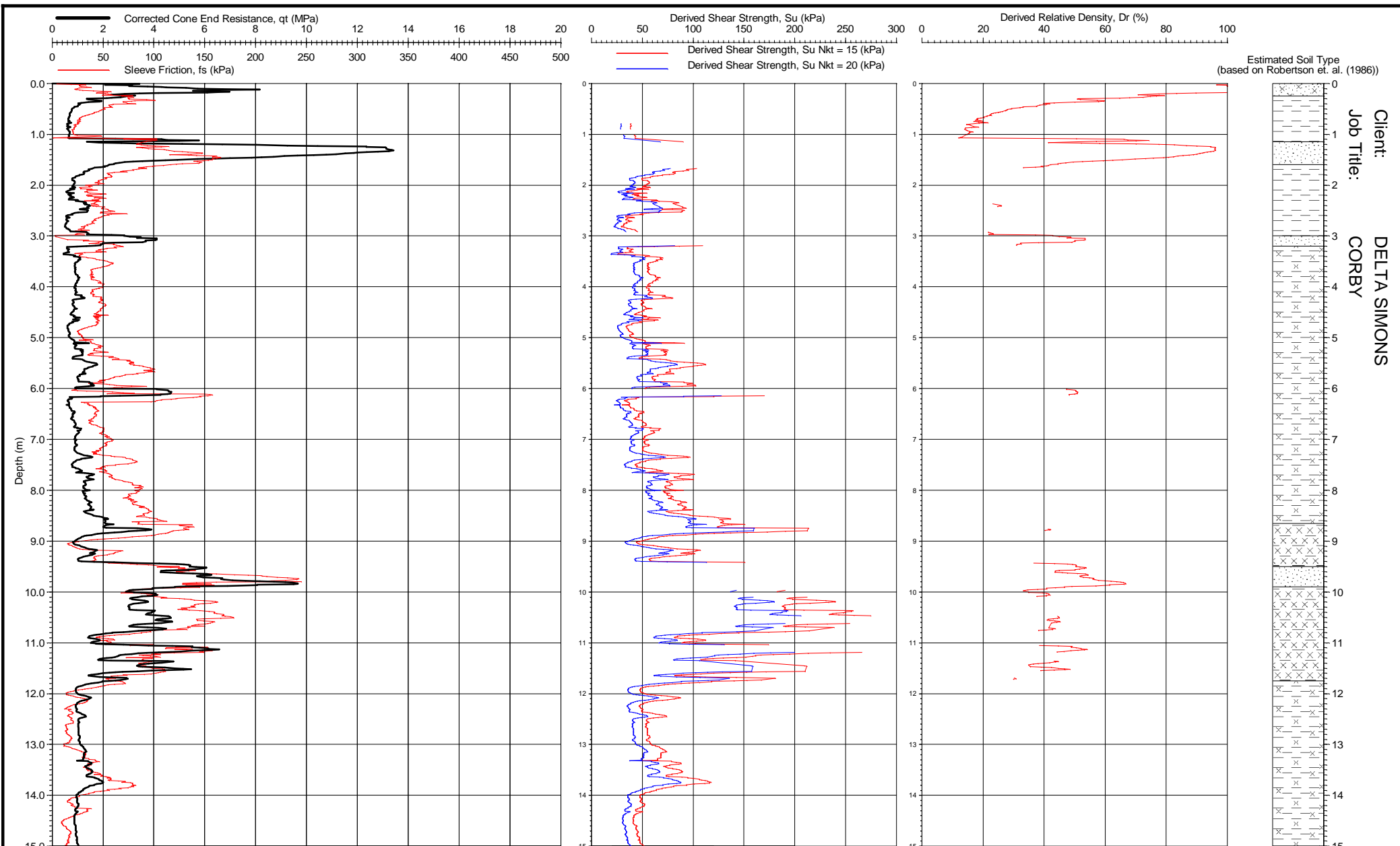
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 491021.740E - 290918.910N
Ground Level: 105.55 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 102
Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 102
insitusi.com

Form: CPT0004



Estimated Soil Type
(based on Robertson et. al. (1986))

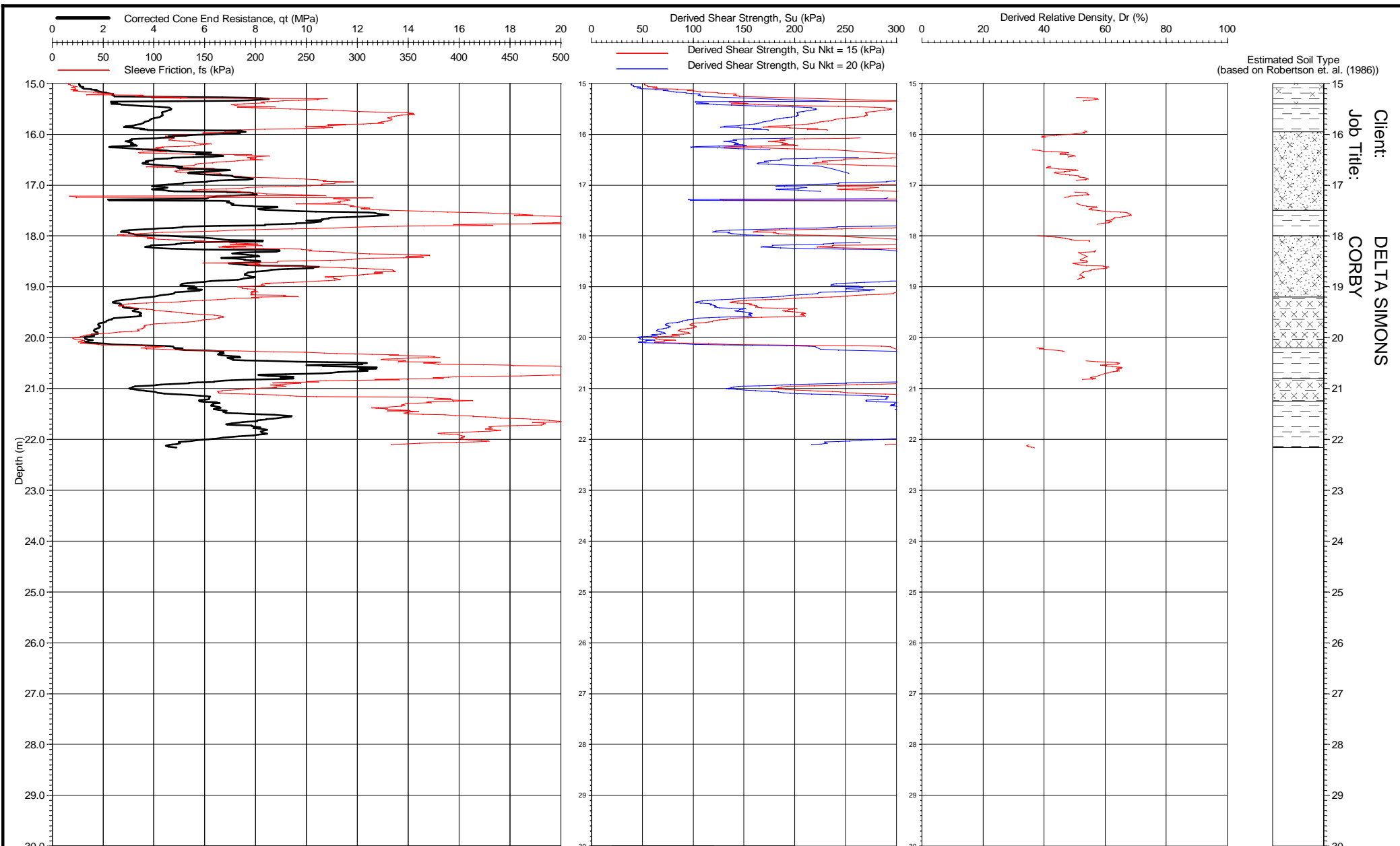
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490958.570E - 290901.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 103
Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 103
insitusi.com

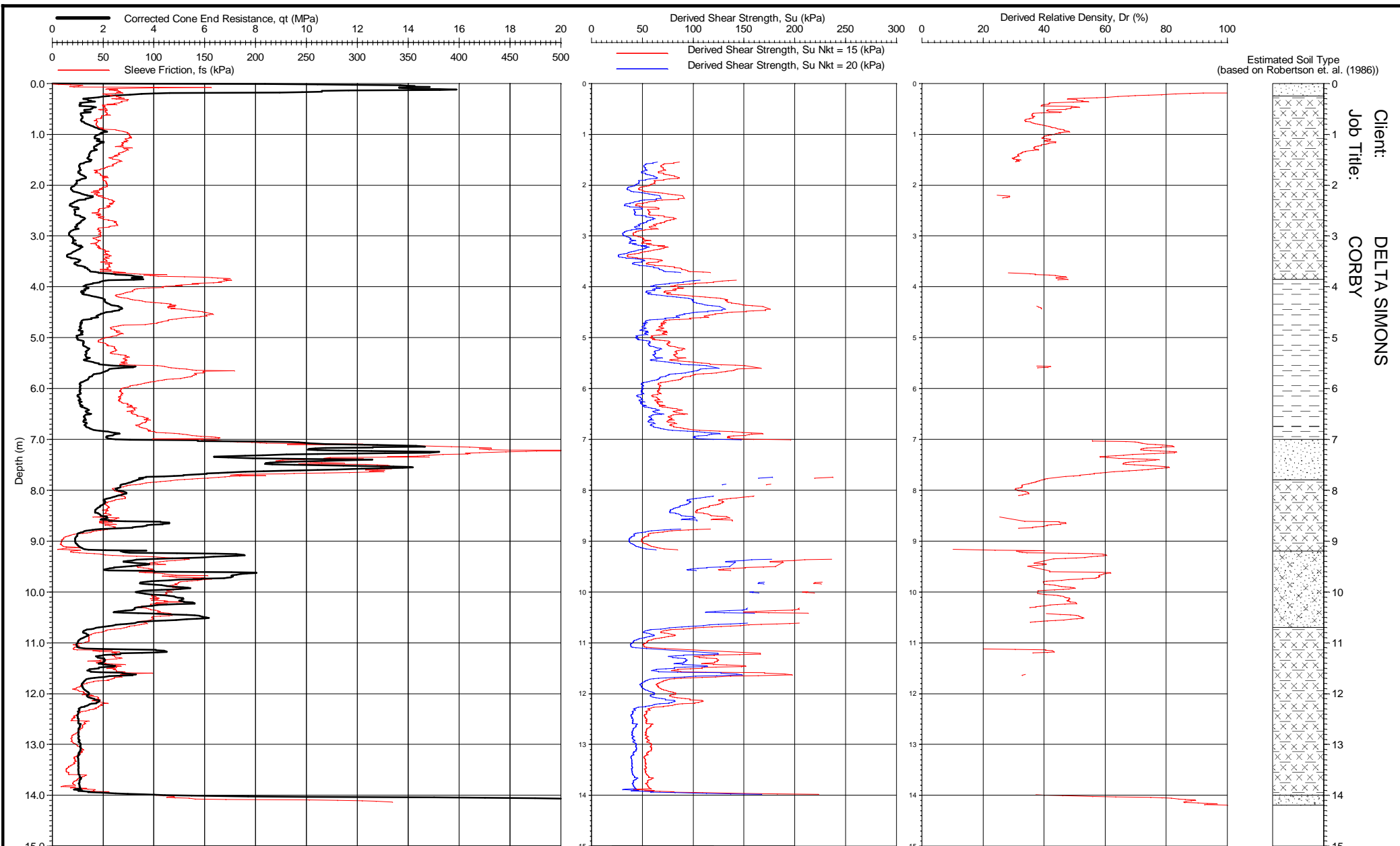
Form: CPT0004



Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 103
 insitusi.com

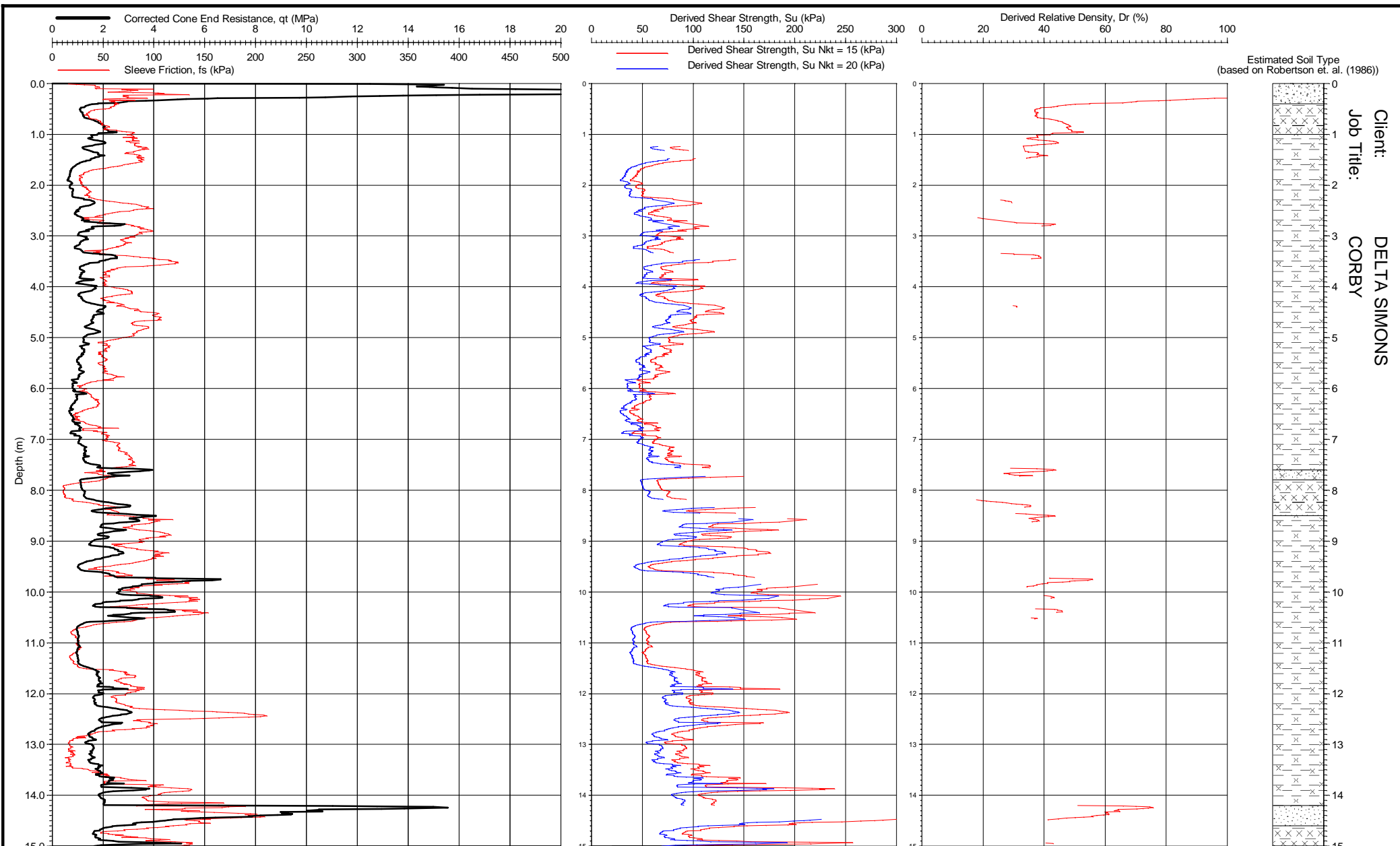


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 104
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 104
 insitusi.com

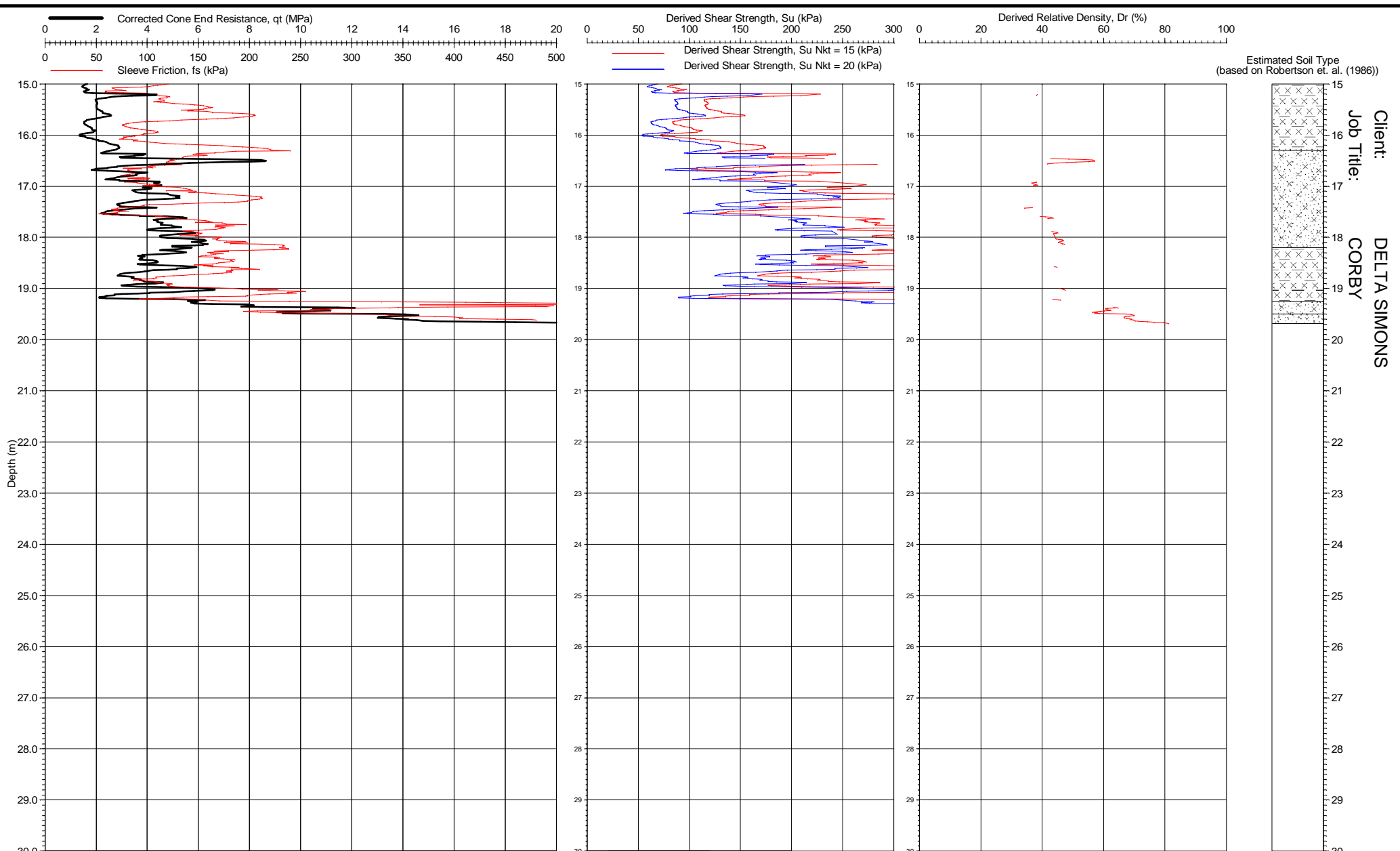


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com

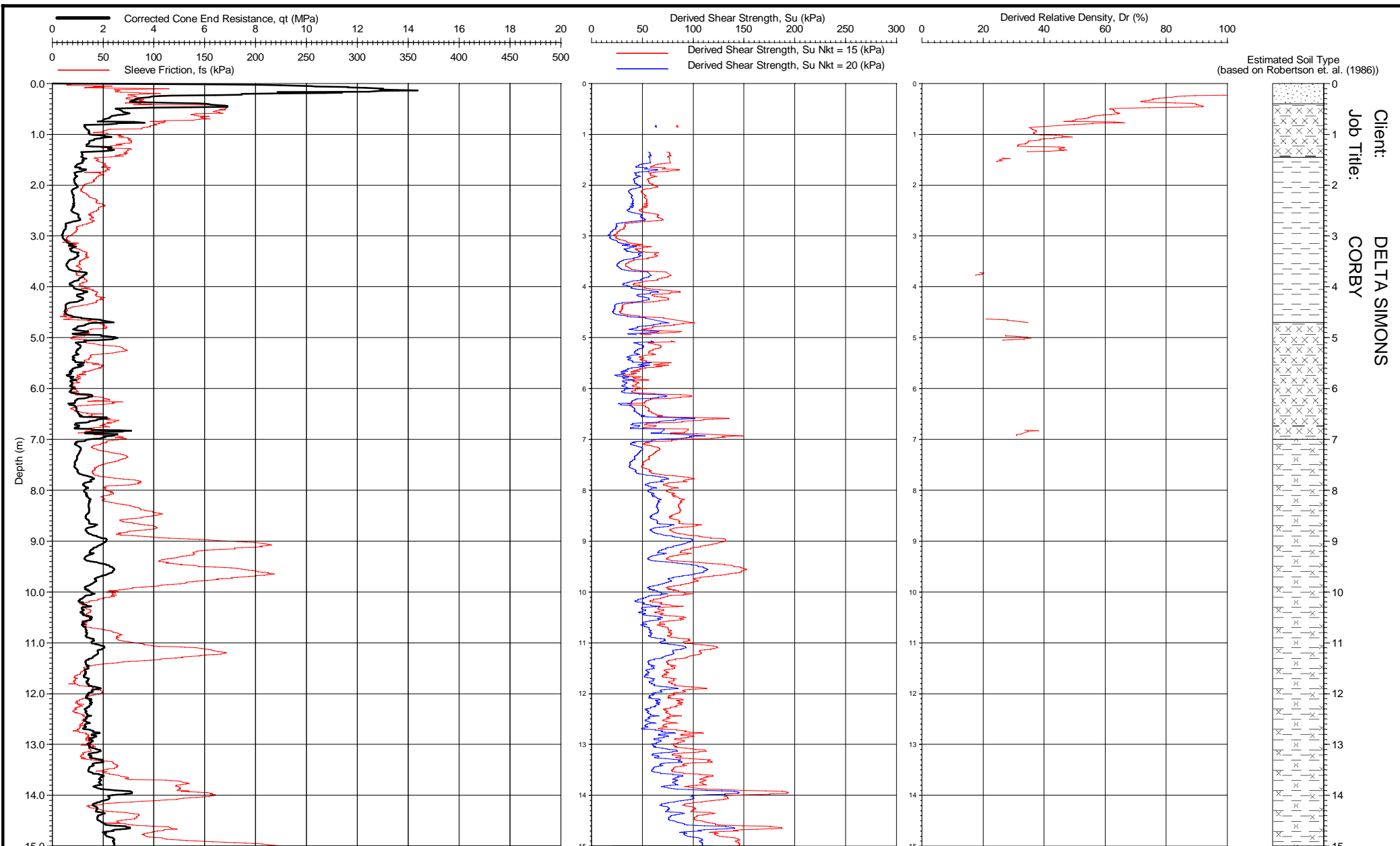


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com

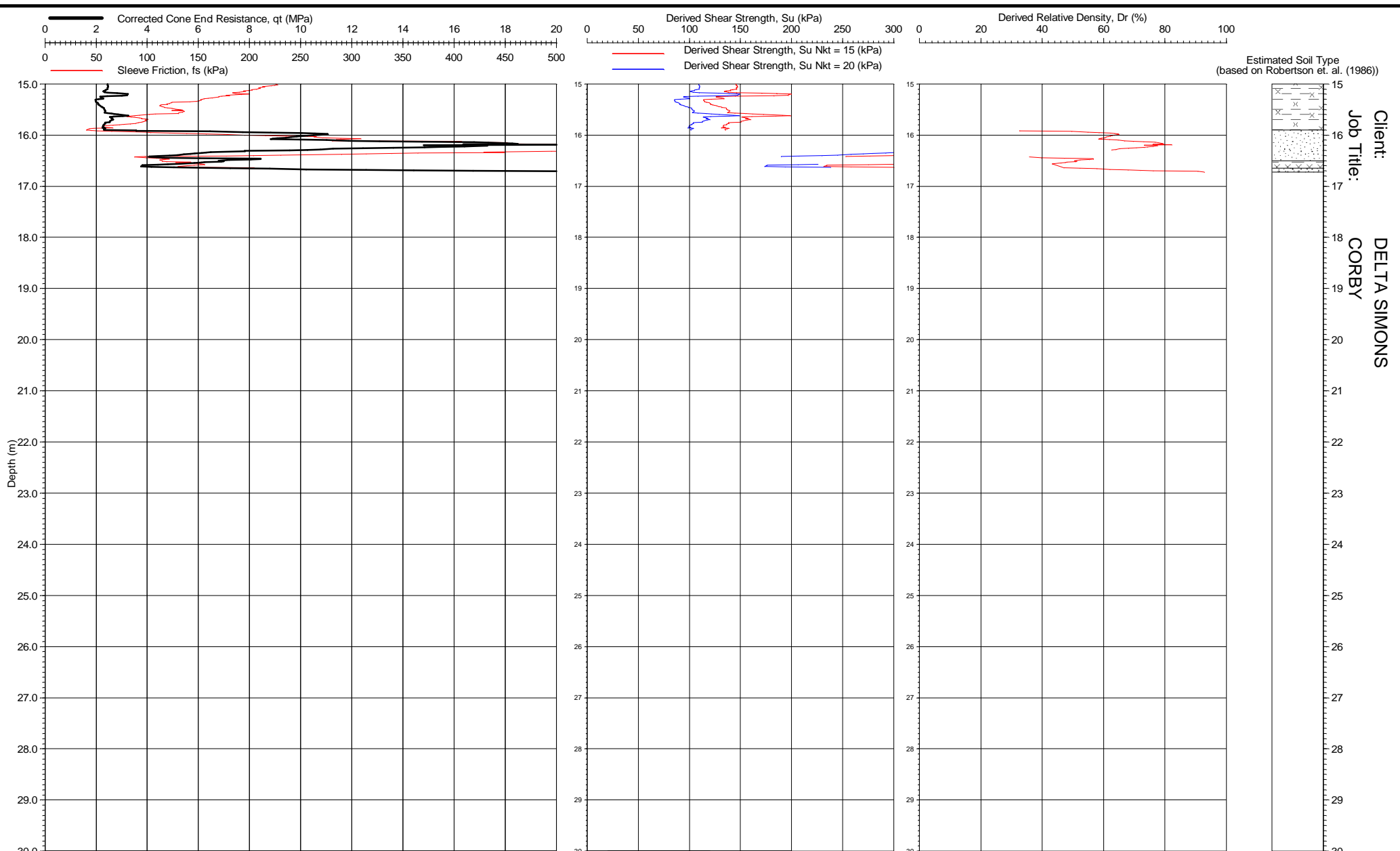


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

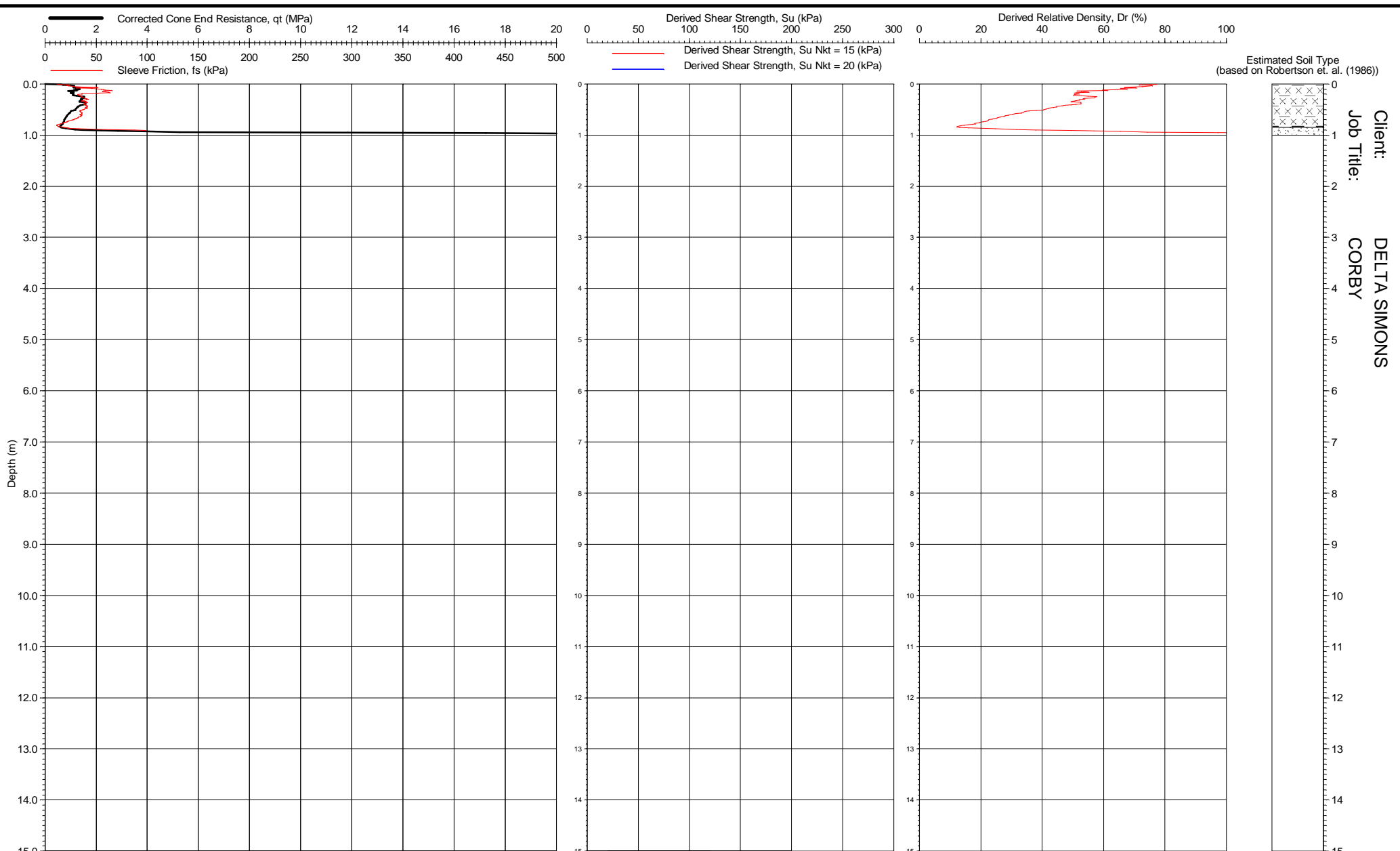
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
 insitusi.com



Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
 insitusi.com

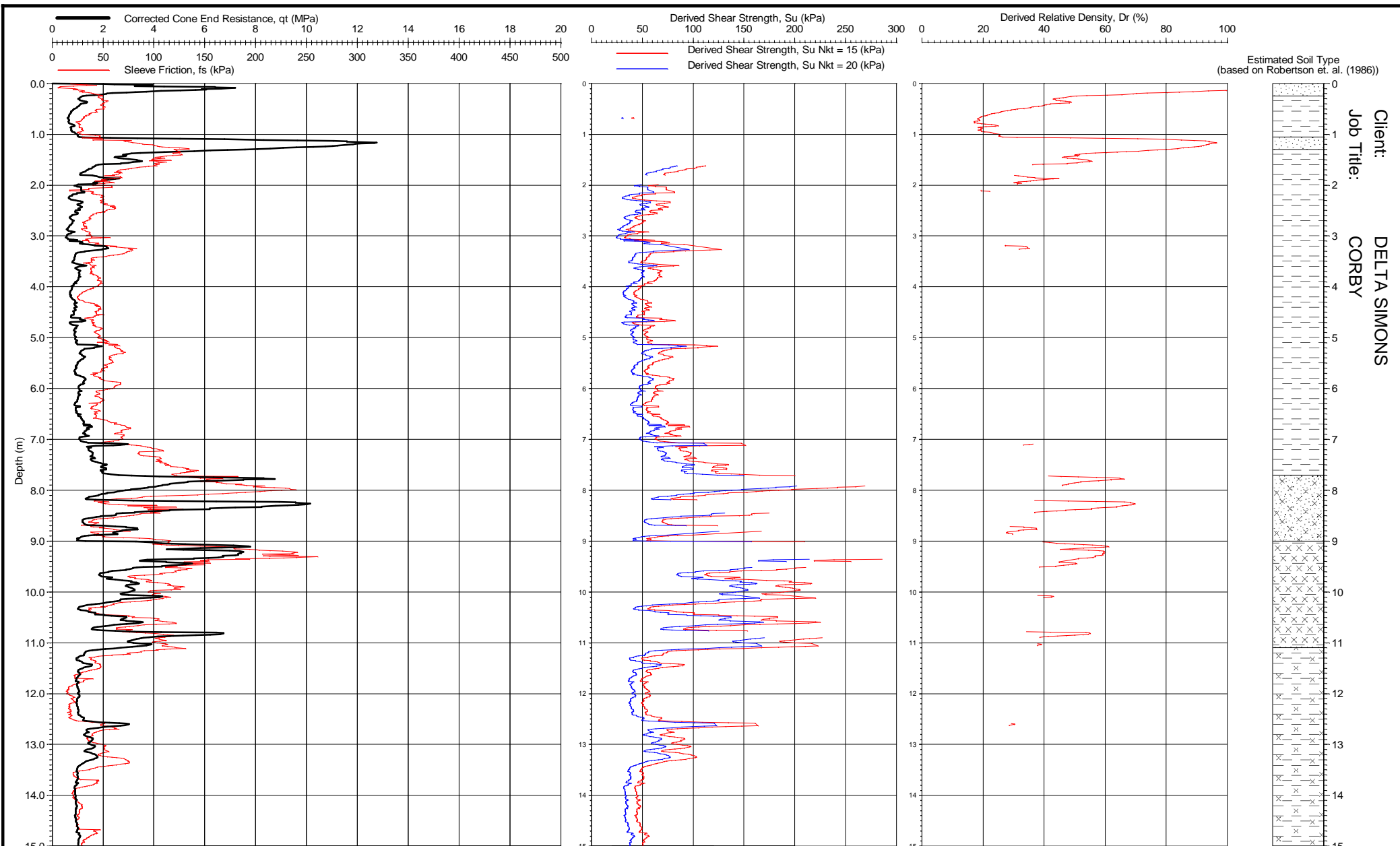


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107
 insitusi.com

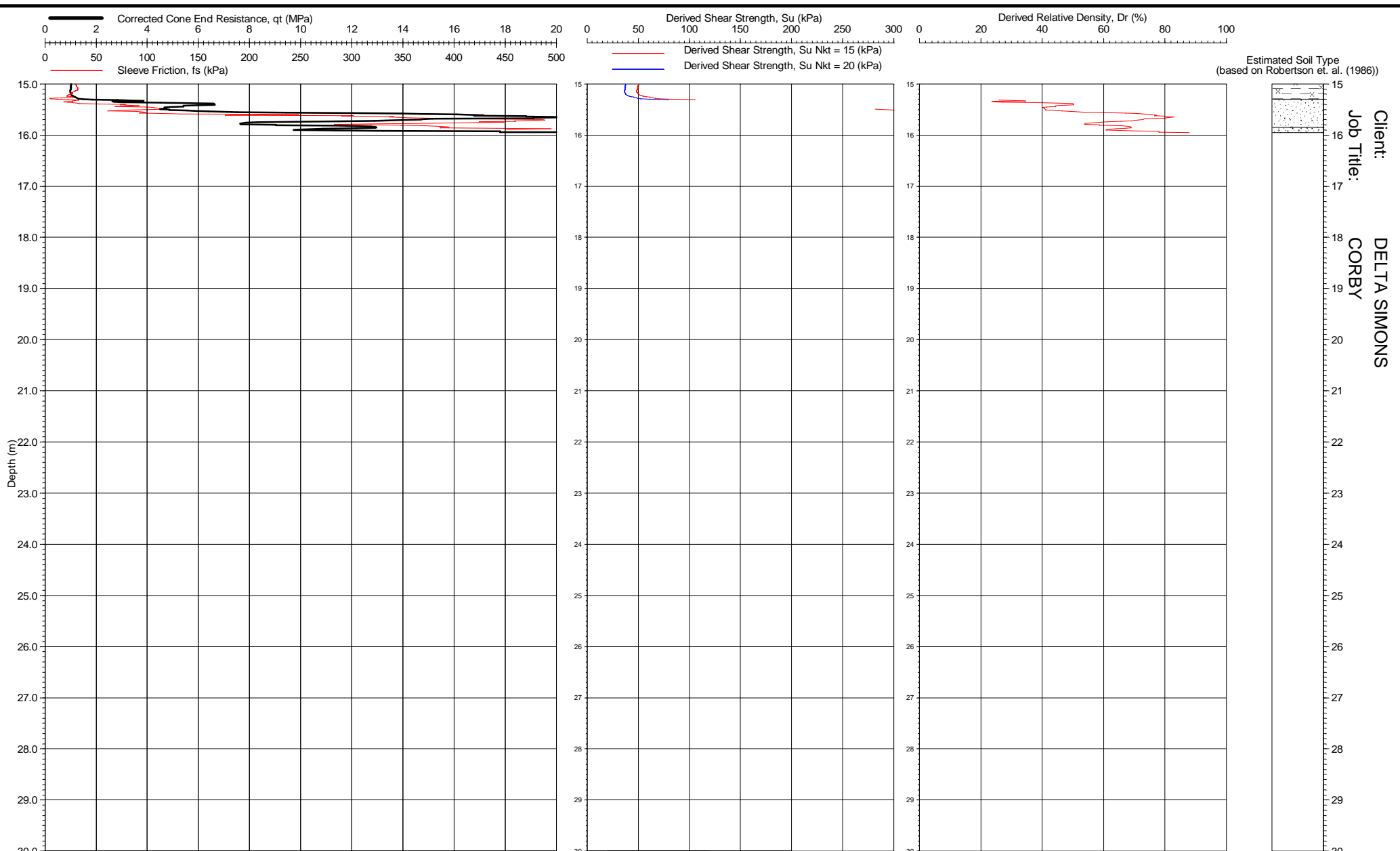


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107A
insitusi.com



Estimated Soil Type
(based on Robertson et. al. (1986))

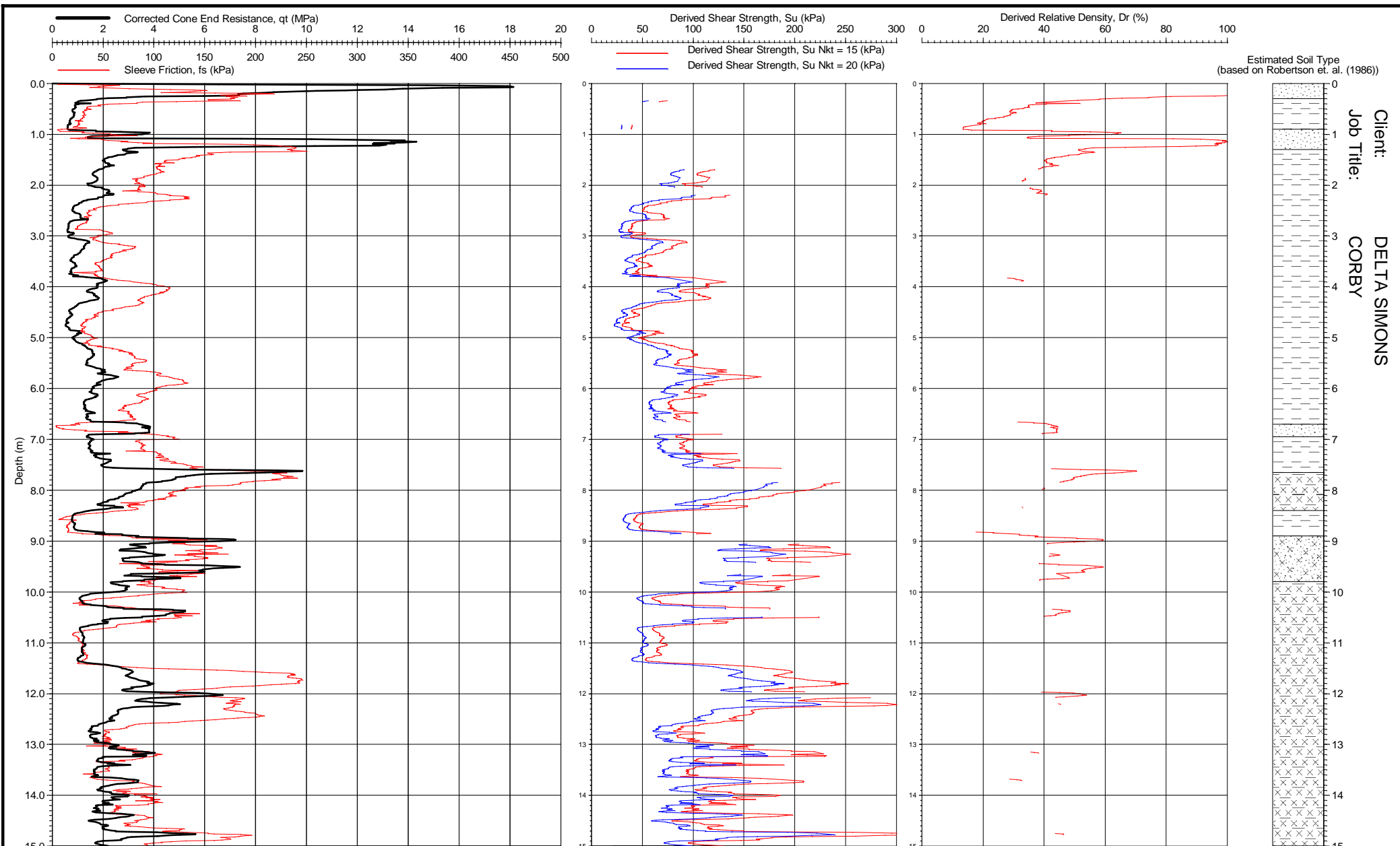
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490959.570E - 290902.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 107A
Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 107A
insitushi.com

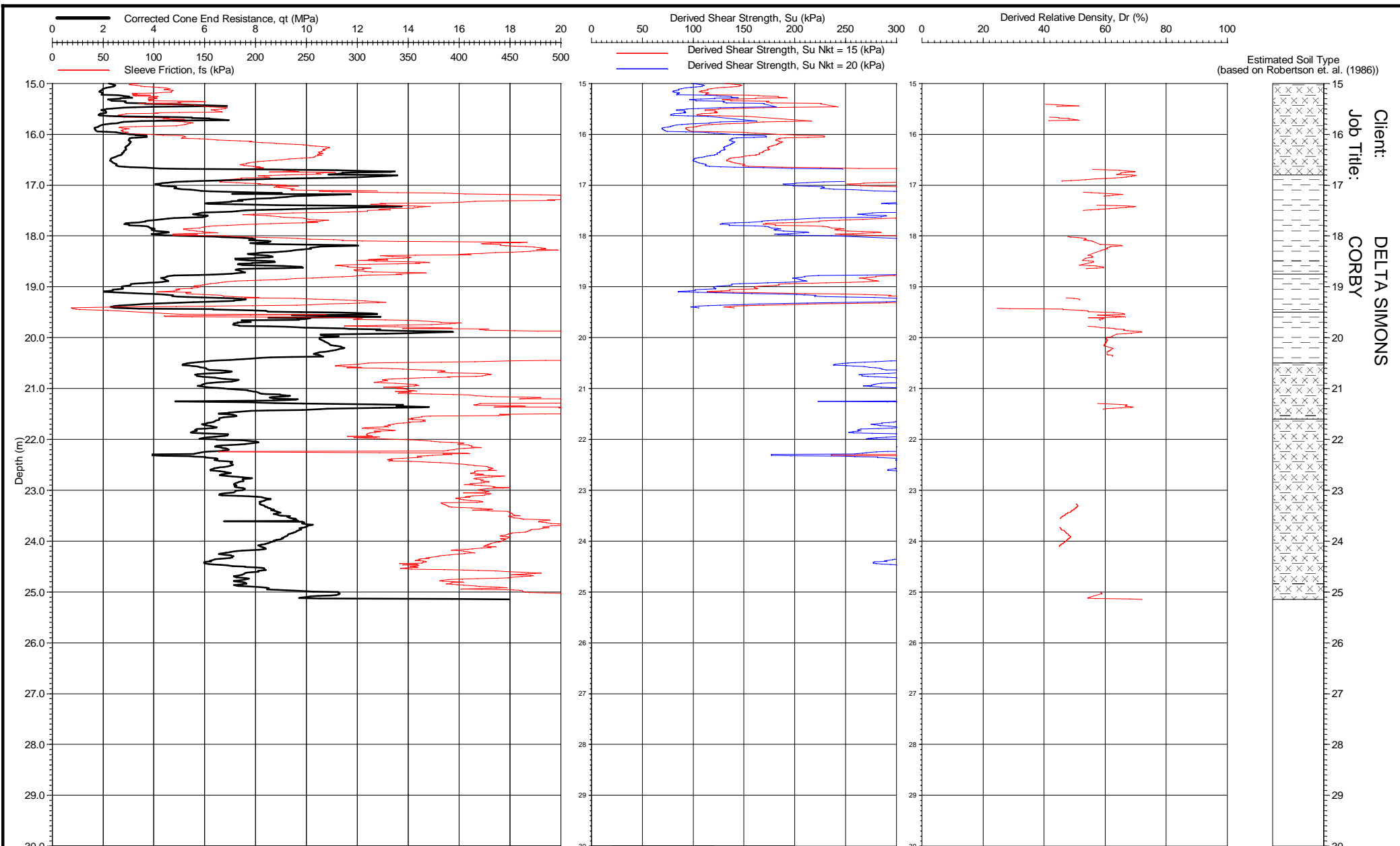
Form: CPT0004



Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 108
 insitusi.com

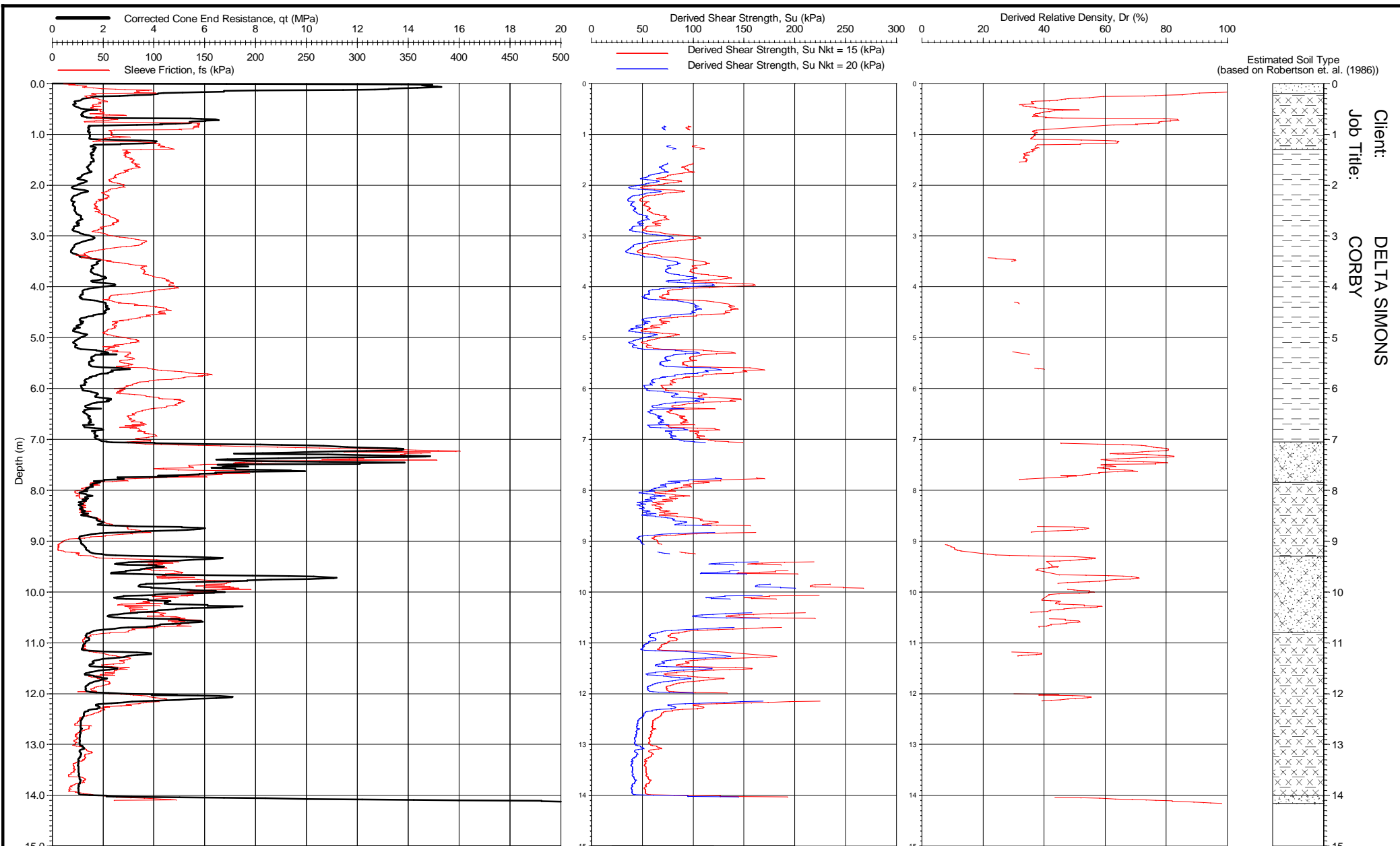


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

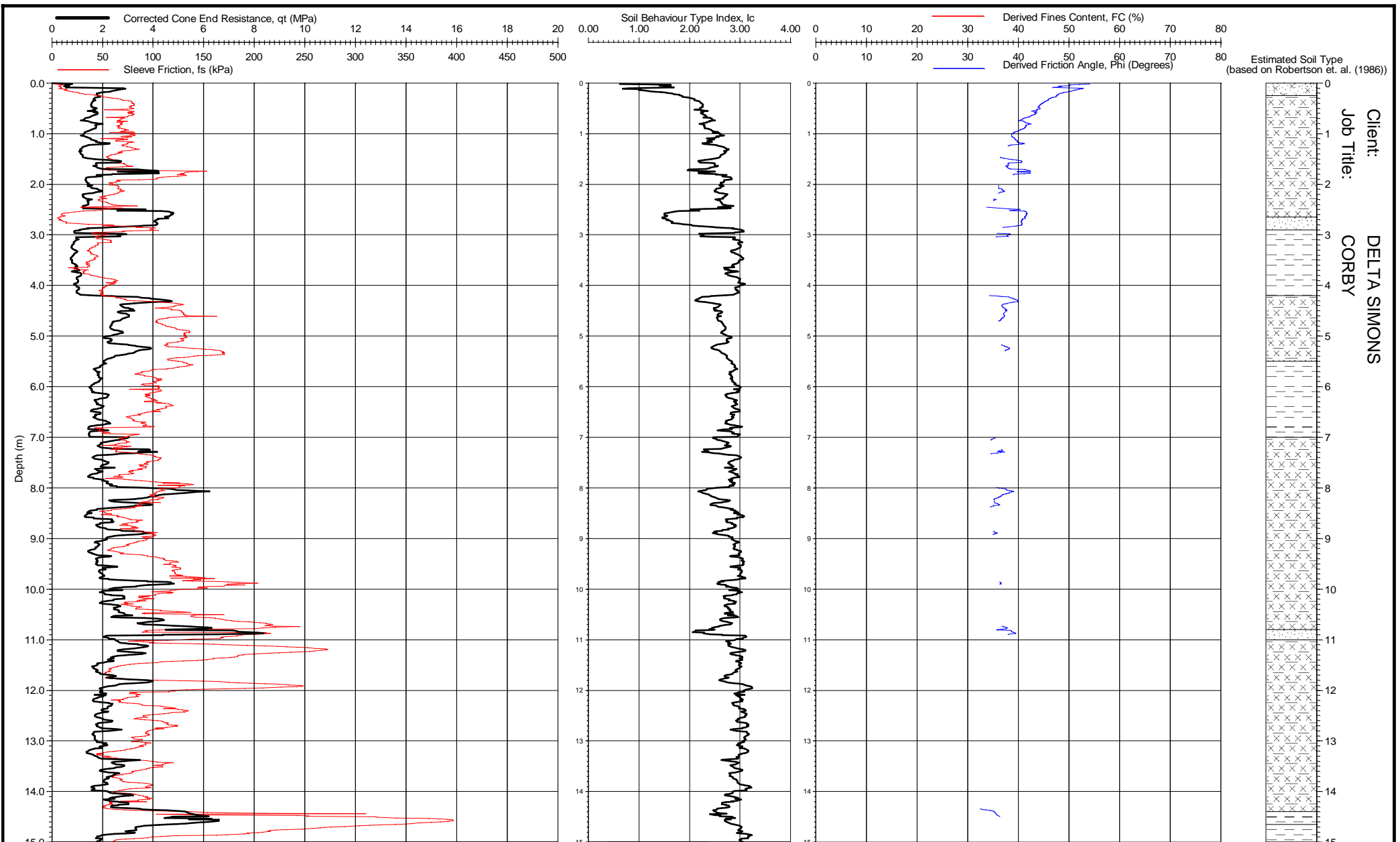
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 108
 insitusi.com



Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 109
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 109
insitusi.com

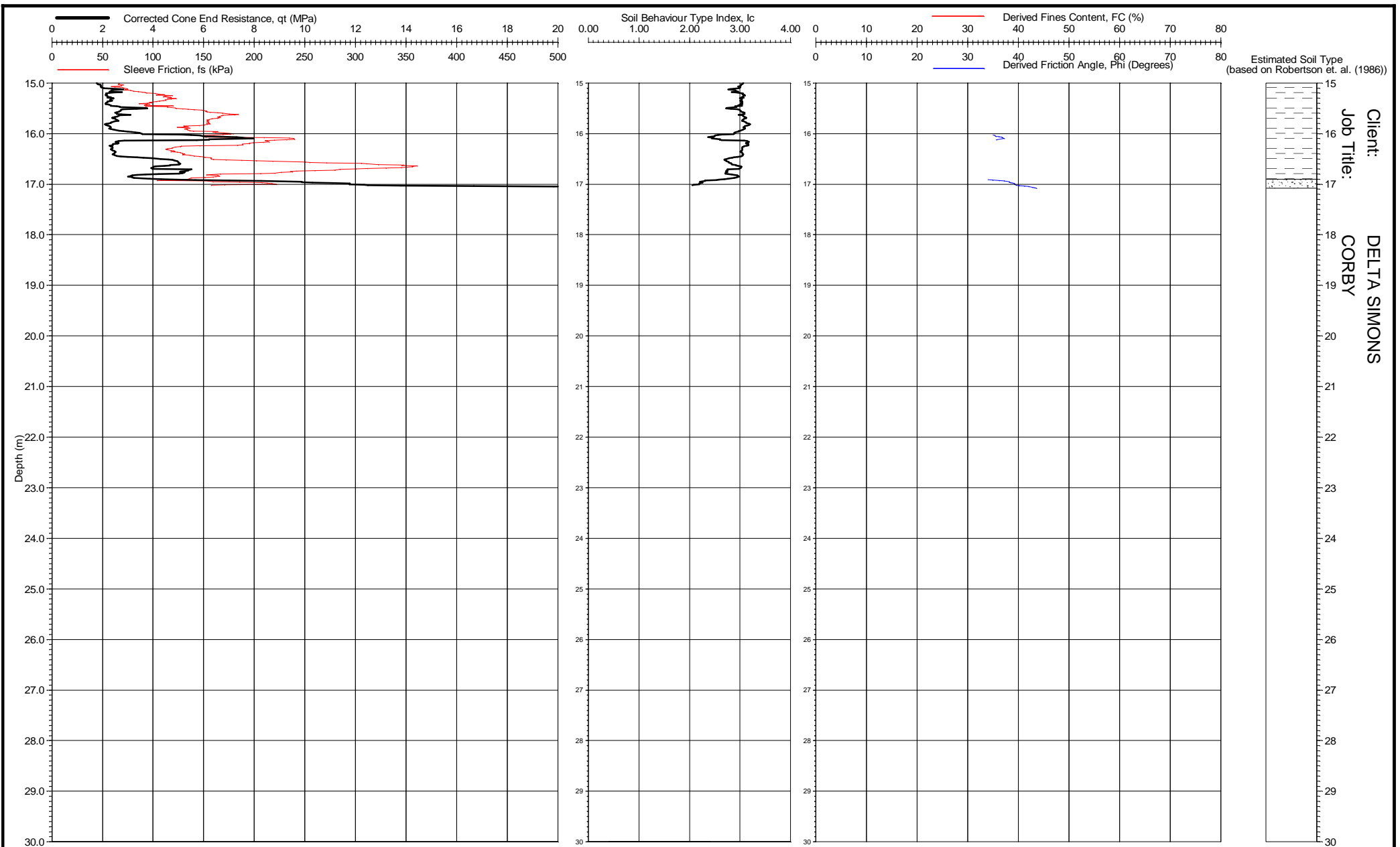


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 101
 insitusi.com



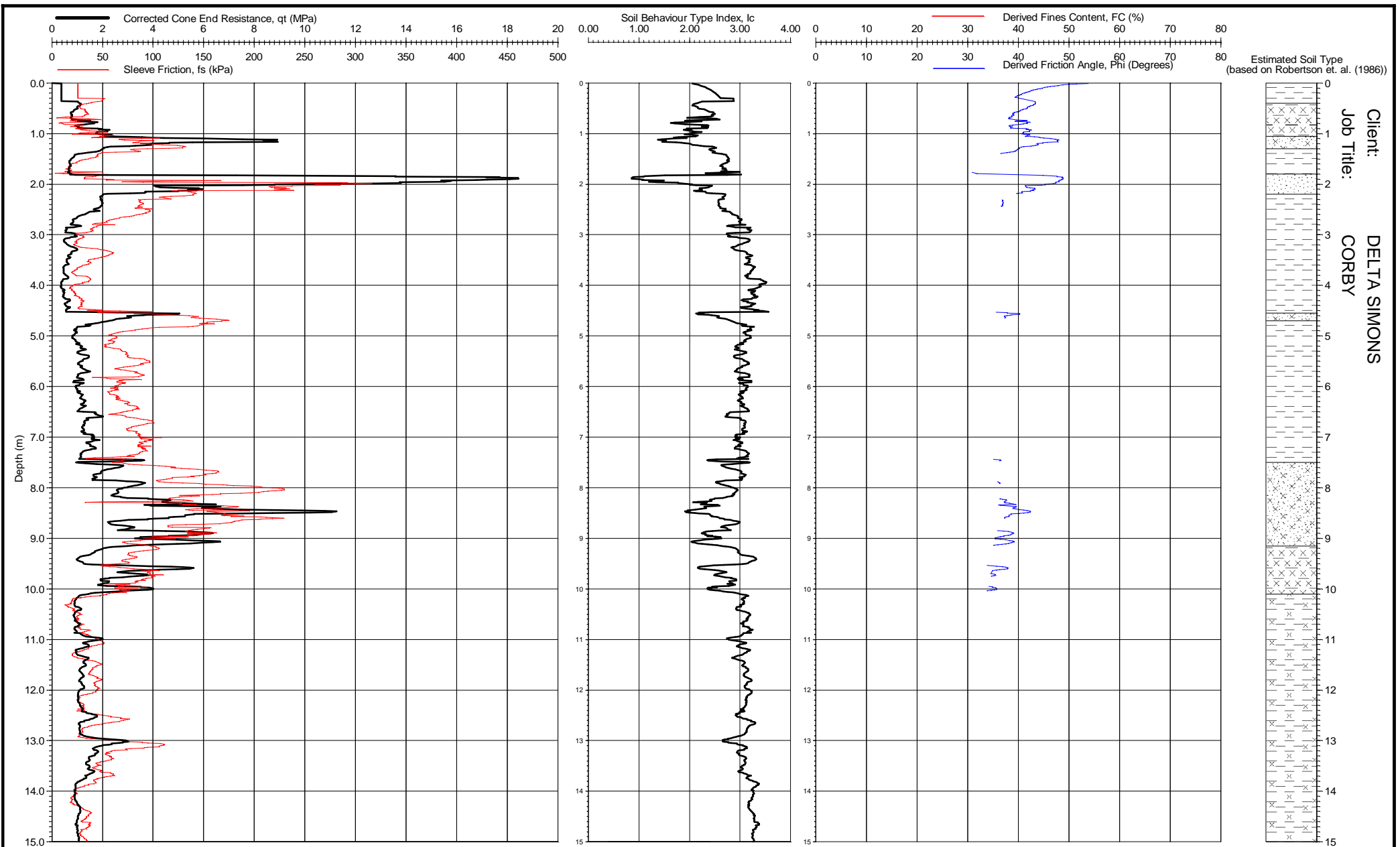
Location: Corby
 Coordinates: 491070.280E - 290870.590N
 Ground Level: 104.04 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 101
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 101
insitusi.com

Form: CPT0005

Client: DELTA SIMONS
 Job Title: CORBY

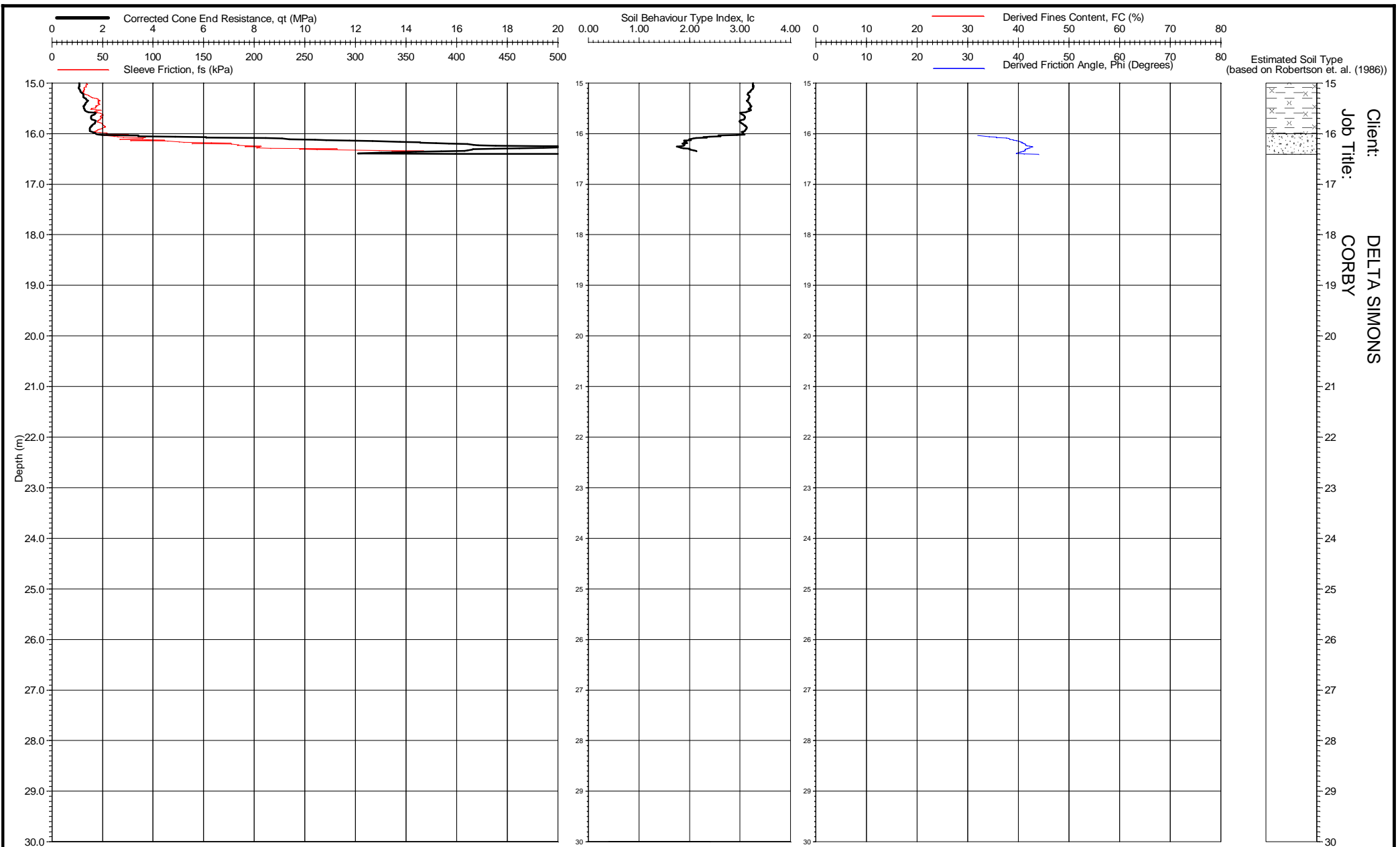


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 102
 insitusi.com

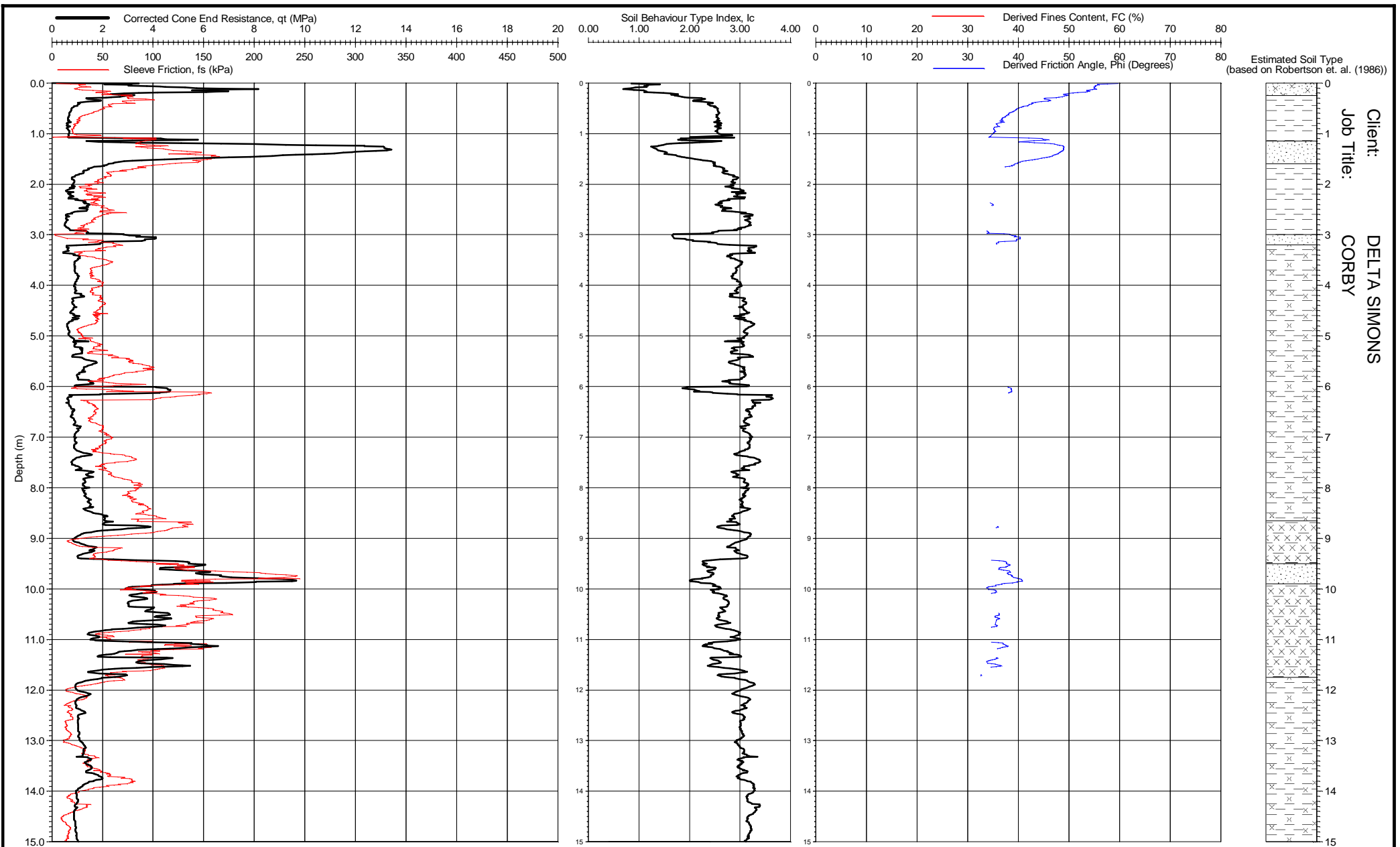


Location: Corby
 Coordinates: 491021.740E - 290918.910N
 Ground Level: 105.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 102
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 102
 insitusi.com

Client: DELTA SIMONS
 Job Title: CORBY

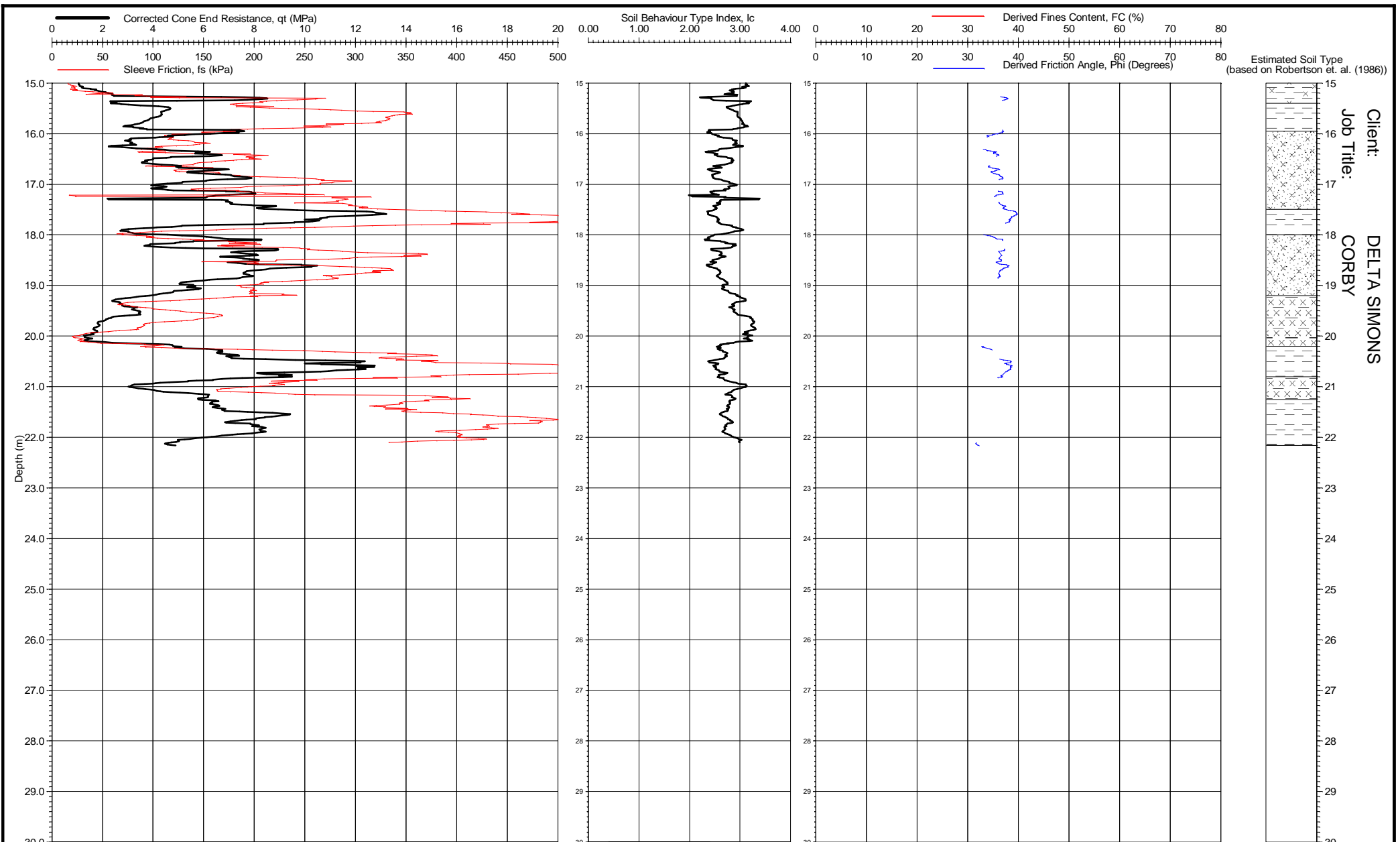


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 103
 insitusi.com

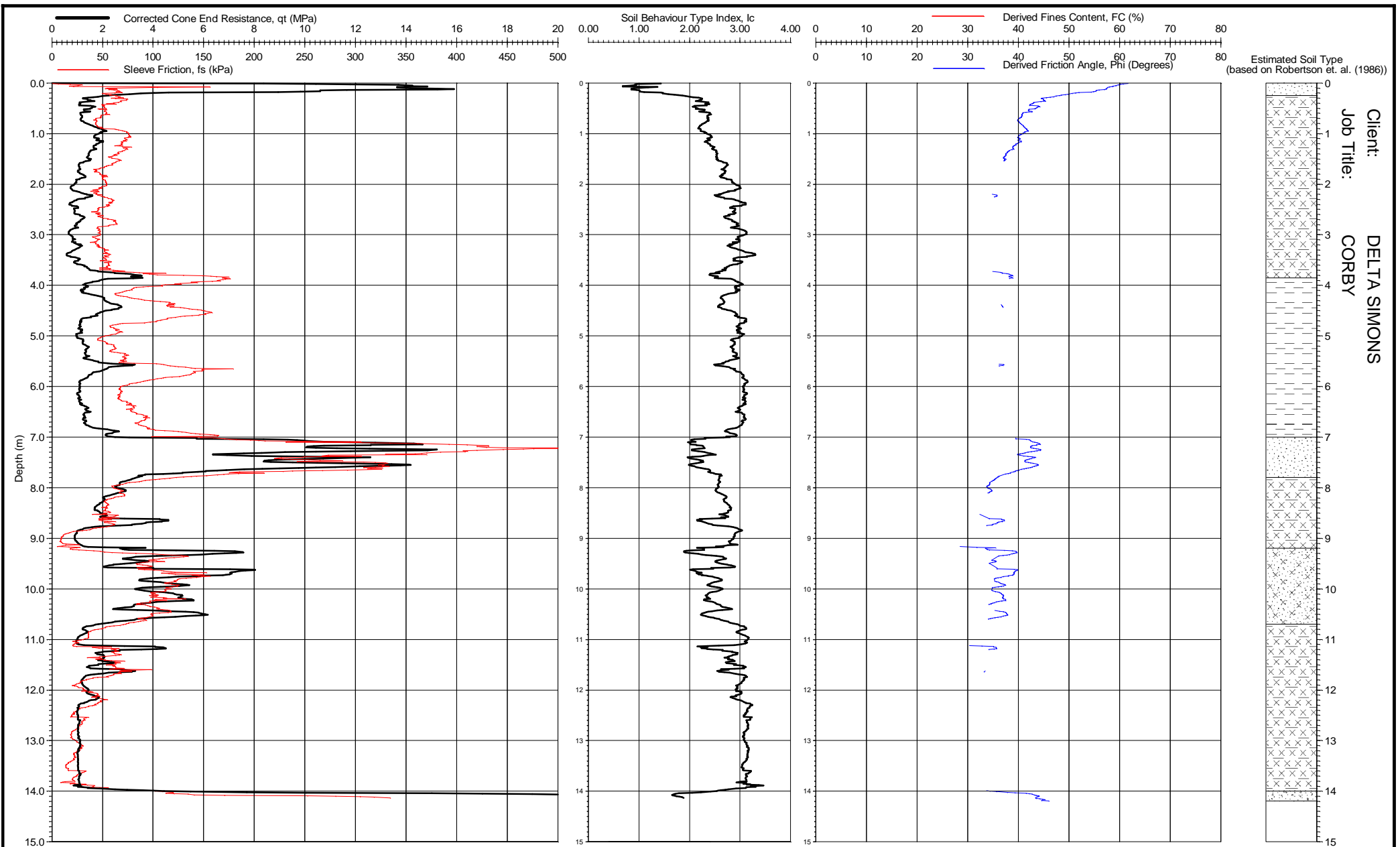


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 103
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 103
 insitusi.com

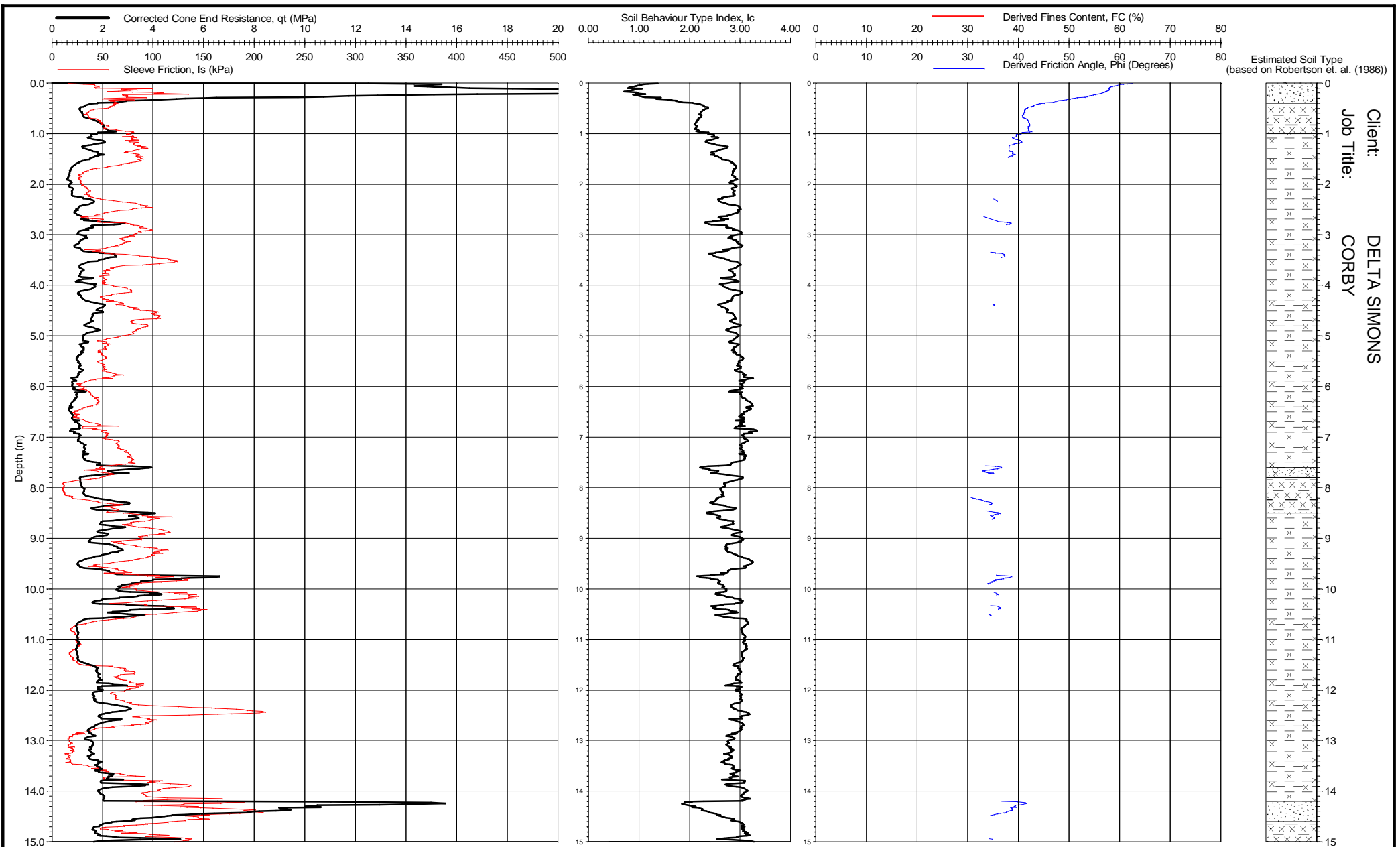


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 104
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 104
 insitusi.com

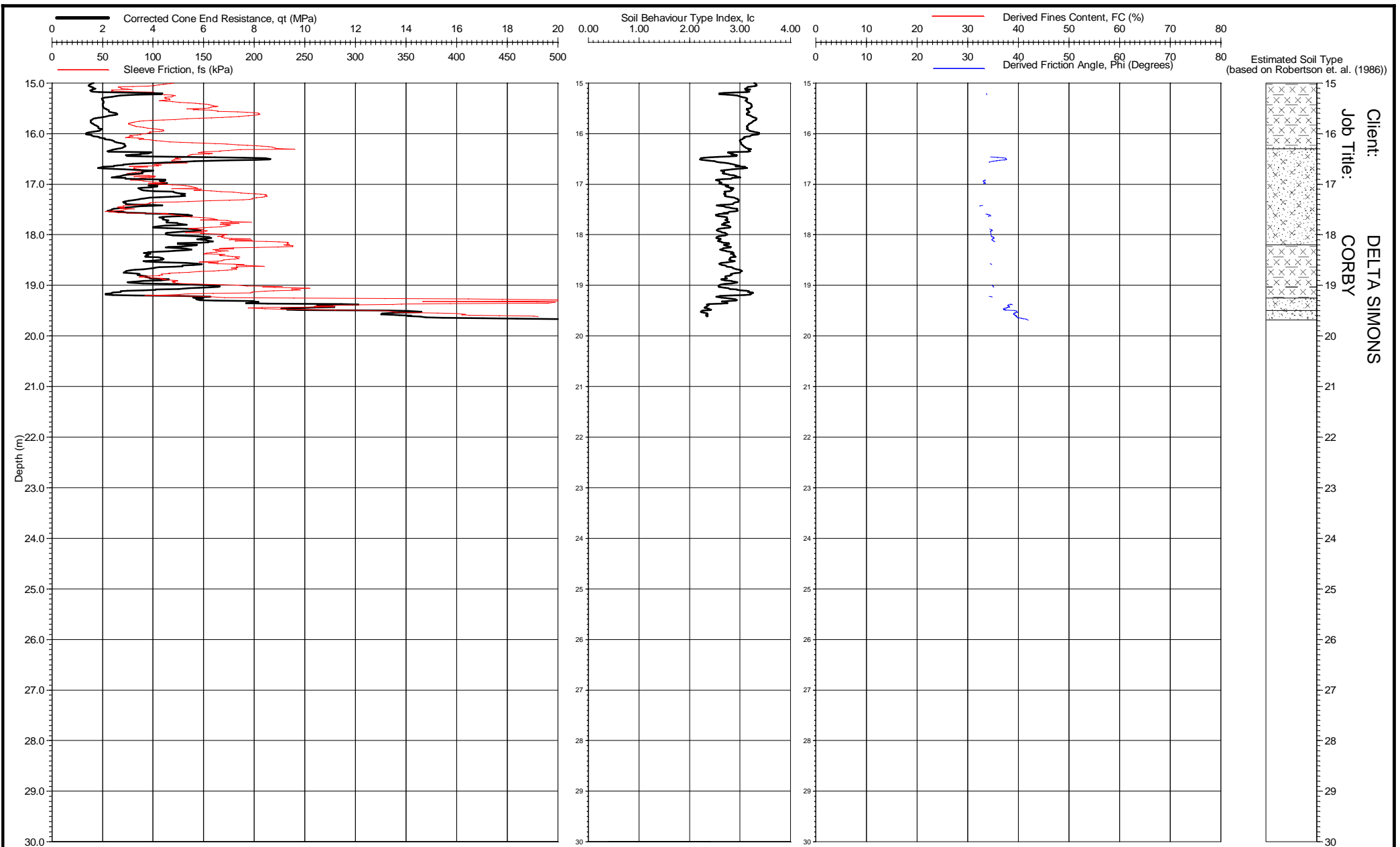


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com

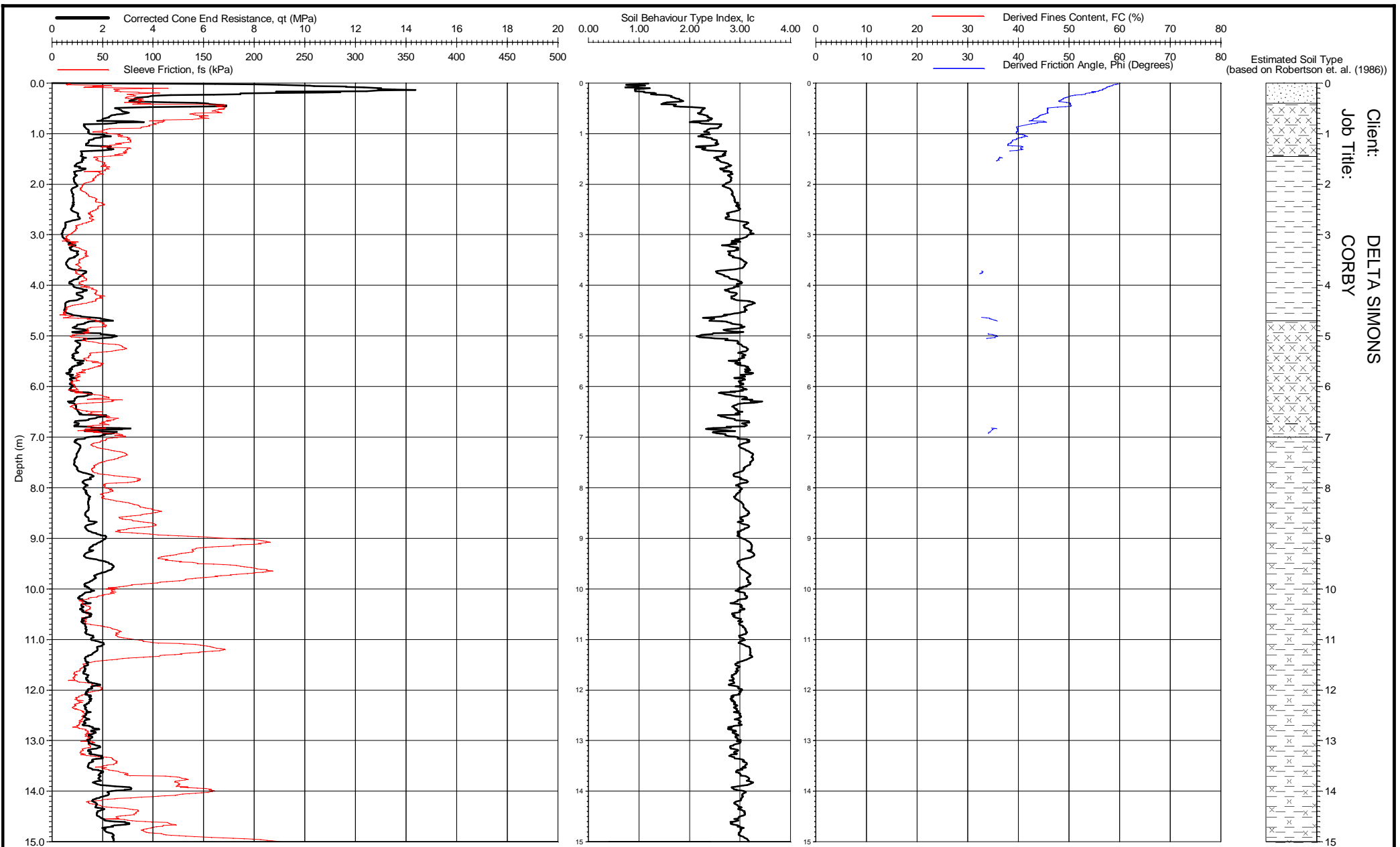


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490910.010E - 290839.530N
 Ground Level: 105.95 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 105
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 105
 insitusi.com

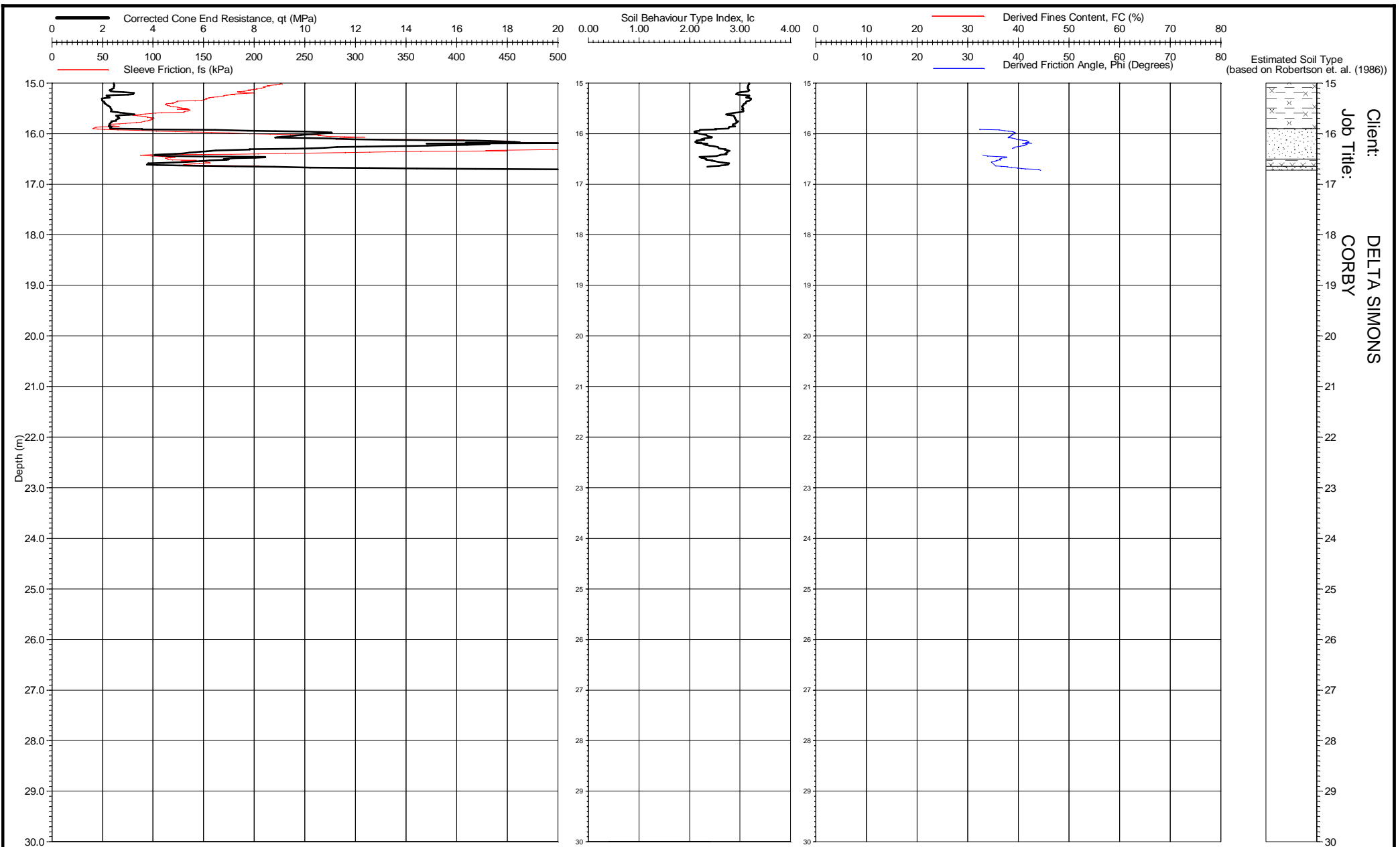


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

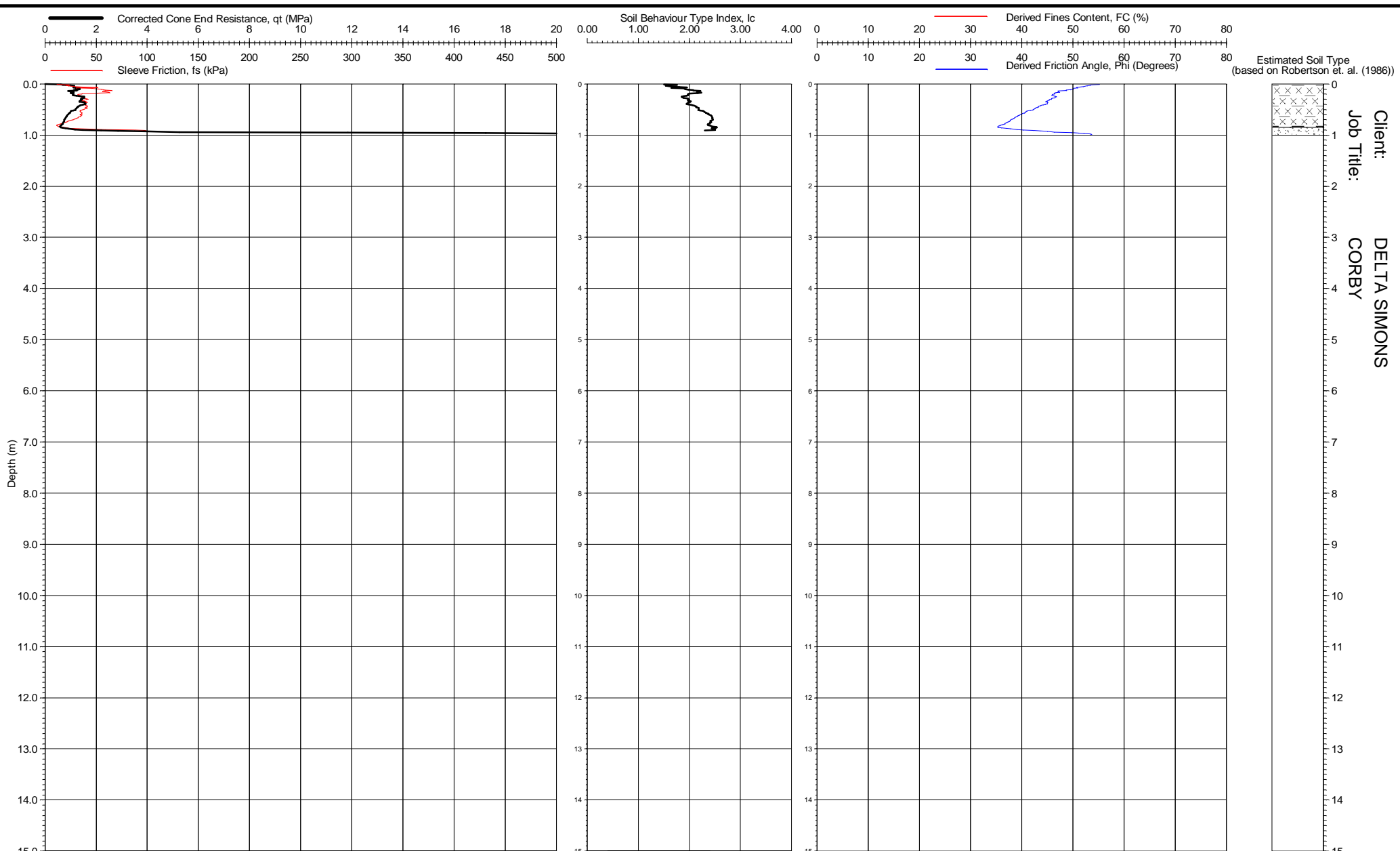
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
 insitusi.com



Location: Corby
 Coordinates: 490856.190E - 290812.940N
 Ground Level: 106.48 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 106
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 106
insitusi.com

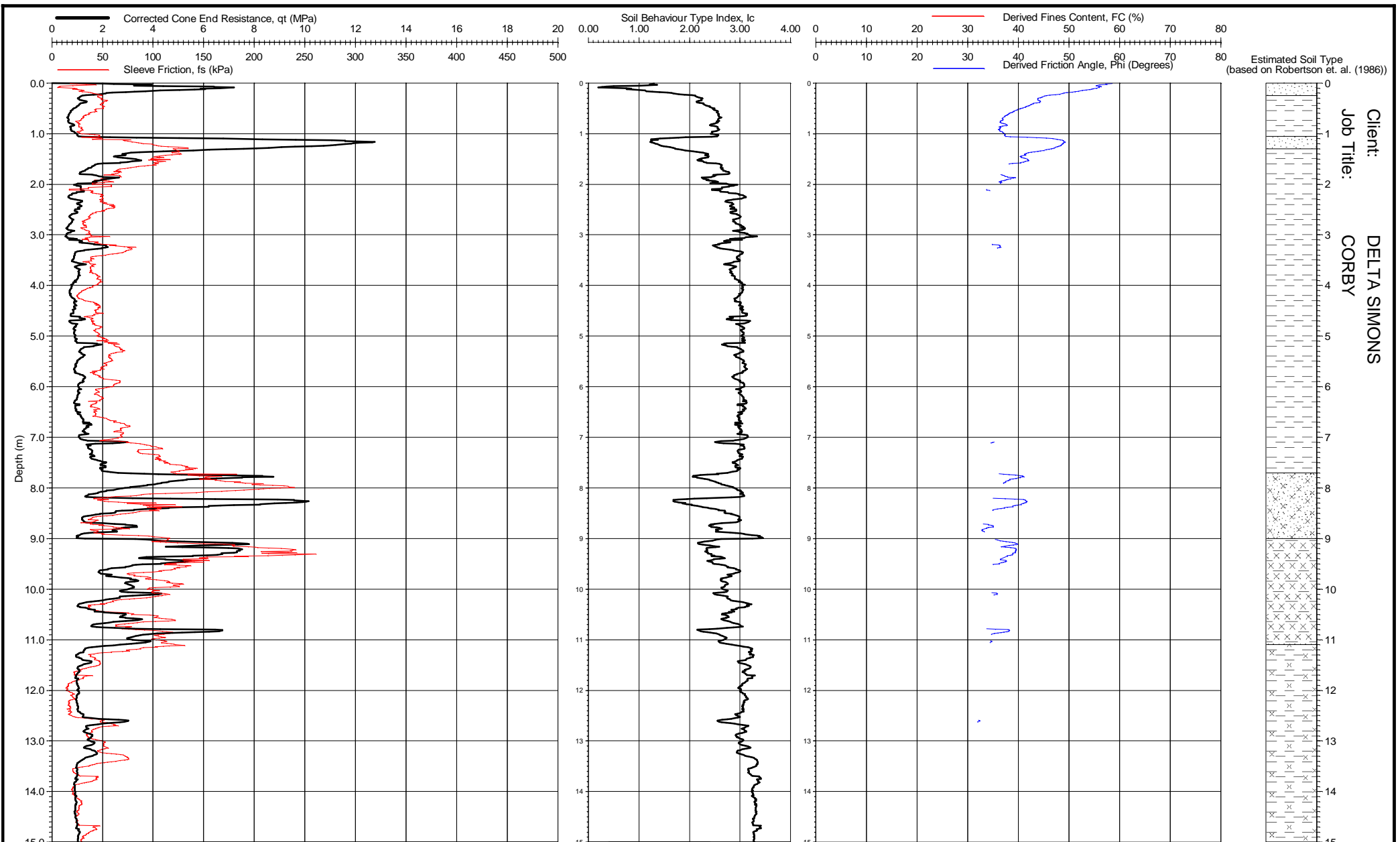


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490958.570E - 290901.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107
 insitusi.com

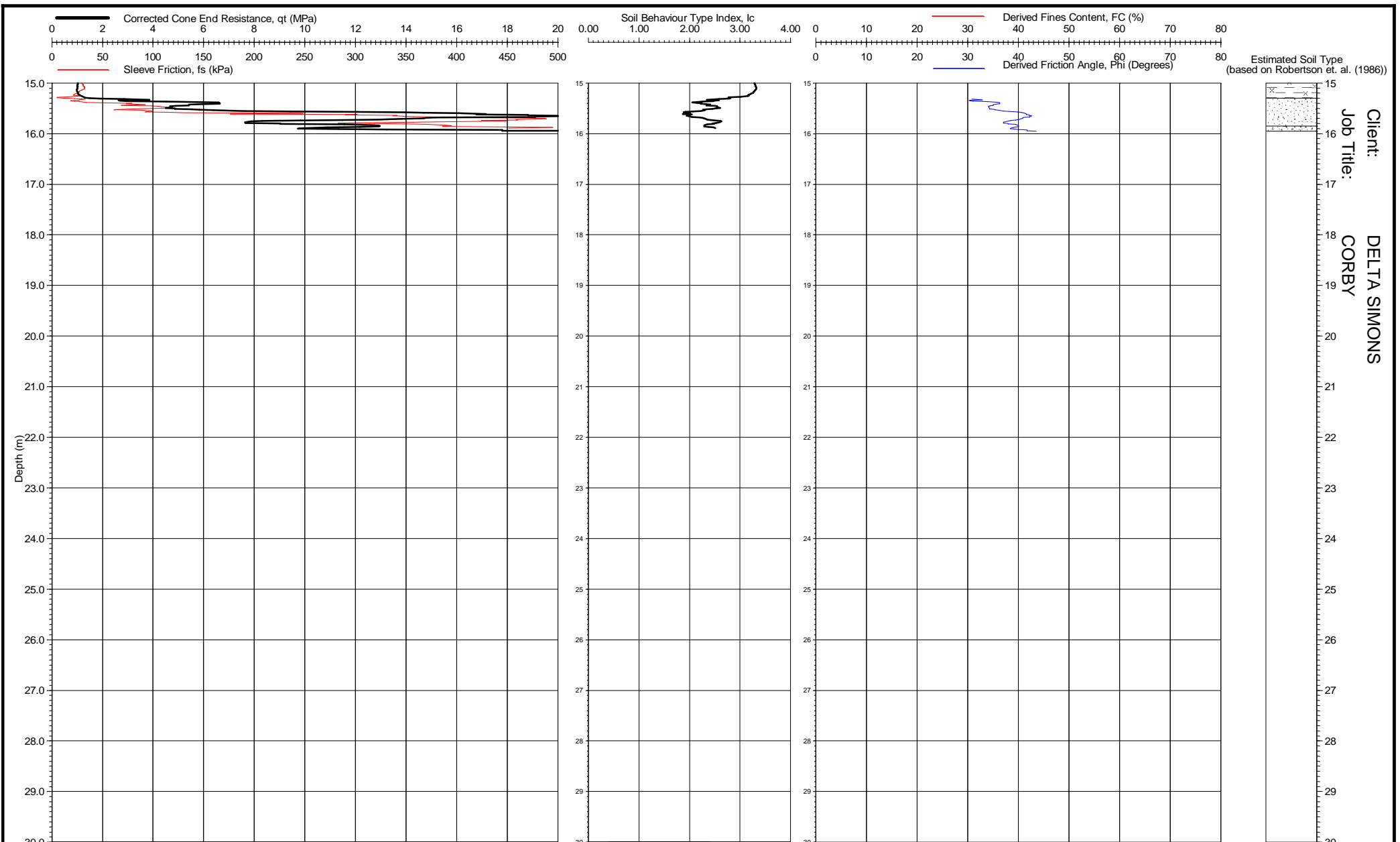


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490959.570E - 290902.230N
 Ground Level: 106.26 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 107A
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 107A
 insitusi.com



Estimated Soil Type
(based on Robertson et. al. (1986))

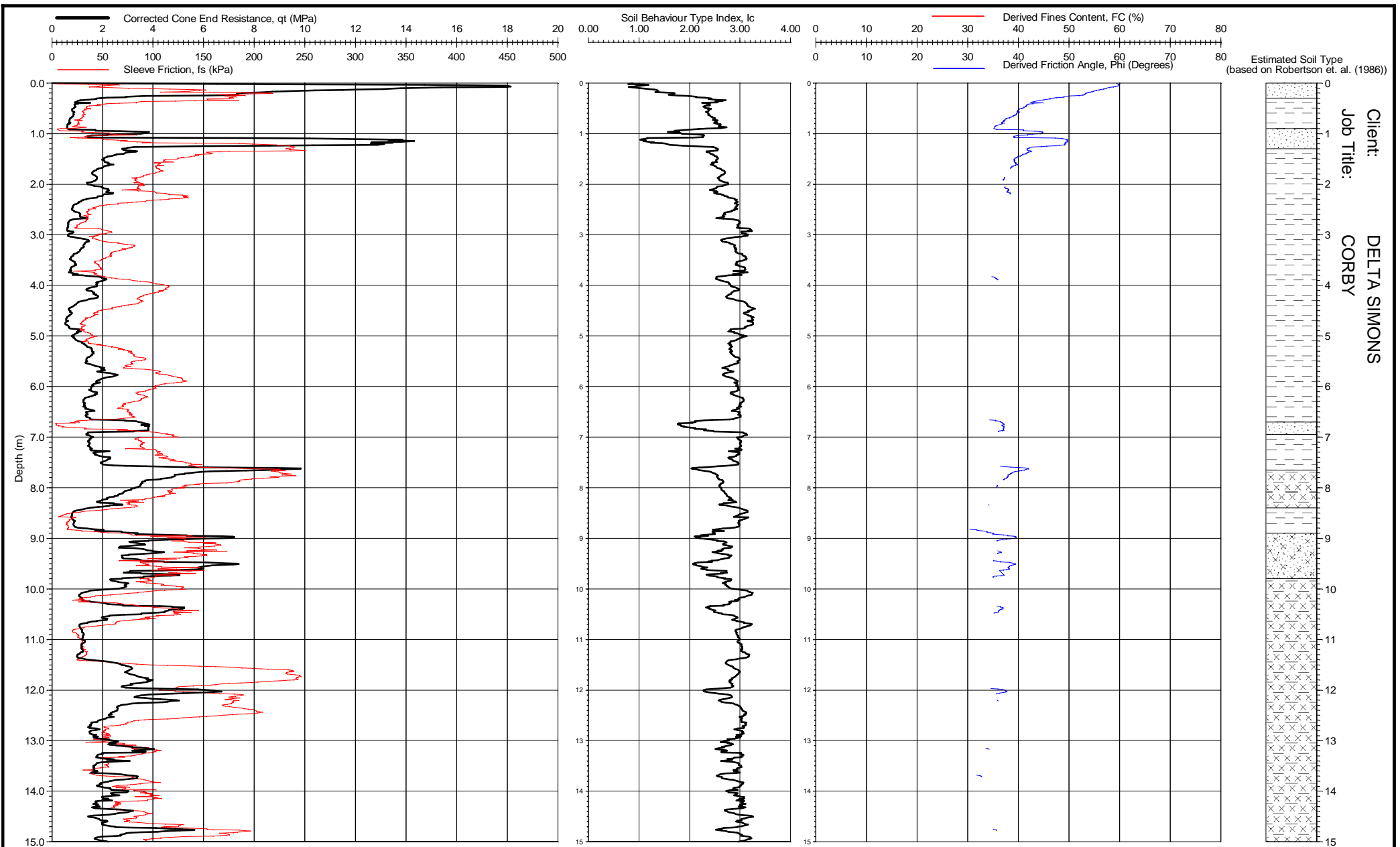
Client: DELTA SIMONS
Job Title: CORBY

Location: Corby
Coordinates: 490959.570E - 290902.230N
Ground Level: 106.26 m aD
Cone & Rig Used: S15-CFIP.1093 - CPT 008
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
Date of Plot: 13/10/2015
File Name: 1150281 - CPT 107A
Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
SITE INVESTIGATION CPT 107A
insitusi.com

Form: CPT0005

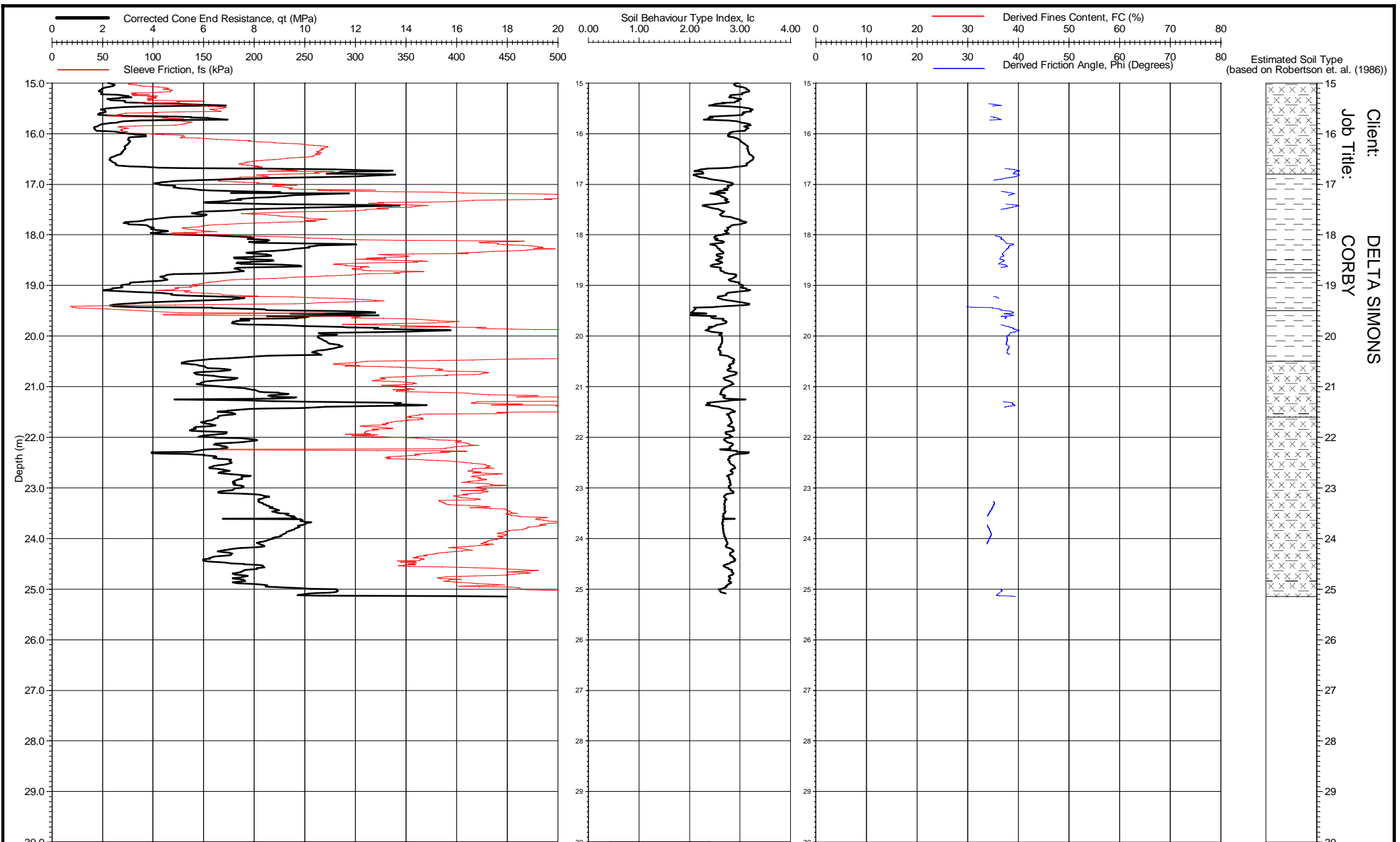


Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

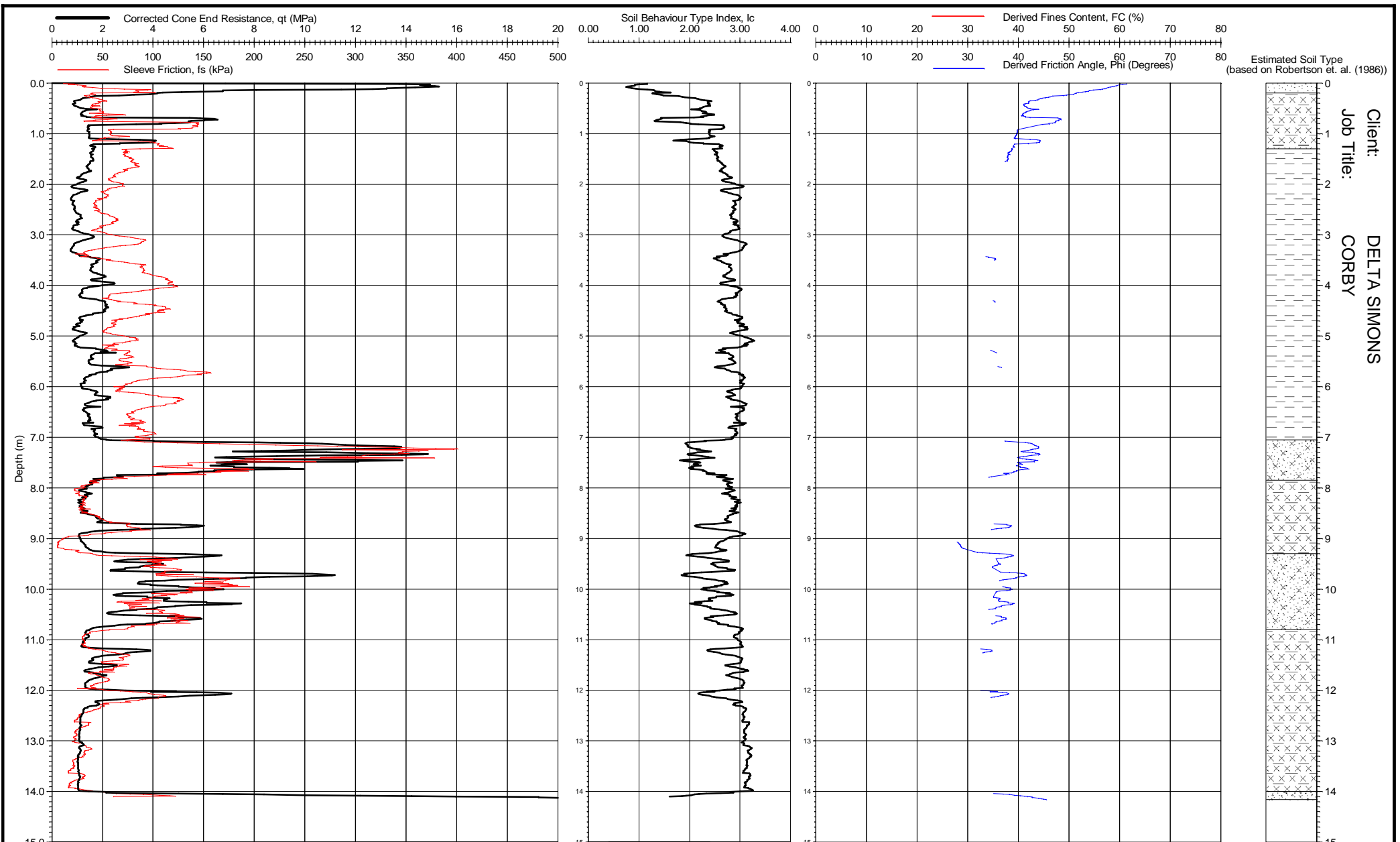
IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 108
 insitusi.com



Location: Corby
 Coordinates: 490947.750E - 290902.420N
 Ground Level: 106.55 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 108
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 108
 insitusi.com



Client: DELTA SIMONS
 Job Title: CORBY

Location: Corby
 Coordinates: 490907.410E - 290883.580N
 Ground Level: 106.75 m aD
 Cone & Rig Used: S15-CFIP.1093 - CPT 008
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015
 Date of Plot: 13/10/2015
 File Name: 1150281 - CPT 109
 Checked By: *[Signature]*

IN SITU PIEZO CONE PENETRATION TEST
 SITE INVESTIGATION CPT 109
 insitusi.com





LABORATORY REPORT



4043

Contract Number: PSL15/4533

Client's Reference: 15-0645.02

Report Date: 29 September 2015

Client Name: Delta Simons
3 Henley Office Park
Doddington Road
Lincoln
LN6 3QR

For the attention of: Stacey Ragsdale

Contract Title: Shelton Road, Corby

Date Received: 15/09/2015

Date Commenced: 15/09/2015

Date Completed: 29/09/2015

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson
(Director)

D Lambe
(Senior Technician)

A Watkins
(Director)

S Royle
(Senior Technician)





M Beastall
(Laboratory Manager)

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Doncaster DN4 0AR
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awatkins@prosoils.co.uk

Page 1 of





SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH101		B	1.00-1.50	Brown gravelly very sandy silty CLAY.
BH101		U	2.50	Stiff brown gravelly sandy silty CLAY.
BH101		B	11.00-11.50	Brown mottled grey slightly gravelly very sandy silty CLAY.
BH101		U	13.50	Firm brown slightly gravelly sandy silty CLAY.
BH102		D	2.20	Dark brown slightly gravelly very sandy silty CLAY.
BH102		D	11.50	Dark brown silty CLAY with some organic material.
BH102		B	12.00-12.50	Dark grey slightly gravelly very sandy silty CLAY.
BH102		D	14.50	Dark brown silty CLAY with some organic material.
BH103		B	0.50-1.00	Brown very sandy very clayey silty GRAVEL.
BH103		B	3.50-4.00	Brown mottled grey gravelly sandy silty CLAY.
BH103		U	4.50	Firm brown very gravelly very sandy silty CLAY.
BH103		U	16.50	Soft brown slightly gravelly sandy silty CLAY.
BH104		D	3.00	Dark brown slightly gravelly sandy silty CLAY.
BH104		B	10.50-11.00	Brown mottled grey gravelly sandy silty CLAY.
BH105		U	3.50-3.95	Brown slightly gravelly sandy silty CLAY.
BH105		U	12.00-12.45	Brown gravelly sandy silty CLAY.
BH106		B	1.00-1.50	Brown gravelly very sandy silty CLAY.
BH106		D	3.00	Brown slightly gravelly sandy silty CLAY.
BH106		B	4.50-5.00	Brown gravelly very sandy silty CLAY.

 Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02	

SUMMARY OF LABORATORY SOIL DESCRIPTIONS




Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH106		U	7.50-7.95	Brown gravelly very sandy silty CLAY.
BH106		D	10.00	Dark brown silty CLAY with some organic material.
BH106		D	11.50	Dark grey gravelly sandy silty CLAY.
BH106		U	13.50-13.95	Dark brown slightly sandy CLAY with some organic material.
BH107		B	1.00-1.50	Grey gravelly very sandy silty CLAY.
BH107		D	3.00	Brown gravelly sandy silty CLAY.
BH107		D	11.50	Grey slightly gravelly very sandy silty CLAY.
BH107		B	12.50-13.00	Grey slightly gravelly very sandy silty CLAY.
BH107		U	16.50	Stiff brown slightly gravelly sandy silty CLAY.
BH108		D	4.00	Brown slightly gravelly sandy silty CLAY.
BH108		B	4.50-5.00	Brown gravelly sandy silty CLAY.
BH108		D	8.00	Dark brown silty CLAY with some organic material.
BH108		B	8.00-8.50	Grey slightly gravelly very sandy silty CLAY.
BH108		U	13.50	Soft brown slightly very sandy silty CLAY.
BH109		B	3.50-4.00	Brown gravelly very sandy silty CLAY.
BH109		D	9.00	Dark brown mottled grey slightly gravelly sandy silty CLAY.
BH110		D	9.00	Dark brown silty CLAY with some organic material.
R1		D	29.00	Dark grey slightly sandy silty CLAY.
R2		D	20.80	Dark grey slightly sandy silty CLAY.

 Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02	

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
R3		D	23.50	Dark grey slightly sandy silty CLAY.
R4		D	25.00	Dark grey slightly sandy silty CLAY.



Compiled by	Date	Checked by	Date	Approved by	Date
	29/09/15		29/09/15		29/09/15
SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02





SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % <small>Clause 3.2</small>	Bulk Density Mg/m ³ <small>Clause 7.2</small>	Dry Density Mg/m ³ <small>Clause 7.2</small>	Particle Density Mg/m ³ <small>Clause 8.2</small>	Liquid Limit % <small>Clause 4.3/4.4</small>	Plastic Limit % <small>Clause 5.3</small>	Plasticity Index % <small>Clause 5.4</small>	% Passing .425mm	Remarks
BH102		D	2.20	24				33	19	14	97	Low plasticity CL.
BH102		D	11.50	61				88	42	46	100	Very high plasticity MV.
BH102		D	14.50	64				86	41	45	100	Very high plasticity MV.
BH104		D	3.00	22				40	20	20	98	Intermediate plasticity CI.
BH106		D	3.00	20				37	19	18	95	Intermediate plasticity CI.
BH106		D	10.00	61				100	46	54	100	Extremely high plasticity ME.
BH107		D	3.00	16				40	20	20	90	Intermediate plasticity CI.
BH107		D	11.50	17				31	17	14	95	Low plasticity CL.
BH108		D	4.00	24				46	23	23	98	Intermediate plasticity CI.
BH108		D	8.00	50				81	40	41	100	Very high plasticity MV.
BH109		D	9.00	24				42	21	21	95	Intermediate plasticity CI.
BH110		D	9.00	61				89	42	47	100	Very high plasticity MV.
R1		D	29.00	13				48	23	25	100	Intermediate plasticity CI.
R2		D	20.80	15				50	24	26	100	Intermediate plasticity CI.
R3		D	23.50	19				51	24	27	100	High plasticity CH.
R4		D	25.00	18				60	28	32	100	High plasticity CH.

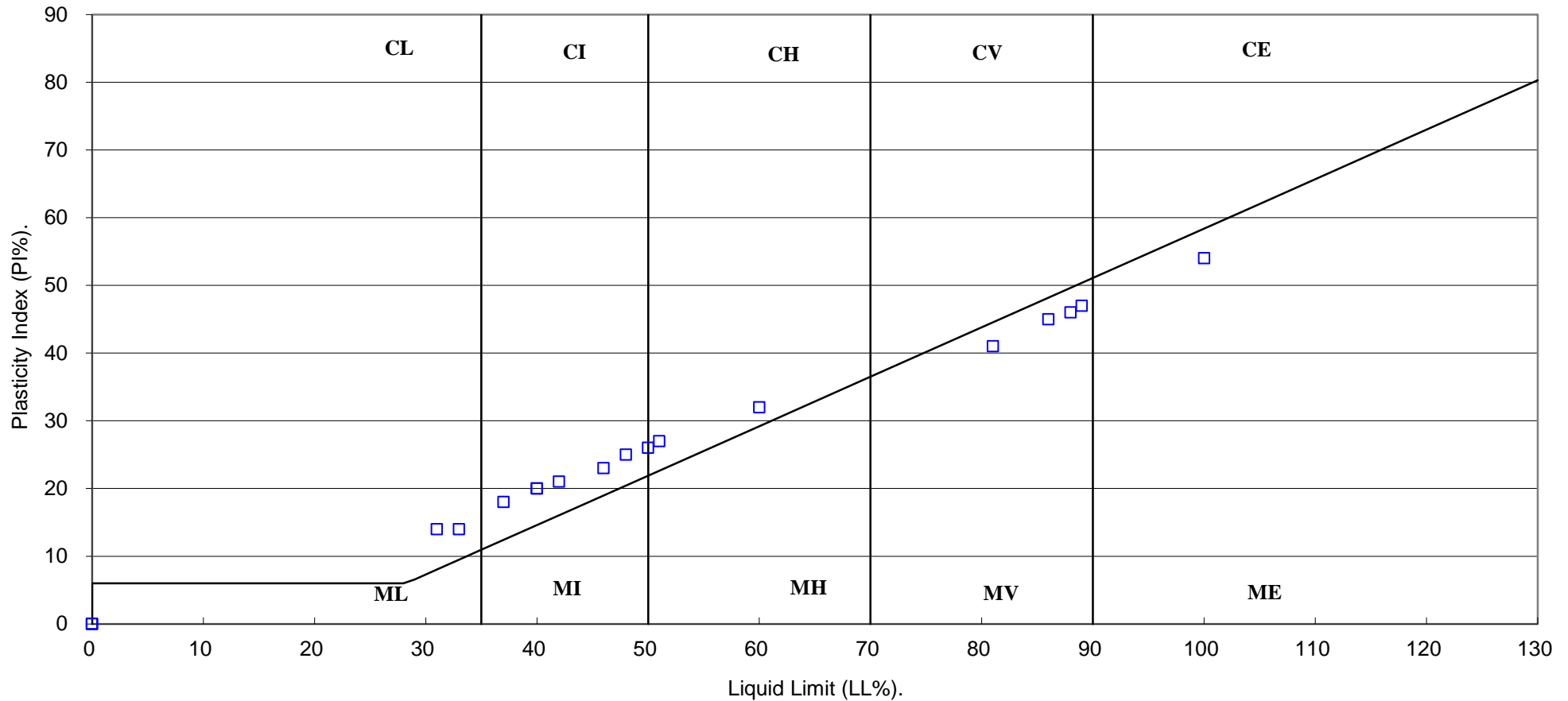
SYMBOLS : NP : Non Plastic

* : Liquid Limit and Plastic Limit Wet Sieved.

 Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	SHELTON ROAD, CORBY.					Contract No:
					Client Ref:	15-0645.02

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	29/09/15	<i>[Signature]</i>	29/09/15	<i>[Signature]</i>	29/09/15
SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02

Particle Size Distribution Test

BS1377 : Part 2 : 1990

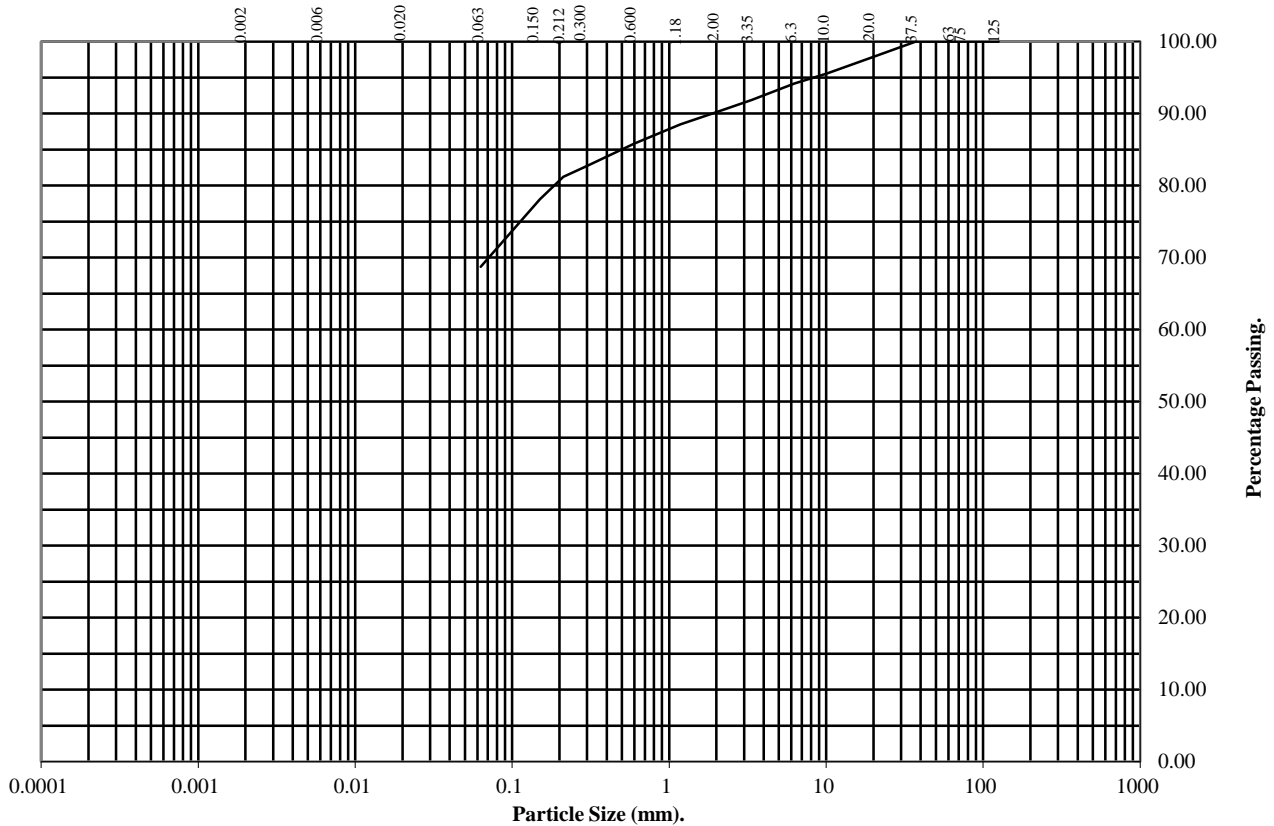
Wet Sieve, Clause 9.2

Hole Number: **BH101**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	96
6.3	94
3.35	92
2	90
1.18	88
0.6	86
0.3	83
0.212	81
0.15	78
0.063	69

Soil Fraction	Total Percentage
Cobbles	0
Gravel	10
Sand	21
Silt / Clay	69

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

 Professional Soils Laboratory	SHELTON ROAD, CORBY.	Contract No.: PSL15/4533
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Particle Size Distribution Test

BS1377 : Part 2 : 1990

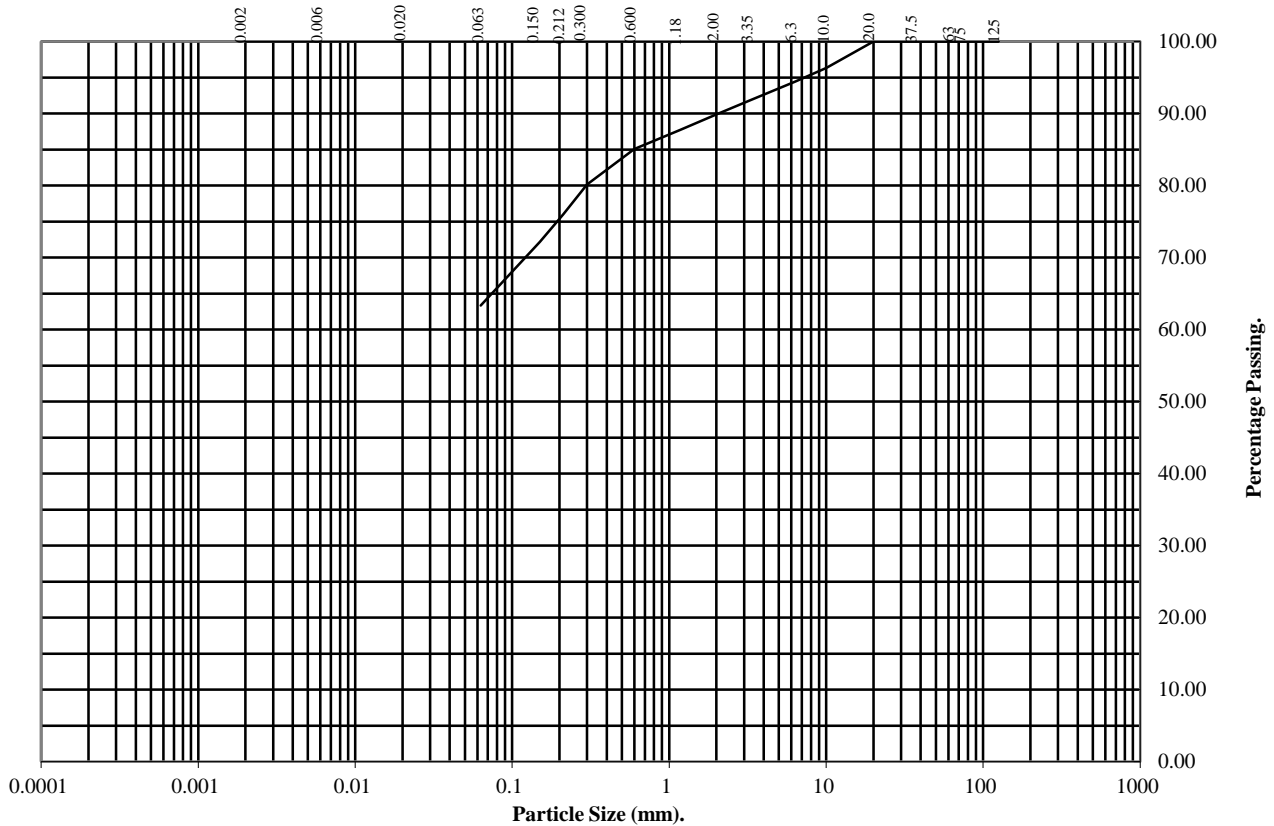
Wet Sieve, Clause 9.2

Hole Number: **BH101**

Depth (m): **11.00-11.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	96
6.3	94
3.35	92
2	90
1.18	88
0.6	85
0.3	80
0.212	76
0.15	72
0.063	63

Soil Fraction	Total Percentage
Cobbles	0
Gravel	10
Sand	27
Silt / Clay	63

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

PSL
Professional Soils Laboratory

SHELTON ROAD, CORBY.

Contract No.:
PSL15/4533

Particle Size Distribution Test

BS1377 : Part 2 : 1990

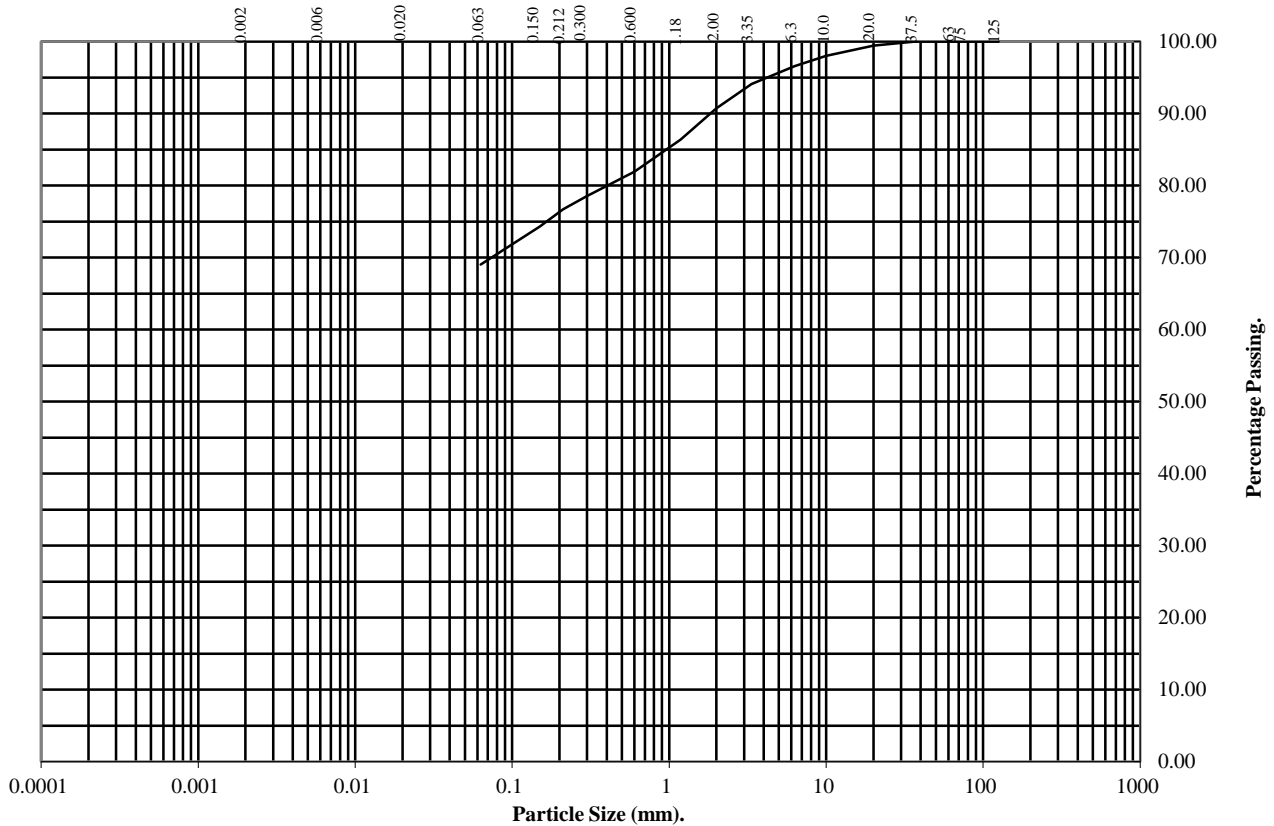
Wet Sieve, Clause 9.2

Hole Number: **BH102**

Depth (m): **12.00-12.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	98
6.3	97
3.35	94
2	91
1.18	86
0.6	82
0.3	79
0.212	77
0.15	74
0.063	69

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	22
Silt / Clay	69

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

 Professional Soils Laboratory	SHELTON ROAD, CORBY.	Contract No.: PSL15/4533
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Particle Size Distribution Test

BS1377 : Part 2 : 1990

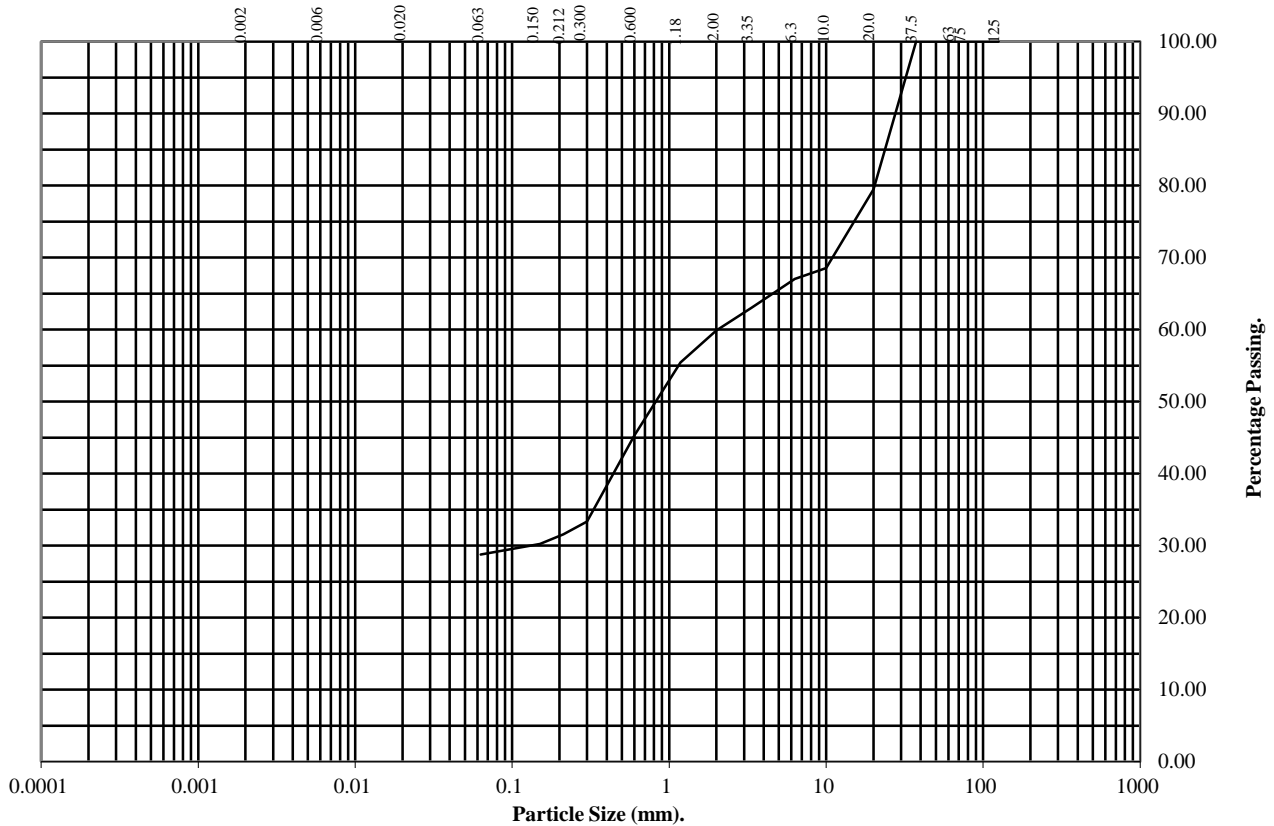
Wet Sieve, Clause 9.2

Hole Number: **BH103**

Depth (m): **0.50-1.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	79
10	69
6.3	67
3.35	63
2	60
1.18	55
0.6	45
0.3	33
0.212	32
0.15	30
0.063	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	40
Sand	31
Silt / Clay	29

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

PSL
Professional Soils Laboratory

SHELTON ROAD, CORBY.

Contract No.:
PSL15/4533

Particle Size Distribution Test

BS1377 : Part 2 : 1990

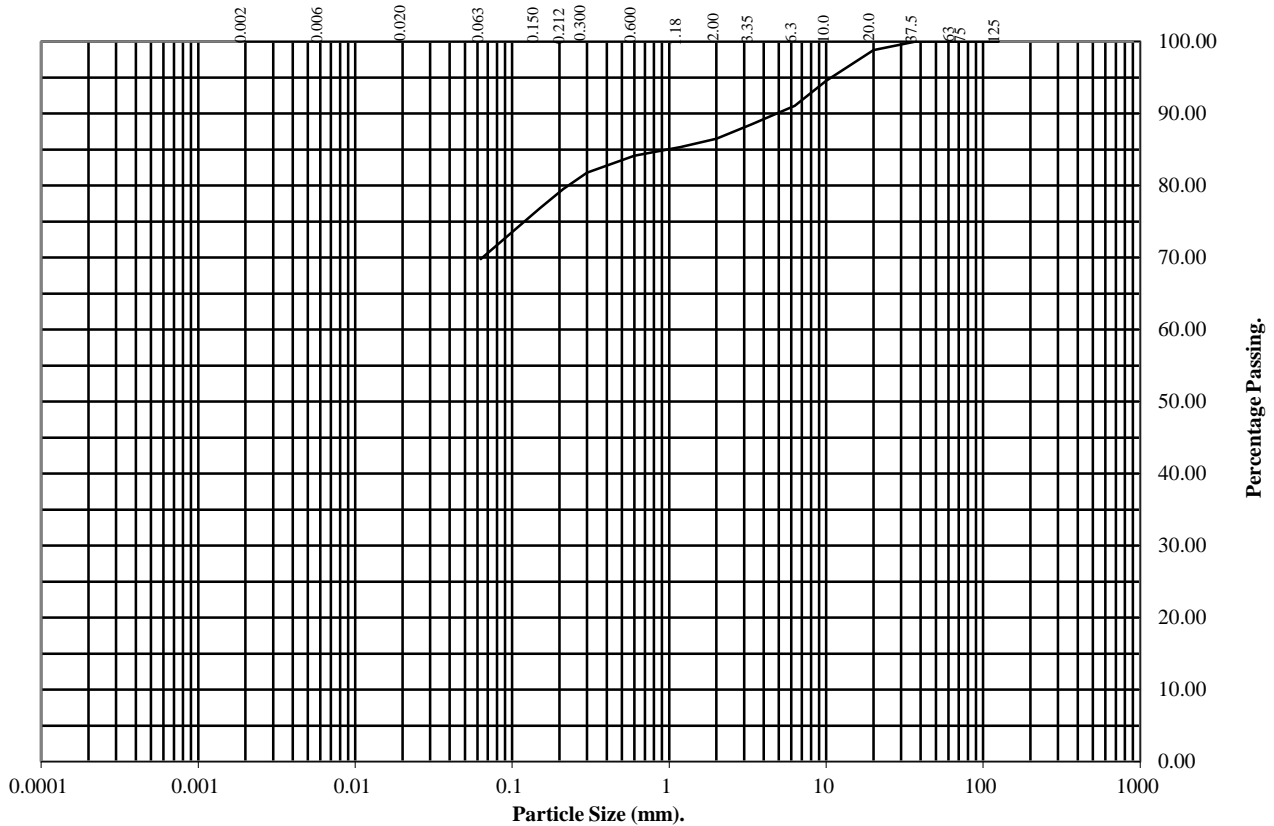
Wet Sieve, Clause 9.2

Hole Number: **BH103**

Depth (m): **3.50-4.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	95
6.3	91
3.35	89
2	87
1.18	85
0.6	84
0.3	82
0.212	80
0.15	77
0.063	70

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	17
Silt / Clay	70

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

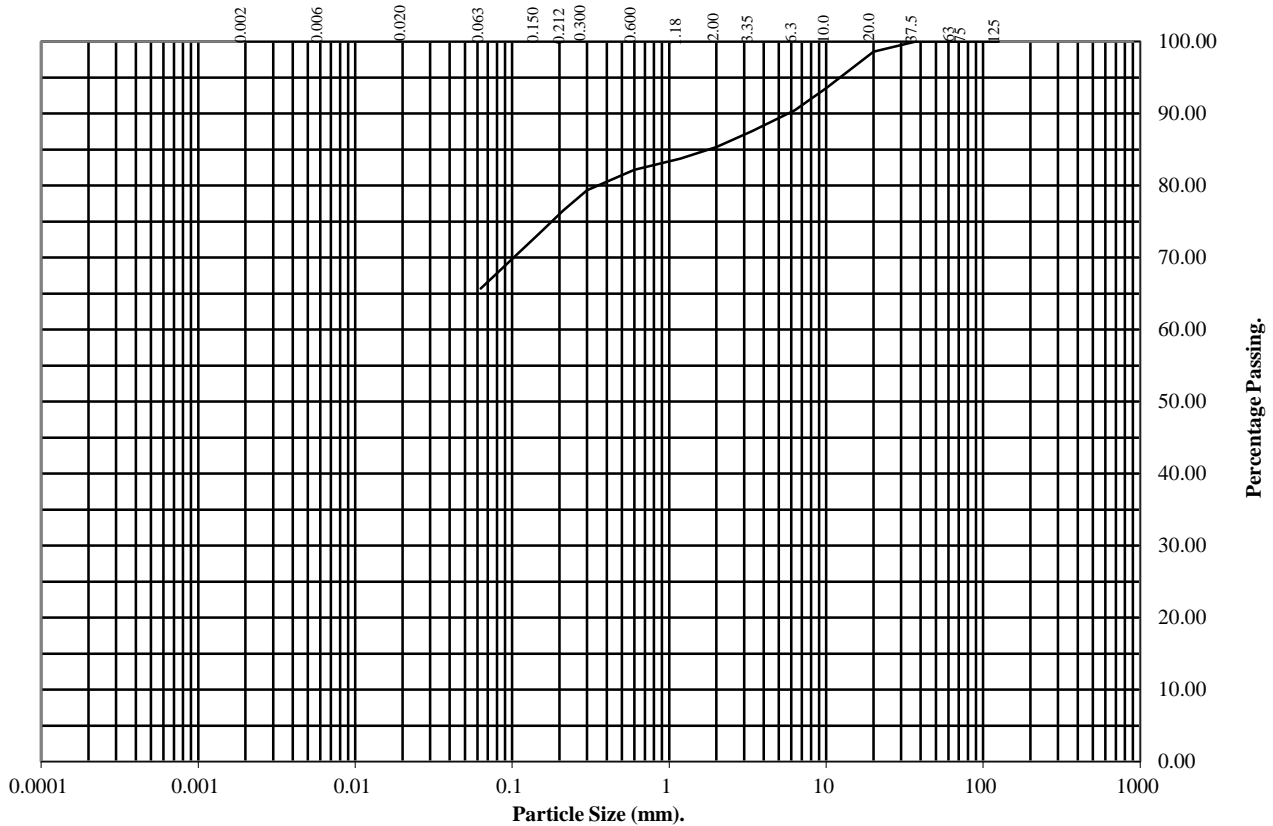
Wet Sieve, Clause 9.2

Hole Number: **BH104**

Depth (m): **10.50-11.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	94
6.3	90
3.35	88
2	85
1.18	84
0.6	82
0.3	79
0.212	77
0.15	73
0.063	66

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	19
Silt / Clay	66

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

Particle Size Distribution Test

BS1377 : Part 2 : 1990

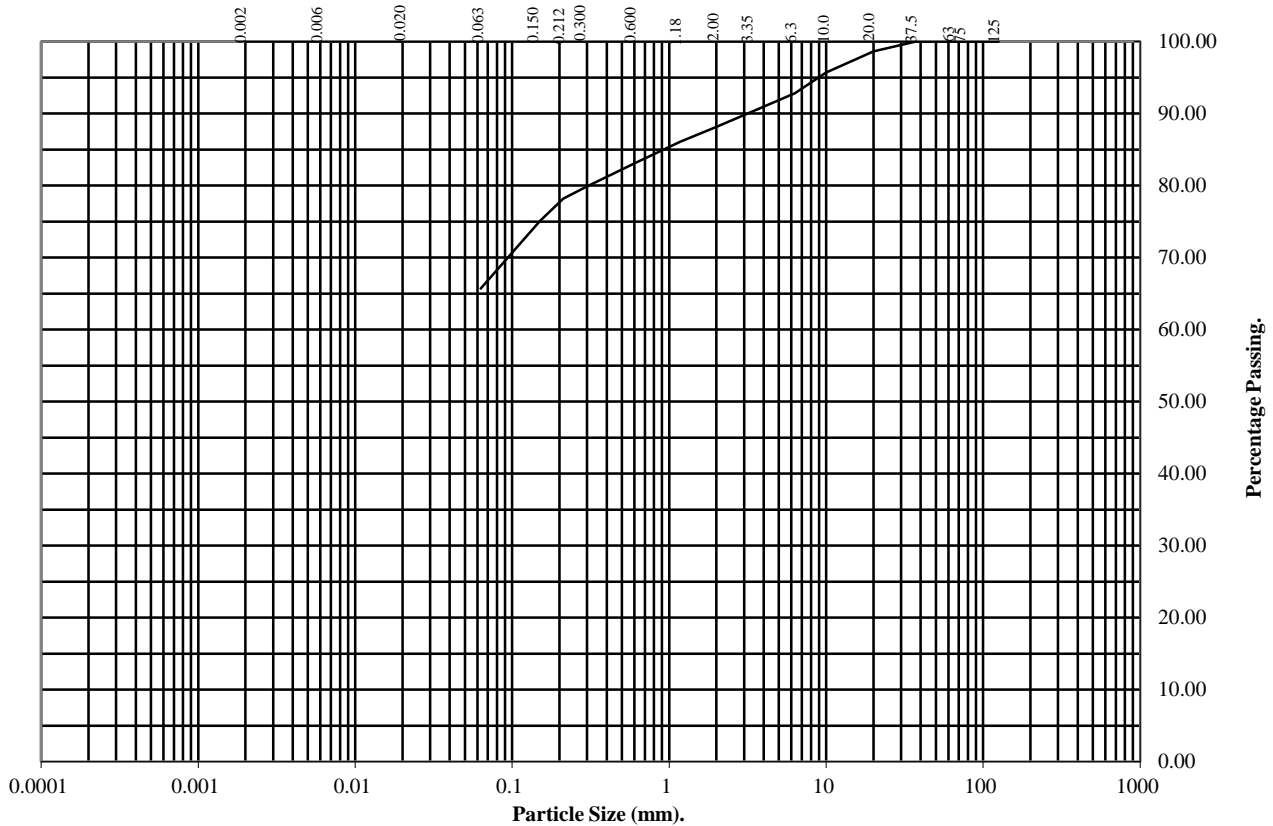
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	96
6.3	93
3.35	90
2	88
1.18	86
0.6	83
0.3	80
0.212	78
0.15	75
0.063	66

Soil Fraction	Total Percentage
Cobbles	0
Gravel	12
Sand	22
Silt / Clay	66

Remarks:
See summary of soil descriptions.

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	29/09/15		29/09/15

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

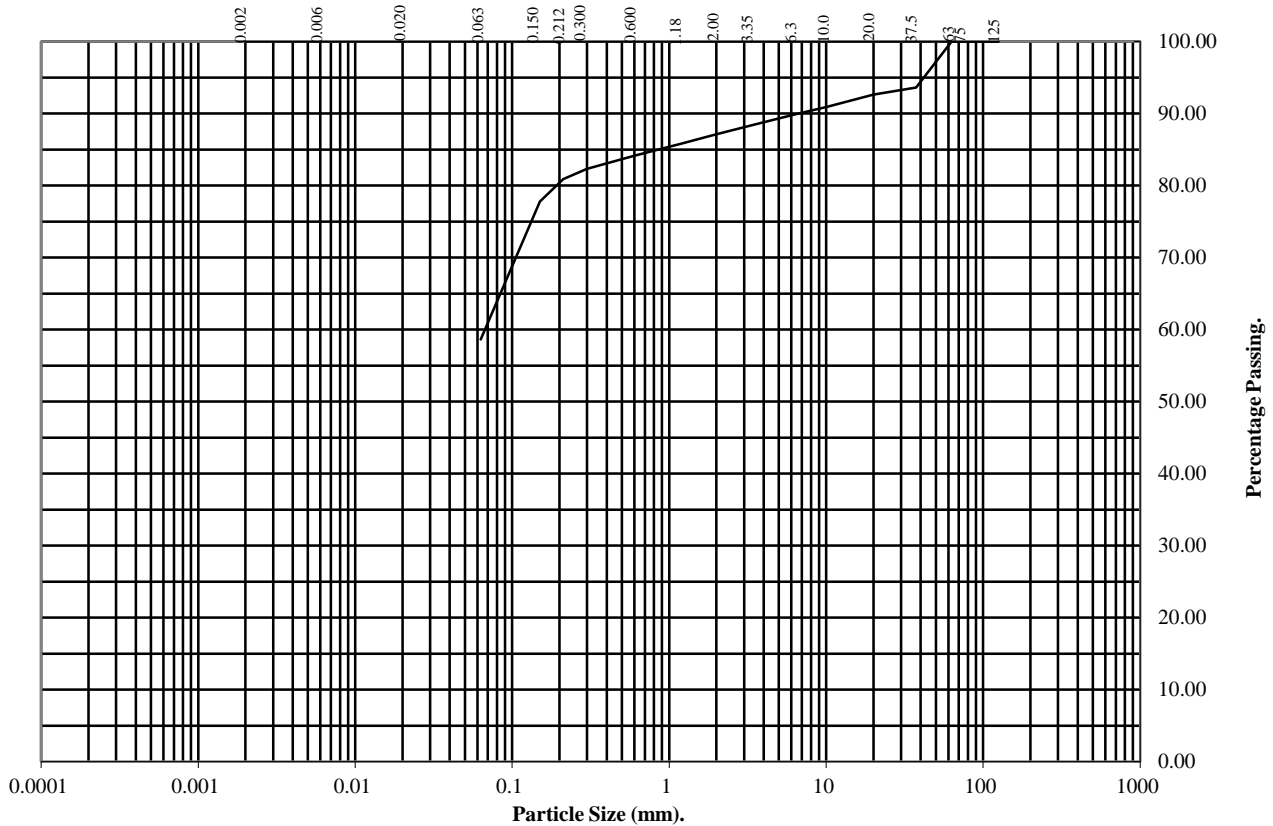
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **4.50-5.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	94
20	93
10	91
6.3	90
3.35	88
2	87
1.18	86
0.6	84
0.3	82
0.212	81
0.15	78
0.063	59

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	28
Silt / Clay	59

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

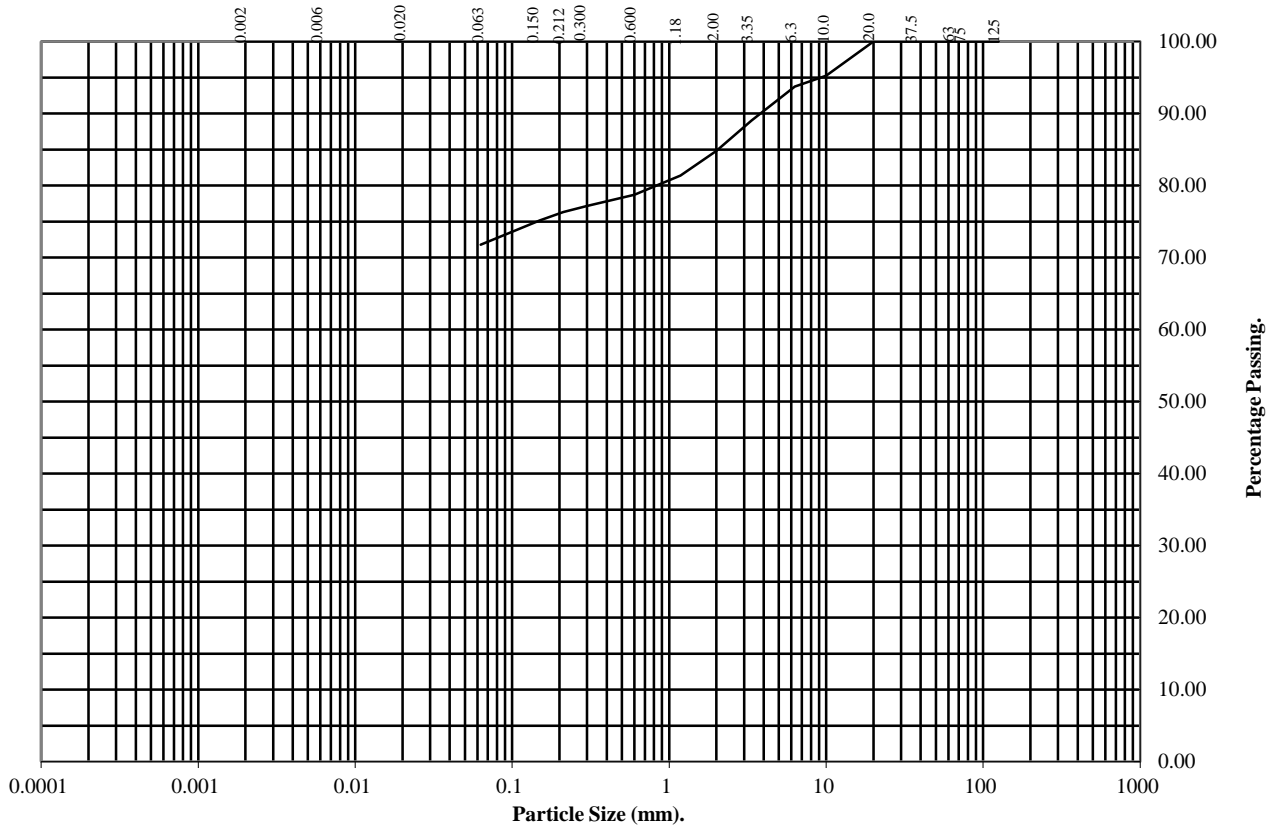
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **11.50**

Sample Number:

Sample Type: **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	95
6.3	94
3.35	89
2	85
1.18	81
0.6	79
0.3	77
0.212	76
0.15	75
0.063	72

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	13
Silt / Clay	72

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

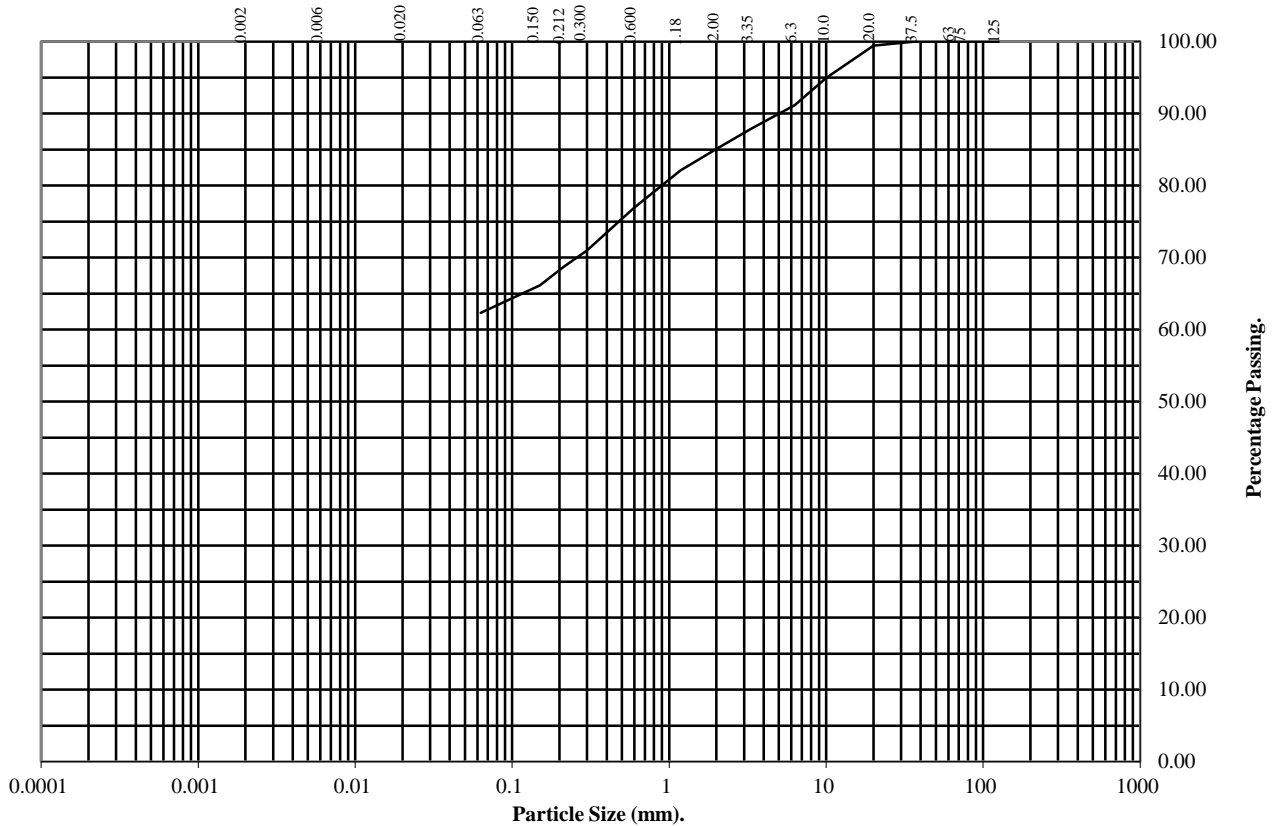
Wet Sieve, Clause 9.2

Hole Number: **BH107**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	95
6.3	91
3.35	88
2	85
1.18	82
0.6	77
0.3	71
0.212	69
0.15	66
0.063	62

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	23
Silt / Clay	62

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

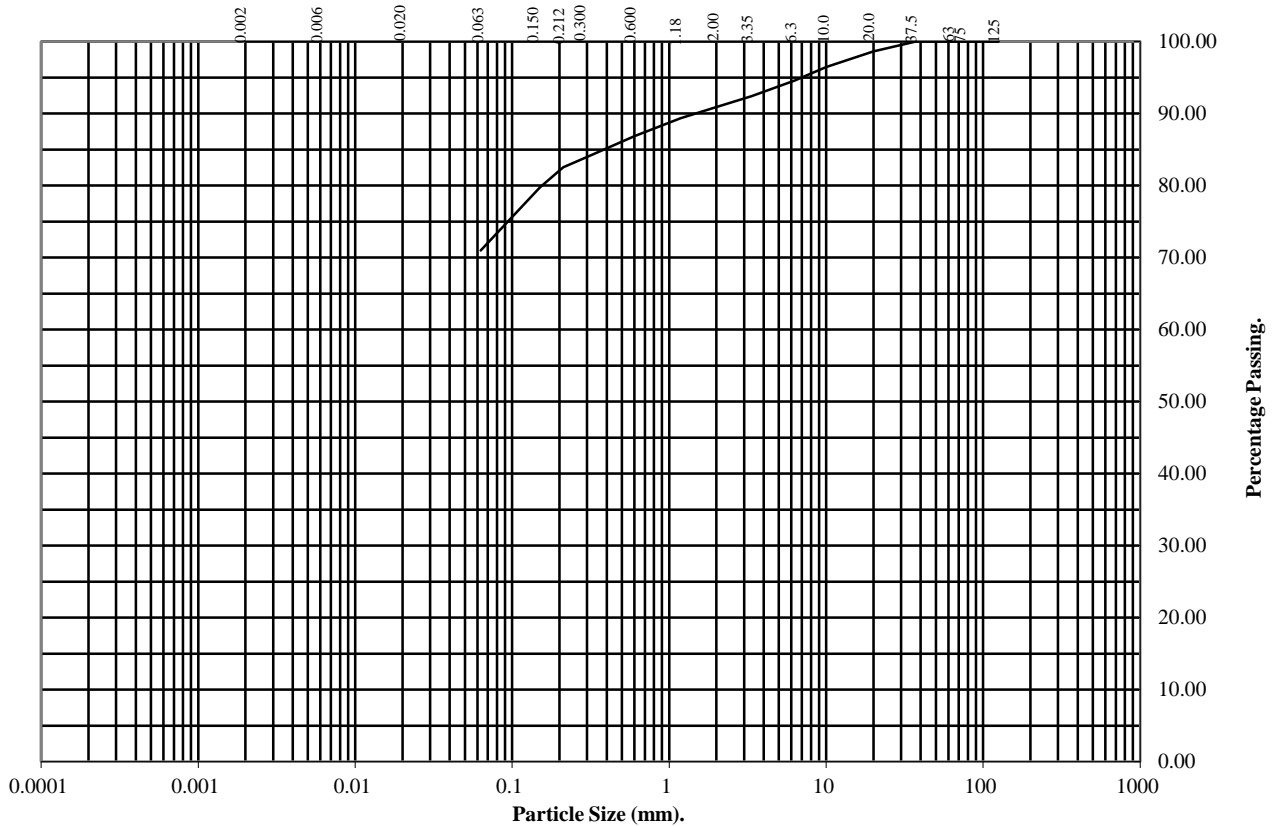
Wet Sieve, Clause 9.2

Hole Number: **BH107**

Depth (m): **12.50-13.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	96
6.3	95
3.35	92
2	91
1.18	89
0.6	87
0.3	84
0.212	83
0.15	80
0.063	71

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	20
Silt / Clay	71

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

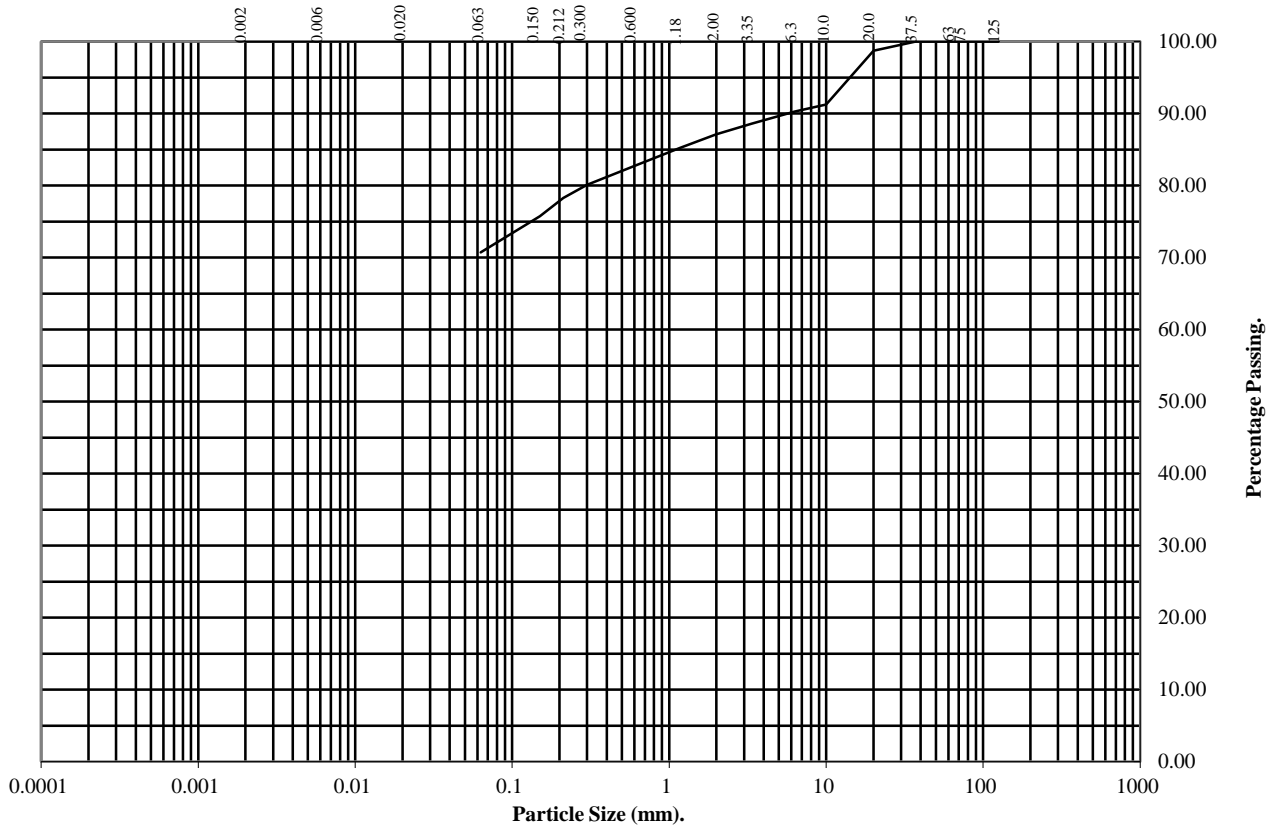
Wet Sieve, Clause 9.2

Hole Number: **BH108**

Depth (m): **4.50-5.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	91
6.3	90
3.35	89
2	87
1.18	85
0.6	83
0.3	80
0.212	78
0.15	76
0.063	71

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	16
Silt / Clay	71

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

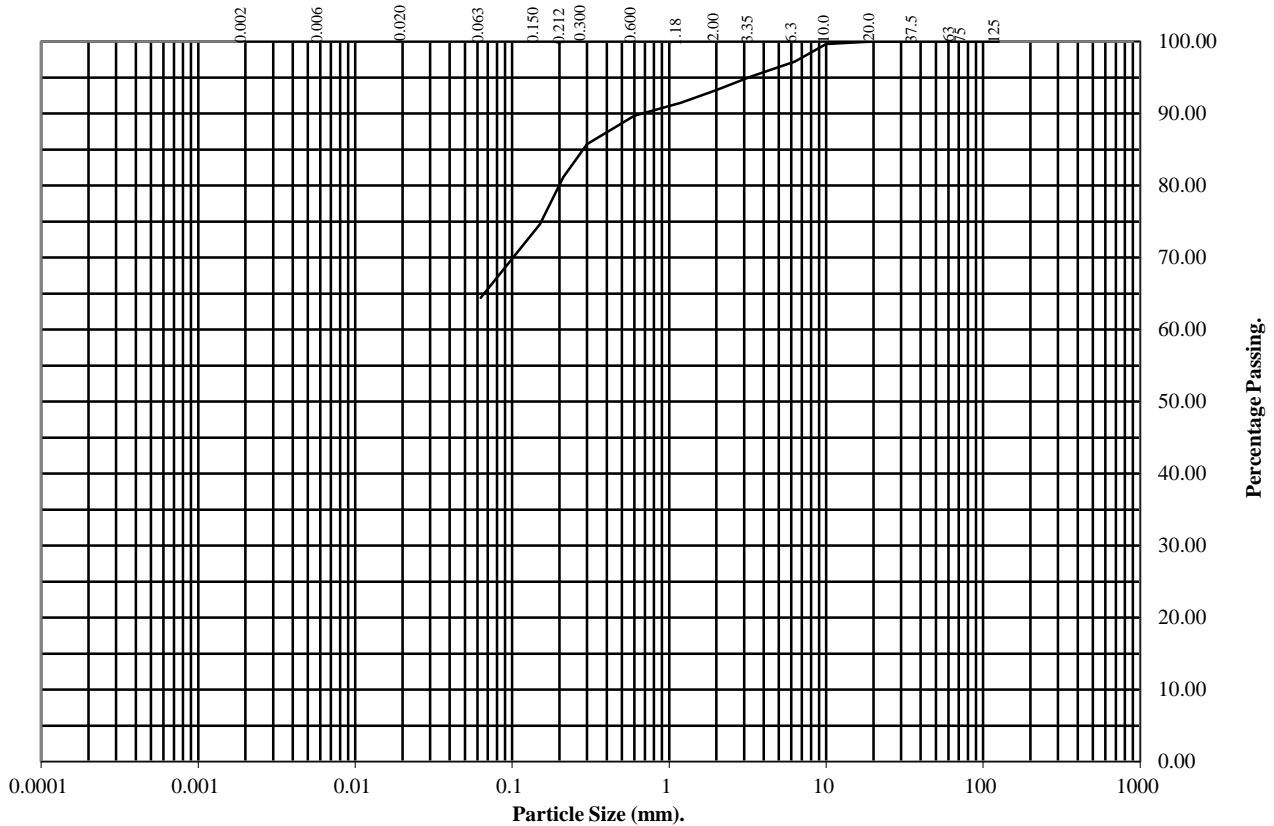
Wet Sieve, Clause 9.2

Hole Number: **BH108**

Depth (m): **8.00-8.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	97
3.35	95
2	93
1.18	91
0.6	90
0.3	86
0.212	81
0.15	75
0.063	64

Soil Fraction	Total Percentage
Cobbles	0
Gravel	7
Sand	29
Silt / Clay	64

Remarks:
See summary of soil descriptions.

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Particle Size Distribution Test

BS1377 : Part 2 : 1990

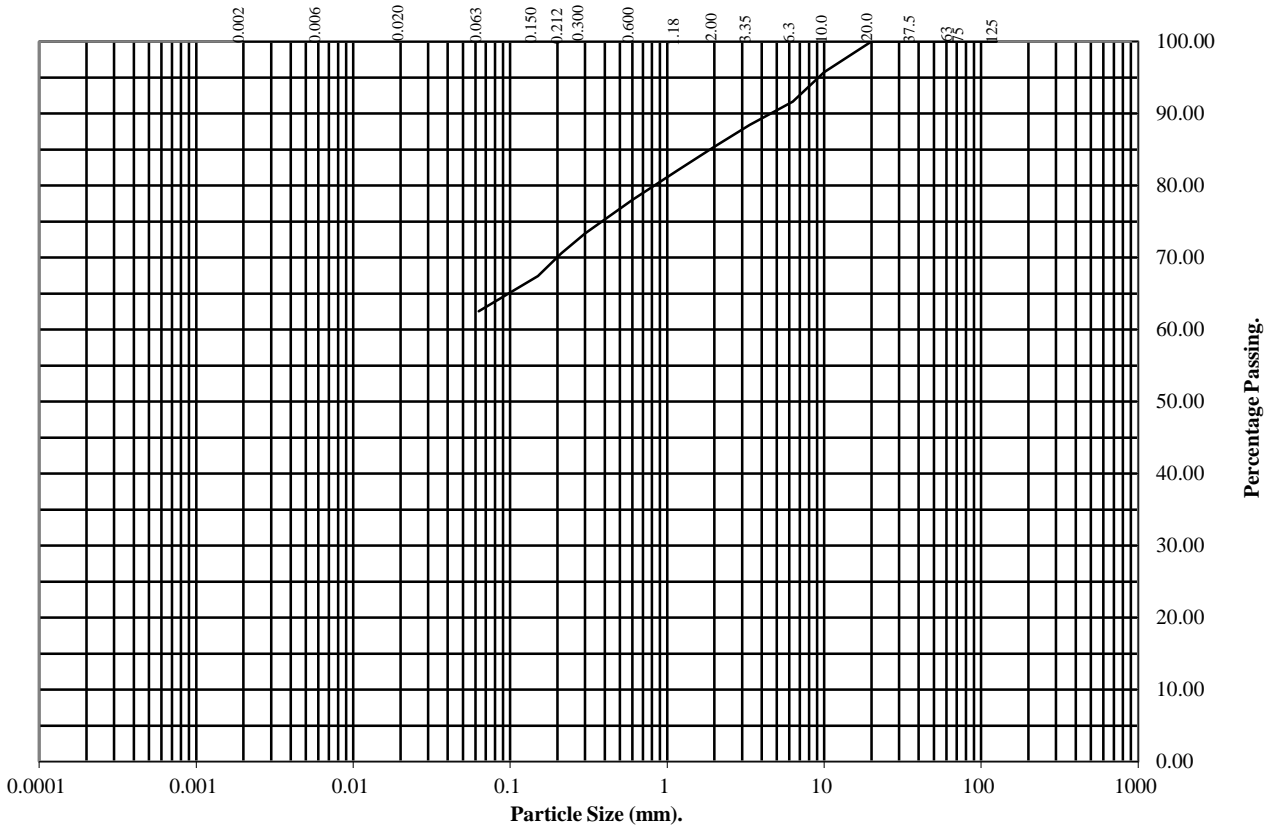
Wet Sieve, Clause 9.2

Hole Number: **BH109**

Depth (m): **3.50-4.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	96
6.3	92
3.35	88
2	85
1.18	82
0.6	78
0.3	73
0.212	71
0.15	67
0.063	63

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	22
Silt / Clay	63

Remarks:
See summary of soil descriptions.

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One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

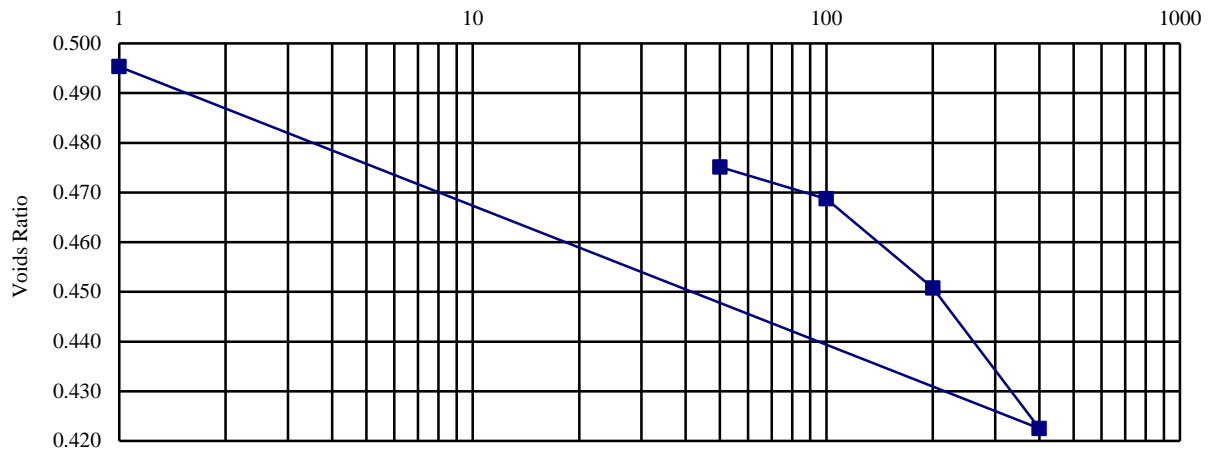
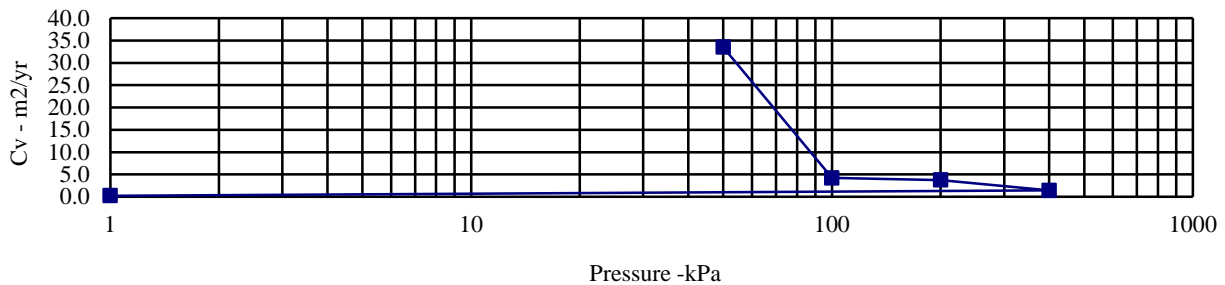
Hole Number: **BH105**

Depth (m): **3.50-3.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range			Mv	Cv	Specimen location		
		kPa			m2/MN	m2/yr	within tube:	Top	
Moisture Content (%):	20								
Bulk Density (Mg/m3):	2.09	0	-	50	0.561	33.480	Method used to		
Dry Density (Mg/m3):	1.75	50	-	100	0.087	4.202	determine CV:	t90	
Voids Ratio:	0.518	100	-	200	0.122	3.748	Nominal temperature		
Degree of saturation:	99.9	200	-	400	0.097	1.399	during test ' C:	20	
Height (mm):	20.13	400	-	1	0.128	0.245	Remarks:		
Diameter (mm)	75.08							See summary of soil descriptions.	
Particle Density (Mg/m3):	2.65								
Assumed									



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One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

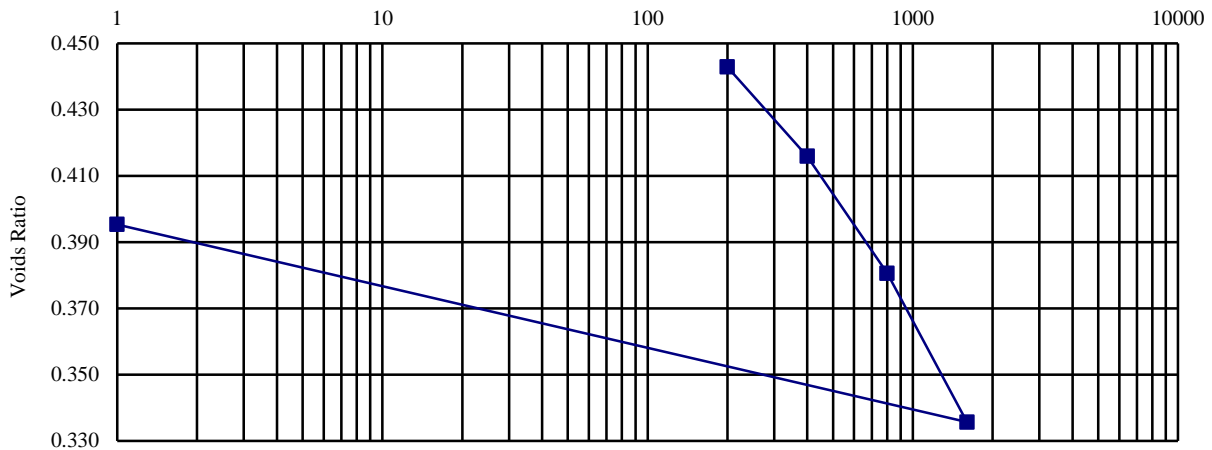
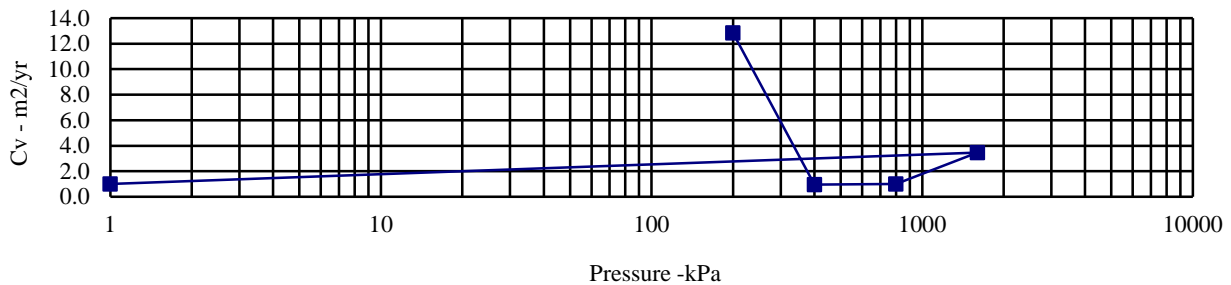
Hole Number: **BH105**

Depth (m): **12.00-12.45**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	22	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.04	0	- 200	0.466	12.833	Method used to	
Dry Density (Mg/m3):	1.67	200	- 400	0.093	0.952	determine CV:	t90
Voids Ratio:	0.591	400	- 800	0.062	0.997	Nominal temperature	
Degree of saturation:	99.8	800	- 1600	0.041	3.452	during test ' C:	20
Height (mm):	20.19	1600	- 1	0.028	0.992	Remarks:	
Diameter (mm)	75.02	See summary of soil descriptions.					
Particle Density (Mg/m3):	2.65						
Assumed							



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One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

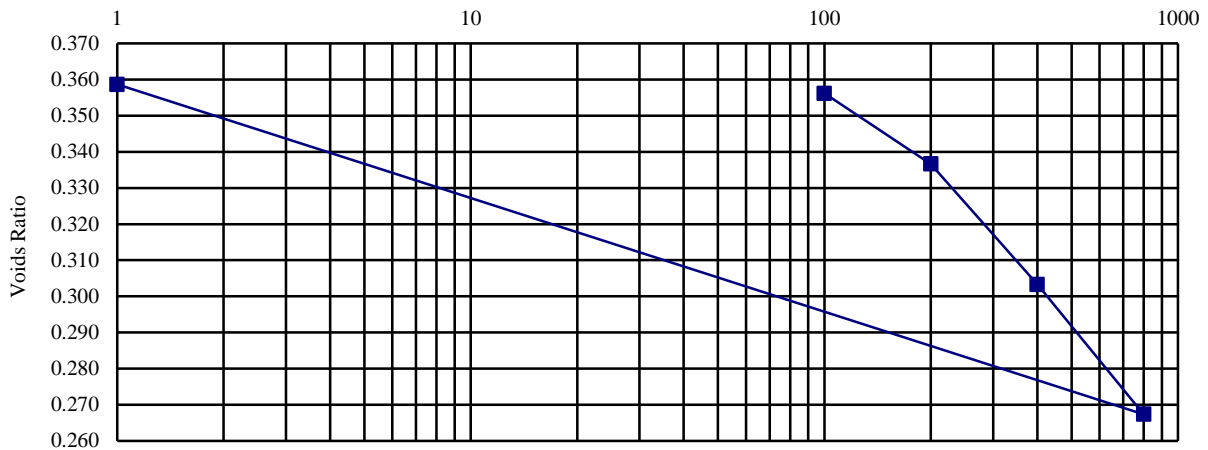
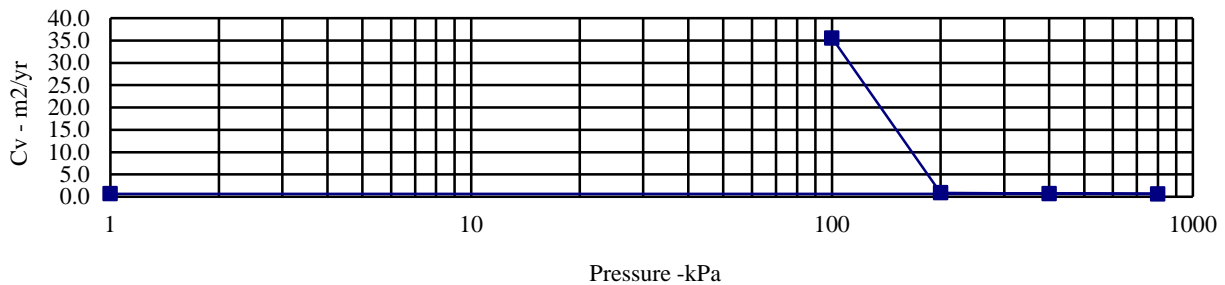
Hole Number: **BH106**

Depth (m): **7.50-7.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range			Mv	Cv	Specimen location	
Moisture Content (%):	17	kPa			m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.13	0	-	100	0.708	35.538	Method used to	
Dry Density (Mg/m3):	1.82	100	-	200	0.144	0.877	determine CV:	t90
Voids Ratio:	0.459	200	-	400	0.125	0.693	Nominal temperature	
Degree of saturation:	100.2	400	-	800	0.069	0.641	during test 'C:	20
Height (mm):	20.09	800	-	1	0.090	0.674	Remarks:	
Diameter (mm)	75.08	See summary of soil descriptions.						
Particle Density (Mg/m3):	2.65							
Assumed								



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One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

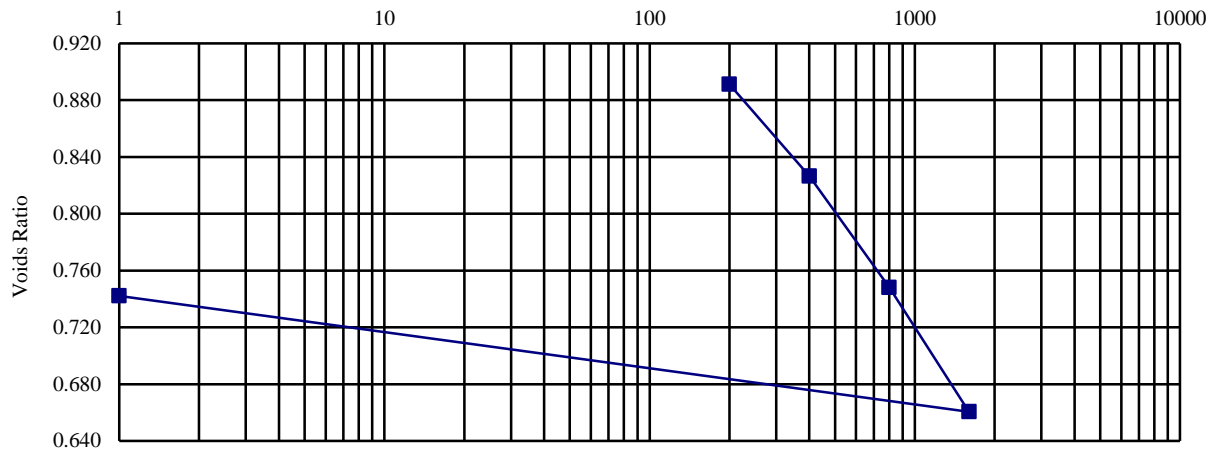
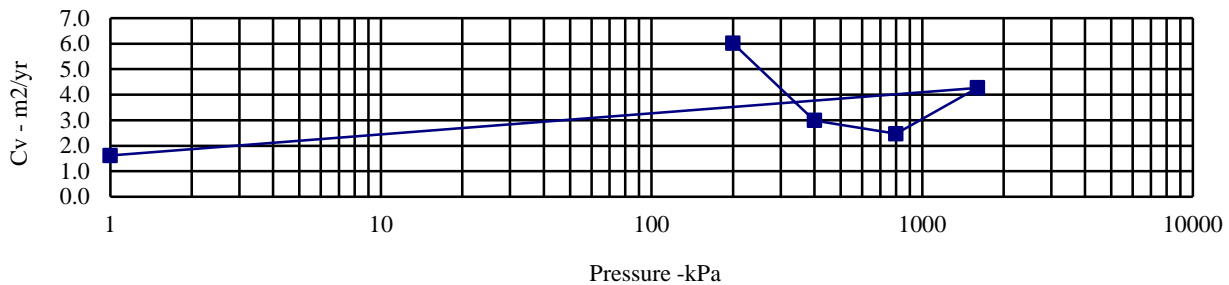
Hole Number: **BH106**

Depth (m): **13.50-13.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	56	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.75	0	- 200	0.824	6.015	Method used to	
Dry Density (Mg/m3):	1.13	200	- 400	0.171	2.992	determine CV:	t90
Voids Ratio:	1.264	400	- 800	0.107	2.466	Nominal temperature	
Degree of saturation:	112.1	800	- 1600	0.063	4.268	during test ' C:	20
Height (mm):	20.13	1600	- 1	0.031	1.618	Remarks:	
Diameter (mm)	75.08	See summary of soil descriptions.					
Particle Density (Mg/m3):	2.55						
Assumed							



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Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

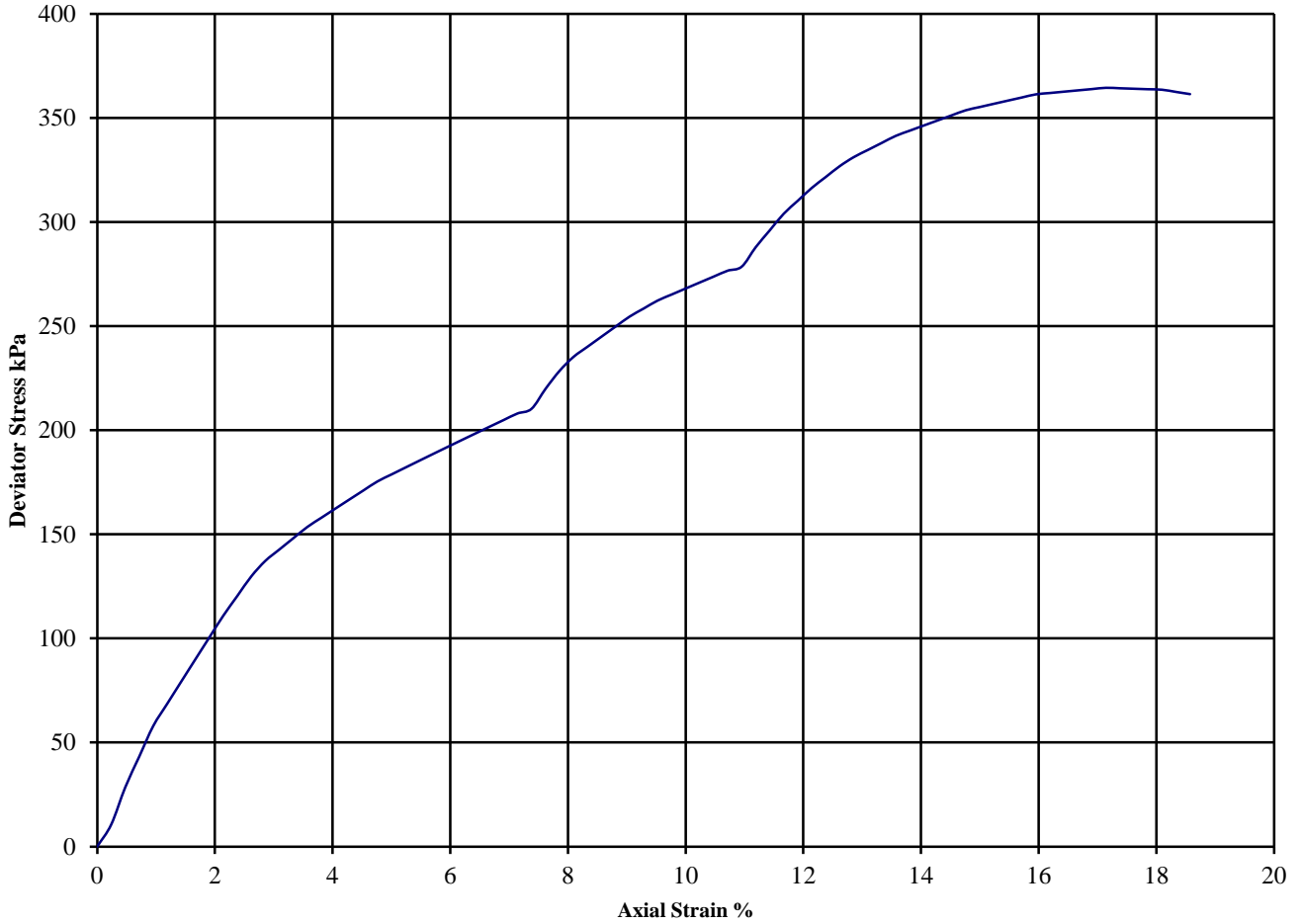
B.S. 1377 : Part 7 : Clause 9 : 1990

Hole Number: BH101

Depth (m): 2.50

Sample Number:

Sample Type: U



Diameter (mm):		102		Height (mm):		210		Test:		100mm Multistage		
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks			
									θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$	
A	21	2.08	1.72	25	210	105	7.4		Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness Membrane Correction applied (kPa) 0.36 0.35 0.34			
				50	279	139	11.0		See summary of soil descriptions.			
				100	365	182	17.1	Plastic	Checked	Date	Approved	Date
										29/09/15		29/09/15

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Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

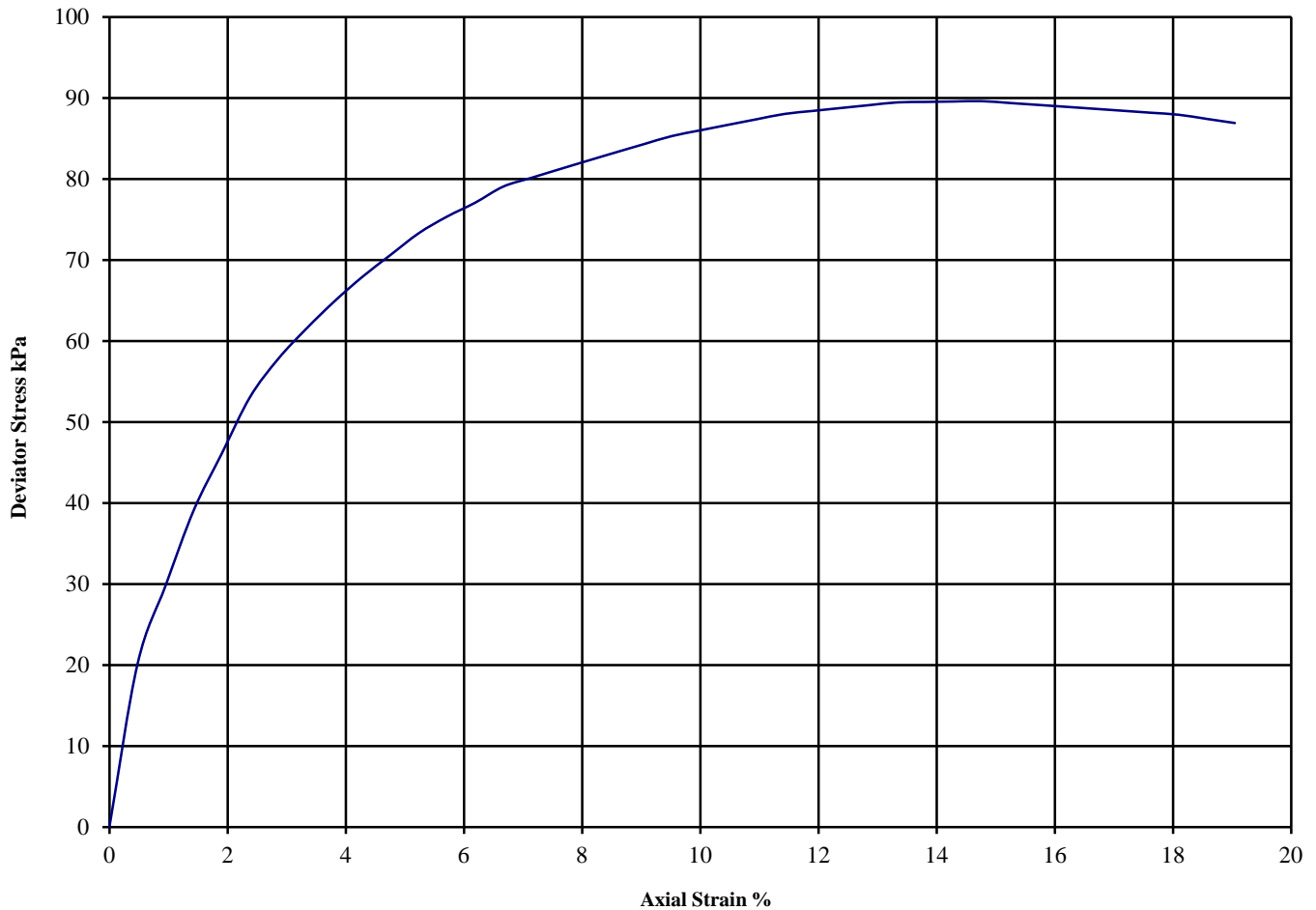
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH101

Depth (m): 13.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
				θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$											
A	23	2.09	1.70	270	90	45	14.8	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.34 kPa See summary of soil descriptions.								
									<table border="1"> <thead> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </tbody> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
				SHELTON ROAD, CORBY.				Contract No: PSL15/4533									

Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

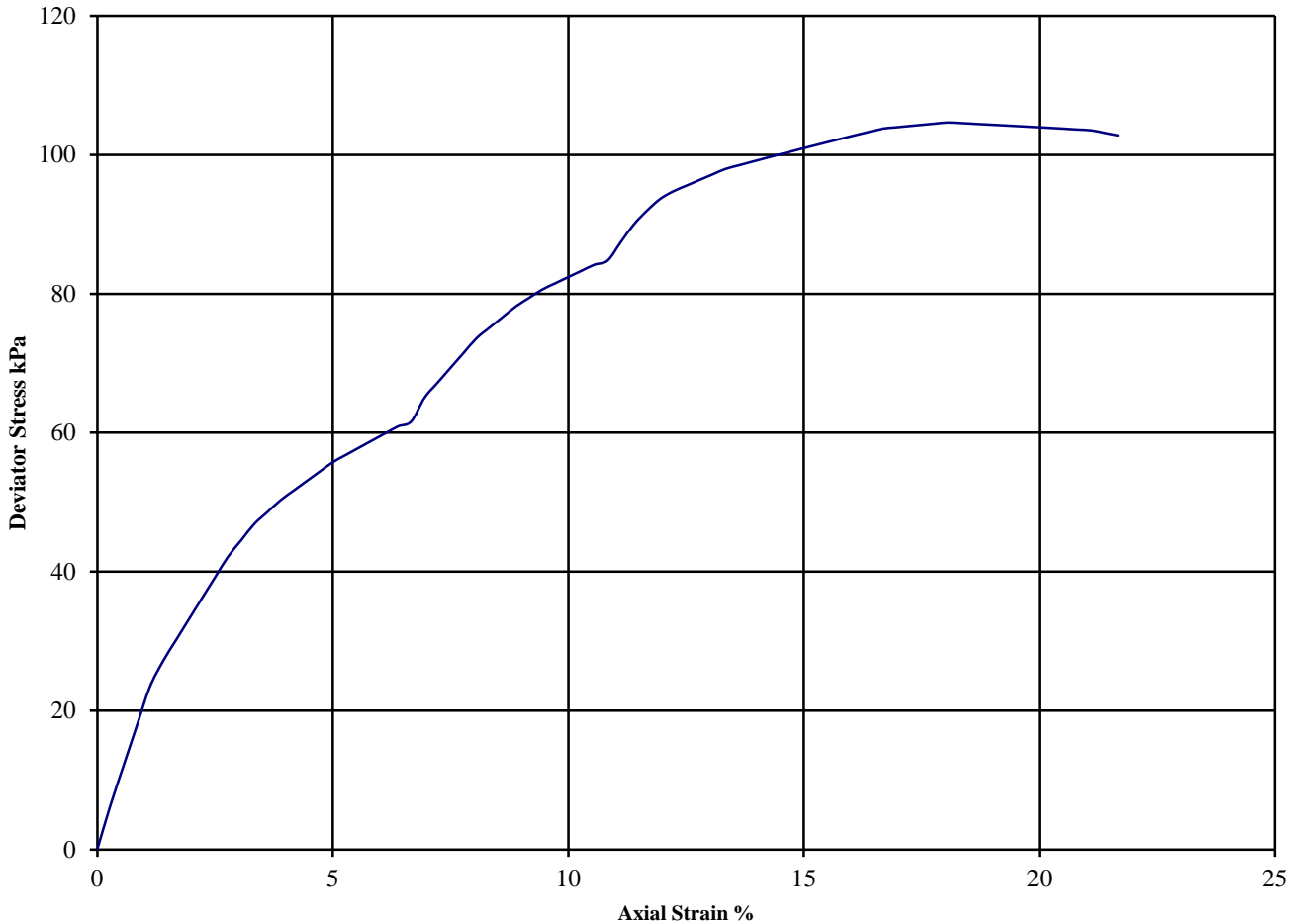
B.S. 1377 : Part 7 : Clause 9 : 1990

Hole Number: BH103

Depth (m): 4.50

Sample Number:

Sample Type: U



Diameter (mm):		102		Height (mm):		180		Test:		100mm Multistage		
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks			
									θ_3	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$	
A	16	2.13	1.83	45	62	31	6.7		Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness Membrane Correction applied (kPa) 0.36 0.35 0.34			
				90	85	42	10.8		See summary of soil descriptions.			
				180	105	52	18.1	Plastic	Checked	Date	Approved	Date
										29/09/15		29/09/15

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Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

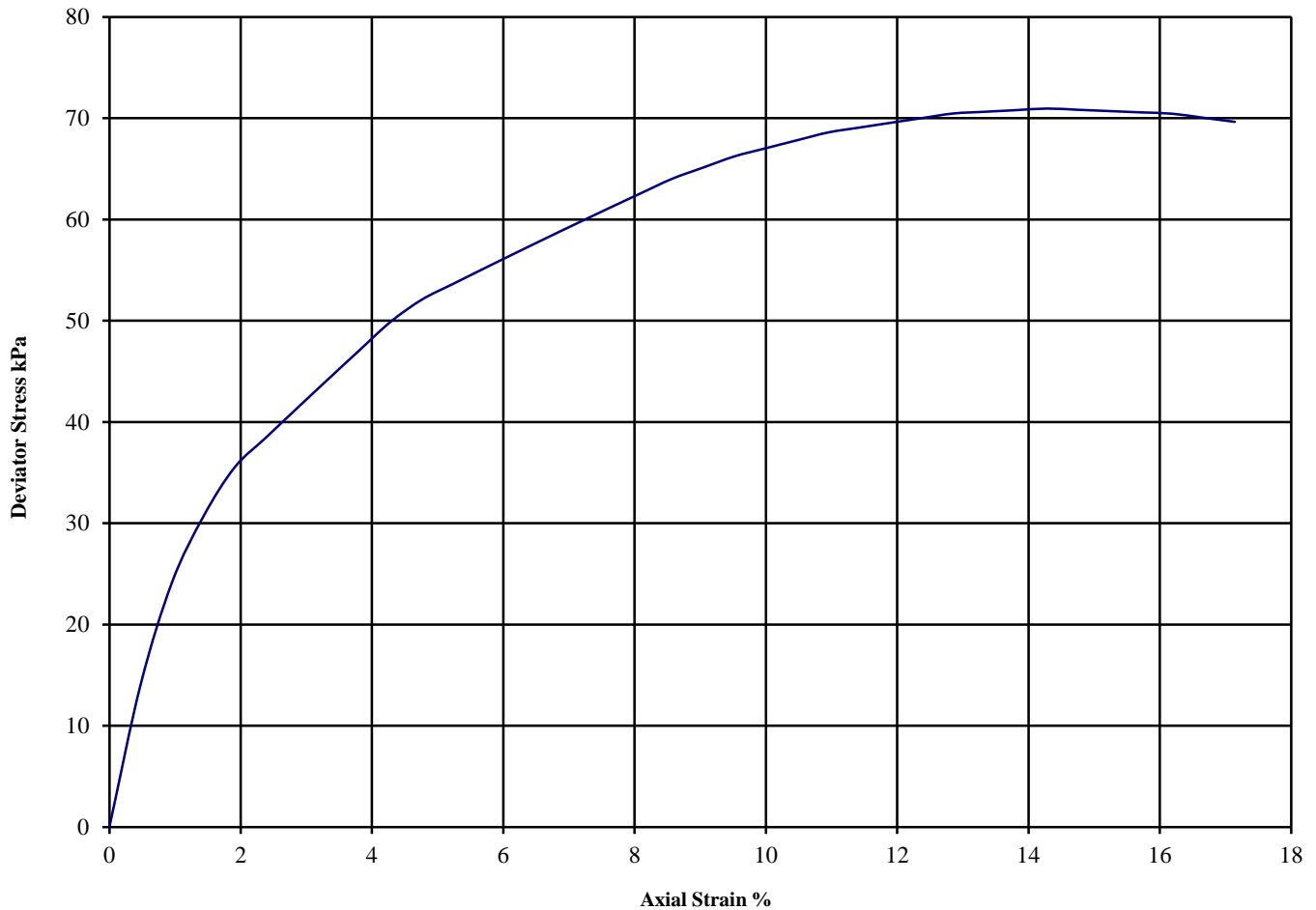
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH103

Depth (m): 16.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	25	2.00	1.60	330	71	35	14.3	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.34 kPa See summary of soil descriptions.								
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Checked	Date	Approved	Date														
	29/09/15		29/09/15														
PSL Professional Soils Laboratory				SHELTON ROAD, CORBY.				Contract No: PSL15/4533									

Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

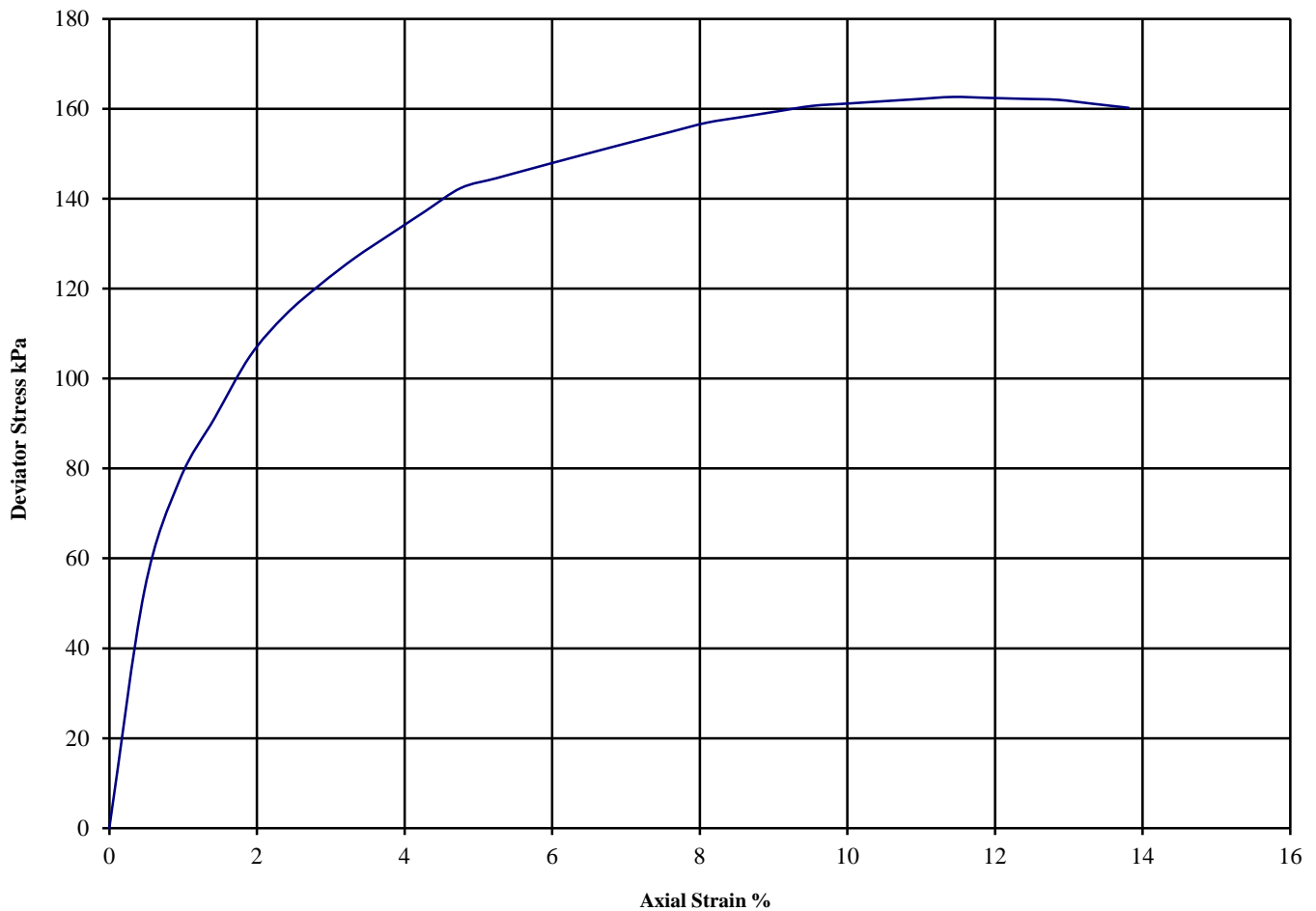
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH107

Depth (m): 16.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	17	1.98	1.68	330	163	81	11.4	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.35 kPa See summary of soil descriptions.								
									<table border="1"> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
PSL Professional Soils Laboratory				SHELTON ROAD, CORBY.					Contract No: PSL15/4533								

Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

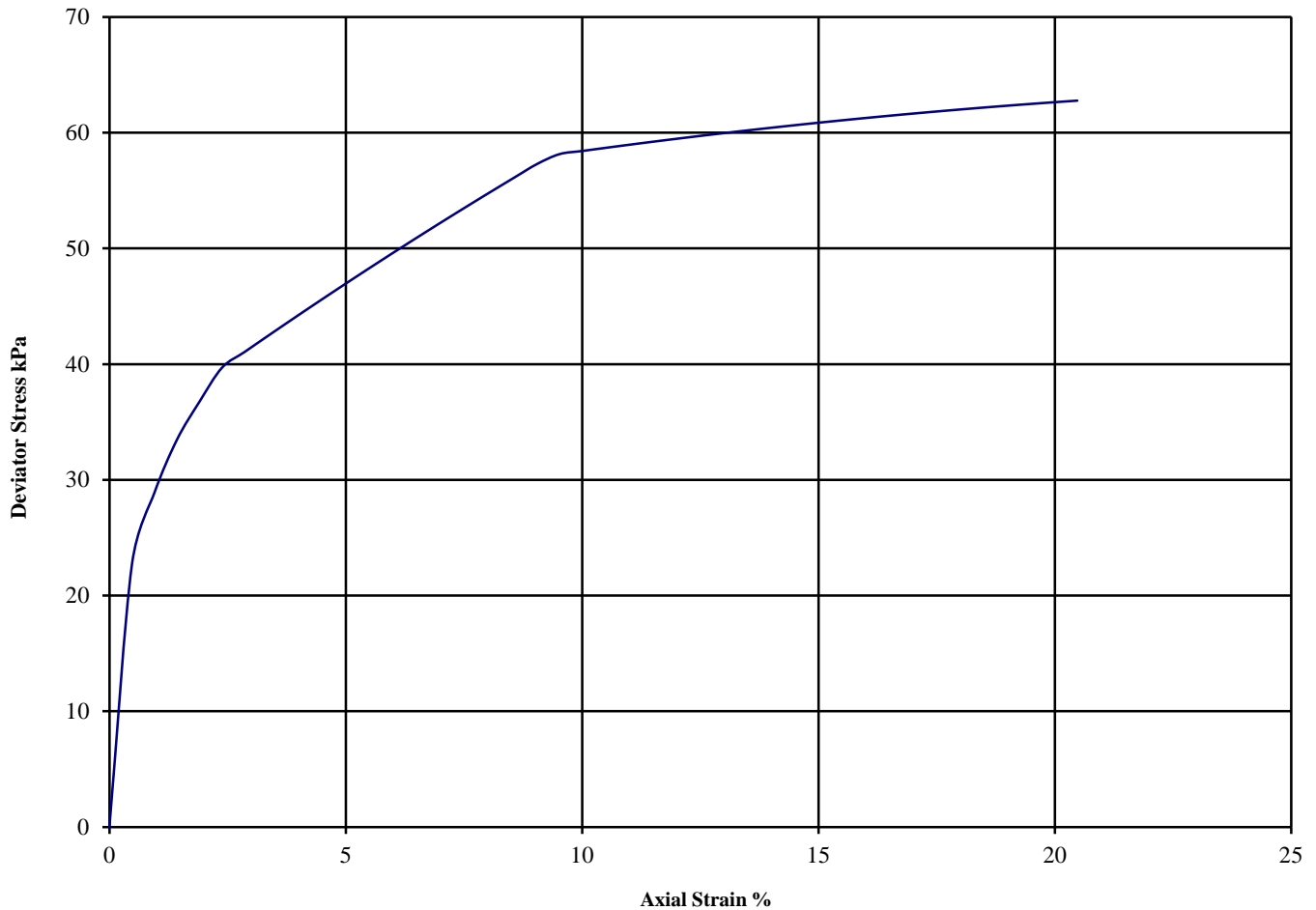
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH108

Depth (m): 13.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m ³)	Dry Density (Mg/m ³)	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	21	2.09	1.72	270	63	31	20.5	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.33 kPa See summary of soil descriptions.								
									<table border="1"> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
				SHELTON ROAD, CORBY.				Contract No: PSL15/4533									



5/7 Hexthorpe Road
 Hexthorpe, Doncaster, DN4 0AR
 tel: +44 (0)844 8156641
 fax: +44 (0)844 8156642
 e-mail: awatkins@prosoils.co.uk

Date: 22-Sep-15
 Contract Number: PSL15/4533
 Location: SHELTON ROAD, CORBY.
 Sample Type: Core
 Sample Preparation: Cutting & Grinding
 Operator: A.Fry

Determination of Unconfined Compressive Strength.
 ISRM Suggested Methods, pp 111 –116, 1981.

Borehole Number	Depth Top (m)	Depth Bottom (m)	Diameter (mm)	Length (mm)	Height: ratio	Initial mass g	Bulk Density Mg/m3	MC %	Dry Density Mg/m3	Load Failure	UCS(MPA)	Mode OF FAILURE	Date Tested	Remarks
BHR3	21.10	21.30	85.00	134.00	1.6	1834	2.41	16.0	2.08	28.5	5.0	Brittle	21-Sep-15	
BHR3	21.75	22.00	85.00	177.00	2.1	2554	2.54	9.7	2.32	81.5	14.4	Brittle	21-Sep-15	
BHR3	22.00	22.15	85.00	142.00	1.7	1894	2.35	13.0	2.08	26.9	4.7	Brittle	21-Sep-15	

Checked by:  Date 22/09/2015
 Approved by:  Date 22/09/2015



Final Report

Report Number: 15-21671 Issue-1

Initial Date of Issue: 23-Sep-2015

Client: Professional Soils Laboratory

Client Address: 5/7 Hexthorpe Road
Doncaster
South Yorkshire
DN4 0AR

Contact(s): Anthony Watkins
Mark Beastall
Russell Gunson
Sean Royle

Project: PSL15/4533 - Shelton Road, Corby

Quotation No.: **Date Received:** 18-Sep-2015

Order No.: **Date Instructed:** 17-Sep-2015

No. of Samples: 4

Turnaround: (Wkdays) 5 **Results Due Date:** 23-Sep-2015

Date Approved: 23-Sep-2015

Approved By:

Details: Phil Hellier, Project Director

Project: PSL15/4533 - Shelton Road, Corby

Client: Professional Soils Laboratory	Chemtest Job No.:				15-21671	15-21671	15-21671	15-21671
Quotation No.:	Chemtest Sample ID.:				193547	193548	193549	193550
Order No.:	Client Sample Ref.:				BH101	BH102	BH107	BH106
	Client Sample ID.:				D	D	D	D
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				8.00	13.00	6.70	8.00
	Bottom Depth(m):							
	Date Sampled:							
Determinand	Accred.	SOP	Units	LOD				
Moisture	N	2030	%	0.02	29	34	28	14
Organic Matter	U	2625	%	0.4	9.1	7.2	6.7	1.9

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk





Delta-Simons Adopted Human Health Generic Assessment Criteria

For

Commercial End Use

Version 4.1 – September 2015

Guidance Notes – Using Human Health Soil Screening Values

A tiered risk assessment approach is used for the assessment of soil analysis results considering the 'pollutant linkages' on the basis of a 'source-pathway-receptor' relationship.

The following tables present conservative Tier 1 generic screening assessment criteria (GAC) used by Delta-Simons to provide an initial assessment of risk to Human Health in the context of the proposed redevelopment of the Site.

GACs are intended to assess:

- △ Chronic (long-term) on-site exposure risk to contaminants in the soil to future users and occupiers of the Site.
- △ Concentrations below the GAC considered tolerable or to pose a minimal risk to human health, or low risk in relation to the Category 4 Screening Levels (C4SLs).

GACs are not relevant for assessing:

- △ Acute (short-term) exposure risks (e.g. construction workers during development);
- △ Non-human receptors such as controlled waters, ecosystems, buildings and services, animals, domestic pets or plants;
- △ Aesthetic issues which may render a soil unsuitable for use such as odour or colour;
- △ GACs do not take account of other non-soil based sources of contamination such as contamination in groundwater or surface waters; and
- △ GACs are not suitable for assessing whether a soil provides a suitable growing medium for crops or plants.

Exceedences of Generic Assessment Criteria

An exceedence of a GAC:

- △ Is not an indicator of a significant risk to human health;
- △ Is an indication that the contaminant *may* pose a possibility harm to human health and, therefore, further consideration is required.

In assessing the significance of an exceedence consideration should be given to:

- △ The *nature* of the contaminant (e.g. volatile or non-volatile contaminants)
- △ Site design and potential exposure *pathways* (e.g. hard cover, buildings, landscaping)
- △ The *distribution* of exceedences (widespread or localised, numerous or few exceedences – **NB: Consider data limitations – site coverage and gaps in data.**)
- △ The *margin* of the exceedence(s);
- △ The *duration* and *frequency* of exposure; and
- △ Any other *site specific* factors.

Generic Assessment Criteria used by Delta-Simons

In the absence of a complete regulatory set of screening values derived using the CLEA Framework, Delta-Simons screening values are based on the following:

- △ The current Soil Guidance Values (SGVs) published by the EA;
- △ Category 4 Screening Levels (C4SLs) published by DEFRA;
- △ The 2014 Land Quality Management (LQM) / Chartered Institute of Environmental Health (CIEH) Suitable for Use Levels for Human Health Risk Assessment (S4ULs);
- △ The guidance values produced by the Environmental Industries Commission (EIC), the Association of Geotechnical and Geoenvironmental Specialists (AGS) and Contaminated Land: Application in Real Environments (CL:AIRE) in December 2009; and
- △ In house Generic Screening Values (DS-GACs) derived by Delta-Simons.

Contaminants for which Generic Assessment Criteria are Unavailable

Insufficient toxicological data is available to derive GAC for a number of potential contaminants of concern and GAC cannot be derived for mixtures of compounds (e.g. total petroleum hydrocarbons). In such cases Delta-Simons will endeavour to use conservative

surrogate GAC values to provide an initial screening assessment based on the known chemical and physical properties of the contaminant.

Notes and References used in the Tables

Generic Assessment Criteria Source	
SGV	Soil Guidance Values published by the EA
DS-GAC	Delta-Simons Generic Assessment Criteria derived using CLEA V.1.06.
C4SL	Category 4 Screening Levels, DEFRA December 2014
SGV v.1.05	Environment Agency Soil Guideline Values for dioxins, furans and dioxin-like PCBs calculated within CLEA V.1.05.
LQM	LQM/CIEH Suitable for Use Levels for Human Health Risk Assessment (S4UL), November 2014. <i>(Copyright Land Quality Management Limited, reduced with permission; Publication Number S4UL3087. All rights reserved).</i>
EIC	EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment derived using CLEA V.1.06.
Abbreviations	
Units	All values mg/kg unless otherwise stated.
SOM	Soil Organic Matter – GAC have been derived for a range of soil organic matter content – 1%, 2.5 or 3% and 6%. In the absence of site specific data or robust soil characterisation the most conservative value of 1% soil organic matter should be used as the initial screening value.
(##)	GAC exceed saturation/vapour concentration (given in brackets). Soil concentrations above the soil saturation may indicate that non-aqueous phase liquid (NAPL) is present. Risks from NAPL may need to be considered separately. Reference should always be made to the site investigation observations and soil logs were available.

Use of C4SLs as Screening Criteria

Only the lead C4SL should be used as an initial screening level, as there is no 'minimal risk' screening value available. Though primarily designed for assessing the risk of land being determined as 'contaminated' under Part 2A, Defra have confirmed¹ that the C4SL could be used under the planning regime. Where applicable, the 'minimal risk' level should be used as the initial screening level and where exceedances are identified reference to, and consideration of the C4SL levels may be made in the risk assessment process.

¹ Defra/Lord de Mauley letter to all Local Authorities dated 3rd September 2014.

Metals

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Antimony	7500	EIC	7500	EIC	7500	EIC
Arsenic	640	SGV	640	SGV	640	SGV
Arsenic	640	LQM	640	LQM	640	LQM
Arsenic	640	C4SL	640	C4SL	640	C4SL
Barium	22000	EIC	22000	EIC	22000	EIC
Beryllium	12	LQM	12	LQM	12	LQM
Boron	240000	LQM	240000	LQM	240000	LQM
Cadmium	230	SGV	230	SGV	230	SGV
Cadmium	190	LQM	190	LQM	190	LQM
Cadmium	410	C4SL	410	C4SL	410	C4SL
Chromium III	8600	LQM	8600	LQM	8600	LQM
Chromium VI	33	LQM	33	LQM	33	LQM
Chromium (VI)	49	C4SL	49	C4SL	49	C4SL
Copper	68000	LQM	68000	LQM	68000	LQM
Lead	2300	C4SL	2300	C4SL	2300	C4SL
Mercury (elemental)	(4.3)	DS-GAC	(13)	DS-GAC	(26)	SGV
Mercury (elemental)	-	-	-	-	58 (25.8)	LQM
Mercury (inorganic)	3600	DS-GAC	3600	DS-GAC	3600	SGV
Mercury (inorganic)	1100	LQM	1100	LQM	1100	LQM
Mercury (methyl)	(73)	DS-GAC	400	DS-GAC	410	SGV
Mercury (methyl)	-	-	-	-	320	LQM
Molybdenum	17000	EIC	17000	EIC	17000	EIC
Nickel	980	LQM	980	LQM	980	LQM
Selenium	13000	SGV	13,000	SGV	13000	SGV
Selenium	12000	LQM	12000	LQM	12000	LQM
Vanadium	9000	LQM	9000	LQM	9000	LQM
Zinc	730000	LQM	730000	LQM	730000	LQM

Italics– These values were derived based on a 6% SOM, however, the supporting documentation indicates that SOM has a negligible influence for these metals.

Petroleum Hydrocarbons

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Aliphatic EC5-EC6	3200 (304)	LQM	5900 (558)	LQM	12000 (1150)	LQM
Aliphatic >EC6-EC8	7800 (144)	LQM	17000 (322)	LQM	40000 (736)	LQM
Aliphatic >EC8-EC10	2000 (78)	LQM	4800 (190)	LQM	11000 (451)	LQM
Aliphatic >EC10-EC12	9700 (48)	LQM	23000 (118)	LQM	47000 (283)	LQM
Aliphatic >EC12-EC16	59000 (24)	LQM	82000 (59)	LQM	90000 (142)	LQM
Aliphatic >EC16-EC35	1600000	LQM	1700000	LQM	1800000	LQM
Aliphatic >EC35-EC44	1600000	LQM	1700000	LQM	1800000	LQM
Aromatic >EC5-EC7	26000 (1220)	LQM	46000 (2260)	LQM	86000 (4710)	LQM
Aromatic >EC7-EC8	56000 (869)	LQM	110000 (1920)	LQM	180000 (4360)	LQM
Aromatic >EC8-EC10	3500 (613)	LQM	8100 (1500)	LQM	17000 (3580)	LQM
Aromatic >EC10-EC12	16000 (364)	LQM	28000 S(899)	LQM	34000 (2150)	LQM
Aromatic >EC12-EC16	36000 (169)	LQM	37000	LQM	38000	LQM
Aromatic >EC16-EC21	28000	LQM	28000	LQM	28000	LQM
Aromatic >EC21-EC35	28000	LQM	28000	LQM	28000	LQM
Aromatic >EC35-EC44	28000	LQM	28000	LQM	28000	LQM
Aromatic and Aliphatic >EC44-EC70	28000	LQM	28000	LQM	28000	LQM

Polycyclic Aromatic Hydrocarbons (PAH)

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Naphthalene	190 (76.4)	LQM	460 (183)	LQM	1100 (432)	LQM
Acenaphthylene	83000 (86.1)	LQM	97000 (212)	LQM	100000	LQM
Acenaphthene	84000 (57)	LQM	97000 (141)	LQM	100000	LQM
Fluorene	63000 (30.9)	LQM	68000	LQM	71000	LQM
Phenanthrene	22000	LQM	22000	LQM	23000	LQM
Anthracene	520000	LQM	540000	LQM	540000	LQM
Fluoranthene	23000	LQM	23000	LQM	23000	LQM
Pyrene	54000	LQM	54000	LQM	54000	LQM
Benzo[a]anthracene	170	LQM	170	LQM	180	LQM
Chrysene	350	LQM	350	LQM	350	LQM
Benzo[b]fluoranthene	44	LQM	44	LQM	45	LQM
Benzo[k]fluoranthene	1200	LQM	1200	LQM	1200	LQM
Benzo[a]pyrene	35	LQM	35	LQM	36	LQM
Benzo[a]pyrene	77	C4SL	77	C4SL	77	C4SL
Indeno[123-cd]pyrene	500	LQM	510	LQM	510	LQM
Dibenz[ah]anthracene	3.5	LQM	3.6	LQM	3.6	LQM
Benzo[ghi]perylene	3900	LQM	4000	LQM	4000	LQM

C4SL for benzo(a)pyrene is based on 6% SOM only, however, the published C4SL Final Project Report indicates that SOM has a negligible influence for this compound.

Volatile Organic Compounds (VOC)

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
BTEX/MTBE						
Benzene					95	SGV
Benzene	27	LQM	47	LQM	90	LQM
Benzene	27	C4SL	-	-	98	C4SL
Toluene					(4400)	SGV
Toluene	56000 (869)	LQM	110000 (1920)	LQM	180000 (4360)	LQM
Ethylbenzene					(2,800)	SGV
Ethylbenzene	5700 (518)	LQM	13000 (1220)	LQM	27000 (2840)	LQM
Xylene – m					(3500)	SGV
Xylene – m	6200 (625)	LQM	14000 (1470)	LQM	31000 (3460)	LQM
Xylene – o					(2,600)	SGV
Xylene – o	6600 (478)	LQM	15000 (1120)	LQM	33000 (2620)	6600 (478)
Xylene – p					(3,200)	SGV
Xylene – p	5900 (576)	LQM	14000 (1350)	LQM	30000 (3170)	LQM
Methyl <i>tert</i> -butyl ether	7900	EIC	13000	EIC	24000	EIC
Chlorinated Solvents						
Vinyl Chloride (Chloroethene)	0.059	LQM	0.077	LQM	0.12	LQM
Trichloromethane (Chloroform)	99	LQM	170	LQM	350	LQM
1,2-Dichloroethane (1,2-DCA)	0.67	LQM	0.97	LQM	1.7	LQM
Trichloroethene (TCE)	1.2	LQM	2.6	LQM	5.7	LQM
1,1,1-Trichloroethane	660	LQM	1300	LQM	3000	LQM
Tetrachloroethene (PCE)	19	LQM	42	LQM	95	LQM
1,1,1,2-Tetrachloroethanes	110	LQM	250	LQM	560	LQM
1,1,2,2-Tetrachloroethane	270	LQM	550	LQM	1100	LQM
Tetrachloromethane	2.9	LQM	6.3	LQM	14	LQM
1,1,2 Trichloroethane	94	EIC	190	EIC	400	EIC
1,1-Dichloroethane	280	EIC	450	EIC	850	EIC
1,1-Dichloroethene	26	EIC	46	EIC	92	EIC
<i>Cis</i> 1,2-Dichloroethene	14	EIC	24	EIC	47	EIC
<i>Trans</i> 1,2-dichloroethene	22	EIC	40	EIC	81	EIC
Benzenes						
Chlorobenzene	56	LQM	130	LQM	290	LQM
1,2,4-Trimethylbenzene	42	EIC	99	EIC	220	EIC
Iso-propylbenzene	1400 (390)	EIC	3300 (950)	EIC	7700 (2250)	EIC
Propylbenzene	4100 (402)	EIC	9700 (981)	EIC	21000 (2330)	EIC
Other						

Collation of Human Health SGVs and Soil Screening Values – Commercial

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Bromobenzene	97	EIC	220	EIC	520	EIC
Bromodichloromethane	2.1	EIC	3.7	EIC	7.6	EIC
Carbon Disulphide	11	LQM	22	LQM	47	LQM
Chloroethane	960	EIC	1300	EIC	2100	EIC
Chloromethane	1	EIC	1.2	EIC	1.6	EIC
Dichloromethane	270	EIC	360	EIC	560	EIC
1,2-Dichloropropane	3.3	EIC	5.9	EIC	12	EIC
Hexachlorobutadiene	31	LQM	66	LQM	120	LQM
Styrene	3300 (626)	EIC	6500 (1440)	EIC	11000 (3350)	EIC

Semi-Volatile Organic Compounds (SVOC) and Other Organic Compounds

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Chlorobenzenes						
1,2-Dichlorobenzene	2000 (571)	LQM	4800 (1370)	LQM	11000 (3240)	LQM
1,3-Dichlorobenzene	30	LQM	73	LQM	170	LQM
1,4-Dichlorobenzene	4400 (224)	LQM	10000 (540)	LQM	25000 (1280)	LQM
1,2,3-Trichlorobenzene	102	LQM	250	LQM	590	LQM
1,2,4-Trichlorobenzene	220	LQM	530	LQM	1300	LQM
1,3,5-Trichlorobenzene	23	LQM	55	LQM	130	LQM
1,2,3,4-Tetrachlorobenzene	1700 (122)	LQM	3080 (304)	LQM	4400 (728)	LQM
1,2,3,5-Tetrachlorobenzene	49 (39.4)	LQM	120 (98.1)	LQM	240 (235)	LQM
1,2,4,5-Tetrachlorobenzene	42 (19.7)	LQM	72 (49.1)	LQM	96	LQM
Pentachlorobenzene	640 (43)	LQM	770 (107)	LQM	830	LQM
Hexachlorobenzene	110 (0.2)	LQM	120	LQM	120	LQM
Phthalates						
Bis (2-ethylhexyl)phthalate	85,000 (8.68)	EIC	86,000 (21.6)	EIC	86,000 (51.7)	EIC
Diethyl phthalate	150,000 (13.7)	EIC	220,000 (29.1)	EIC	290,000 (65)	EIC
Di- <i>n</i> -butyl phthalate	15,000 (4.65)	EIC	15,000 (11.4)	EIC	15,000 (27.3)	EIC
Di- <i>n</i> -octyl phthalate	89,000 (32.6)	EIC	89,000 (81.5)	EIC	89,000 (196)	EIC
Butyl benzyl phthalate	940,000 (26.3)	EIC	940,000 (64.7)	EIC	950,000 (154)	EIC
Phenols						
Phenol	440	LQM	690	LQM	1200	LQM
2,4-Dimethylphenol	16000 (1380)	EIC	24000 (3140)	EIC	30000 (7240)	EIC
Total Cresols (2-, 3- and 4-methylphenol)	160000 (15000)	EIC	180000 (32500)	EIC	180000 (73300)	EIC
Chlorophenols						
Chlorophenols (except Pentachlorophenol)	3500	LQM	4000	LQM	4300	LQM
Pentachlorophenol	400	LQM	400	LQM	400	LQM
Other						
Biphenyl	18000 (34.4)	EIC	33000 (84.3)	EIC	48000 (201)	EIC
Bromoform	760	EIC	1500	EIC	3100	EIC
2-Chloronaphthalene	390 (114)	EIC	960 (280)	EIC	2,200 (669)	EIC
2,4-Dinitrotoluene	3,700 (141)	EIC	3,700 (299)	EIC	3,800 (669)	EIC
2,6-Dinitrotoluene	1,900 (287)	EIC	1,900 (622)	EIC	1,900 (1400)	EIC
Hexachloroethane	22 (8.17)	EIC	53 (20.1)	EIC	120 (48.1)	EIC
Tributyl tin oxide	130 (41.3)	EIC	180 (101)	EIC	200 (241)	EIC

PCBs, Furans and Dioxins

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Sum of PCDDs, PCDFs and dioxin-like PCBs	-	-	-	-	0.24	SGV v.1.05

Pesticides and Herbicides

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Aldrin	170	LQM	170	LQM	170	LQM
Dieldrin	170	LQM	170	LQM	170	LQM
Atrazine	9300	LQM	9400	LQM	9400	LQM
Dichlorvos	140	LQM	140	LQM	140	LQM
Endosulfan (alpha)	5600 (0.003)	LQM	7400 (0.007)	LQM	8400 (0.016)	LQM
Endosulfan (beta)	6300 (0.00007)	LQM	7800 (0.0002)	LQM	8700	LQM
alpha-Hexachlorocyclohexanes	170	LQM	180	LQM	180	LQM
beta-Hexachlorocyclohexanes	65	LQM	65	LQM	65	LQM
gamma-Hexachlorocyclohexanes (inc. Lindane)	67	LQM	69	LQM	70	LQM

Explosives

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
2,4,6 Trinitrotoluene (TNT)	1000	LQM	1000	LQM	1000	LQM
RDX	210000	LQM	210000	LQM	210000	LQM
HMX	110000	LQM	110000	LQM	110000	LQM





Final Report

Report Number: 15-20519 Issue-1

Initial Date of Issue: 22-Sep-2015

Client: Delta Simons

Client Address: 3 Henley Office Park
Doddington Road
Lincoln
Lincolnshire
LN6 3QR

Contact(s): Simon Steele
Alex Cutts
Stacey Ragsdale

Project: 15-0645.02 - Corby

Quotation No.: Q15-04536 **Date Received:** 07-Sep-2015

Order No.: DS26055 **Date Instructed:** 15-Sep-2015

No. of Samples: 33

Turnaround: (Wkdays) 5 **Results Due Date:** 21-Sep-2015

Date Approved: 22-Sep-2015

Approved By:

Details: Darrell Hall, Laboratory Director
Keith Jones, Technical Manager

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192			-	-	-	-	-	-	-	-
Asbestos Identification	U	2192			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	7.1	17	20	5.6	16	5.5	15	11
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	Stones	Stones	Stones	NONE	Stones	NONE	Stones
Soil Texture	N				Sand	Loam	Clay	Sand	Clay	Sand	Loam	Sand
pH	M	2010			8.1	7.8	7.9	8.4	Clay	8.1		10.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	< 0.40	0.97	0.97	< 0.40		< 0.40		0.46
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.83	0.86	0.62	0.17		1.1		1.1
Total Sulphur	M	2175	%	0.01	0.18	0.50	0.55	0.12		0.23		0.17
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.35	0.82	0.65	0.12		0.39		0.33
Arsenic	M	2450	mg/kg	1	44	39	33	33		42		29
Cadmium	M	2450	mg/kg	0.1	0.31	0.36	0.19	0.21		0.27		0.21
Chromium	M	2450	mg/kg	1	13	48	40	9.5		11		12
Copper	M	2450	mg/kg	0.5	2.2	52	23	2.8		3.2		2.5
Mercury	M	2450	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10		< 0.10
Nickel	M	2450	mg/kg	0.5	6.0	43	38	4.8		5.6		6.2
Lead	M	2450	mg/kg	0.5	2.2	87	23	1.8		1.7		2.1
Selenium	M	2450	mg/kg	0.2	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20		< 0.20
Zinc	M	2450	mg/kg	0.5	17	400	89	14		15		15
Chromium (Trivalent)	N	2490	mg/kg	5	13	48	40	9.5		11		12
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Fuel Type	N	2670			W.Diesel	N/A		N/A		N/A		W.Diesel
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	6.8	< 1.0		< 1.0		< 1.0		36
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	5.0	< 1.0		< 1.0		< 1.0		17
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		1.2

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	12	< 5.0	< 5.0	< 5.0	< 5.0	54	
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	M	2680	mg/kg	1	2.6	< 1.0	< 1.0	< 1.0	< 1.0	11	
Aromatic TPH >C16-C21	M	2680	mg/kg	1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	4.3	
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	5.2	< 5.0	< 5.0	< 5.0	< 5.0	16	
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	18	< 10	< 10	< 10	< 10	70	
Naphthalene	M	2700	mg/kg	0.1	< 0.10	2.0	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	0.16	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	0.44	0.26	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10	0.43	0.40	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1	< 0.10	1.6	0.88	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1	< 0.10	0.21	0.12	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1	< 0.10	1.3	0.91	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1	< 0.10	1.2	0.69	< 0.10	< 0.10	0.23	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	< 0.10	0.47	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10	0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0	9.0	4.6	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Bromobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Phenol	N	2790	mg/kg	0.5				< 0.50	< 0.50			
2-Chlorophenol	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5				< 0.50	< 0.50			
1,3-Dichlorobenzene	N	2790	mg/kg	0.5				< 0.50	< 0.50			
1,4-Dichlorobenzene	N	2790	mg/kg	0.5				< 0.50	< 0.50			
1,2-Dichlorobenzene	N	2790	mg/kg	0.5				< 0.50	< 0.50			
2-Methylphenol	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Hexachloroethane	N	2790	mg/kg	0.5				< 0.50	< 0.50			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5				< 0.50	< 0.50			
4-Methylphenol	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Nitrobenzene	N	2790	mg/kg	0.5				< 0.50	< 0.50			
Isophorone	N	2790	mg/kg	0.5				< 0.50	< 0.50			

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Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:					Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:					DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):					0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:					01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD										
2-Nitrophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,4-Dimethylphenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,4-Dichlorophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Naphthalene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Chloroaniline	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Hexachlorobutadiene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2-Methylnaphthalene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Nitrophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2-Chloronaphthalene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2-Nitroaniline	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Acenaphthylene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Dimethylphthalate	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,6-Dinitrotoluene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Acenaphthene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
3-Nitroaniline	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Dibenzofuran	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Chlorophenylphenylether	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2,4-Dinitrotoluene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Fluorene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Diethyl Phthalate	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Nitroaniline	N	2790	mg/kg	0.5						< 0.50		< 0.50		
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Azobenzene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Hexachlorobenzene	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Pentachlorophenol	N	2790	mg/kg	0.5						< 0.50		< 0.50		
Phenanthrene	N	2790	mg/kg	0.5						< 0.50		< 0.50		

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Client: Delta Simons	Chemtest Job No.:				15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:				187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:				Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:				DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):				0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:				01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD									
Anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Carbazole	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Chrysene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	< 0.30		< 0.30		< 0.30	< 0.30

Results - Soil

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852	187852	
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand	Sand	
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112	DS112	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4	0.4	
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5	0.5	
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	
Determinand	Accred.	SOP	Units	LOD										
ACM Type	U	2192				-		-		Lagging	-		-	
Asbestos Identification	U	2192				No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected	
Moisture	N	2030	%	0.02	3.2	18	17	1.3	14	8.1	16	15	13	6.8
Soil Colour	N				Red	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Yellow	Brown
Other Material	N				Stones	Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Clay	Loam	Sand	Loam	Sand	Loam	Sand	Sand	Sand
pH	M	2010				7.5		8.3		8.1	10.0	8.1		8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4		0.80		< 0.40		< 0.40	0.81	0.43		< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01		1.3		0.31		1.2	1.2	1.6		1.1
Total Sulphur	M	2175	%	0.01		1.1		0.070		0.20	1.0	1.0		0.17
Cyanide (Free)	M	2300	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01		0.44		0.18		0.29	0.76	1.5		0.31
Arsenic	M	2450	mg/kg	1		28		8.6		42	32	39		32
Cadmium	M	2450	mg/kg	0.1		0.38		< 0.10		0.29	0.20	< 0.10		0.10
Chromium	M	2450	mg/kg	1		34		11		11	86	25		8.0
Copper	M	2450	mg/kg	0.5		29		20		1.5	44	15		1.2
Mercury	M	2450	mg/kg	0.1		0.35		< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Nickel	M	2450	mg/kg	0.5		28		13		4.0	38	26		3.4
Lead	M	2450	mg/kg	0.5		49		4.9		1.1	17	8.8		0.99
Selenium	M	2450	mg/kg	0.2		< 0.20		< 0.20		< 0.20	< 0.20	< 0.20		< 0.20
Zinc	M	2450	mg/kg	0.5		190		39		13	120	53		11
Chromium (Trivalent)	N	2490	mg/kg	5		34		11		11	86	25		8.0
Chromium (Hexavalent)	N	2490	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50		< 0.50
Fuel Type	N	2670				W.Kerosene		N/A		N/A				
Aliphatic TPH >C5-C6	N	2680	mg/kg	1		< 1.0		< 1.0		< 1.0				
Aliphatic TPH >C6-C8	N	2680	mg/kg	1		< 1.0		< 1.0		< 1.0				
Aliphatic TPH >C8-C10	M	2680	mg/kg	1		2700		< 1.0		< 1.0				
Aliphatic TPH >C10-C12	M	2680	mg/kg	1		2600		< 1.0		< 1.0				
Aliphatic TPH >C12-C16	M	2680	mg/kg	1		56		< 1.0		< 1.0				
Aliphatic TPH >C16-C21	M	2680	mg/kg	1		170		< 1.0		< 1.0				
Aliphatic TPH >C21-C35	M	2680	mg/kg	1		1200		< 1.0		< 1.0				

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Aliphatic TPH >C35-C44	N	2680	mg/kg	1		58	< 1.0		< 1.0			
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5		6900	< 5.0		< 5.0			
Aromatic TPH >C5-C7	N	2680	mg/kg	1		< 1.0	< 1.0		< 1.0			
Aromatic TPH >C7-C8	N	2680	mg/kg	1		< 1.0	< 1.0		< 1.0			
Aromatic TPH >C8-C10	M	2680	mg/kg	1		8.7	< 1.0		< 1.0			
Aromatic TPH >C10-C12	M	2680	mg/kg	1		750	< 1.0		< 1.0			
Aromatic TPH >C12-C16	M	2680	mg/kg	1		79	< 1.0		< 1.0			
Aromatic TPH >C16-C21	M	2680	mg/kg	1		390	< 1.0		2.0			
Aromatic TPH >C21-C35	M	2680	mg/kg	1		2000	< 1.0		< 1.0			
Aromatic TPH >C35-C44	N	2680	mg/kg	1		280	< 1.0		< 1.0			
Total Aromatic Hydrocarbons	M	2680	mg/kg	5		3500	< 5.0		< 5.0			
Total Petroleum Hydrocarbons	M	2680	mg/kg	10		10000	< 10		< 10			
Naphthalene	M	2700	mg/kg	0.1		0.62	< 0.10		< 0.10	0.71	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1		0.10	< 0.10		< 0.10	0.18	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1		0.82	< 0.10		< 0.10	0.19	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1		0.24	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1		2.6	< 0.10		< 0.10	1.9	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1		0.27	< 0.10		< 0.10	0.22	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1		4.9	< 0.10		< 0.10	3.5	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1		2.9	< 0.10		< 0.10	1.4	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1		1.4	< 0.10		< 0.10	0.80	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1		2.2	< 0.10		< 0.10	1.4	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1		1.9	< 0.10		< 0.10	0.15	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1		1.1	< 0.10		< 0.10	1.2	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1		0.66	< 0.10		< 0.10	0.82	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1		0.91	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1		0.65	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1		1.2	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2		23	< 2.0		< 2.0	13	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20		< 20	< 20		< 20	< 20	< 20	< 20

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Chloroethane	U	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Bromochloromethane	U	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
Trichloromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Tetrachloromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Benzene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Trichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Dibromomethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Bromodichloromethane	M	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
Toluene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
Tetrachloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
1,2-Dibromoethane	M	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
Chlorobenzene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Ethylbenzene	M	2760	µg/kg	1		12	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
m & p-Xylene	M	2760	µg/kg	1		2.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
o-Xylene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Styrene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Tribromomethane	U	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Isopropylbenzene	M	2760	µg/kg	1		18	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Bromobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50		< 50		< 50
N-Propylbenzene	U	2760	µg/kg	1		29		< 1.0		< 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1		79		< 1.0		< 1.0		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1		10		< 1.0		< 1.0		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1		32		< 1.0		< 1.0		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1		21		< 1.0		< 1.0		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1		53		< 1.0		< 1.0		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
N-Butylbenzene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50		< 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2		< 2.0		< 2.0		< 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Phenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
2-Chlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
2-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Hexachloroethane	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
4-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Nitrobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Isophorone	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Naphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Acenaphthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Fluorene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Azobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Phenanthrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	

Results - Soil

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Carbazole	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Butylbenzyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[a]anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Chrysene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[b]fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[k]fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[a]pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Total Phenols	M	2920	mg/kg	0.3		< 0.30		< 0.30		< 0.30	< 0.30	< 0.30

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862		
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay		
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7		
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0		
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15		
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192			-		-		-	-		-	
Asbestos Identification	U	2192			No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.02	8.2	14	7.6	16	9.5	15	8.7	14	17
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	NONE	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Loam	Sand	Loam	Sand	Loam	Sand	Loam	Loam
pH	M	2010			8.0			7.4		7.8	8.0		7.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	< 0.40			0.55		0.51	< 0.40		0.65
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	1.5			1.1		0.68	1.1		1.2
Total Sulphur	M	2175	%	0.01	0.32			1.1		0.81	0.24		1.1
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.53			0.36		0.73	0.32		0.67
Arsenic	M	2450	mg/kg	1	28			31		29	36		32
Cadmium	M	2450	mg/kg	0.1	0.15			0.14		0.17	0.25		0.13
Chromium	M	2450	mg/kg	1	7.8			46		35	9.6		36
Copper	M	2450	mg/kg	0.5	1.3			24		23	1.1		24
Mercury	M	2450	mg/kg	0.1	< 0.10			< 0.10		< 0.10	< 0.10		< 0.10
Nickel	M	2450	mg/kg	0.5	3.5			40		35	3.6		38
Lead	M	2450	mg/kg	0.5	1.1			14		13	1.2		13
Selenium	M	2450	mg/kg	0.2	< 0.20			< 0.20		< 0.20	< 0.20		< 0.20
Zinc	M	2450	mg/kg	0.5	11			69		64	11		65
Chromium (Trivalent)	N	2490	mg/kg	5	7.8			46		35	9.6		36
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Fuel Type	N	2670									N/A		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1							< 1.0		

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Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1					< 1.0		
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5					< 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1					< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1					< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C16-C21	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C21-C35	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1					< 1.0		
Total Aromatic Hydrocarbons	M	2680	mg/kg	5					< 5.0		
Total Petroleum Hydrocarbons	M	2680	mg/kg	10					< 10		
Naphthalene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Phenanthrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Chrysene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10		< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Bromomethane	M	2760	µg/kg	20	< 20		< 20	< 20	< 20		< 20

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Chloroethane	U	2760	µg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Bromochloromethane	U	2760	µg/kg	5	< 5.0		< 5.0	< 5.0	< 5.0		< 5.0
Trichloromethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Tetrachloromethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Benzene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Trichloroethene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Dibromomethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Bromodichloromethane	M	2760	µg/kg	5	< 5.0		< 5.0	< 5.0	< 5.0		< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10		< 10	< 10	< 10		< 10
Toluene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10		< 10	< 10	< 10		< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10		< 10	< 10	< 10		< 10
Tetrachloroethene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10		< 10	< 10	< 10		< 10
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0		< 5.0	< 5.0	< 5.0		< 5.0
Chlorobenzene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Ethylbenzene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
m & p-Xylene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
o-Xylene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Styrene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Tribromomethane	U	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Isopropylbenzene	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0		< 1.0

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:					Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:					DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):					0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:					02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD										
Bromobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50			< 50		< 50	< 50	< 50		< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50			< 50		< 50	< 50	< 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Phenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
2-Chlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
2-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Hexachloroethane	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
4-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Nitrobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50
Isophorone	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		< 0.50

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD							
2-Nitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,4-Dichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Naphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Acenaphthylene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Acenaphthene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Dibenzofuran	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Fluorene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Azobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	
Phenanthrene	N	2790	mg/kg	0.5		< 0.50	< 0.50	< 0.50		< 0.50	

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:				15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:				187853	187854	187855	187856	187857	187858	187859	187860	187862	
Order No.: DS26055	Client Sample Ref.:				Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay	
	Client Sample ID.:				DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7	
	Bottom Depth(m):				0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0	
	Date Sampled:				02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15	
Determinand	Accred.	SOP	Units	LOD										
Anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Carbazole	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Chrysene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30			< 0.30		< 0.30	< 0.30		< 0.30	

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:		Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:		BH108	DS116	DS116	ES2	ES
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):		3.0	0.3	0.7	8.45	3.0
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192			-	-	-
Asbestos Identification	U	2192			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	15	7.9	15
Soil Colour	N				Brown	Brown	Brown
Other Material	N				Stones	Stones	NONE
Soil Texture	N				Loam	Sand	Loam
pH	M	2010			7.7	8.1	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	0.55	< 0.40	2.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.91	0.93	0.66
Total Sulphur	M	2175	%	0.01	1.0	0.22	0.24
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50	< 0.50	2.3
Sulphate (Acid Soluble)	M	2430	%	0.01	0.97	0.34	0.21
Arsenic	M	2450	mg/kg	1	31	18	49
Cadmium	M	2450	mg/kg	0.1	0.22	0.15	0.49
Chromium	M	2450	mg/kg	1	37	5.2	59
Copper	M	2450	mg/kg	0.5	23	< 0.50	15
Mercury	M	2450	mg/kg	0.1	0.19	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.5	38	1.6	29
Lead	M	2450	mg/kg	0.5	22	< 0.50	220
Selenium	M	2450	mg/kg	0.2	< 0.20	< 0.20	0.50
Zinc	M	2450	mg/kg	0.5	77	4.1	830
Chromium (Trivalent)	N	2490	mg/kg	5	37	5.2	59
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50	< 0.50	< 0.50
Fuel Type	N	2670			N/A	N/A	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0				
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0				
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0				
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0				
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	< 10	< 10				
Naphthalene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Fluorene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Phenanthrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Fluoranthene	M	2700	mg/kg	0.1	0.59	< 0.10		< 0.10	< 0.10	
Pyrene	M	2700	mg/kg	0.1	0.54	< 0.10		< 0.10	< 0.10	
Benzo[a]anthracene	M	2700	mg/kg	0.1	0.29	< 0.10		< 0.10	< 0.10	
Chrysene	M	2700	mg/kg	0.1	0.47	< 0.10		< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromomethane	M	2760	µg/kg	20	< 20	< 20		< 20	< 20	

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10		< 10	< 10	
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10		< 10	< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10		< 10	< 10	
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10		< 10	< 10	
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Bromobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50		< 50	< 50	
N-Propylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
N-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50		< 50	< 50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
N-Nitrosodimethylamine	N	2790	mg/kg	0.5			< 0.50			
Phenol	N	2790	mg/kg	0.5			< 0.50			
2-Chlorophenol	N	2790	mg/kg	0.5			< 0.50			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5			< 0.50			
1,3-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
1,4-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
1,2-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
2-Methylphenol	N	2790	mg/kg	0.5			< 0.50			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5			< 0.50			
Hexachloroethane	N	2790	mg/kg	0.5			< 0.50			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5			< 0.50			
4-Methylphenol	N	2790	mg/kg	0.5			< 0.50			
Nitrobenzene	N	2790	mg/kg	0.5			< 0.50			
Isophorone	N	2790	mg/kg	0.5			< 0.50			

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:				
Quotation No.: Q15-04536	15-20519	15-20519	15-20519	15-20519	15-20519
Order No.: DS26055	Chemtest Sample ID.: 187864	187865	187866	187869	187877
	Client Sample Ref.: Clay	Sand	Clay	BH108	BH110
	Client Sample ID.: BH108	DS116	DS116	ES2	ES
	Sample Type:	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	2.5	0.2	0.3	8.0
	Bottom Depth(m):	3.0	0.3	0.7	8.45
	Date Sampled:	03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15
	03-Sep-15				03-Sep-15
Determinand	Accred.	SOP	Units	LOD	
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50
Naphthalene	N	2790	mg/kg	0.5	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50
Acenaphthene	N	2790	mg/kg	0.5	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50
Fluorene	N	2790	mg/kg	0.5	< 0.50
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50
Azobenzene	N	2790	mg/kg	0.5	< 0.50
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50
Phenanthrene	N	2790	mg/kg	0.5	< 0.50

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:				15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:				187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:				Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:				BH108	DS116	DS116	ES2	ES
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):				3.0	0.3	0.7	8.45	3.0
	Date Sampled:				03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Anthracene	N	2790	mg/kg	0.5			< 0.50		
Carbazole	N	2790	mg/kg	0.5			< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Pyrene	N	2790	mg/kg	0.5			< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5			< 0.50		
Chrysene	N	2790	mg/kg	0.5			< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5			< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5			< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5			< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5			< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5			< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30		< 0.30	< 0.30

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk



Final Report

Report Number: 15-21045 Issue-1

Initial Date of Issue: 22-Sep-2015

Client: Delta Simons

Client Address:
3 Henley Office Park
Doddington Road
Lincoln
Lincolnshire
LN6 3QR

Contact(s):
Simon Steele
Stacey Ragsdale

Project: 15-0645.02 Corby

Quotation No.: Q15-04536

Date Received: 11-Sep-2015

Order No.: DS26055

Date Instructed: 16-Sep-2015

No. of Samples: 7

Turnaround: (Wkdays) 5

Results Due Date: 22-Sep-2015

Date Approved: 22-Sep-2015

Approved By:

Details: Robert Monk, Technical Development
Chemist

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680	
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118	
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2	
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3	
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192			-		-		-	-
Asbestos Identification	U	2192			No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	3.3	14	15	11	7.1	15
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Clay	Clay	Clay	Sand	Clay
pH	M	2010			8.5		7.7		8.1	7.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	0.51		0.70		< 0.40	0.64
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.37		1.1		1.2	1.1
Total Sulphur	M	2175	%	0.01	0.080		1.1		0.26	1.4
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.20		1.0		0.41	1.1
Arsenic	M	2450	mg/kg	1	9.5		22		11	22
Cadmium	M	2450	mg/kg	0.1	< 0.10		0.13		0.13	0.11
Chromium	M	2450	mg/kg	1	16		32		4.9	33
Copper	M	2450	mg/kg	0.5	17		21		1.3	19
Mercury	M	2450	mg/kg	0.1	< 0.10		< 0.10		< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.5	15		32		1.9	32
Lead	M	2450	mg/kg	0.5	12		15		0.78	14
Selenium	M	2450	mg/kg	0.2	< 0.20		< 0.20		< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.5	43		49		5.2	51
Chromium (Trivalent)	N	2490	mg/kg	5	16		32		< 5.0	33
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Fuel Type	N	2670			N/A		N/A		N/A	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS118	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	< 10	< 10	< 10	< 10	
Naphthalene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1	0.88	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1	0.30	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1	1.4	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1	0.71	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	0.47	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	0.21	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	0.42	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	6.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680	
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118	
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2	
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3	
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	
Determinand	Accred.	SOP	Units	LOD						
Bromobenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50		< 50		< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50		< 50		< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0		< 2.0		< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0		< 1.0		< 1.0	< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Phenol	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
2-Chlorophenol	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
2-Methylphenol	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Hexachloroethane	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
4-Methylphenol	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Nitrobenzene	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50
Isophorone	N	2790	mg/kg	0.5		< 0.50		< 0.50		< 0.50

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Naphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Acenaphthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Fluorene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Azobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Phenanthrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50

Project: 15-0645.02 Corby

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Carbazole	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Butylbenzyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[a]anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Chrysene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[b]fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[k]fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[a]pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk





Amended Report

Report Number: 15-21023 Issue-2

Initial Date of Issue: 17-Sep-2015

Client: Delta Simons

Client Address: 3 Henley Office Park
Doddington Road
Lincoln
Lincolnshire
LN6 3QR

Contact(s): Simon Steele

Project: 15-0645.02 - Corby

Quotation No.: Q15-04536 **Date Received:** 11-Sep-2015


Order No.: DS26055 **Date Instructed:** 11-Sep-2015

No. of Samples: 9

Turnaround: (Wkdays) 5 **Results Due Date:** 17-Sep-2015

Date Approved: 17-Sep-2015

Approved By:



Details: Robert Monk, Technical Development
Chemist

Results Summary - Water

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190628	190628	190654
Order No.: DS26055	Client Sample Ref.:												
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15
Determinand	Accred.	SOP	Units	LOD									
pH	U	1010			7.5	7	7.2	7.6	7.5	7.4	7	7	9.3
Sulphate	U	1220	mg/l	1	530	510	120	440	900	550	1400	1400	170
Cyanide (Total)	U	1300	mg/l	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hardness	U	1415	mg/l	15	570	650	470	470	930	760	1500	1700	230
Arsenic (Dissolved)	U	1450	µg/l	1	4	2.9	1.1	1.8	4.2	3.5	3	< 1.0	4.5
Boron (Dissolved)	U	1450	µg/l	20	310	250	120	1200	320	460	230	140	740
Cadmium (Dissolved)	U	1450	µg/l	0.08	0.59	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	0.74	0.2	1.2
Chromium (Dissolved)	U	1450	µg/l	1	5.2	6.3	6.8	8.7	8	12	5.7	9.9	3.6
Copper (Dissolved)	U	1450	µg/l	1	1.5	1.3	1.3	1.2	< 1.0	1.3	< 1.0	< 1.0	1.5
Mercury (Dissolved)	U	1450	µg/l	0.5	1.5	0.98	0.73	1.4	1.5	2	1.3	1.3	0.61
Nickel (Dissolved)	U	1450	µg/l	1	3.9	5.9	4.2	2.2	6.3	6.3	2.3	4.5	6.3
Lead (Dissolved)	U	1450	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
Selenium (Dissolved)	U	1450	µg/l	1	8.4	5.5	1.6	16	8.7	9.4	3.8	4.1	9.2
Zinc (Dissolved)	U	1450	µg/l	1	12	15	38	15	20	36	9.5	40	6.8
Chromium (Trivalent)	N	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	C < 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
Total Aromatic Hydrocarbons	N	1675	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	C < 5.0
Total Petroleum Hydrocarbons	U	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	C < 10
Naphthalene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654		
Order No.: DS26055	Client Sample Ref.:												
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102		
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15
Determinand	Accred.	SOP	Units	LOD									
1,1-Dichloropropene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Results Summary - Water

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
4-Isopropyltoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
Hexachlorocyclopentadiene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

Results Summary - Water

Project: 15-0645.02 - Corby

Client: Delta Simons	Chemtest Job No.:				15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:				190621	190622	190623	190624	190625	190626	190627	190628	190654
Order No.: DS26055	Client Sample Ref.:												
	Client Sample ID.:				R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102
	Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:				08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15
Determinand	Accred.	SOP	Units	LOD									
Benzo[k]fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols	U	1920	mg/l	0.03	< 0.030	< 0.030	3.9	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	0.69

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID:	Sample Ref:	Sample ID:	Sampled Date:	Deviation Code(s):	Containers Received:
190654		BH102	08-Sep-2015	C	EPA Vial 40ml
190654		BH102	08-Sep-2015	C	Plastic Bottle 1000ml

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk



Waste Classification Report



MUSFH-9JL6Z-2YTML

Job name

Shelton Road, Corby

Waste Stream

Default Contaminated Land

Comments

Project

15-0645.02

Site

Shelton Road, Corby

Classified by

Name:
Rhodes, John
Date:
09/10/2015 09:00 UTC
Telephone:
01522 823337

Company:
Delta-Simons
3 Henley Office Park
Doddington Road
Lincoln
LN6 3QR

Report

Created by: Rhodes, John
Created date: 09/10/2015 09:00 UTC

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
1	DS104	0.2	Potentially Hazardous	HP 3(i)	3
2	DS104[1]	1	Non Hazardous		5
3	DS102	0.3	Non Hazardous		7
4	DS105	0.2	Non Hazardous		9
5	DS105[1]	2	Non Hazardous		11
6	DS103	0.2	Non Hazardous		12
7	DS103[1]	0.6	Non Hazardous		14
8	DS106	0.2	Potentially Hazardous	HP 3(i)	15
9	DS106[1]	1.5	Non Hazardous		17
10	DS107a	0.08	Non Hazardous		19
11	DS107a[1]	0.9	Hazardous	HP 3(i), HP 7, HP 11	20
12	DS107a[2]	2.3	Non Hazardous		23
13	DS111	0.08	Non Hazardous		24
14	DS111[1]	1.3	Non Hazardous		26
15	DS109	0.1	Non Hazardous		27
16	DS109[1]	2.2	Non Hazardous		29
17	DS110	1.6	Non Hazardous		31

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
18	DS110[1]	1.8	Non Hazardous		33
19	DS112	0.4	Non Hazardous		34
20	DS107	0.2	Non Hazardous		36
21	DS107[1]	1.3	Non Hazardous		38
22	DS101	0.1	Non Hazardous		39
23	DS101[1]	0.5	Non Hazardous		40
24	DS108	0.1	Non Hazardous		42
25	DS108[1]	0.7	Non Hazardous		43
26	DS113	0.2	Non Hazardous		45
27	DS113[1]	1.8	Non Hazardous		47
28	DS114	0.7	Non Hazardous		48
29	BH108	2.5	Non Hazardous		50
30	DS116	0.2	Non Hazardous		52
31	DS116[1]	0.3	Non Hazardous		54
32	BH108[1]	8	Potentially Hazardous	HP 12	55
33	BH110	2.5	Non Hazardous		58
34	DS115	0.05	Non Hazardous		60
35	DS115[1]	1.5	Non Hazardous		62
36	DS119	1.8	Non Hazardous		63
37	DS117	1.3	Non Hazardous		65
38	DS117[1]	0.1	Non Hazardous		66
39	DS118	0.8	Non Hazardous		68
40	DS118[1]	0.2	Non Hazardous		70
41	BH101	11	Potentially Hazardous	HP 12	71
42	BH102	11	Hazardous	HP 12, HP 14	73
43	BH103	7.5	Potentially Hazardous	HP 12	75
44	BH103[1]	16	Non Hazardous		77
45	BH105	4	Non Hazardous		79
46	BH105[1]	11	Non Hazardous		80
47	BH105[2]	19	Hazardous	HP 14	82
48	BH106	4.5	Non Hazardous		84
49	BH106[1]	11	Hazardous	HP 12, HP 14	86
50	BH107	4.2	Non Hazardous		88
51	BH107[1]	12.5	Non Hazardous		90
52	BH109	3.5	Non Hazardous		92
53	BH109[1]	6.5	Non Hazardous		94
54	BH109[2]	14	Non Hazardous		95
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Classification of sample: DS104

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: DS104	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: 7.1% (no correction)		

Hazard properties (substances considered hazardous until shown otherwise)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Determinands (Moisture content: 7.1%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 44 mg/kg, converted to compound conc.:58.094 mg/kg or 0.00581%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Cation conc. entered: 0.31 mg/kg, converted to compound conc.:0.398 mg/kg or 0.0000398%, Note 1 conc.: 0.000031%)
- chromium(III) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:19 mg/kg or 0.0019%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 2.2 mg/kg, converted to compound conc.:2.477 mg/kg or 0.000248%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 2.2 mg/kg, converted to compound conc.:3.322 mg/kg or 0.000332%, Note 1 conc.: 0.00022%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)
IGNORED Because: "<LOD"

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 6 mg/kg, converted to compound conc.:9.477 mg/kg or 0.000948%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 18 mg/kg or 0.0018%)

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 17 mg/kg, converted to compound conc.:41.978 mg/kg or 0.0042%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

WM3: Unknown oil , used on:

determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS104[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS104[1]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 17% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 17%, no correction)

acenaphthene: (Whole conc. entered as: 0.16 mg/kg or 0.000016%)
 acenaphthylene: (Whole conc. entered as: 0.44 mg/kg or 0.000044%)
 anthracene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
 arsenic trioxide: (Cation conc. entered: 39 mg/kg, converted to compound conc.:51.493 mg/kg or 0.00515%)
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
 benzo[b]fluoranthene: (Whole conc. entered as: 0.38 mg/kg or 0.000038%)
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.97 mg/kg, converted to compound conc.:13.027 mg/kg or 0.0013%)
 cadmium sulfide: (Cation conc. entered: 0.36 mg/kg, converted to compound conc.:0.463 mg/kg or 0.0000463%, Note 1 conc.: 0.000036%)
 chromium(III) oxide: (Cation conc. entered: 48 mg/kg, converted to compound conc.:70.155 mg/kg or 0.00702%)
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: 0.41 mg/kg or 0.000041%)
 copper (I) oxide: (Cation conc. entered: 52 mg/kg, converted to compound conc.:58.546 mg/kg or 0.00585%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 1.3 mg/kg or 0.00013%)
 fluorene: (Whole conc. entered as: 0.43 mg/kg or 0.000043%)
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 87 mg/kg, converted to compound conc.:131.37 mg/kg or 0.0131%, Note 1 conc.: 0.0087%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: 2 mg/kg or 0.0002%)
 nickel dihydroxide: (Cation conc. entered: 43 mg/kg, converted to compound conc.:67.918 mg/kg or 0.00679%)
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)
 phenanthrene: (Whole conc. entered as: 1.6 mg/kg or 0.00016%)
 pyrene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 400 mg/kg, converted to compound conc.:987.719 mg/kg or 0.0988%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chrysene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS102

 **Non Hazardous Waste**
 Classified as **17 05 04**
 in the List of Waste

Sample details

Sample Name: DS102	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.3 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 20% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 20%, no correction)

acenaphthene: (Whole conc. entered as: 0.27 mg/kg or 0.000027%)
 acenaphthylene: (Whole conc. entered as: 0.26 mg/kg or 0.000026%)
 anthracene: (Whole conc. entered as: 0.12 mg/kg or 0.000012%)
 arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.97 mg/kg, converted to compound conc.:13.027 mg/kg or 0.0013%)
 cadmium sulfide: (Cation conc. entered: 0.19 mg/kg, converted to compound conc.:0.244 mg/kg or 0.0000244%, Note 1 conc.: 0.000019%)
 chromium(III) oxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:58.462 mg/kg or 0.00585%)
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 0.91 mg/kg or 0.000091%)
 fluorene: (Whole conc. entered as: 0.4 mg/kg or 0.00004%)
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 23 mg/kg, converted to compound conc.:34.73 mg/kg or 0.00347%, Note 1 conc.: 0.0023%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)
 nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)
 pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)
 phenanthrene: (Whole conc. entered as: 0.88 mg/kg or 0.000088%)
 pyrene: (Whole conc. entered as: 0.69 mg/kg or 0.000069%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 89 mg/kg, converted to compound conc.:219.767 mg/kg or 0.022%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 7 on Carc. 1B; H350, Carc. 1A; H350, Carc. 1B; H350i, Carc. 1A; H350i" for determinand: "cadmium sulfide"
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 1A; H360, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1B; H360Fd, Repr. 1B; H360Df, Repr. 1A; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS105

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS105	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 5.6% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 5.6%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
 cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)
 chromium(III) oxide: (Cation conc. entered: 9.5 mg/kg, converted to compound conc.:13.885 mg/kg or 0.00139%)
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Cation conc. entered: 2.8 mg/kg, converted to compound conc.:3.152 mg/kg or 0.000315%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:2.718 mg/kg or 0.000272%, Note 1 conc.: 0.00018%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Cation conc. entered: 4.8 mg/kg, converted to compound conc.:7.582 mg/kg or 0.000758%)
 pH: (Whole conc. entered as: 8.4 pH, converted to conc.:8.4 pH or 8.4 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 14 mg/kg, converted to compound conc.:34.57 mg/kg or 0.00346%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS105[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS105[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2 m	
Moisture content: 16% (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 16%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS103

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS103	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 5.5% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 5.5%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:55.454 mg/kg or 0.00555%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
cadmium sulfide: (Cation conc. entered: 0.27 mg/kg, converted to compound conc.:0.347 mg/kg or 0.0000347%, Note 1 conc.: 0.000027%)
chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 3.2 mg/kg, converted to compound conc.:3.603 mg/kg or 0.00036%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:2.567 mg/kg or 0.000257%, Note 1 conc.: 0.00017%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:8.845 mg/kg or 0.000885%)
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 15 mg/kg, converted to compound conc.:37.039 mg/kg or 0.0037%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS103[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS103[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.6 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 15% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS106

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample Name: DS106	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: 11% (no correction)		

Hazard properties (substances considered hazardous until shown otherwise)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.007%)

Determinands (Moisture content: 11%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:38.289 mg/kg or 0.00383%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.46 mg/kg, converted to compound conc.:6.178 mg/kg or 0.000618%)
cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)
chromium(III) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:17.539 mg/kg or 0.00175%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 2.5 mg/kg, converted to compound conc.:2.815 mg/kg or 0.000281%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 2.1 mg/kg, converted to compound conc.:3.171 mg/kg or 0.000317%, Note 1 conc.: 0.00021%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)
IGNORED Because: "<LOD"

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 6.2 mg/kg, converted to compound conc.:9.793 mg/kg or 0.000979%)

pH: (Whole conc. entered as: 10.2 pH, converted to conc.:10.2 pH or 10.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: 0.23 mg/kg or 0.000023%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 70 mg/kg or 0.007%)

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 15 mg/kg, converted to compound conc.:37.039 mg/kg or 0.0037%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

WM3: Unknown oil , used on:

determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS106[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS106[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.5 m	
Moisture content: 16% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.65 mg/kg, converted to compound conc.:8.73 mg/kg or 0.000873%)
cadmium sulfide: (Cation conc. entered: 0.18 mg/kg, converted to compound conc.:0.231 mg/kg or 0.0000231%, Note 1 conc.: 0.000018%)
chromium(III) oxide: (Cation conc. entered: 41 mg/kg, converted to compound conc.:59.924 mg/kg or 0.00599%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 26 mg/kg, converted to compound conc.:39.26 mg/kg or 0.00393%, Note 1 conc.: 0.0026%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:48.964 mg/kg or 0.0049%)
pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 97 mg/kg, converted to compound conc.:239.522 mg/kg or 0.024%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS107a

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS107a	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.08 m	
Moisture content: 3.2% (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 3.2%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS107a[1]

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS107a[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.9 m	
Moisture content: 18% (no correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

Hazard properties (substances considered hazardous until shown otherwise)

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.0000012%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

Determinands (Moisture content: 18%, no correction)

- acenaphthene: (Whole conc. entered as: 0.1 mg/kg or 0.00001%)
- acenaphthylene: (Whole conc. entered as: 0.82 mg/kg or 0.000082%)
- anthracene: (Whole conc. entered as: 0.27 mg/kg or 0.000027%)
- arsenic trioxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:36.969 mg/kg or 0.0037%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.66 mg/kg or 0.000066%)
benzo[b]fluoranthene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)
benzo[ghi]perylene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)
benzo[k]fluoranthene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:10.744 mg/kg or 0.00107%)
cadmium sulfide: (Cation conc. entered: 0.38 mg/kg, converted to compound conc.:0.488 mg/kg or 0.0000488%, Note 1 conc.: 0.000038%)
chromium(III) oxide: (Cation conc. entered: 34 mg/kg, converted to compound conc.:49.693 mg/kg or 0.00497%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%)
IGNORED Because: "<LOD"
chrysene: (Whole conc. entered as: 2.2 mg/kg or 0.00022%)
copper (I) oxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:32.651 mg/kg or 0.00327%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: 0.65 mg/kg or 0.000065%)
ethylbenzene: (Whole conc. entered as: 0.012 mg/kg or 0.0000012%)
fluoranthene: (Whole conc. entered as: 4.9 mg/kg or 0.00049%)
fluorene: (Whole conc. entered as: 0.24 mg/kg or 0.000024%)
indeno[123-cd]pyrene: (Whole conc. entered as: 0.91 mg/kg or 0.000091%)
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 49 mg/kg, converted to compound conc.:73.99 mg/kg or 0.0074%, Note 1 conc.: 0.0049%)
mercury dichloride: (Cation conc. entered: 0.35 mg/kg, converted to compound conc.:0.474 mg/kg or 0.0000474%)
naphthalene: (Whole conc. entered as: 0.62 mg/kg or 0.000062%)
nickel dihydroxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:44.226 mg/kg or 0.00442%)
pH: (Whole conc. entered as: 7.5 pH, converted to conc.:7.5 pH or 7.5 pH)
phenanthrene: (Whole conc. entered as: 2.6 mg/kg or 0.00026%)
pyrene: (Whole conc. entered as: 2.9 mg/kg or 0.00029%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 10000 mg/kg or 1%)
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 190 mg/kg, converted to compound conc.:469.166 mg/kg or 0.0469%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[ghi]perylene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "dibenz[a,h]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"


Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

WM3: Unknown oil , used on:

determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS107a[2]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS107a[2]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.3 m	
Moisture content: 17% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 17%, no correction)

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS111

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS111	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.08 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 1.3% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 1.3%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 8.6 mg/kg, converted to compound conc.:11.355 mg/kg or 0.00114%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**
chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 4.9 mg/kg, converted to compound conc.:7.399 mg/kg or 0.00074%, Note 1 conc.: 0.00049%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:20.533 mg/kg or 0.00205%)
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 39 mg/kg, converted to compound conc.:96.303 mg/kg or 0.00963%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS111[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS111[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.3 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 14% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS109

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS109</p> <p>Sample Depth: 0.1 m</p> <p>Moisture content: 8.1% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 8.1%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:55.454 mg/kg or 0.00555%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.29 mg/kg, converted to compound conc.:0.373 mg/kg or 0.0000373%, Note 1 conc.: 0.000029%)

chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:1.689 mg/kg or 0.000169%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.661 mg/kg or 0.000166%, Note 1 conc.: 0.00011%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 4 mg/kg, converted to compound conc.:6.318 mg/kg or 0.000632%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 13 mg/kg, converted to compound conc.:32.101 mg/kg or 0.00321%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS109[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS109[1]</p> <p>Sample Depth: 2.2 m</p> <p>Moisture content: 16% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

acenaphthene: (Whole conc. entered as: 0.18 mg/kg or 0.000018%)
 acenaphthylene: (Whole conc. entered as: 0.19 mg/kg or 0.000019%)
 anthracene: (Whole conc. entered as: 0.22 mg/kg or 0.000022%)
 arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: 0.8 mg/kg or 0.00008%)
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.82 mg/kg or 0.000082%)
 benzo[b]fluoranthene: (Whole conc. entered as: 0.15 mg/kg or 0.000015%)
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.81 mg/kg, converted to compound conc.:10.878 mg/kg or 0.00109%)
 cadmium sulfide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.257 mg/kg or 0.0000257%, Note 1 conc.: 0.00002%)
 chromium(III) oxide: (Cation conc. entered: 86 mg/kg, converted to compound conc.:125.694 mg/kg or 0.0126%)
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)
 copper (I) oxide: (Cation conc. entered: 44 mg/kg, converted to compound conc.:49.539 mg/kg or 0.00495%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: 3.5 mg/kg or 0.00035%)
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 17 mg/kg, converted to compound conc.:25.67 mg/kg or 0.00257%, Note 1 conc.: 0.0017%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: 0.71 mg/kg or 0.000071%)
 nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)
 pH: (Whole conc. entered as: 10 pH, converted to conc.:10 pH or 10 pH)
 phenanthrene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)
 pyrene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 120 mg/kg, converted to compound conc.:296.316 mg/kg or 0.0296%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS110

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS110	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.6 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 15% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Cation conc. entered: 39 mg/kg, converted to compound conc.:51.493 mg/kg or 0.00515%)
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.43 mg/kg, converted to compound conc.:5.775 mg/kg or 0.000577%)
 cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**
 chromium(III) oxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:36.539 mg/kg or 0.00365%)
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 8.8 mg/kg, converted to compound conc.:13.288 mg/kg or 0.00133%, Note 1 conc.: 0.00088%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:41.067 mg/kg or 0.00411%)
 pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 53 mg/kg, converted to compound conc.:130.873 mg/kg or 0.0131%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS110[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS110[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.8 m	
Moisture content: 13% (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 13%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS112

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS112	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.4 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 6.8% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 6.8%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.129 mg/kg or 0.0000129%, Note 1 conc.: 0.00001%)

chromium(III) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:11.692 mg/kg or 0.00117%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.351 mg/kg or 0.000135%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 0.99 mg/kg, converted to compound conc.:1.495 mg/kg or 0.000149%, Note 1 conc.: 0.000099%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 3.4 mg/kg, converted to compound conc.:5.37 mg/kg or 0.000537%)

pH: (Whole conc. entered as: 8.2 pH, converted to conc.:8.2 pH or 8.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS107

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS107</p> <p>Sample Depth: 0.2 m</p> <p>Moisture content: 8.2% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 8.2%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:36.969 mg/kg or 0.0037%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.15 mg/kg, converted to compound conc.:0.193 mg/kg or 0.0000193%, Note 1 conc.: 0.000015%)

chromium(III) oxide: (Cation conc. entered: 7.8 mg/kg, converted to compound conc.:11.4 mg/kg or 0.00114%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.464 mg/kg or 0.000146%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.661 mg/kg or 0.000166%, Note 1 conc.: 0.00011%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 3.5 mg/kg, converted to compound conc.:5.528 mg/kg or 0.000553%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Determinand notes


Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS107[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS107[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.3 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 14% (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS101

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS101	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.1 m	
Moisture content: 7.6% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 7.6%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS101[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS101[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 16% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:40.93 mg/kg or 0.00409%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.55 mg/kg, converted to compound conc.:7.387 mg/kg or 0.000739%)
cadmium sulfide: (Cation conc. entered: 0.14 mg/kg, converted to compound conc.:0.18 mg/kg or 0.000018%, Note 1 conc.: 0.000014%)
chromium(III) oxide: (Cation conc. entered: 46 mg/kg, converted to compound conc.:67.232 mg/kg or 0.00672%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 14 mg/kg, converted to compound conc.:21.14 mg/kg or 0.00211%, Note 1 conc.: 0.0014%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:63.18 mg/kg or 0.00632%)
pH: (Whole conc. entered as: 7.4 pH, converted to conc.:7.4 pH or 7.4 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 69 mg/kg, converted to compound conc.:170.381 mg/kg or 0.017%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS108

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS108	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.1 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 9.5% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 9.5%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS108[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS108[1]</p> <p>Sample Depth: 0.7 m</p> <p>Moisture content: 15% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:38.289 mg/kg or 0.00383%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.51 mg/kg, converted to compound conc.:6.849 mg/kg or 0.000685%)

cadmium sulfide: (Cation conc. entered: 0.17 mg/kg, converted to compound conc.:0.218 mg/kg or 0.0000218%, Note 1 conc.: 0.000017%)

chromium(III) oxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:51.154 mg/kg or 0.00512%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 13 mg/kg, converted to compound conc.:19.63 mg/kg or 0.00196%, Note 1 conc.: 0.0013%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 64 mg/kg, converted to compound conc.:158.035 mg/kg or 0.0158%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS113

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS113</p> <p>Sample Depth: 0.2 m</p> <p>Moisture content: 8.7% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 8.7%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:47.532 mg/kg or 0.00475%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.25 mg/kg, converted to compound conc.:0.321 mg/kg or 0.0000321%, Note 1 conc.: 0.000025%)

chromium(III) oxide: (Cation conc. entered: 9.6 mg/kg, converted to compound conc.:14.031 mg/kg or 0.0014%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.238 mg/kg or 0.000124%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.812 mg/kg or 0.000181%, Note 1 conc.: 0.00012%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 3.6 mg/kg, converted to compound conc.:5.686 mg/kg or 0.000569%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

- determinand: "cadmium sulfide"
- determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

- determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS113[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS113[1]	LoW Code:
Sample Depth: 1.8 m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: 14% (no correction)	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified


Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS114

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS114	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.7 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 17% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 17%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.65 mg/kg, converted to compound conc.:8.73 mg/kg or 0.000873%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chromium(III) oxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:52.616 mg/kg or 0.00526%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 13 mg/kg, converted to compound conc.:19.63 mg/kg or 0.00196%, Note 1 conc.: 0.0013%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)

pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 65 mg/kg, converted to compound conc.:160.504 mg/kg or 0.0161%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH108

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH108	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.5 m	
Moisture content: 15% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:40.93 mg/kg or 0.00409%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: 0.29 mg/kg or 0.000029%)
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.55 mg/kg, converted to compound conc.:7.387 mg/kg or 0.000739%)
cadmium sulfide: (Cation conc. entered: 0.22 mg/kg, converted to compound conc.:0.283 mg/kg or 0.0000283%, Note 1 conc.: 0.000022%)
chromium(III) oxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:54.078 mg/kg or 0.00541%)
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)
copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 0.59 mg/kg or 0.000059%)
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 22 mg/kg, converted to compound conc.:33.22 mg/kg or 0.00332%, Note 1 conc.: 0.0022%)
mercury dichloride: (Cation conc. entered: 0.19 mg/kg, converted to compound conc.:0.257 mg/kg or 0.0000257%)
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)
pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: 0.54 mg/kg or 0.000054%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 77 mg/kg, converted to compound conc.:190.136 mg/kg or 0.019%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Determinand notes


Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS116

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS116	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 7.9% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 7.9%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:23.766 mg/kg or 0.00238%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.15 mg/kg, converted to compound conc.:0.193 mg/kg or 0.0000193%, Note 1 conc.: 0.000015%)

chromium(III) oxide: (Cation conc. entered: 5.2 mg/kg, converted to compound conc.:7.6 mg/kg or 0.00076%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.563 mg/kg or <0.0000563%) **IGNORED Because: "<LOD"**

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.755 mg/kg or <0.0000755%, Note 1 conc.: <0.00005%) **IGNORED Because: "<LOD"**

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:2.527 mg/kg or 0.000253%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 4.1 mg/kg, converted to compound conc.:10.124 mg/kg or 0.00101%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:


- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

Classification of sample: DS116[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS116[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.3 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 15% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH108[1]

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: BH108[1]</p> <p>Sample Depth: 8 m</p> <p>Moisture content: 20% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

HP 12: Release of an acute toxic gas "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

EUH032 "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00023%)

Determinands (Moisture content: 20%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 49 mg/kg, converted to compound conc.:64.696 mg/kg or 0.00647%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 2 mg/kg, converted to compound conc.:26.86 mg/kg or 0.00269%)
- cadmium sulfide: (Cation conc. entered: 0.49 mg/kg, converted to compound conc.:0.63 mg/kg or 0.000063%, Note 1 conc.: 0.000049%)
- chromium(III) oxide: (Cation conc. entered: 59 mg/kg, converted to compound conc.:86.232 mg/kg or 0.00862%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:2.3 mg/kg or 0.00023%)
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 220 mg/kg, converted to compound conc.:332.2 mg/kg or 0.0332%, Note 1 conc.: 0.022%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)
IGNORED Because: "<LOD"

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:45.805 mg/kg or 0.00458%)

pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.75 mg/kg or 0.000075%)

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 830 mg/kg, converted to compound conc.:2049.516 mg/kg or 0.205%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ...", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"

Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"

Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"

Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"

Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

Classification of sample: BH110

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: BH110	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 2.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 9.9% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 9.9%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:48.852 mg/kg or 0.00489%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chromium(III) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:29.231 mg/kg or 0.00292%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 9.7 mg/kg, converted to compound conc.:10.921 mg/kg or 0.00109%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 17 mg/kg, converted to compound conc.:25.67 mg/kg or 0.00257%, Note 1 conc.: 0.0017%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:28.431 mg/kg or 0.00284%)

pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 60 mg/kg, converted to compound conc.:148.158 mg/kg or 0.0148%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS115

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS115	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.05 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 3.3% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 3.3%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: 0.3 mg/kg or 0.00003%)

arsenic trioxide: (Cation conc. entered: 9.5 mg/kg, converted to compound conc.:12.543 mg/kg or 0.00125%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: 0.48 mg/kg or 0.000048%)

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.42 mg/kg or 0.000042%)

benzo[b]fluoranthene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.51 mg/kg, converted to compound conc.:6.849 mg/kg or 0.000685%)

cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**

chromium(III) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:23.385 mg/kg or 0.00234%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: 0.71 mg/kg or 0.000071%)

copper (I) oxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:19.14 mg/kg or 0.00191%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.12 mg/kg or 0.00181%, Note 1 conc.: 0.0012%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:23.692 mg/kg or 0.00237%)

pH: (Whole conc. entered as: 8.5 pH, converted to conc.:8.5 pH or 8.5 pH)

phenanthrene: (Whole conc. entered as: 0.88 mg/kg or 0.000088%)

pyrene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 43 mg/kg, converted to compound conc.:106.18 mg/kg or 0.0106%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS115[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS115[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 14% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS119

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: DS119</p> <p>Sample Depth: 1.8 m</p> <p>Moisture content: 15% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
--	---

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:29.047 mg/kg or 0.0029%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:9.401 mg/kg or 0.00094%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chromium(III) oxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:46.77 mg/kg or 0.00468%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.644 mg/kg or 0.00236%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 15 mg/kg, converted to compound conc.:22.65 mg/kg or 0.00226%, Note 1 conc.: 0.0015%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)

pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 49 mg/kg, converted to compound conc.:120.996 mg/kg or 0.0121%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS117

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS117	LoW Code:
Sample Depth: 1.3 m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: 11% (no correction)	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands (Moisture content: 11%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS117[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS117[1]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.1 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 7.1% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 7.1%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:14.524 mg/kg or 0.00145%)
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)
chromium(III) oxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<7.308 mg/kg or <0.000731%) **IGNORED Because: "<LOD"**
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.464 mg/kg or 0.000146%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 0.78 mg/kg, converted to compound conc.:1.178 mg/kg or 0.000118%, Note 1 conc.: 0.000078%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 1.9 mg/kg, converted to compound conc.:3.001 mg/kg or 0.0003%)
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 5.2 mg/kg, converted to compound conc.:12.84 mg/kg or 0.00128%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS118

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS118	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.8 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 15% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:29.047 mg/kg or 0.0029%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.64 mg/kg, converted to compound conc.:8.595 mg/kg or 0.00086%)

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chromium(III) oxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:48.231 mg/kg or 0.00482%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 14 mg/kg, converted to compound conc.:21.14 mg/kg or 0.00211%, Note 1 conc.: 0.0014%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 51 mg/kg, converted to compound conc.:125.934 mg/kg or 0.0126%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS118[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: DS118[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.2 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 7.9% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 7.9%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH101

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: BH101</p> <p>Sample Depth: 11 m</p> <p>Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

HP 12: Release of an acute toxic gas "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

EUH032 "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00006%)

Determinands (Moisture content: 0%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:6.383 mg/kg or 0.000638%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.145 mg/kg or 0.00201%)
- cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:19.14 mg/kg or 0.00191%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.6 mg/kg or 0.00006%)
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 63 mg/kg, converted to compound conc.:95.13 mg/kg or 0.00951%, Note 1 conc.: 0.0063%)
- mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
- naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Cation conc. entered: 47 mg/kg, converted to compound conc.:74.236 mg/kg or 0.00742%)
- pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: 0.23 mg/kg, converted to compound conc.:0.345 mg/kg or 0.0000345%)
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 220 mg/kg, converted to compound conc.:543.245 mg/kg or 0.0543%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Determinand notes

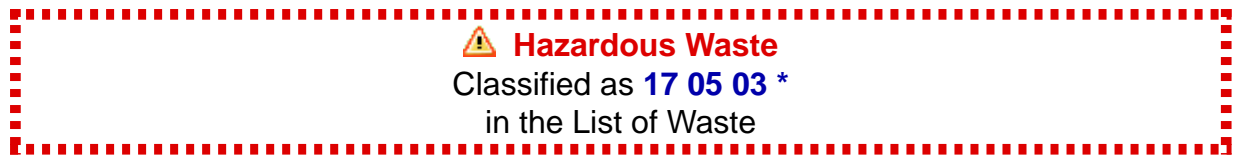
Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"
determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

Classification of sample: BH102



Sample details

Sample Name: BH102	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 11 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: 0% (no correction)		

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

lead compounds (with the exception of those listed separately in this Annex): (Note 1 conc.: 0.1%)

zinc sulphate: (compound conc.: 1.012%)

Hazard properties (substances considered hazardous until shown otherwise)

HP 12: Release of an acute toxic gas "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

EUH032 "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.0016%)

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: 0.32 mg/kg or 0.000032%)

acenaphthylene: (Whole conc. entered as: 0.74 mg/kg or 0.000074%)

anthracene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)

arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 3.8 mg/kg, converted to compound conc.:10.546 mg/kg or 0.00105%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 5.5 mg/kg, converted to compound conc.:73.865 mg/kg or 0.00739%)

cadmium sulfide: (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:2.185 mg/kg or 0.000218%, Note 1 conc.: 0.00017%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: 16 mg/kg, converted to compound conc.:16 mg/kg or 0.0016%)

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)
fluorene: (Whole conc. entered as: 2.1 mg/kg or 0.00021%)
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1000 mg/kg, converted to compound conc.:1510 mg/kg or 0.151%, Note 1 conc.: 0.1%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)
nickel dihydroxide: (Cation conc. entered: 88 mg/kg, converted to compound conc.:138.996 mg/kg or 0.0139%)
pH: (Whole conc. entered as: 8.4 pH, converted to conc.:8.4 pH or 8.4 pH)
phenanthrene: (Whole conc. entered as: 5.2 mg/kg or 0.00052%)
pyrene: (Whole conc. entered as: 2 mg/kg or 0.0002%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 4100 mg/kg, converted to compound conc.:10124.115 mg/kg or 1.012%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14" , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH103

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

<p>Sample Name: BH103</p> <p>Sample Depth: 7.5 m</p> <p>Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

HP 12: Release of an acute toxic gas "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

EUH032 "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00005%)

Determinands (Moisture content: 0%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 79 mg/kg, converted to compound conc.:104.306 mg/kg or 0.0104%)
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:4.441 mg/kg or 0.000444%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:18.802 mg/kg or 0.00188%)
- cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.000141%, Note 1 conc.: 0.000011%)
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.5 mg/kg or 0.00005%)
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 70 mg/kg, converted to compound conc.:105.7 mg/kg or 0.0106%, Note 1 conc.: 0.007%)
- mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
- naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:58.441 mg/kg or 0.00584%)
- pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 200 mg/kg, converted to compound conc.:493.859 mg/kg or 0.0494%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH103[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: BH103[1] Sample Depth: 16 m Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:35.649 mg/kg or 0.00356%)
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:14.773 mg/kg or 0.00148%)
 cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.00248%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 26 mg/kg, converted to compound conc.:39.26 mg/kg or 0.00393%, Note 1 conc.: 0.0026%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.487 mg/kg or 0.00395%)
 pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
 zinc sulphate: (Cation conc. entered: 39 mg/kg, converted to compound conc.:96.303 mg/kg or 0.00963%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH105

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH105	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4 m	
Moisture content: 0% (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 0%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH105[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH105[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11 m	
Moisture content: 0% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 85 mg/kg, converted to compound conc.:112.228 mg/kg or 0.0112%)
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
beryllium oxide: (Cation conc. entered: 1.9 mg/kg, converted to compound conc.:5.273 mg/kg or 0.000527%)
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:12.087 mg/kg or 0.00121%)
cadmium sulfide: (Cation conc. entered: 0.22 mg/kg, converted to compound conc.:0.283 mg/kg or 0.0000283%, Note 1 conc.: 0.000022%)
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 36 mg/kg, converted to compound conc.:54.36 mg/kg or 0.00544%, Note 1 conc.: 0.0036%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)
IGNORED Because: "<LOD"
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 48 mg/kg, converted to compound conc.:75.816 mg/kg or 0.00758%)
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 140 mg/kg, converted to compound conc.:345.701 mg/kg or 0.0346%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH105[2]

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name: BH105[2]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 19 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: 0% (no correction)		

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

zinc sulphate: (compound conc.: 0.519%)

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 230 mg/kg, converted to compound conc.:303.675 mg/kg or 0.0304%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 2.5 mg/kg, converted to compound conc.:6.938 mg/kg or 0.000694%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:24.174 mg/kg or 0.00242%)

cadmium sulfide: (Cation conc. entered: 0.54 mg/kg, converted to compound conc.:0.694 mg/kg or 0.0000694%, Note 1 conc.: 0.000054%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 8.9 mg/kg, converted to compound conc.:10.02 mg/kg or 0.001%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 47 mg/kg, converted to compound conc.:70.97 mg/kg or 0.0071%, Note 1 conc.: 0.0047%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 150 mg/kg, converted to compound conc.:236.925 mg/kg or 0.0237%)

pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 2100 mg/kg, converted to compound conc.:5185.522 mg/kg or 0.519%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ...", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1, used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A, used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH106

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: BH106</p> <p>Sample Depth: 4.5 m</p> <p>Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:35.649 mg/kg or 0.00356%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.91 mg/kg, converted to compound conc.:12.221 mg/kg or 0.00122%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 16 mg/kg, converted to compound conc.:24.16 mg/kg or 0.00242%, Note 1 conc.: 0.0016%)

mercury dichloride: (Cation conc. entered: 0.14 mg/kg, converted to compound conc.:0.189 mg/kg or 0.0000189%)

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 75 mg/kg, converted to compound conc.:185.197 mg/kg or 0.0185%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH106[1]

 **Hazardous Waste**
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name: BH106[1]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 11 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: 0% (no correction)		

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

lead compounds (with the exception of those listed separately in this Annex): (Note 1 conc.: 0.14%)

zinc sulphate: (compound conc.: 1.21%)

Hazard properties (substances considered hazardous until shown otherwise)

HP 12: Release of an acute toxic gas "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

EUH032 "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00074%)

Determinands (Moisture content: 0%, no correction)

- acenaphthene: (Whole conc. entered as: 0.45 mg/kg or 0.000045%)
- acenaphthylene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)
- anthracene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)
- arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)
- benzo[a]anthracene: (Whole conc. entered as: 0.38 mg/kg or 0.000038%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Cation conc. entered: 4.3 mg/kg, converted to compound conc.:11.934 mg/kg or 0.00119%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:75.208 mg/kg or 0.00752%)
- cadmium sulfide: (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:2.956 mg/kg or 0.000296%, Note 1 conc.: 0.00023%)
- chrysene: (Whole conc. entered as: 0.15 mg/kg or 0.000015%)
- copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 7.4 mg/kg, converted to compound conc.:7.4 mg/kg or 0.00074%)

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: 3.1 mg/kg or 0.00031%)
fluorene: (Whole conc. entered as: 3 mg/kg or 0.0003%)
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1400 mg/kg, converted to compound conc.:2114 mg/kg or 0.211%, Note 1 conc.: 0.14%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: 1.7 mg/kg or 0.00017%)
nickel dihydroxide: (Cation conc. entered: 83 mg/kg, converted to compound conc.:131.098 mg/kg or 0.0131%)
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)
phenanthrene: (Whole conc. entered as: 9.3 mg/kg or 0.00093%)
pyrene: (Whole conc. entered as: 3.2 mg/kg or 0.00032%)
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 4900 mg/kg, converted to compound conc.:12099.552 mg/kg or 1.21%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14" , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH107

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH107	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
4.2 m	
Moisture content: 0% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:34.328 mg/kg or 0.00343%)
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
beryllium oxide: (Cation conc. entered: 1 mg/kg, converted to compound conc.:2.775 mg/kg or 0.000278%)
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:17.459 mg/kg or 0.00175%)
cadmium sulfide: (Cation conc. entered: 0.16 mg/kg, converted to compound conc.:0.206 mg/kg or 0.0000206%, Note 1 conc.: 0.000016%)
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:20.266 mg/kg or 0.00203%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 68 mg/kg, converted to compound conc.:102.68 mg/kg or 0.0103%, Note 1 conc.: 0.0068%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 220 mg/kg, converted to compound conc.:543.245 mg/kg or 0.0543%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH107[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH107[1]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
12.5 m	Entry:
Moisture content: 0% (no correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:27.727 mg/kg or 0.00277%)
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
beryllium oxide: (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:3.33 mg/kg or 0.000333%)
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.145 mg/kg or 0.00201%)
cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:20.266 mg/kg or 0.00203%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 24 mg/kg, converted to compound conc.:36.24 mg/kg or 0.00362%, Note 1 conc.: 0.0024%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:41.067 mg/kg or 0.00411%)
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 77 mg/kg, converted to compound conc.:190.136 mg/kg or 0.019%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes


Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH109

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH109	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.5 m	
Moisture content: 0% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
arsenic trioxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:52.813 mg/kg or 0.00528%)
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1 mg/kg, converted to compound conc.:13.43 mg/kg or 0.00134%)
cadmium sulfide: (Cation conc. entered: 0.57 mg/kg, converted to compound conc.:0.733 mg/kg or 0.0000733%, Note 1 conc.: 0.000057%)
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
copper (I) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.644 mg/kg or 0.00236%)
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 24 mg/kg, converted to compound conc.:36.24 mg/kg or 0.00362%, Note 1 conc.: 0.0024%)
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
nickel dihydroxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:56.862 mg/kg or 0.00569%)
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
zinc sulphate: (Cation conc. entered: 92 mg/kg, converted to compound conc.:227.175 mg/kg or 0.0227%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH109[1]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: BH109[1]	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 6.5 m	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 0% (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH109[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: BH109[2]</p> <p>Sample Depth: 14 m</p> <p>Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:33.008 mg/kg or 0.0033%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: <1 mg/kg, converted to compound conc.:<2.775 mg/kg or <0.000278%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:22.831 mg/kg or 0.00228%)

cadmium sulfide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.129 mg/kg or 0.0000129%, Note 1 conc.: 0.00001%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:15.762 mg/kg or 0.00158%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 49 mg/kg, converted to compound conc.:73.99 mg/kg or 0.0074%, Note 1 conc.: 0.0049%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:31.59 mg/kg or 0.00316%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 180 mg/kg, converted to compound conc.:444.473 mg/kg or 0.0444%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH104

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

<p>Sample Name: BH104</p> <p>Sample Depth: 4.1 m</p> <p>Moisture content: 0% (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:33.008 mg/kg or 0.0033%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.98 mg/kg, converted to compound conc.:13.161 mg/kg or 0.00132%)

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: 0.41 mg/kg or 0.000041%)

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 27 mg/kg, converted to compound conc.:40.77 mg/kg or 0.00408%, Note 1 conc.: 0.0027%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: 0.31 mg/kg or 0.000031%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 92 mg/kg, converted to compound conc.:227.175 mg/kg or 0.0227%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 7 on Carc. 1B; H350, Carc. 1A; H350, Carc. 1B; H350i, Carc. 1A; H350i" for determinand: "cadmium sulfide"
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 1A; H360, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1B; H360Fd, Repr. 1B; H360Df, Repr. 1A; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Determinand notes

Note 1 , used on:

determinand: "cadmium sulfide"
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH104[1]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name: BH104[1]	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 10.5 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 0% (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 arsenic trioxide: (Cation conc. entered: 50 mg/kg, converted to compound conc.:66.016 mg/kg or 0.0066%)
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 beryllium oxide: (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:3.885 mg/kg or 0.000389%)
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:17.459 mg/kg or 0.00175%)
 cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 36 mg/kg, converted to compound conc.:54.36 mg/kg or 0.00544%, Note 1 conc.: 0.0036%)
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 nickel dihydroxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:44.226 mg/kg or 0.00442%)
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**
 zinc sulphate: (Cation conc. entered: 73 mg/kg, converted to compound conc.:180.259 mg/kg or 0.018%)

Notes utilised in assessment

C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

Determinand notes

Note 1 , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Appendix A: Classifier defined and non CLP determinands

acenaphthene (CAS Number: 83-32-9)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=133563&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R36, R37, R38, N; R50/53, N; R51/53

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

acenaphthylene (CAS Number: 208-96-8)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=59285&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R22, R26, R27, R36, R37, R38

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

anthracene (CAS Number: 120-12-7)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=101102&HarmOnly=no>

Data source date: 08/03/2013

Risk Phrases: R36, R37, R38, R43, N; R50/53

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

benzo[ghi]perylene (CAS Number: 191-24-2)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=15793&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: N; R50/53

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

boron tribromide/trichloride/trifluoride (combined)

Conversion factor: 13.43

Comments: Combines the risk phrases and the average of the conversion factors for Boron tribromide, Boron trichloride and Boron trifluoride

Data source: N/A

Data source date: 10/01/2011

Risk Phrases: R14, T+; R26/28, C; R34, C; R35

Hazard Statements: EUH014, Acute Tox. 2; H330, Acute Tox. 2; H300, Skin Corr. 1A; H314, Skin Corr. 1B; H314

fluoranthene (CAS Number: 206-44-0)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=56375&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R20, R22, R36, N; R50/53

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 4; H332, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

fluorene (CAS Number: 86-73-7)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=81845&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: N; R50/53, R53

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 4; H413

indeno[123-cd]pyrene (CAS Number: 193-39-5)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory
Data source:
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=128806&HarmOnly=no>
Data source date: 08/03/2013
Risk Phrases: R40
Hazard Statements: Carc. 2; H351

lead compounds (with the exception of those listed separately in this Annex)

CLP index number: 082-001-00-6
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statements: Carc. 2; H351
Reason:
03/06/2015 - Carc. 2; H351 hazard statement sourced from: Larsen et al., 2014; Survey of lead and lead compounds, Environmental Project No. 1539, The Danish Environmental Protection Agency

pH

Comments: Appendix C, C4.5
Data source: WM2 - Interpretation of the definition and classification of hazardous waste (Second Edition, version2.2), Environment Agency
Data source date: 30/05/2008
Risk Phrases: None.
Hazard Statements: None.

phenanthrene (CAS Number: 85-01-8)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory
Data source:
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=109754&HarmOnly=no>
Data source date: 16/07/2012
Risk Phrases: R22, R36, R37, R38, R40, R43, N; R50/53
Hazard Statements: Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Carc. 2; H351, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Skin Irrit. 2; H315

pyrene (CAS Number: 129-00-0)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory
Data source:
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=87484&HarmOnly=no>
Data source date: 16/07/2012
Risk Phrases: R23, N; R50/53
Hazard Statements: Acute Tox. 3; H331, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group

Comments: Risk phrase data given on page A41
Data source: WM2 3rd edition, 2013
Data source date: 01/08/2013
Risk Phrases: R10, R45, R46, R51/53, R63, R65
Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, STOT RE 2; H373, Muta. 1B; H340, Carc. 1B; H350, Repr. 2; H361d, Aquatic Chronic 2; H411

chromium(III) oxide (CAS Number: 1308-38-9)

Conversion factor: 1.462
Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory
Data source:
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=33806&HarmOnly=no?fc=true&lang=en>
Data source date: 26/11/2012
Risk Phrases: R20, R22, R36, R37, R38, R42, R43, R50/53, R60, R61
Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

ethylbenzene (CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Risk Phrases: None.

Additional Hazard Statements: Carc. 2; H351

Reason:

03/06/2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

Appendix B: Notes

C14: Step 5

from section: WM3: C14 in the document: "[WM3 - Waste Classification](#)"

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..."

C14: Step 6, Equation 1

from section: WM3: C14 in the document: "[WM3 - Waste Classification](#)"

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14"

Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note A

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

WM3: Unknown oil

from section: Chapter 3: 4. Waste oils and other wastes containing or contaminated with oil in the document: "[WM3 - Waste Classification](#)"

"If the identity of the oil is unknown, and the petroleum group cannot be established, then the oil contaminating the waste can be classified as non-carcinogenic due to the presence of oil if all three of the following criteria are met:

- the waste contains **benzo[a]pyrene (BaP)** at a concentration of less than 0.01% (1/10,000th) of the TPH concentration (This is the carcinogenic limit specified in table 3.2 of the CLP for BaP)
- this has been determined by an appropriate and representative sampling approach in accordance with the principles set out in Appendix D, and
- the analysis clearly demonstrates, for example by carbon bands or chromatograph, and the laboratory has reasonably concluded that the hydrocarbons present have not arisen from petrol or diesel

"

Appendix C: Version

Classification utilises the following:

- CLP Regulations - Regulation 1272/2008/EC of 16 December 2008
- 1st ATP - Regulation 790/2009/EC of 10 August 2009
- 2nd ATP - Regulation 286/2011/EC of 10 March 2011
- 3rd ATP - Regulation 618/2012/EU of 10 July 2012
- 4th ATP - Regulation 487/2013/EU of 8 May 2013
- Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
- 5th ATP - Regulation 944/2013/EU of 2 October 2013
- 6th ATP - Regulation 605/2014/EU of 5 June 2014
- WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
- Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
- WM3 - Waste Classification - May 2015
- 7th ATP - Regulation 2015/1221/EU of 24 July 2015
- POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
- 1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
- 2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

HazWasteOnline Engine: WM3 1st Edition, May 2015

HazWasteOnline Engine Version: 2015.265.2962.5957 (22 Sep 2015)

HazWasteOnline Database: 2015.265.2962.5957 (22 Sep 2015)