



RBH112

Quay West at MediaCity UK
 Trafford Wharf Road
 Salford Quays
 Manchester M17 1HH
 Tel: 0161 872 3223
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 E-mail enviro.manchester@wyg.com
 Environmental Consultancy
 Ground Technologies & Investigation



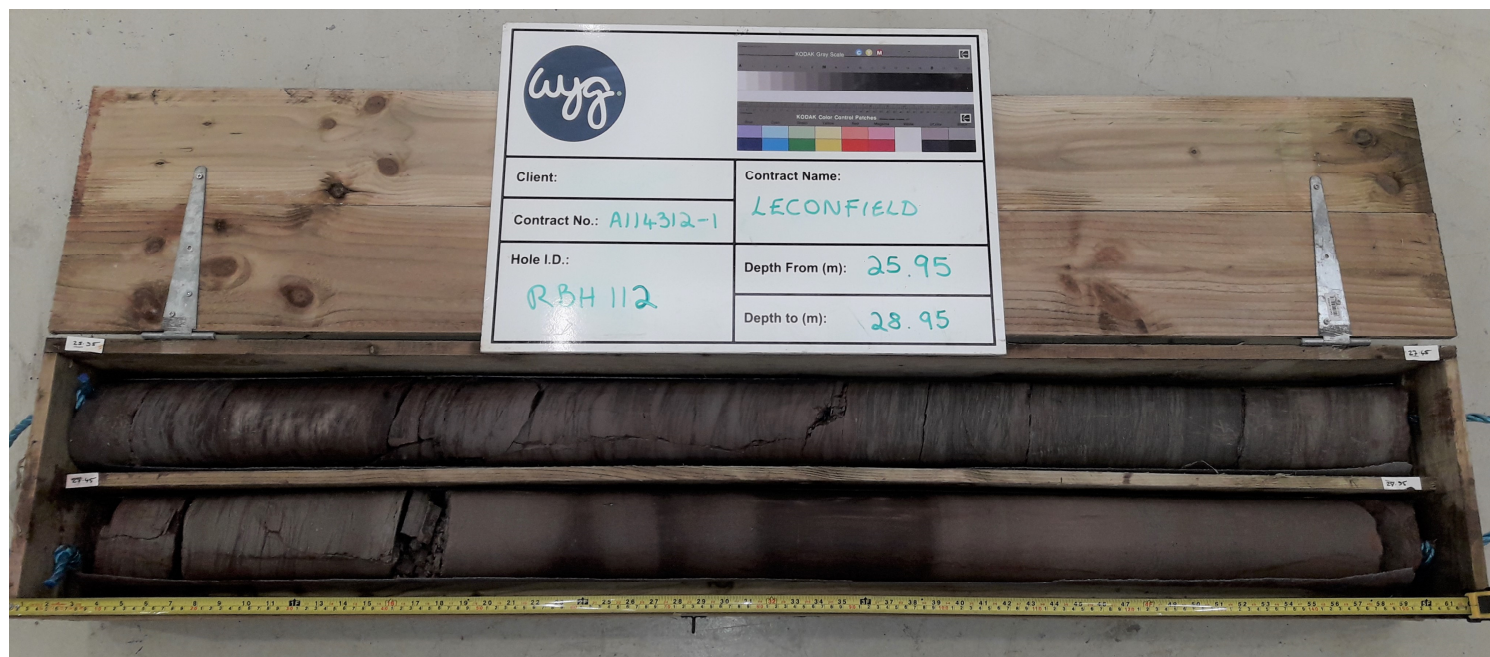
Project : Project : Leconfield Industrial Estate, Cleator Moor

Client: Client: Copeland Borough Council & Energy Coast West
 (Properties) Ltd

Rotary Core Photo Plates – Phase 2

Project No.: Project No.: A114312-1

Date: September 2020



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SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD
AINLEYS INDUSTRIAL ESTATE
ELLAND
WEST YORKSHIRE
HX5 9JP

SPT Hammer Ref: DART190
Test Date: 10/02/2020
Report Date: 10/02/2020
File Name: DART190.spt
Test Operator: JL

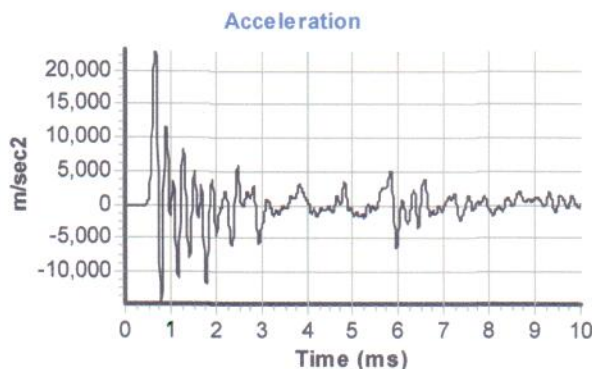
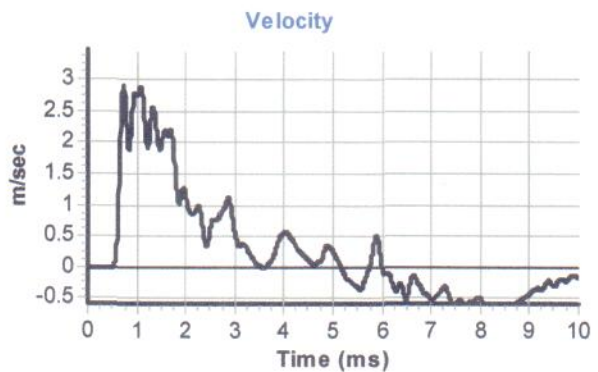
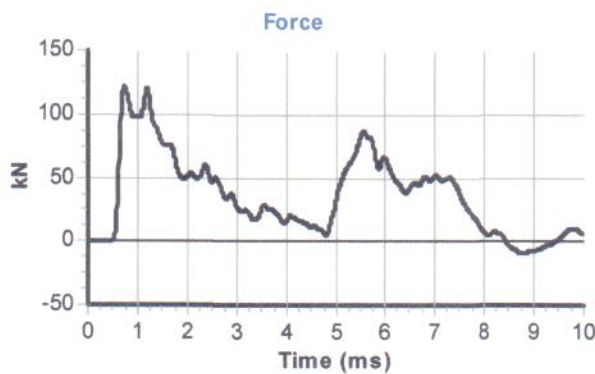
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.5
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 7080
Accelerometer No.2: 11609

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 10.0

Comments / Location



Calculations

Area of Rod A (mm²): 970
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 329

Energy Ratio E_r (%): **70**

Signed: J.LOCK
Title: FITTER

The recommended calibration interval is 12 months

WYG ENVIRONMENT												
STANDARD PENETRATION TEST SUMMARY - PHASE 2												
Project Number:		A114312-1			Project Title:		Leconfield Industrial Estate, Cleator Moor					
Client:		Copeland Borough Council & Energy Coast West Cumbria (Properties) Ltd			Date:		06/10/2020					
Hole ID	Hole Type	SPT Depth	Seating Blows	Main Drive Blows	SPT Type	Uncorrected SPT "N" Value	Energy Ratio	Corrected SPT "N" Value	Rod Correction SPT Value	Geology Code	Stratum Top	Stratum Bottom
		m bgl	No	No			%	N60			m bgl	m bgl
CP101	CP	7.50	6	19	S	19	88	28		102	0.00	8.80
CP101	CP	9.00	11	27	S	27	88	40		207	9.00	11.80
CP101	CP	12.00	15	40	S	40	88	59		801	11.80	14.07
CP101	CP	13.50	43	32	S	-	88	>50		801	11.80	14.07
CP101	CP	14.00	75	0	C	-	88	>50		801	11.80	14.07
CP102	CP	6.00	9	28	C	28	88	41		102	5.78	6.80
CP102	CP	9.00	1	2	S	2	88	3		203	9.00	10.40
CP102	CP	10.50	75	0	C	-	88	>50		410	10.40	11.30
CP102	CP	12.00	16	50	S	-	88	>50		801	11.90	15.14
CP102	CP	13.50	25	50	S	-	88	>50		801	11.90	15.14
CP102	CP	15.00	75	0	S	-	88	>50		801	11.90	15.14
CP103	CP	7.50	5	11	C	11	88	16		102	7.30	9.10
CP103	CP	9.00	16	47	C	47	88	69		220	9.10	10.50
CP103	CP	10.50	25	50	S	-	88	>50		802	10.50	10.75
CP103	CP	10.70	75	0	C	-	88	>50		802	10.50	10.75
CP104	CP	9.00	9	21	S	21	88	31		801	9.20	9.90
CP104	CP	10.50	15	50	S	-	88	>50		801	9.90	15.14
CP104	CP	13.50	25	50	S	-	88	>50		801	9.90	15.14
CP104	CP	15.00	75	0	S	-	88	>50		801	9.90	15.14
CP105	CP	2.00	3	17	S	17	88	25		220	2.00	7.10
CP105	CP	4.00	8	47	S	47	88	69		220	2.00	7.10
CP105	CP	6.00	10	43	S	43	88	63		220	2.00	7.10
CP105	CP	7.50	75	0	S	-	88	>50		504	7.30	8.50
CP105	CP	8.50	75	0	S	-	88	>50		509	8.50	8.64
CP105	CP	8.60	75	0	S	-	88	>50		509	8.50	8.64
CP106	CP	3.00	4	18	S	18	88	26		220	2.80	7.50
CP106	CP	5.00	12	31	S	31	88	46		220	2.80	7.50
CP106	CP	7.50	25	50	S	-	88	>50		404	7.50	10.10
CP106	CP	9.00	25	50	S	-	88	>50		404	7.50	10.10

WYG ENVIRONMENT												
STANDARD PENETRATION TEST SUMMARY - PHASE 1												
Project Number:		A114312-1			Project Title:		Leconfield Industrial Estate, Cleator Moor					
Client:		Copeland Borough Council & Energy Coast West Cumbria (Properties) Ltd			Date:		24/07/2020					
Hole ID	Hole Type	SPT Depth	Seating Blows	Main Drive Blows	SPT Type	Uncorrected SPT "N" Value	Energy Ratio	Corrected SPT "N" Value	Rod Correction SPT Value	Geology Code	Stratum Top	Stratum Bottom
		m bgl	No	No			%	N60			m bgl	m bgl
WS102	WS	1.20	25	24	S	24	70	28		102	0.20	2.50
WS102	WS	2.00	9	50	S	50	70	58		102	0.20	2.50
WS103	WS	1.20	1	3	S	3	70	4		102	0.30	3.80
WS103	WS	2.00	8	27	S	27	70	32		102	0.30	3.80
WS103	WS	3.00	15	20	S	20	70	23		102	0.30	3.80
WS103	WS	4.00	24	50	S		70	0		102	3.80	4.13
WS104	WS	1.20	20	42	S	42	70	49		801	1.60	3.00
WS104	WS	1.70	25	50	S	50	70	58		801	1.60	3.00
WS105	WS	1.20	18	73	S	73	70	85		102	0.20	3.00
WS105	WS	2.00	4	18	S	18	70	21		102	0.20	3.00
WS105	WS	3.00	0	0	S	0	70	0		102	0.20	3.00
WS105	WS	4.00	7	53	S	53	70	62		102	3.00	3.50
WS108	WS	1.20	8	17	S	17	70	20		102	1.20	2.00
WS108	WS	2.00	3	12	S	12	70	14		220	2.00	3.45
WS108	WS	3.00	15	50	S	50	70	58		220	2.00	3.45
WS109	WS	1.20	13	26	S	26	70	30		220	0.30	4.45
WS109	WS	2.00	10	26	S	26	70	30		220	0.30	4.45
WS109	WS	3.00	13	24	S	24	70	28		220	0.30	4.45

SPT Value to be utilised is in red.