



LEGEND

— Site Boundary

Rev.	Date	Amendment	Drawn	Chkd.	Appd.



18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT
United Kingdom

Tel: +44 (0) 1442 437500
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Email: info@rsk.co.uk
Web: www.rsk.co.uk

Client
ROYAL MAIL GROUP LIMITED

Project Title
**ROYAL MAIL MOUNT PLEASANT
SORTING OFFICE
- PHOENIX PLACE SITE**

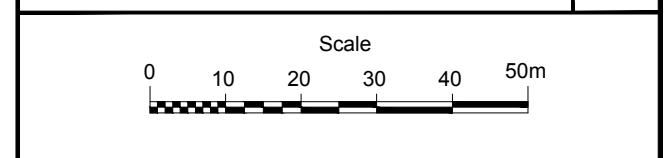
Drawing Title
**PROPOSED
DEVELOPMENT
LAYOUT PLAN**

Drawn	Date	Checked	Date	Approved	Date
ASC	21.03.17	ST	21.03.17	ST	21.03.17

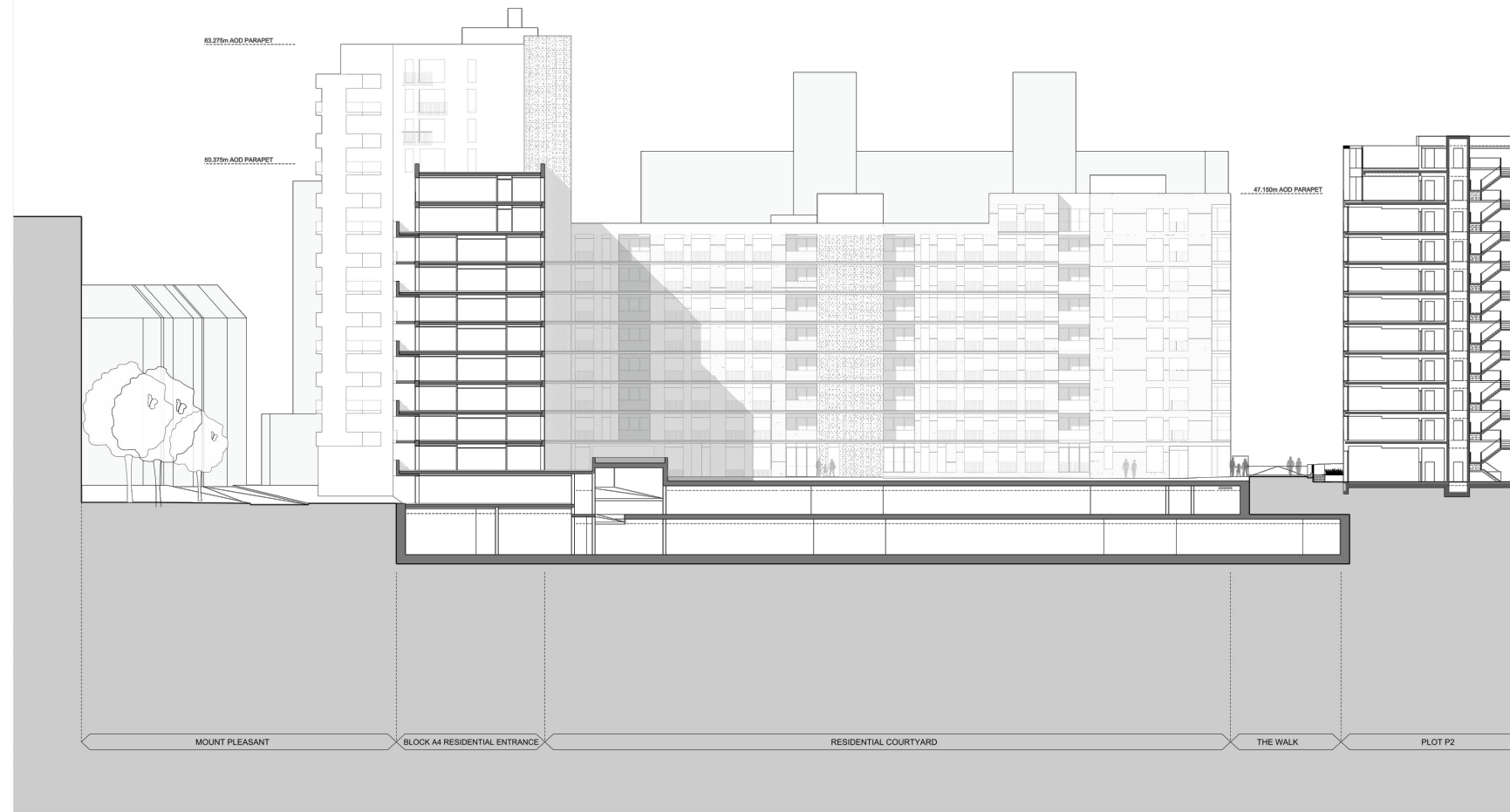
Scale	Orig Size	Dimensions
1:1000	A3	m

Project No.	Drawing File
28549 - R02 (00)	28549 (R02-00) Fig 3.dwg

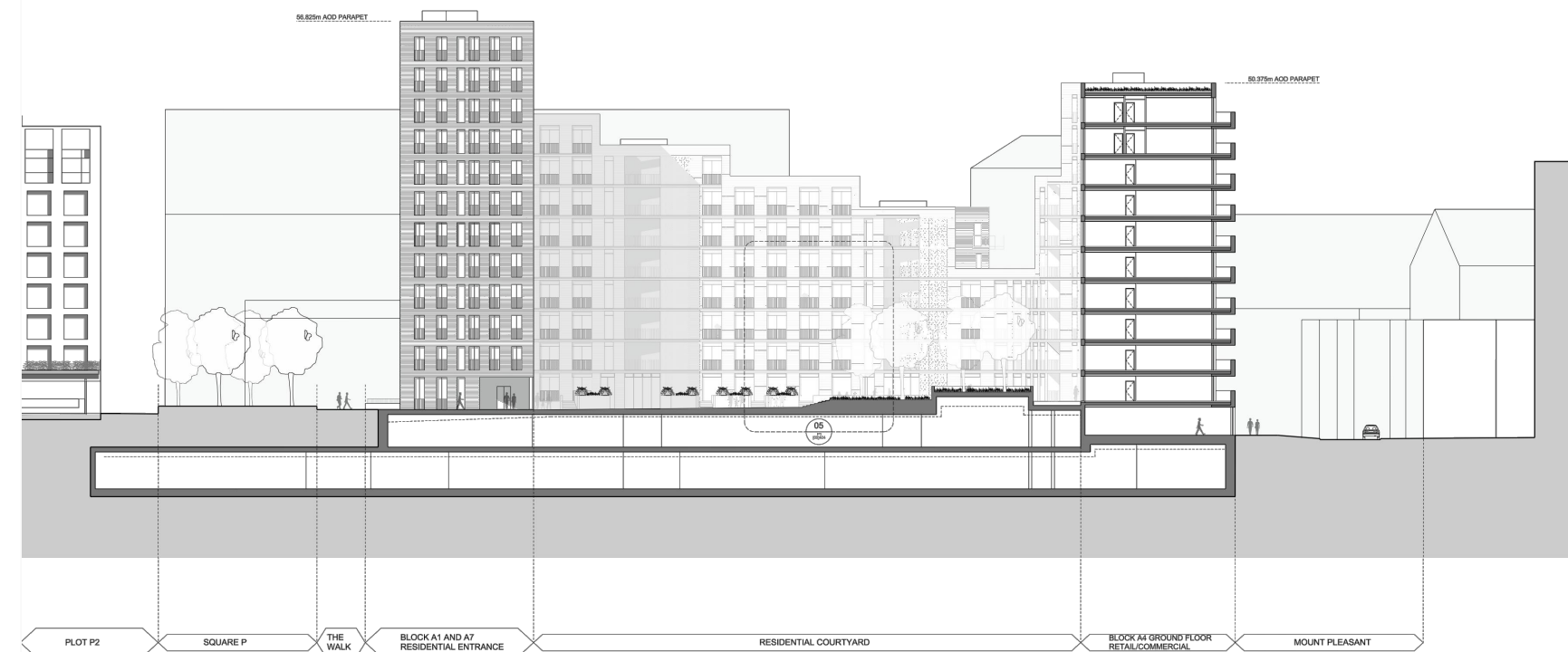
Drawing No.	Rev.
FIGURE 3	P1



Block A Proposed Sections Courtyard (West)



Block A Proposed Sections Courtyard (East)



LEGEND

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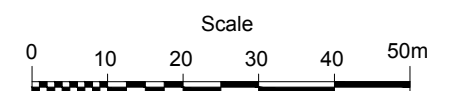
Drawing Title
**PROPOSED
DEVELOPMENT
ELEVATION PLAN**

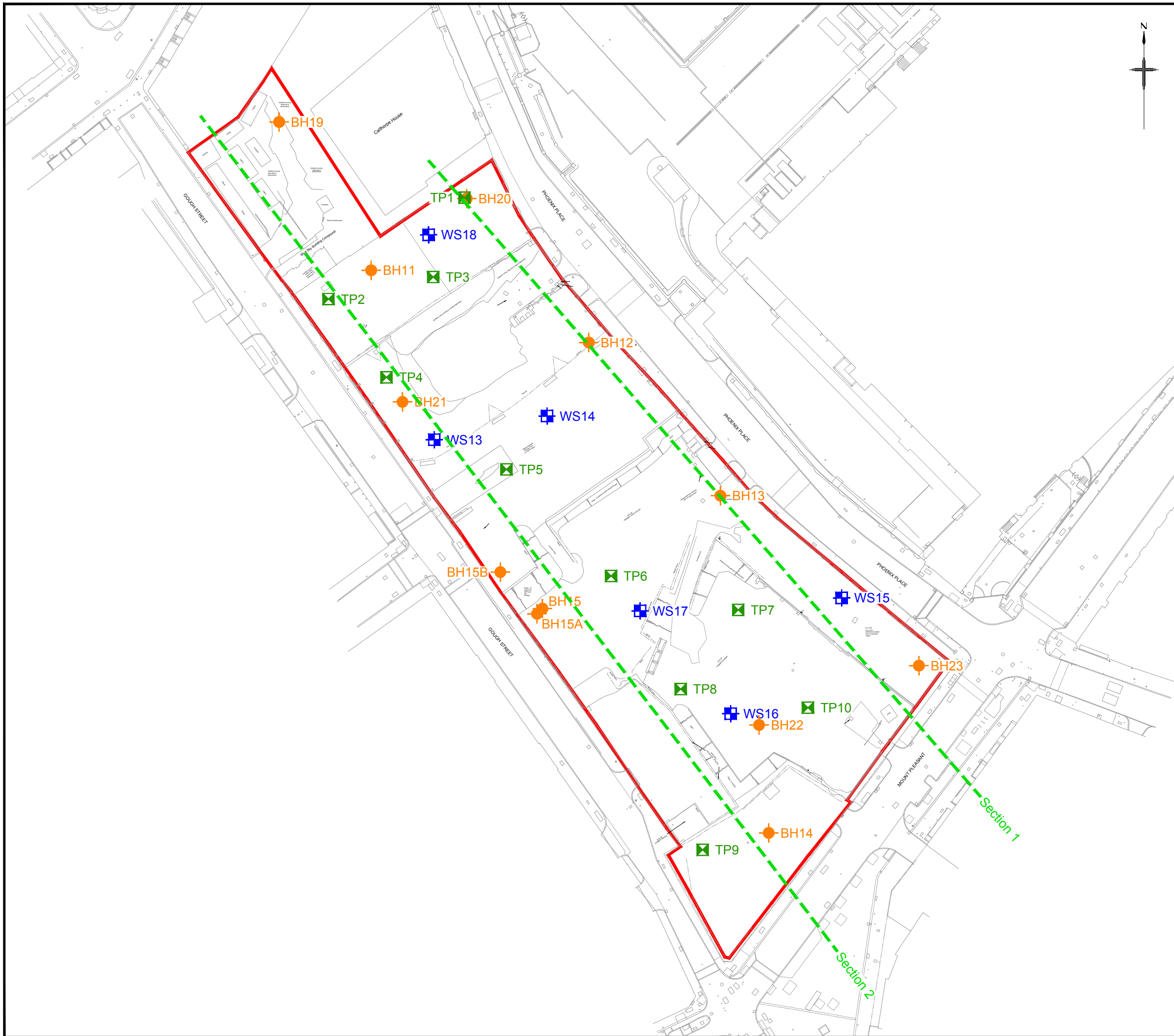
Drawn	Date	Checked	Date	Approved	Date
ASC	21.03.17	ST	21.03.17	ST	21.03.17

Scale	Orig Size	Dimensions
1:1000	A3	m

Project No.	Drawing File
28549 - R02 (00)	28549 (R02-00) Fig 4.dwg

Drawing No.	Rev.
FIGURE 4	P1





LEGEND

- Site Boundary
- - - Section Line
- Cable Percussive Borehole Location
- Window Sample Borehole Location
- Machine Excavated Trial Pit Location

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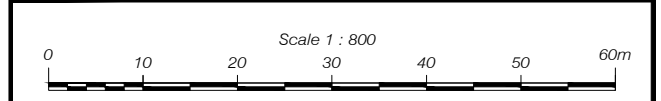
Drawing Title
**EXPLORATORY HOLE
LOCATION PLAN**

Drawn	Date	Checked	Date	Approved	Date
ASC	22.03.17	ST	22.03.17	ST	22.03.17

Scale	Orig Size	Dimensions
1:800	A3	m

Project No.	Drawing File
28549 - R02 (00)	28549 (R02-00) Fig 5.dwg

Drawing No.	Rev.
FIGURE 5	P1





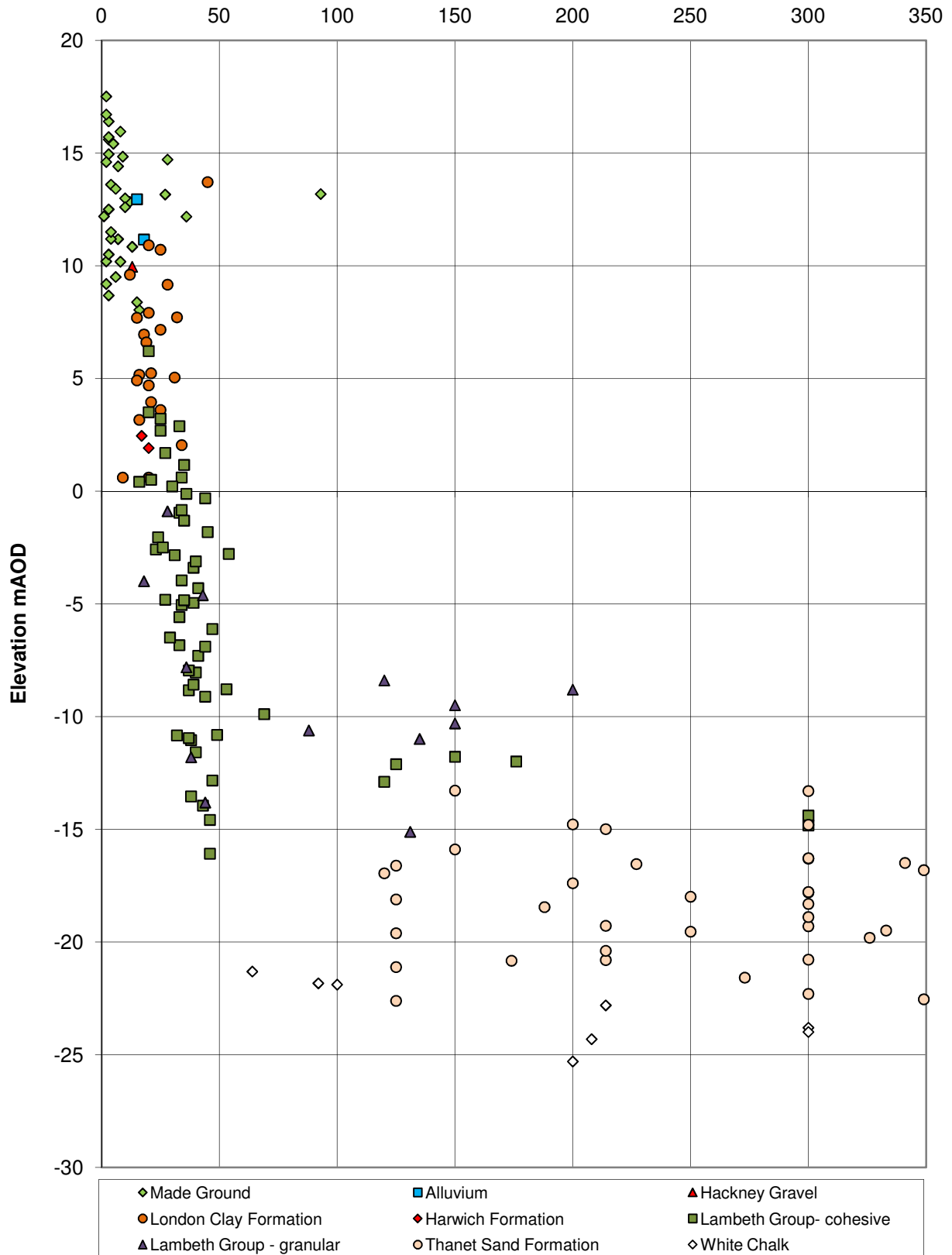
SPT 'N' VALUES vs ELEVATION PHOENIX PLACE

Site:
Royal Mail Mount Pleasant Sorting Office

Client:
Royal Mail Group Limited

Job Number:	28549
Figure:	6

SPT 'N' Value (for 300mm penetration)





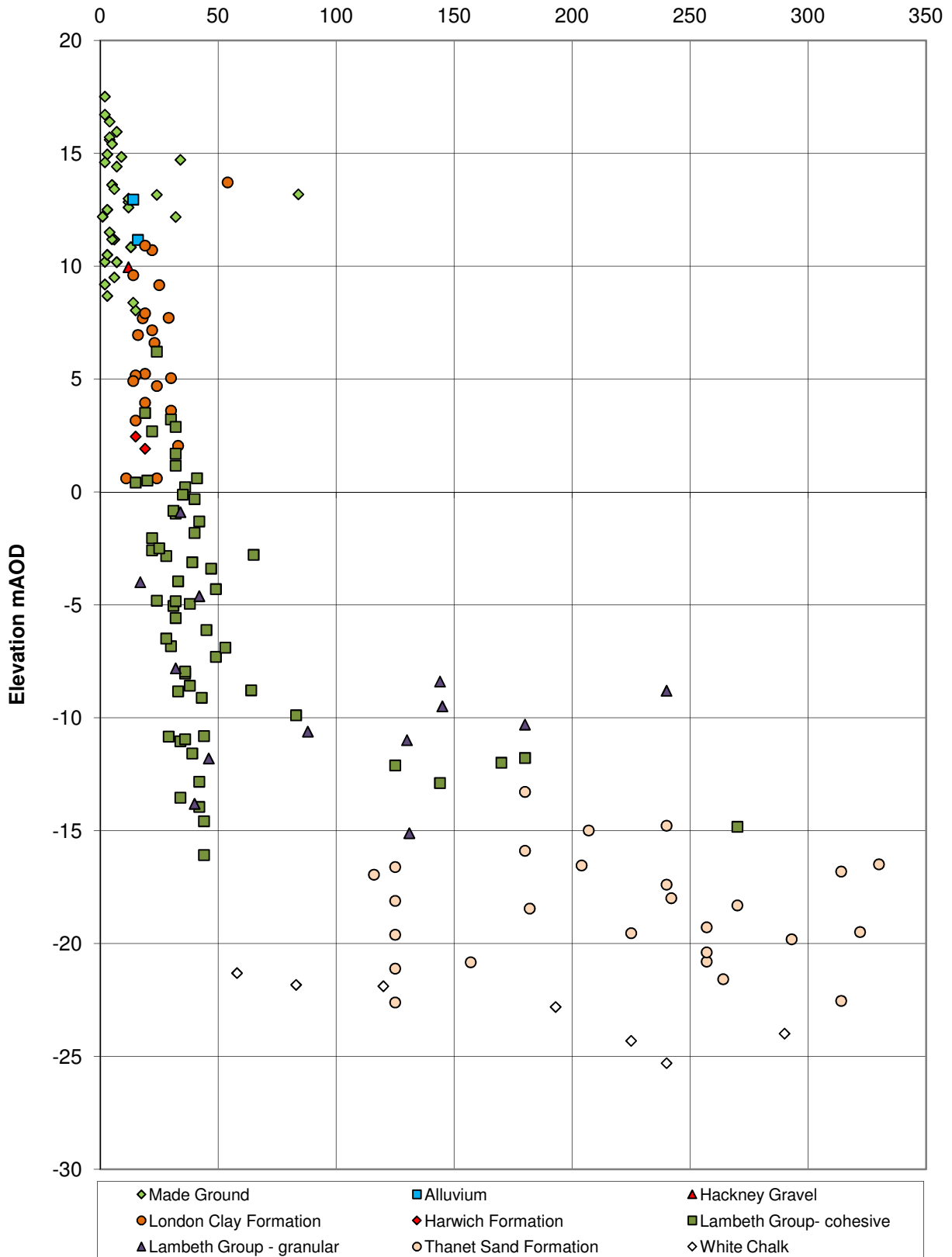
SPT 'N₆₀' VALUES vs ELEVATION
PHOENIX PLACE

Site:
Royal Mail Mount Pleasant Sorting Office

Client:
Royal Mail Group Limited

Job Number: 28549
Figure: 7

SPT 'N' Value (for 300mm penetration)



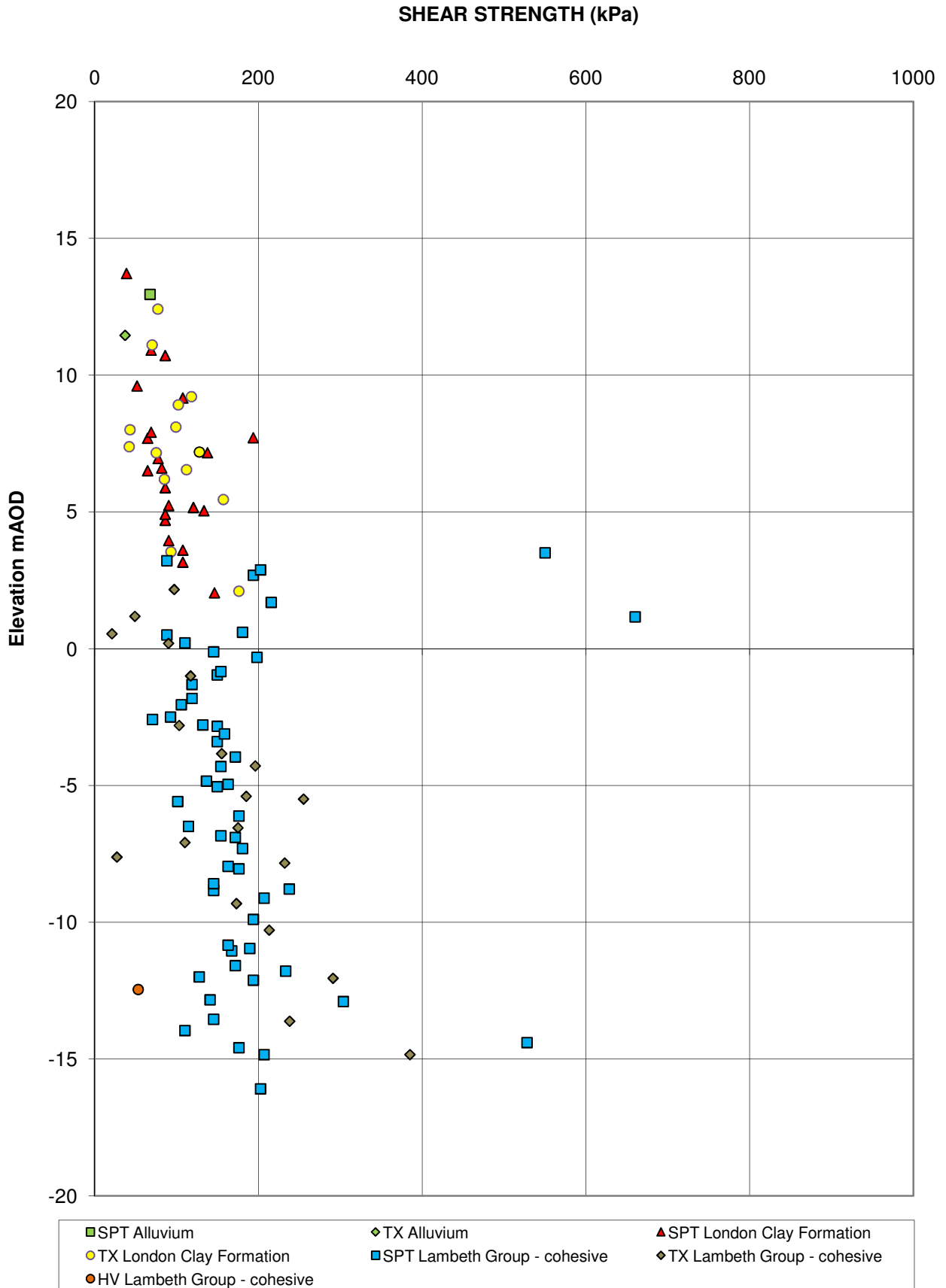


SHEAR STRENGTH vs ELEVATION PHOENIX PLACE

Site:
Royal Mail Mount Pleasant Sorting Office

Client:
Royal Mail Group Limited

Job Number: 28549
Figure: 8



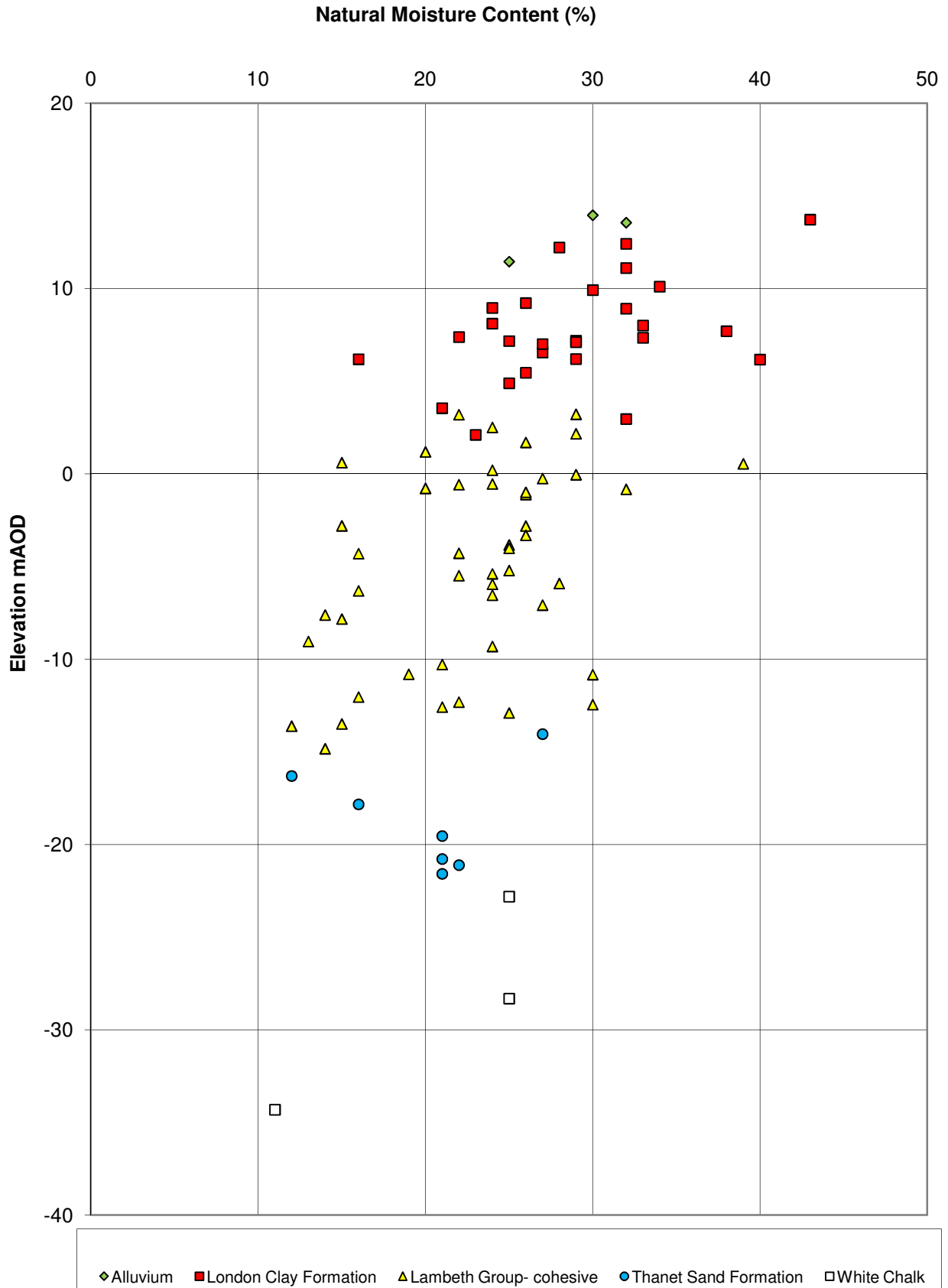


MOISTURE CONTENT vs ELEVATION PHOENIX PLACE

Site:
Royal Mail Mount Pleasant Sorting Office

Client:
Royal Mail Group Limited

Job Number: 28549
Figure: 9



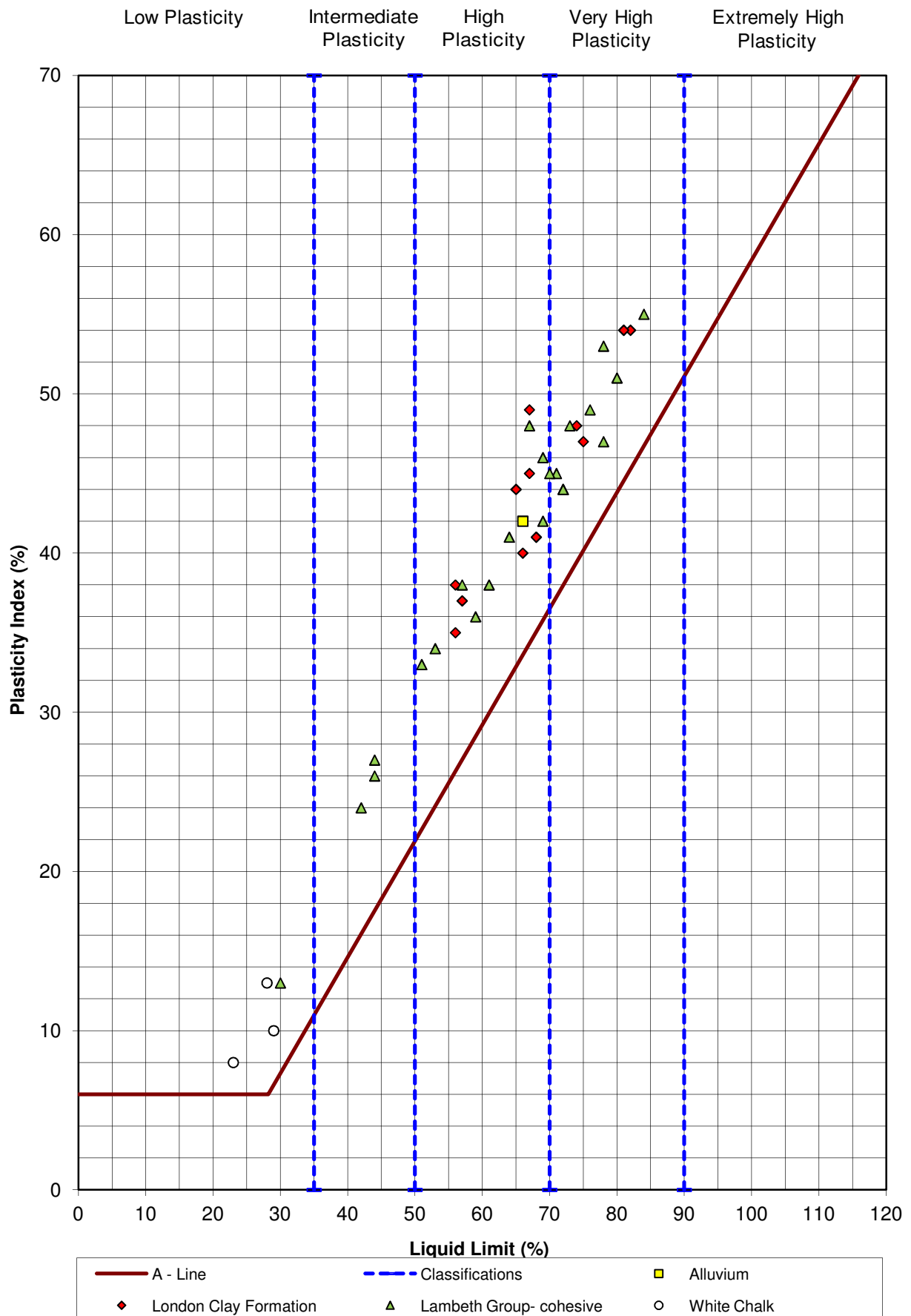


PLASTICITY CLASSIFICATION CHART PHOENIX PLACE

Site:
Royal Mail Mount Pleasant Sorting Office

Client:
Royal Mail Group Limited

Job Number:	28549
Figure:	10





APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Royal Mail Group Limited (the "client") in accordance with the terms of a contract between RSK and the "client", dated 8th November 2016. The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed in writing the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information.] and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (boreholes, trial pits etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.



APPENDIX B

EXPLORATORY HOLE RECORDS



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH11
Contract Ref: 28549	Start: 11.11.16 End: 17.11.16	Ground Level: 17.46	National Grid Co-ordinate: E:530926.3 N:182297.5	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-1.20	1	B				MADE GROUND: Asphalt.	17.26	0.20	
0.50	1	ES PID	J+V+T 0.0ppm			MADE GROUND: Reddish grey and brown SAND and GRAVEL. Sand is fine to coarse. Gravel is subangular fine to coarse of concrete and brick.		(1.60)	
1.00	2	ES PID	J+V+T 0.1ppm						
1.20	2	D							
1.50-1.95	1	SPT(c)	1,1/2,2,2,2 N=8				15.66	1.80	
1.50-2.00	3	B PID	0.1ppm			MADE GROUND: Dark brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse flint, brick and concrete. Cobbles are subangular up to 150mm in diameter concrete. With occasional ash and clinker.		(1.70)	
1.50	3	ES	J+V+T						
2.00	4	ES PID	J+V+T 0.0ppm						
2.20	4	D							
2.50-2.95	2	SPT(c)	1/,1,1,1 N=3				13.96	3.50	
2.50-3.00	5	B PID	0.0ppm			Firm to stiff light orangish brown slightly sandy silty CLAY. Sand is fine. (ALLUVIUM)		(4.00)	
2.50	5	ES	J+V+T						
3.00	6	ES PID	J+V+T 0.0ppm						
3.20	6	D							
3.50	7	D							
3.50-3.95	8	U	100 blows 30% recovery						
3.50	7	PID ES	0.0ppm J+V+T						
3.90	9	D							
4.00	8	ES PID	J+V+T 0.1ppm						
4.50	9	ES	J+V+T						
4.50-4.95	10	SPT	2,3/3,4,4,4 N=15						
4.50-5.00	11	B PID	0.0ppm					(4.00)	
4.50	10	ES PID	J+V+T 0.0ppm						
5.00	10	ES PID	J+V+T 0.0ppm						
5.50	12	D							
6.00	11	ES	J+V+T						
6.00-6.45	13	U	32 blows 100% recovery						
6.00	14	PID D	0.0ppm						
6.40	14	D							
7.00	12	ES PID	J+V+T 0.0ppm						
7.00	12	ES PID	J+V+T 0.0ppm				9.96	7.50	
7.50-7.95	3	SPT(c)	1,2/3,3,3,4 N=13			Medium dense yellowish brown very clayey silty SAND and GRAVEL. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of flint. (HACKNEY GRAVEL)		(0.70)	
7.50	15	D							
7.50-8.00	16	B							
8.00	13	ES PID	J+V+T 0.0ppm				9.26	8.20	
8.00	13	ES PID	J+V+T 0.0ppm						
8.20	17	D							
8.50	18	D				Stiff initially low becoming medium to high strength dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION)			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
11/11/16	12:35	7.50	7.50	250		16.20	16.60	02:00	
15/11/16	08:00	7.50	7.50	250					
15/11/16	11:35	15.00	15.00	250	15.00				
15/11/16	12:35	16.50	16.20	250	16.50				
15/11/16	18:35	18.00	18.00	250					
16/11/16	18:33	36.50	36.50	200					
17/11/16	17:44	41.80	36.50	200					

1. Hand dug inspection pit to 1.20m bgl.
2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
3. Borehole drilled in following diameters: 28.0m bgl in 250mm; 36.5m bgl in 200mm; 41.8m bgl in 150mm casing to 18.0m bgl in 250mm and 36.5m bgl in 200mm diameter.

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JBarron	Checked By: ST	
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GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log Cable Percussion Log - A4P | 28549_MOUNT PLEASANT.GPJ - v8_06.
 RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk | 02/06/17 - 14:41 | JB2



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH11
Contract Ref: 28549	Start: 11.11.16 End: 17.11.16	Ground Level: 17.46	National Grid Co-ordinate: E:530926.3 N:182297.5	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	14	ES	J+V+T			Stiff initially low becoming medium to high strength dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION) <i>(stratum copied from 8.20m from previous sheet)</i>	(6.80)		
9.00-9.45	19	U	52 blows 100% recovery						
9.00		PID	0.0ppm						
9.40	20	D							
10.00	15	ES	J+V+T						
10.00		PID	0.0ppm						
10.50-10.95	21	SPT	2,3/4,4,5,5 N=18						
10.50	22	D							
11.50	23	D							
12.00-12.45	24	U	60 blows 100% recovery						
12.40	25	D							
13.00	16	ES	J+V+T						
13.00		PID	0.0ppm						
13.50-13.95	26	SPT	3,4/5,5,5,6 N=21						
13.50-14.00	27	B							
14.50	28	D							
14.80	17	ES	J+V+T						
14.80		PID	0.0ppm						
15.00-15.45	30	SPT	2,2/4,4,4,5 N=17						
16.20-16.60	31	B							
16.50-16.52	4	SPT(c)	25/50 for 12mm N=1250*						
16.60	32	D							
17.50	33	D							

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
 RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Web: www.rsk.co.uk | 02/06/17 - 14:41 | JB2

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 3.5 and 8.0mbgl. Pipe 2 - 50mm HDPE response zone 15m to 18m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 3.5m to 8.0mbgl & 15.0m to 18.0m bgl; sand filter from 3.0m to 3.5m bgl and				
All dimensions in metres								Scale: 1:50					
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 3000		Drilled By:	MC		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH11
Contract Ref: 28549	Start: 11.11.16 End: 17.11.16	Ground Level: 17.46	National Grid Co-ordinate: E:530926.3 N:182297.5	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend					
Depth	No	Type	Results											
18.00	18	ES	J+V+T			Stiff to very stiff high strength light bluish grey and brown closely spaced fissured silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS) <i>(stratum copied from 16.60m from previous sheet)</i>								
18.00-18.45	34	U	150 blows 100% recovery											
18.00		PID	0.0ppm											
18.40	35	D												
19.00	36	D												
19.50-19.95	37	SPT	3,4/5,6,6,7 N=24											
19.50-20.00	38	B												
20.50	39	D												
21.00-21.45	40	U	72 blows 100% recovery											
22.00	41	D												
22.50-22.95	42	SPT	4,6/7,7,9,11 N=34											
22.50-23.00	43	B												
23.20	44	D												
24.00-24.45	45	U	58 blows 100% recovery											
24.70	46	D												
25.00	19	ES	J+V+T								Stiff to very stiff light grey mottled dark yellowish brown very closely spaced fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS) ... At 25.5m bgl red mottling.			
25.00		PID	0.0ppm											
25.50-25.95	47	SPT	5,6/9,10,10,11 N=40											
25.50-26.00	48	B												
26.50	49	D												

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk | 02/06/17 - 14:41 | JB2 |

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									14.5m to 15.0m bgl & bentonite seal/grouting between 0.2m and 3.0m bgl; 8.0m to 14.5m bgl; 18.0m to 24.7m bgl with compacted backfill (sand/clay) to base of borehole and installation of flush cover. 6. PID = Photo ionisation detector with 10.6eV bulb				
All dimensions in metres						Scale: 1:50							
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH11
Contract Ref: 28549	Start: 11.11.16 End: 17.11.16	Ground Level: 17.46	National Grid Co-ordinate: E:530926.3 N:182297.5	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.00-27.45	50	U	75 blows 0% recovery	Water	Backfill & Instrumentation	Stiff to very stiff light grey mottled dark yellowish brown very closely spaced fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS) <i>(stratum copied from 24.70m from previous sheet)</i>	-10.54	28.00	X
27.00-27.50	51	B							
28.50-28.95	52	SPT	4,7/9,9,10,10 N=38			Stiff to very stiff high to very high strength dark grey and greenish grey sandy silty CLAY. Sand is fine glauconitic. With occasional discontinuous thin lamination sized pockets of grey fine sand. (LAMBETH GROUP - UPNOR FORMATION) . . . At 28.0m bgl grey and slightly sandy.Sand is fine.	-11.54	29.00	X
28.50-29.00	53	B							
29.00	54	D				Very stiff very high density green mottled light brownish yellow sandy silty CLAY. Sand is fine. (LAMBETH GROUP - UPNOR FORMATION)	-13.04	30.50	X
29.50-29.95	55	U	150 blows 100% recovery						
30.00	20	ES PID	J+V+T 0.0ppm			Stiff to very stiff grey very sandy very clayey SILT with rare rounded flat fine to coarse of black pebbles. Sand is fine to medium. Locally thinly to thickly laminated with thin laminations and partings light grey fine sand. (LAMBETH GROUP - UPNOR FORMATION)	-15.04	32.50	X
30.50	56	D							
31.00-31.45	57	SPT	3,6/8,9,10,11 N=38			Very dense grey very silty fine SAND. (THANET SAND FORMATION)			X
31.00-31.50	58	B							
32.00	59	D							X
32.50	60	D							
32.50-32.57	61	SPT	25/50 for 29mm N=517*						X
32.50-33.00	62	B							
33.50	63	D							X
34.00-34.09	64	SPT	25/50 for 66mm N=227*						
34.00-34.50	65	B							X
35.00	21	ES PID	J+V+T 0.0ppm						
35.50	66	D					X		
35.50-36.00	67	B							

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									7. Groundwater strike (medium to large flow) observed by driller at 15.0m bgl rising to 14.21m bgl after 20 mins. 8. Groundwater strike (medium to large flow) observed by driller at 16.5m bgl rising to 15.70m bgl after 20 mins. 9. 250L of water added to drill through the Thanet				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH11
Contract Ref: 28549	Start: 11.11.16 End: 17.11.16	Ground Level: 17.46	National Grid Co-ordinate: E:530926.3 N:182297.5	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
37.00-37.10	68	SPT	25/50 for 60mm N=250*		Very dense grey very silty fine SAND. (THANET SAND FORMATION) (stratum copied from 32.50m from previous sheet)		(9.33)	[Cross-hatched pattern]	
37.00-37.50	69	B							
38.00	70	D							
38.50-38.60	71	SPT	25/50 for 32mm N=469*						
38.50-39.00	72	B							
39.50	73	D							
40.00	22	ES	J+V+T						
40.00-40.08	74	SPT	25/50 for 43mm N=349*						
40.00-40.50	75	B							
40.00		PID	0.0ppm						
41.00	76	D							
41.80-41.83	5	SPT(c)	25/50 for 20mm N=750*		... Below 40.00m bgl grading in to very sandy SILT.				
					Borehole terminated at 41.83m bgl due to refusal.		-24.37	41.83	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									Sand. 10. Driller chiselling from 16.2m to 16.6m bgl: 2 hrs.	
All dimensions in metres								Scale:	1:50	
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 3000		Drilled By:	MC		Logged By:	JBarron
								Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH12
Contract Ref: 28549	Start: 17.11.16 End: 23.11.16	Ground Level: 16.05	National Grid Co-ordinate: E:530973.0 N:182282.1	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Dark greyish brown compacted SAND and GRAVEL.	15.85	0.20	
0.50-1.00	1	B PID	0.0ppm			MADE GROUND: Greyish brown clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse flint, brick and concrete. Cobbles are subangular up to 150mm in diameter concrete and brick. With occasional ash and clinker.			
0.50	1	ES	J+V+T						
1.00	2	D PID	0.0ppm						
1.00	2	ES	J+V+T						
1.01	2	ES	J+V+T						
1.20-1.65	3	SPT(c)	2,3/3,2,2,2 N=9						(3.00)
1.20-1.70	4	B							
1.50	3	ES	J+V+T						
1.50	3	PID	0.0ppm						
2.00	4	ES	J+V+T						
2.00	4	PID	0.1ppm						
2.50	5	ES	J+V+T						
2.50	5	PID	0.1ppm						
3.00	6	ES	J+V+T					12.85	3.20
3.00	6	PID	0.0ppm						
3.20-3.65	5	SPT	1,3/2,3,4,3 N=12			MADE GROUND: Dark greyish brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse flint, brick and concrete. Cobbles are subangular up to 150mm in diameter concrete and brick. With occasional ash and clinker.			
3.50	7	ES	J+V+T						
3.50	7	PID	0.0ppm						
3.70-4.20	6	B							
4.00	8	ES	J+V+T						
4.00	8	PID	0.0ppm						
4.20-4.65	7	U	29 blows 100% recovery						
4.50	9	ES	J+V+T						
4.50	9	PID	0.0ppm						
5.00	10	ES	J+V+T						
5.00	10	PID	0.0ppm						
5.20-5.65	8	SPT	2,2/4,2,4,3 N=13						(4.80)
5.20-5.70	9	B							
6.00	11	ES	J+V+T						
6.00	11	PID	0.0ppm						
6.50-6.95	10	U	32 blows 100% recovery						
7.00	12	ES	J+V+T						
7.00	12	PID	0.0ppm						
8.00-8.45	11	SPT	4,4/4,4,4,4 N=16			MADE GROUND: Dark greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint, concrete and brick. With occasional ash and clinker.	8.05	8.00	
8.00-8.50	12	B						(0.70)	
8.00	13	ES	J+V+T						
8.00	13	PID	0.0ppm				7.35	8.70	
8.70	13	D				<i>Description on next sheet</i>			
8.70-9.10	14	B							

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
17/11/16	17:35	15.00	15.00	250					
18/11/16	13:33	20.00	20.00	250					
21/11/16	17:35	23.00	23.00	200					
22/11/16	17:38	32.00	32.00	200					
23/11/16	17:47	40.00	40.00	150					

1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 20.0m bgl in 250mm; 32.5m bgl in 200mm; 40.0m bgl in 150mm casing to 20.0m bgl in 250mm; 32.5m bgl in 200mm and 40.0m bgl in 150mm

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 2000	Drilled By: MW	Logged By: JBarron	Checked By: ST	
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GINT_LIBRARY_V8_06.GLB LibVersion: v8_06_017 PPrVersion: v8_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH12
Contract Ref: 28549	Start: 17.11.16 End: 23.11.16	Ground Level: 16.05	National Grid Co-ordinate: E:530973.0 N:182282.1	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	14	ES	J+V+T		<p>Stiff greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravel is subrounded to subangular fine to medium of flint. (LONDON CLAY FORMATION) <i>(stratum copied from 8.70m from previous sheet)</i></p> <p>Stiff high strength dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION)</p> <p>4,6/9,7,7,8 N=31</p> <p>Stiff to very stiff high to very high strength light bluish grey and brown closely spaced fissured silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)</p> <p>... At 15.5m bgl low strength.</p>	6.95	9.10		
9.00		PID	0.0ppm						
9.10	15	D							
9.10-9.40	16	B							
9.50-9.95	17	U	47 blows 100% recovery						
10.00	15	ES	J+V						
10.00		PID	0.0ppm						
11.00-11.45	18	SPT	4,6/9,7,7,8 N=31						
11.00-11.50	19	B						(5.00)	
12.50-12.95	20	U	64 blows 100% recovery						
13.00	16	ES	J+V						
13.00		PID	0.0ppm						
14.00-14.45	21	SPT	3,5/7,9,9,9 N=34					1.95	14.10
14.00-14.50	22	B							
15.50-15.95	23	U	70 blows 100% recovery						
16.00	17	ES	J+V						
16.00		PID	0.0ppm						
17.00-17.45	24	SPT	7,6/7,8,9,9 N=33						
17.00-17.50	25	B							

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)						
									diameter. 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 4.0 and 8.0mbgl. Pipe 2 - 50mm HDPE response zone 23m to 29m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 4.0m to 8.0mbgl & 23.0m to					
All dimensions in metres									Scale:	1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	MW		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH12
Contract Ref: 28549	Start: 17.11.16 End: 23.11.16	Ground Level: 16.05	National Grid Co-ordinate: E:530973.0 N:182282.1	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.00-27.45	33	SPT	8,8/8,9,9,11 N=37			Stiff to very stiff high to very high strength light bluish grey mottled light yellowish brown closely spaced fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS) <i>(stratum copied from 24.45m from previous sheet)</i>			
28.50-28.95	34	U	76 blows 100% recovery				-12.85	28.90	
28.95-29.05	35	D				Dark grey and greenish grey sandy silty CLAY. Sand is fine glauconitic. With occasional discontinuous thin lamination sized pockets of grey fine sand. (LAMBETH GROUP - UPNOR FORMATION)		(1.00)	
30.00	20	ES	J+V					(0.60)	
30.00-30.45	36	SPT	6,8/9,9,12,13 N=43			Stiff to very stiff very high strength green mottled light brownish yellow sandy silty CLAY. Sand is fine. (LAMBETH GROUP - UPNOR FORMATION)		(0.60)	
30.00		PID	0.0ppm					-14.45	30.50
						Stiff to very stiff very high strength grey sandy gravelly CLAY. Sand is fine to medium. Gravel is rounded flat fine to coarse of black pebbles. Locally thinly to thickly laminated with thin laminations and partings light grey fine sand. (LAMBETH GROUP - UPNOR FORMATION)		(1.50)	
31.50-31.95	37	U	91 blows 100% recovery					-15.95	32.00
32.00	38	D				Very dense grey silty fine SAND with occasional fine to medium pebbles. (THANET SAND FORMATION)			
33.00-33.24	39	SPT	16,9/21,29 for 50mm N=120*						
33.00-33.50	40	B							
34.50-34.64	41	SPT	25/47,3 for 5mm N=188*						
35.00	21	ES	J+V						
35.00		PID	0.0ppm						
								(8.00)	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									bulb 7. No groundwater seepage observed by the driller during drilling.				
All dimensions in metres										Scale: 1:50			
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	MW	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH12
Contract Ref: 28549	Start: 17.11.16 End: 23.11.16	Ground Level: 16.05	National Grid Co-ordinate: E:530973.0 N:182282.1	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
36.00-36.10	42	SPT	23,2/25,25 for 7mm N=882*		[Cross-hatched pattern]	Very dense grey silty fine SAND with occasional fine to medium pebbles. (THANET SAND FORMATION) (stratum copied from 32.00m from previous sheet)			[Cross-hatched pattern]
37.50-37.51	43	SPT	25/50 for 7mm N=2143*						
39.00-39.02	44	SPT	25/50 for 11mm N=1364*						
40.00 40.00	22	ES PID	J+V 0.0ppm			Borehole completed at 40.0m bgl.	-23.95	40.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
All dimensions in metres								Scale: 1:50					
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	MW	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13	
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 1 of 6	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-1.20	1	B				MADE GROUND: Dark brown slightly sandy gravelly CLAY with low to medium cobble content of brick and concrete. Sand is fine to coarse. Gravel is subrounded to subangular fine to medium flint concrete brick and mortar.			[Cross-hatch pattern]
0.50 0.50	1	ES PID	J+V+T 0.1ppm						
1.00 1.00	2	ES PID	J+V+T 0.1ppm						
1.50-1.81	1	SPT(c)	7,11/17,22,11 for 11mm N=93*						
1.50 1.50	3	ES PID	J+V+T 0.3ppm						
1.50-2.00	2	B							
2.00 2.00	4	ES PID	J+V+T 0.2ppm						
2.20	3	D							
2.50-2.95	2	SPT(c)	8,8/7,8,12,9 N=36						
2.50-3.00	3	B							
2.50 2.50	5	ES PID	J+V+T 0.2ppm						
3.00 3.00	6	ES PID	J+V+T 0.4ppm						
3.20	4	D							
3.30-3.60	5	B							
3.50-3.95	3	SPT(c)	3,2/3,1,2,1 N=7						
3.50 3.50	7	ES PID	J+V+T 0.1ppm						
3.60 3.60	6	D							
3.60-4.00	7	B							
4.00 4.00	8	ES PID	J+V+T 0.1ppm						
4.20	8	D							
4.50-4.95	9	SPT	1,1/2,2,2,2 N=8						
4.50-5.00	10	B							
4.50 4.50	9	ES PID	J+V+T 0.1ppm						
5.00 5.00	10	ES PID	J+V+T 0.2ppm						
5.60	11	D							
6.00 6.00-6.45	11	ES SPT	J+V+T 1/1,1,1 N=3						
6.00-6.50	12	B							
6.00 7.00	12	PID ES	0.1ppm J+V+T						
7.00 7.00	13	D PID							
7.00 7.50	14	D							
7.50 7.50	15	U	109 blows 100% recovery						
7.90	16	D							
8.00 8.00	13	ES PID	J+V+T 0.1ppm						
8.50	17	D							
						MADE GROUND: Dark greyish brown very sandy slightly gravelly silty CLAY. Gravel is subrounded to subangular fine to coarse flint, concrete and brick. (Possible reworked alluvial material).			[Cross-hatch pattern]
						Stiff to very stiff high strength dark greyish brown fissured silty CLAY. (LONDON CLAY FORMATION)			[Horizontal line pattern]

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
24/10/16	11:25	7.50	6.00	250	7.50	1.80	2.00	01:30	
24/10/16	17:52	16.00	9.00	250	Dry	40.50	40.90	01:00	
25/10/16	06:52	16.00	9.00	250	Dry	45.90	46.40	00:45	
25/10/16	18:56	29.50	9.00	200	Dry				
26/10/16	08:00	29.50	30.00	200	Dry				
26/10/16	17:30	40.00	40.00	200	Dry				
27/10/16	07:15	40.00	40.00	150	Dry				
27/10/16	18:00	50.00	50.00	150	Dry				

1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 30.0m bgl in 250mm; 40.0m bgl in 200mm; 50.0m bgl in 150mm casing to 24.0m bgl in 250mm; 40.0m bgl in 200mm and 50.0m bgl in 150mm

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 2 of 6

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
9.00	14	ES	J+V+T		[Solid black fill]	Stiff to very stiff high strength dark greyish brown fissured silty CLAY. (LONDON CLAY FORMATION) <i>(stratum copied from 7.50m from previous sheet)</i>			[X pattern]		
9.00-9.45	18	SPT	3,4/4,5,6,6 N=21							[X pattern]	
9.00-9.50	19	B			[Cross-hatch pattern]	Stiff becoming very stiff with depth, medium to high becoming very high strength with depth light brown mottled bluish grey silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)			[X pattern]		
9.00		PID	0.0ppm							[X pattern]	
10.00	15	ES	J+V+T							[X pattern]	
10.00	20	D								[X pattern]	
10.00		PID	0.0ppm						4.19	10.50	[X pattern]
10.50	21	D									[X pattern]
10.50-10.95	22	U	100 blows 100% recovery								[X pattern]
10.90	23	D									[X pattern]
12.00-12.45	24	SPT	4,5/5,6,7,7 N=25								[X pattern]
12.00-12.50	25	B									[X pattern]
13.00	16	ES	J+V+T								[X pattern]
13.00	26	D									[X pattern]
13.00		PID	0.0ppm								[X pattern]
13.50-13.95	27	U	98 blows 100% recovery								[X pattern]
13.90	28	D								(7.50)	[X pattern]
14.50	29	D							[X pattern]		
15.00-15.45	30	SPT	5,6/9,11,12,12 N=44						[X pattern]		
15.00-15.50	31	B							[X pattern]		
15.50	31	D							[X pattern]		
16.00	32	D							[X pattern]		
16.00		PID	0.0ppm						[X pattern]		
16.50-16.95	33	SPT	6,7/11,10,12,12 N=45						[X pattern]		
16.50-17.00	34	B							[X pattern]		
17.50	35	D							[X pattern]		
							-3.31	18.00	[X pattern]		

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
28/10/16	15:21		-						diameter. 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 4.5 and 8.0mbgl. Pipe 2 - 50mm HDPE response zone 1m to 2m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 4.5m to 8.0mbgl & 1.0m to 2.0m				
All dimensions in metres								Scale: 1:50					
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 3 of 6

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
18.00-18.45	36	U	98 blows 100% recovery	Water	Backfill & Instrumentation	Stiff to very stiff bluish grey mottled orangish brown fissured slightly sandy silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)	-3.81	(0.50)			
18.40	37	D				Stiff high strength dark grey to grey silty sandy CLAY. Sand is fine. (LAMBETH GROUP - LAMINATED BEDS)		18.50			
18.50	38	D									
19.00	18	ES	J+V+T						(2.00)		
19.00	39	D									
19.50-19.95	40	SPT	2,3/6,7,7,7 N=27								
19.50-20.00	41	B									
20.00		PID	0.0ppm						-5.81	20.50	
20.50	42	D						Stiff to very stiff bluish grey mottled orangish brown fissured slightly sandy CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)			
21.00-21.45	43	U	106 blows 100% recovery							(1.50)	
21.40	44	D							-7.31	22.00	
22.00	45	D						Dense light orangish brown slightly silty fine to medium SAND. (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)		(1.40)	
22.50-22.95	46	SPT	6,7/8,9,9,10 N=36						-8.71	23.40	
22.50-23.00	47	B									
23.40	48	D						Stiff to very stiff very high strength bluish grey mottled reddish brown fissured slightly sandy slightly silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)		(1.00)	
24.00-24.45	49	U	103 blows 100% recovery						-9.71	24.40	
24.40	50	D						Stiff to very stiff dark orangish brown to dark bluish grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subrounded to angular fine to medium flint. (LAMBETH GROUP - LOWER MOTTLED BEDS)		(1.10)	
25.00	20	ES							-10.81	25.50	
25.00	51	D									
25.00		PID	0.0ppm								
25.50	52	D									
25.50-25.95	53	SPT	9,11/11,12,13,13 N=49					Stiff high to very stiff very high strength light orangish brown to light bluish grey slightly sandy silty CLAY. Sand is predominately fine. (LAMBETH GROUP - LOWER MOTTLED BEDS)			
25.50-26.00	54	B									
26.50	55	D								(3.00)	

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06_017 PrjVersion: v8_06 - Core+Logs - 002 | Log Cable PERCUSSION LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)						
									bgl; sand filter from 4.0m to 4.5m bgl and 22.5m to 23.0m bgl & bentonite seal/grouting between 0.2m and 1.0m bgl; 2.0m to 4.0m bgl; 8.0m to 10.0m bgl & 26.0m to 30m bgl with compacted backfill (sand/clay) between 10.0m to 26m bgl and 30m bgl to base of borehole and installation of flush cover.					
All dimensions in metres											Scale: 1:50			
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 4 of 6

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
27.00-27.45	56	U	130 blows 100% recovery			Stiff high to very stiff very high strength light orangish brown to light bluish grey slightly sandy silty CLAY. Sand is predominately fine. (LAMBETH GROUP - LOWER MOTTLED BEDS) <i>(stratum copied from 25.50m from previous sheet)</i>				
27.40	57	D								
28.00	58	D								
28.50-28.95	59	SPT	7,9/10,10,12,12 N=44			Dense dark greenish grey to dark orangish brown silty clayey gravelly fine SAND. Gravel is rounded fine to medium flint. (LAMBETH GROUP - UPNOR FORMATION)	-13.81	28.50		
28.50	60	D								
28.50-29.00	61	B							(1.50)	
29.50	62	D								
30.00	21	ES				Very dense dark grey slightly silty fine to coarse SAND. (THANET SAND FORMATION)	-15.31	30.00		
30.00-30.09	63	SPT	25/50 for 31mm N=484*							
30.00	64	D								
30.00-30.50	65	B								
30.00	65	PID	0.0ppm							
31.00	66	D								
31.50-31.58	67	SPT	25/50 for 43mm N=349*							
31.50-32.00	68	B								
32.50	69	D								
33.00-33.09	70	SPT	25/50 for 50mm N=300*							
33.00-33.50	71	B								
34.00	72	D								
34.50-34.58	73	SPT	25/50 for 46mm N=326*							
34.50-35.00	74	B								
35.00	22	ES								
35.00	22	PID	0.0ppm							
35.50	75	D								
35.60	76	D				<i>Description on next sheet</i>	-20.91	35.60		

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									6. PID = Photo ionisation detector with 10.6eV bulb 7. Small rate of groundwater seepage observed by the driller at 7.5m bgl rising to 7.0m bgl after 20 mins.				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 5 of 6

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend						
Depth	No	Type	Results												
36.00-36.38	4	SPT(c)	6,8/12,14,14,10 for 9mm N=64*	Water	Backfill & Instrumentation	Recovery of dark greenish grey to white silty sandy subrounded to angular fine to coarse GRAVEL of flint and CHALK. (WHITE CHALK SUBGROUP) <i>(stratum copied from 35.60m from previous sheet)</i>	-22.31	(1.40)							
36.00-36.50	77	B													
37.00	78	D				Recovery of off white gravelly silt of CHALK. (WHITE CHALK SUBGROUP)									
37.50-37.60	79	SPT	25/50 for 70mm N=214*												
37.50-38.00	80	LB													
38.50	81	D													
39.00-39.11	82	SPT	25/50 for 60mm N=250*												
39.00-39.50	83	LB													
40.00	23	ES													
40.00	84	D													
40.00		PID	0.0ppm												
40.50-40.53	98	SPT	25/50 for 15mm N=1000*								... Driller indicates probable flint cobble at 40.5m bgl.				
41.00	85	D													
41.50-41.55	5	SPT(c)	25/50 for 16mm N=938*												
41.50-42.00	86	B													
42.50	87	D													
43.00-43.02	6	SPT(c)	25/50 for 12mm N=1250*												
43.00-43.50	88	B													
44.00	89	D													
44.50-44.55	7	SPT(c)	25/50 for 26mm N=577*												

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
									All dimensions in metres Scale: 1:50

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH13
Contract Ref: 28549	Start: 24.10.16 End: 28.10.16	Ground Level: 14.69	National Grid Co-ordinate: E:531001.2 N:182249.2	Sheet: 6 of 6

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend						
Depth	No	Type	Results												
44.50-45.00	90	B	0.0ppm	Water	Backfill & Instrumentation	Recovery of off white gravelly silt of CHALK. (WHITE CHALK SUBGROUP) <i>(stratum copied from 37.00m from previous sheet)</i>									
45.00	24	ES													
45.00	91	PID													
45.50	91	D													
46.00-46.01	8	SPT(c)	25/50 for 3mm N=5000*									... Driller indicates probable flint cobble at 45.9m bgl.			
47.00	92	D													
47.50-47.56	9	SPT(c)	25/50 for 40mm N=375*												
48.50	93	D													
49.00-49.04	10	SPT(c)	25/50 for 27mm N=556*												
49.00-49.50	94	B													
50.00-50.03	11	SPT(c)	25/50 for 23mm N=652*										-35.41	50.10	
50.00	25	ES	0.0ppm			Borehole completed at 50.1m bgl.									
50.00	95	D													
50.00	95	PID													

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH14
Contract Ref: 28549	Start: 21.11.16 End: 24.11.16	Ground Level: 14.20	National Grid Co-ordinate: E:531011.6 N:182176.9	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.50	1	B				MADE GROUND: Asphalt.	14.00	0.20	
0.50	1	ES	J+V+T			MADE GROUND: Dark brownish grey SAND and GRAVEL with a high cobble content. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of concrete, brick and flint. Cobbles are of concrete and brick. With occasional ash and clinker.			
0.50-1.00	2	B							
0.50		PID	0.0ppm						
1.00	2	ES	J+V+T						
1.00		PID	0.1ppm						
1.10	1	D							
1.20-1.65	1	SPT(c)	1,2/2,3,2,3 N=10						
1.20-1.70	3	B							(3.60)
1.50	3	ES	J+V+T						
1.50		PID	0.1ppm						
1.90	2	D							
2.00-2.45	2	SPT(c)	0,1/1 N=1						
2.00	4	ES	J+V+T						
2.00		PID	0.0ppm						
2.01-2.50	4	B							
2.50	5	ES	J+V+T						
2.50		PID	0.0ppm						
2.80	3	D							
3.00-3.45	3	SPT(c)	1,2/2,1,1 N=4				10.40	3.80	
3.00-3.50	5	B							
3.00	6	ES	J+V+T						
3.00		PID	0.0ppm						
3.50	7	ES	J+V+T					(1.20)	
3.50		PID	0.1ppm						
3.80	4	D							
4.00-4.45	4	SPT(c)	1,1/1,1 N=2						
4.00-4.50	6	B					9.20	5.00	
4.00	8	ES	J+V+T						
4.00		PID	0.0ppm						
4.50	9	ES	J+V+T					(1.00)	
4.50		PID	0.0ppm						
4.80	5	D							
5.00-5.45	5	SPT(c)	0,1/1,1 N=2				8.20	6.00	
5.00	10	ES	J+V+T						
5.00-5.50	7	B							
5.00		PID	0.0ppm						
6.00	6	D						(1.50)	
6.00	11	ES	J+V+T						
6.00		PID	0.0ppm						
6.20	7	D							
6.50-6.95	6	SPT	2,3/3,4,4,4 N=15						
7.00	12	ES	J+V+T				6.70	7.50	
7.00		PID	0.0ppm						
7.50	8	D							
8.00-8.45	1	U	50 blows 100% recovery						
8.00	13	ES	J+V						
8.00		PID	0.0ppm						
8.50	9	D						(3.00)	

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
21/11/16	08:32	9.00	9.00	250	9.00				
21/11/16	17:32	9.50	9.50	250					
23/11/16	07:32	9.50	9.50	250					
23/11/16	15:32	26.50	26.50	200	26.50				
23/11/16	17:32	27.50	27.50	200					
24/11/16	16:17	40.00	28.00	200					

1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 22.7m bgl in 250mm; 27.5m bgl in 200mm; 40.0m bgl in 150mm casing to 9.5m bgl in 250mm; 27.5m bgl in 200mm diameter.

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 2000	Drilled By: DH	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH14
Contract Ref: 28549	Start: 21.11.16 End: 24.11.16	Ground Level: 14.20	National Grid Co-ordinate: E:531011.6 N:182176.9	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	10	D			Stiff high strength brownish grey extremely closely spaced silty CLAY. With rare relict roots and possible selenite crystals. (LONDON CLAY FORMATION) <i>(stratum copied from 7.50m from previous sheet)</i>	3.70	10.50		
9.00	14	ES PID	J+V 0.0ppm						
9.50-9.95	7	SPT	3,3/4,5,6,5 N=20						
10.00	15	ES PID	J+V 0.0ppm						
10.50	11	D							
10.50	12	D							
11.00-11.45	2	U	65 blows 100% recovery						
11.50	13	D							
12.00	14	D							
12.50-12.95	8	SPT	5,5/6,7,7,7 N=27						
13.00	16	ES PID	J+V 0.0ppm						
13.50	15	D							
14.00-14.45	3	U	70 blows 100% recovery						
14.50	16	D							
15.00	17	D							
15.50-15.95	9	SPT	5,6/7,9,10,9 N=35						
16.00	17	ES PID	J+V 0.0ppm						
16.50	18	D							
17.00-17.45	4	U	75 blows 100% recovery						
17.50	19	D							
Description on next sheet						-3.30	17.50		

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 2.0 and 6.0mbgl. Pipe 2 - 50mm HDPE response zone 20m to 27m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 2.0m to 6.0mbgl & 20.0m to 27.0m bgl; sand filter from 1.5m to 2.0m bgl and				
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	DH	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH14
Contract Ref: 28549	Start: 21.11.16 End: 24.11.16	Ground Level: 14.20	National Grid Co-ordinate: E:531011.6 N:182176.9	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
18.00	20	D				Very stiff very high strength light grey and dark grey interlaminated SILT and silty CLAY with closely spaced thin laminations of lignitic material. (LAMBETH GROUP - LAMINATED BEDS) <i>(stratum copied from 17.50m from previous sheet)</i>		(2.00)	
18.50-18.95	10	SPT	7,7/9,10,10,12 N=41						
19.00 19.00	18	ES PID	J+V 0.0ppm						
19.50	21	D				Very stiff very high strength light greenish grey mottled orangish brown fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)	-5.30	19.50	
20.00-20.45	5	U	85 blows 100% recovery						
20.50	22	D				... At 20.5m bgl slightly sandy. Sand is fine.			
21.00	23	D				... At 21.0m bgl red mottling.		(3.20)	
21.50-21.95	11	SPT	7,8/9,11,10,11 N=41						
22.00 22.00	19	ES PID	J+V 0.0ppm						
22.50 22.70	24 25	D D					-8.50	22.70	
23.00-23.50 23.00-23.18	8 12	B SPT(c)	19,6/50 for 75mm N=200*			Dense to very dense light green to black sandy slightly clayey fine to coarse GRAVEL. Sand is fine to coarse Quartz. Gravel is subrounded to rounded fine black pebbles of mixed lithologies. (LAMBETH GROUP - UPNER FORMATION)			
24.00	26	D							
24.50-25.00 24.50-24.68	9 13	B SPT(c)	25/37,13 for 25mm N=150*					(4.80)	
25.50	27	D							
26.00-26.50 26.00-26.45	10 14	B SPT(c)	7,8/10,7,10,11 N=38			... below 26.0m bgl sand content decreases.			

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
									19.5m to 20.0m bgl & bentonite seal/grouting between 0.2m and 1.5m bgl; 6.0m to 20.0m bgl; 27.0m to 30.0m bgl with compacted backfill (sand/clay) from 30m bgl to base of borehole and installation of flush cover. 6. PID = Photo ionisation detector with 10.6eV bulb
Method Used: Inspection pit + Cable percussion						Plant Used: Dando 2000			All dimensions in metres Scale: 1:50
Drilled By: DH			Logged By: JBarron			Checked By: ST			



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH14
Contract Ref: 28549	Start: 21.11.16 End: 24.11.16	Ground Level: 14.20	National Grid Co-ordinate: E:531011.6 N:182176.9	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.50-27.65	15	SPT	19,6/50 for 50mm N=300*		Very dense grey slightly silty fine SAND. (THANET SAND FORMATION)	-13.30	27.50		
27.50	28	D							
28.00	20	ES	J+V						
28.00		PID	0.0ppm						
28.50	29	D							
29.00-29.10	16	SPT	25/50 for 50mm N=300*						
30.00	30	D							
30.50-30.60	17	SPT	25/50 for 50mm N=300*						
31.50	31	D							
32.00-32.13	18	SPT	25/50 for 50mm N=300*						
33.00	21	ES	J+V						
33.00	32	D							
33.00		PID	0.0ppm						
33.50-33.65	19	SPT	19,6/50 for 50mm N=300*						
34.50	33	D							
35.00-35.15	20	SPT	25/50 for 70mm N=214*						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									7. Small seepage observed by driller at 9.0m bgl sealed out at 9.5m bgl. 8. Small seepage observed by driller at 26.5m bgl sealed out at 27.5m bgl. 9. 300L water added to the borehole to drill the Thanet Sand.				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 2000		Drilled By:	DH		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH14
Contract Ref: 28549	Start: 21.11.16 End: 24.11.16	Ground Level: 14.20	National Grid Co-ordinate: E:531011.6 N:182176.9	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
36.00	34	D			Water	Very dense grey slightly silty fine SAND. (THANET SAND FORMATION) <i>(stratum copied from 27.50m from previous sheet)</i>			X	
36.50-36.60	21	SPT	25/50 for 50mm N=300*							
37.50	35	D					-23.60	37.80	X	
38.00	22	ES	J+V			Recovery of greenish white sandy chalky sub-angular fine to coarse GRAVEL of flint. (WHITE CHALK SUBGROUP). (WHITE CHALK SUBGROUP)				X
38.00-39.00	36	D								
38.00		PID	0.0ppm							
38.01-38.16	22	SPT(c)	19,6/50 for 50mm N=300*					(2.20)		
39.50-39.63	23	SPT(c)	25/50 for 75mm N=200*							
39.50-40.00	37	D				-25.80	40.00			
Borehole completed at 40.0m bgl.										

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549_MOUNT PLEASANT.GPJ - v8_06.
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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	DH	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15
Contract Ref: 28549	Start: 11.11.16 End: 11.11.16	Ground Level: 14.81	National Grid Co-ordinate: E:530963.0 N:182225.0	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.50	1	ES				MADE GROUND: Concrete.	14.61	0.20	
0.00-0.50	1	B PID	0.0ppm			MADE GROUND: Brown silty sand and gravel with high cobble content of concrete and brick with frequent whole bricks.			
1.00	1	D							
1.00	2	ES							
1.00		PID	0.0ppm						
1.20-1.65	1	SPT(c)	1,2/3,2,3,3 N=11					(2.30)	
1.20-1.70	2	B							
1.50	3	ES							
1.50		PID	0.0ppm						
1.90	2	D							
2.00-2.45	2	SPT(c)	2,2/2,1,2,13 N=18				12.31	2.50	
2.00-2.50	3	B				MADE GROUND: Concrete. Driller indicates possible slab.	12.21	2.60	
2.00	4	ES PID	0.0ppm			Refusal at 2.6m bgl due to concrete obstruction.			

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
11/11/16	11:00	2.60	2.50	250	Dry	2.50	2.60	01:00	1. Hand dug inspection pit to 1.20m bgl. 2. Borehole drilled to 2.6m bgl in 250mm diameter. 3. Borehole refused at 2.6m bgl. Driller indicated due to concrete obstruction. 4. Borehole backfilled and reinstated at surface with concrete. 5. PID = Photo ionisation detector with 10.6eV bulb				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Hand dug		Plant Used:	Dando 2000		Drilled By:	DH		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15A
Contract Ref: 28549	Start: 11.11.16 End: 11.11.16	Ground Level: 14.85	National Grid Co-ordinate: E:530961.8 N:182223.9	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Concrete.	14.65	0.20	
						MADE GROUND: Brown silty sand and gravel with high cobble content of concrete and brick with frequent whole bricks.		(2.30)	
						MADE GROUND: Concrete. Driller indicates possible slab.	12.35	2.50	
						Refusal at 2.6m bgl due to concrete obstruction.	12.25	2.60	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
11/11/16	14:00	2.60	2.50	250	Dry	2.00	2.60	01:00	

1. Hand dug inspection pit to 1.20m bgl.
 2. Borehole drilled to 2.6m bgl in 250mm diameter.
 3. Borehole refused at 2.6m bgl. Driller indicated due to concrete obstruction.
 4. Borehole backfilled and reinstated at surface with concrete.
 5. PID = Photo ionisation detector with 10.6eV bulb

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Hand dug	Plant Used: Dando 2000	Drilled By: DH	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15B	
Contract Ref: 28549		Start: 15.11.16	Ground Level: 17.61	National Grid Co-ordinate: E:530954.0 N:182232.8	Sheet: 1 of 5
End: 17.11.16					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.50	1	B				MADE GROUND: Light brown silty very gravelly fine to coarse SAND with a low cobble content. Sand is fine and coarse quartz. Gravel is subrounded to angular fine to coarse brick, concrete, flint, ceramics and slate. Cobbles are subangular brick and concrete.	14.81	2.80	
0.50	1	ES	J+V+T						
0.50-1.00	2	B							
0.50		PID	0.0ppm						
1.00	2	ES	J+V+T						
1.00		PID	0.0ppm						
1.10	1	D							
1.20-1.65	1	SPT(c)	1,1/1,1,1 N=3						
1.20-1.70	3	B							
1.50	3	ES	J+V+T						
1.50		PID	0.0ppm						
1.90	2	D							
2.00-2.45	2	SPT(c)	1,1/1,1,1 N=3						
2.00	4	ES	J+V+T						
2.00		PID	0.0ppm						
2.50	5	ES	J+V+T						
2.50		PID	0.0ppm						
2.80	3	D							
3.00-3.45	3	SPT(c)	0,1/1,1 N=2						
3.00	6	ES	J+V+T						
3.00		PID	0.0ppm						
3.50	7	ES	J+V+T						
3.50		PID	0.0ppm						
3.70	4	D							
4.00-4.45	4	SPT(c)	1,1/1,1,2 N=4						
4.00	8	ES	J+V+T						
4.00		PID	0.0ppm						
4.50	9	ES	J+V+T						
4.50		PID	0.0ppm						
4.80	5	D							
5.00-5.45	5	SPT	2,2/2,3,2,3 N=10						
5.00	10	ES	J+V+T						
5.00		PID	0.0ppm						
6.00	6	D							
6.00	11	ES	J+V+T						
6.00		PID	0.0ppm						
6.50-6.95	1	U	40 blows 100% recovery						
7.00	7	D							
7.00	12	ES	J+V+T						
7.00		PID	0.0ppm						
7.50	8	D							
8.00-8.45	6	SPT	2,2/2,3,3,4 N=12						
8.00	13	ES	J+V+T						
8.00		PID	0.0ppm						
<i>Description on next sheet</i>									

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
15/11/16	16:00	18.00	9.00	250	18.00				
15/11/16	17:00	18.00	18.00	250					
16/11/16	06:30	18.00	18.00	250	17.20				
16/11/16	08:00	22.50	18.00	200	22.50				
16/11/16	15:00	32.30	28.50	200					
16/11/16	17:30	40.00	28.50	150					

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Hand dug	Plant Used: Dando 2000	Drilled By: DH	Logged By: JTownsend	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15B
Contract Ref: 28549	Start: 15.11.16 End: 17.11.16	Ground Level: 17.61	National Grid Co-ordinate: E:530954.0 N:182232.8	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	9	D							
9.00	14	ES				Stiff high strength dark grey fissured silty CLAY. With possible selenite crystals. (LONDON CLAY FORMATION)			
9.00		PID	0.0ppm			(stratum copied from 8.50m from previous sheet)			
9.50-9.95	2	U	50 blows 100% recovery						
10.00	10	D							
10.00	15	ES	J+V+T						
10.00		PID	0.0ppm						
10.50	11	D							
11.00-11.45	7	SPT	3,4/4,5,5,5 N=19					(6.20)	
12.00	12	D							
12.50-12.95	3	U	60 blows 100% recovery						
13.00	13	D							
13.00	16	ES							
13.00		PID	0.0ppm						
13.50	14	D							
14.00-14.45	8	SPT	4,4/5,6,7,7 N=25						
15.00	15	D						2.91	14.70
15.00					Stiff to very stiff high to very high strength light brown mottled bluish grey fissured slightly sandy silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)				
15.50-15.95	4	U	80 blows 100% recovery						
16.00	16	D							
16.00	17	ES	J+V+T					(3.30)	
16.00		PID	0.0ppm						
16.50	17	D							
17.00-17.45	9	SPT	5,6/7,9,9,9 N=34						
							-0.39	18.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 2.0 and 5.0mbgl. Pipe 2 - 33mm PVC response zone 17.5m to 19m bgl. Pipe 3 - 33mm PVC response zone 22.0m to 23.5m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 2.0m to 5.0mbgl; 17.5m to 19.0m				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Hand dug			Plant Used:	Dando 2000		Drilled By:	DH	Logged By:	JTownsend	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15B	
Contract Ref: 28549		Start: 15.11.16 End: 17.11.16	Ground Level: 17.61	National Grid Co-ordinate: E:530954.0 N:182232.8	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
18.00	18	D				Medium dense light grey very silty clayey fine SAND. Sand is fine quartz. (UPPER MOTTLED BEDS - SAND CHANNEL).		(0.80)	
18.50-18.95	10	SPT	3,3/5,7,8,8 N=28				-1.19	18.80	
19.00	18	ES PID	J+V+T 0.0ppm			Very stiff very high strength light brown mottled bluish grey fissured CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)			
19.50	19	D							
20.00-20.45	5	U	65 blows 100% recovery						
20.00	19	ES PID	J+V+T 0.0ppm					(3.70)	
20.00	20	D							
20.50	20	D							
21.00-21.45	11	SPT	6,6/8,9,10,12 N=39						
21.00	21	D							
22.50	22	D				Very stiff very high strength dark grey to black laminated slightly sandy silty CLAY. With very closely spaced laminations of lignitic material. (LAMBETH GROUP - LAMINATED BEDS)	-4.89	22.50	
23.00-23.45	6	U	65 blows 100% recovery			Very stiff very high strength light bluish grey mottled light pinkish red fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)	-5.59	23.20	
23.50	23	D							
24.00	24	D						(1.80)	
24.50-24.95	12	SPT	7,7/10,10,12,12 N=44						
25.00	20	ES	J+V+T			Very dense light orangish brown silty clayey fine quartz sand (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)	-7.39	25.00	
25.00	25	D PID	0.0ppm						
25.00	25	D							
25.50	26	D							
26.00-26.28	13	SPT	13,12/30,20 for 50mm N=120*					(2.40)	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									bgl and 22.0m to 23.5m bgl; sand filter from 1.5m to 2.0m bgl and 17.0m to 17.5m bgl & bentonite seal/grouting between 0.2m and 1.5m bgl; 5.0m to 17.0m bgl; 19.0m to 22.0m; 23.5m to 25.0m bgl with compacted backfill (sand/clay) from 25m bgl to base of borehole and installation of flush cover.	
All dimensions in metres									Scale:	1:50
Method Used:	Inspection pit + Hand dug		Plant Used:	Dando 2000		Drilled By:	DH		Logged By:	JTownsend
									Checked By:	ST



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH15B
Contract Ref: 28549	Start: 15.11.16 End: 17.11.16	Ground Level: 17.61	National Grid Co-ordinate: E:530954.0 N:182232.8	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
36.00	32	D			Very dense dark greenish brown silty fine SAND. (THANET SAND FORMATION) (stratum copied from 33.00m from previous sheet)		(6.30)	[Material Legend]	
36.50-36.63	19	SPT	25/50 for 50mm N=300*						
37.50	33	D							
38.00-38.12	20	SPT	25/50 for 70mm N=214*		Recovery of greenish white sandy chalky sub-angular fine to coarse GRAVEL of flint. (WHITE CHALK SUBGROUP). (WHITE CHALK SUBGROUP)			[Material Legend]	
39.00	34	D							
39.50-39.70	21	SPT	25/25,25 for 75mm N=100*						
39.50-40.00	35	D			Borehole completed at 40.0m bgl.			[Material Legend]	
40.00	23	ES	J+V						
40.00		PID	0.0ppm						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									10. 200L water added to the borehole to drill the Thanet Sand.				
All dimensions in metres								Scale: 1:50					
Method Used:	Inspection pit + Hand dug			Plant Used:	Dando 2000		Drilled By:	DH	Logged By:	JTownsend	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH19	
Contract Ref: 28549		Start: 29.11.16 End: 02.12.16	Ground Level: 18.72	National Grid Co-ordinate: E:530906.5 N:182329.4	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-0.50	1	B				MADE GROUND: Light brown to dark grey silty very gravelly fine to coarse SAND with a medium cobble content. Sand is fine and coarse quartz. Gravel is angular to subrounded fine to coarse brick concrete ceramics and slate. Cobbles are subangular to subrounded whole bricks and concrete.	17.92	0.80	
0.50 0.50	1	ES PID	J+V+T 0.0ppm						
1.00	2	ES	J+V+T			MADE GROUND: CONCRETE.	17.62	1.10	
1.00		PID	0.0ppm						
1.20-1.65	1	SPT(c)	1/1,1 N=2						
1.20-1.70	2	B				MADE GROUND: Dark brown to brown clayey gravelly fine to coarse SAND with a low cobble content. Sand is fine to coarse quartz. Gravel is well rounded to angular fine to coarse brick, concrete mortar coal ash and clinker. Cobbles are subangular cubic whole bricks and subangular concrete. Occasional pockets of clay.			
1.50	3	ES	J+V+T						
1.50		PID	0.0ppm						
1.90	1	D							
2.00-2.45	2	SPT(c)	1,1/1,1 N=2						
2.00-2.50	3	B							
2.00	4	ES	J+V+T						
2.50	5	ES	J+V+T						
2.50		PID	0.0ppm						
2.70	2	D							
3.00-3.45	3	SPT(c)	1,1/1,1,1 N=3						
3.00-3.50	4	B							
3.00	6	ES	J+V+T						
3.00		PID	0.0ppm						
3.50	7	ES	J+V+T						
3.70	3	D					14.62	4.10	
4.00-4.45	4	SPT(c)	5,5/7,7,6,8 N=28			Medium dense light brown slightly silty slightly sandy subrounded to subangular medium to coarse GRAVEL of flint. Sand is medium and coarse quartz. (HACKNEY GRAVEL)			
4.00-4.50	5	B							
4.00	8	ES	J+V+T						
4.00		PID	0.0ppm						
4.50	9	ES	J+V			Firm becoming stiff with depth medium strength light orangish brown mottled bluish grey fissured slightly sandy silty CLAY. Sand is fine quartz. With occasional relict roots. (LONDON CLAY FORMATION)			
4.50		PID	0.0ppm						
4.70	4	D							
4.90	5	D							
5.00-5.45	5	SPT	2,2/2,3,2,2 N=9						
5.00	10	ES	J+V						
5.00		PID	0.0ppm						
6.00	6	D							
6.00	11	ES	J+V						
6.00		PID	0.0ppm						
6.50-6.95	1	U	50 blows 100% recovery				12.02	6.70	
7.00	7	D							
7.00	12	ES	J+V			Stiff high strength dark greyish brown very closely spaced silty CLAY. With possible selenite crystals. (LONDON CLAY FORMATION)			
7.50	8	D							
8.00-8.45	6	SPT	3,3/4,5,5,6 N=20						
8.00	13	ES	J+V						
8.00		PID	0.0ppm						
									(4.30)

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
29/11/16	17:00	10.00	5.50	250	Dry				
29/11/16	08:30	11.00	10.50	250	11.00				
29/11/16	17:00	25.00	25.00	250	Dry				
01/12/16	10:30	27.50	25.00	200	27.50				
01/12/16	17:00	40.00	29.00	150					

All dimensions in metres		Scale: 1:50
Method Used: Inspection pit + Cable percussion	Plant Used: Dando 2000	Drilled By: DH
Logged By: JTownsend		Checked By: ST

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06_017 PrtVersion: v8_06_017 Core+Logs - 002 | Log Cable Percussion Log - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06_017
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH19
Contract Ref: 28549	Start: 29.11.16 End: 02.12.16	Ground Level: 18.72	National Grid Co-ordinate: E:530906.5 N:182329.4	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend				
Depth	No	Type	Results										
9.00	9	D				Stiff high strength dark greyish brown very closely spaced silty CLAY. With possible selenite crystals. (LONDON CLAY FORMATION) <i>(stratum copied from 6.70m from previous sheet)</i>							
9.00	14	ES	J+V										
9.50-9.95	2	U	55 blows 100% recovery										
10.00	10	D											
10.00	15	ES	J+V										
10.50	11	D											
11.00-11.50	6	B											
11.00-11.45	7	SPT(c)	7,8/9,11,11,14 N=45										
									7.72	11.00			
									7.22	11.50	Recovery of flat sub-angular coarse GRAVEL and COBBLES of medium strong to strong MUDSTONE.	(0.50)	
											Light brown sandy subangular fine to medium GRAVEL of flint. Sand is fine to coarse quartz. (HARWICH FORMATION)	(1.00)	
12.00	12	D							6.22	12.50			
12.50-12.95	8	SPT	3,4/4,5,5,6 N=20								Stiff becoming very stiff with depth high to very high strength dark greyish brown very closely spaced silty CLAY. With rare Relict roots and possible selenite crystals. (HARWICH FORMATION)		
13.00	16	ES	J+V										
13.50	13	D											
14.00-14.45	3	U	60 blows 0% recovery										
14.00-14.50	7	B											
15.00	14	D											
15.50-15.95	9	SPT	4,5/5,7,6,7 N=25										
16.00	17	ES	J+V										
16.00	PID		0.0ppm										
16.50	15	D											
17.00-17.45	4	U	60 blows 100% recovery										
17.50	16	D											

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
									4. Borehole drilled in following diameters: 25.0m bgl in 250mm; 32.0m bgl in 200mm; 40.0m bgl in 150mm casing to 5.5m bgl in 250mm; 29.0m bgl in 200mm diameter. 5. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0 and 5.0mbgl. Pipe 2 - 50mm HDPE response zone
All dimensions in metres								Scale:	1:50
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 2000		Drilled By:	DH		Logged By: JTownsend Checked By: ST





BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH19
Contract Ref: 28549	Start: 29.11.16 End: 02.12.16	Ground Level: 18.72	National Grid Co-ordinate: E:530906.5 N:182329.4	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
18.00	17	D				Stiff becoming very stiff with depth high to very high strength dark greyish brown very closely spaced silty CLAY. With rare Relict roots and possible selenite crystals. (HARWICH FORMATION) <i>(stratum copied from 12.50m from previous sheet)</i>				
18.50-18.95	10	SPT	5,5/7,7,7,9 N=30							
19.00	18	ES	J+V							
19.50	18	D				Very stiff very high strength light orangish brown mottled light bluish grey fissured silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)	-0.68	19.40		
20.00-20.45	5	U	65 blows 100% recovery							
20.00	19	ES	J+V							
20.00	19	PID	0.0ppm							
20.50	19	D								
21.00	20	D								
21.50-21.93	11	SPT	7,5/10,10,17,13 for 54mm N=54*							
21.50	21	D								
23.00-23.45	6	U	70 blows 100% recovery					(7.10)		
23.50	22	D								
24.00	23	D								
25.00	20	ES	J+V							
25.00	20	PID	0.0ppm							
25.50	24	D								
26.00-26.45	7	U	75 blows 100% recovery							
26.50	25	D					-7.78	26.50		
						<i>Description on next sheet</i>				
								(1.00)		

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									11.0m to 15m bgl. Pipe 3 - 33mm PVC response zone 27.0m to 28.0m bgl. 6. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 5.0mbgl; 11.0m to 15.0m bgl and 27.0m to 28.0m bgl; sand filter from 0.8m to 1.0m bgl; 10.5m to 11.0m bgl & bentonite seal/grouting between 0.2m and 0.8m				
								All dimensions in metres	Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	DH	Logged By:	JTownsend	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH19
Contract Ref: 28549	Start: 29.11.16 End: 02.12.16	Ground Level: 18.72	National Grid Co-ordinate: E:530906.5 N:182329.4	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.00	26	D				Very stiff very high to extremely high strength dark brownish grey laminated silty CLAY with closely spaced thin laminations of lignitic and shelly material. (LAMBETH GROUP - LAMINATED BEDS) <i>(stratum copied from 26.50m from previous sheet)</i>	-8.78	27.50	
27.50-27.94	13	SPT	7,8/12,12,14,12 for 60mm N=53*				Very stiff light bluish grey mottled orangish brown fissured slightly sandy silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)		
28.50	27	D				Very stiff very high to extremely high strength light bluish grey mottled light orangish brown fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)	-9.78	28.50	
29.00-29.45	8	U	85 blows 100% recovery						
29.50	28	D						(3.50)	
30.00	21	ES	J+V						
30.00	29	D	0.0ppm						
30.00		PID							
30.50-30.65	14	SPT	25/37,13 for 25mm N=150*						
31.50	30	D							
32.00-32.18	15	SPT	23,2/37,13 for 25mm N=150*			Very dense light greyish brown slightly silty fine SAND. (THANET SAND FORMATION)	-13.28	32.00	
33.00	31	D							
33.50-33.63	16	SPT	25/50 for 75mm N=200*						
34.50	32	D							
35.00-35.13	17	SPT	25/50 for 50mm N=300*						
35.00	22	ES	J+V						
35.00		PID	0.0ppm						(8.00)

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks						
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)							
									bgl; 5.0m to 10.5m bgl; 15.0m to 27.0m bgl and 28.0m to 30.0m bgl with compacted backfill (sand/clay) from 30m bgl to base of borehole and installation of flush cover. 7. PID = Photo ionisation detector with 10.6eV bulb 8. Groundwater strike (small to medium flow)						
						All dimensions in metres				Scale: 1:50					
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	DH		Logged By:	JTownsend		Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH19
Contract Ref: 28549	Start: 29.11.16 End: 02.12.16	Ground Level: 18.72	National Grid Co-ordinate: E:530906.5 N:182329.4	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
36.00	33	D			Water	Very dense light greyish brown slightly silty fine SAND. (THANET SAND FORMATION) <i>(stratum copied from 32.00m from previous sheet)</i>			Material Graphic Legend
36.50-36.60	18	SPT	25/50 for 50mm N=300*						
37.50	34	D							
38.00-38.15	19	SPT	25/50 for 70mm N=214*						
39.00	35	D							
39.50-39.61	20	SPT	25/50 for 50mm N=300*						
40.00	23	ES	J+V			Borehole completed at 40.0m bgl.			
40.00	36	D							
40.00		PID	0.0ppm						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)				
									observed by driller at 11.0m bgl rising to 9.4m bgl after 20 mins sealed out at 12.5m bgl. 9. Small seepage observed by driller at 27.5m bgl. 10. 200L water added to the borehole to drill the Thanet Sand.			
Method Used: Inspection pit + Cable percussion						Plant Used: Dando 2000			Drilled By: DH	Logged By: JTownsend	Checked By: ST	
									All dimensions in metres		Scale: 1:50	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH20
Contract Ref: 28549	Start: 08.11.16 End: 16.11.16	Ground Level: 17.17	National Grid Co-ordinate: E:530946.8 N:182312.9	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Concrete.	17.07	0.10	
						MADE GROUND*: Light brown gravelly SAND with low cobble content. Sand is medium to coarse. Gravel is fine to coarse subrounded to angular concrete flint and gravel. Cobbles are subangular to angular concrete and bricks.	16.52	0.65	
						MADE GROUND*: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint bricks concrete with occasional ash and clinker.		(0.95)	
						MADE GROUND*: Brown to dark brown slightly sandy slightly gravelly CLAY with occasional pockets of organic clay. (Possibly reworked Alluvium)	15.57	1.60	
								(1.50)	
						MADE GROUND*: Dark grey slightly clayey gravelly SILT with mild organic odour. Gravel is fine to medium subrounded to angular flint. (Possibly reworked Alluvium)	14.07	3.10	
							13.87	3.30	
						MADE GROUND*: Dark greenish grey to orange slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint bricks with occasional chalk fragments.	13.57	3.60	
						MADE GROUND: Dark brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse flint, brick and concrete. Cobbles are subangular up to 150mm in diameter concrete. With occasional ash and clinker.		(2.40)	
4.00	1	ES							
4.00		PID	0.1ppm						
4.01-4.46	1	SPT(c)	2,4/7,6,7,7 N=27						
4.01-4.45	1	B							
4.50	2	ES							
4.50		PID	0.2ppm						
5.00-5.45	1	U	52 blows 100% recovery						
5.00	3	ES							
5.00		PID	0.1ppm						
6.00-6.45	2	SPT	1,3/3,5,5,5 N=18						
6.00	4	ES							
6.00		PID	0.0ppm						
6.01-6.45	2	B							
7.00-7.45	2	U	57 blows 100% recovery						
7.00	5	ES							
7.00		PID	0.3ppm						
7.45	3	D							
8.00-8.45	3	SPT	5,6/6,7,6,6 N=25						
8.00-8.45	4	B							
8.00	6	ES							
8.00		PID	0.0ppm						
						Light orangish brown to dark brown silty sandy clayey fine to coarse GRAVEL. Sand is fine to coarse. Gravel is rounded to subangular fine to coarse Flint. (Alluvium)		(1.00)	
							10.17	7.00	
						Firm to stiff medium to high strength dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION)			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
08/11/16	17:18	10.00	10.00	250					
09/11/16	18:19	26.00	10.00	200					
10/11/16	17:30	29.00	26.00	200					
11/11/16	12:22	29.00	26.00	200					
14/11/16	16:24	33.00	33.00	200					
15/11/16	12:25	40.00	33.00	150	Dry				

1. *Borehole progressed through machine excavated trial pit TP1 excavated by JCB to 3.5m bgl.
 2. Sampling commenced from 3.5m bgl.
 3. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 4. Borehole drilled in following diameters: 25.0m

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 2000	Drilled By: MW	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH20
Contract Ref: 28549	Start: 08.11.16 End: 16.11.16	Ground Level: 17.17	National Grid Co-ordinate: E:530946.8 N:182312.9	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
9.00-9.45	3	U	39 blows 100% recovery			Firm to stiff medium to high strength dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION) <i>(stratum copied from 7.00m from previous sheet)</i>				
9.00	7	ES PID	0.0ppm							
10.00-10.45	4	SPT	4,6/6,8,9,9 N=32							
10.00-10.45	5	B								
10.00	8	ES PID	0.0ppm							
11.00-11.45	4	U	39 blows 100% recovery					(8.00)		
12.00-12.45	5	SPT	3,5/7,7,7,7 N=28							
12.00-12.45	6	B								
13.00-13.45	5	U	41 blows 100% recovery							
13.00	9	ES PID	0.0ppm							
14.00-14.45	6	SPT	4,4/6,4,8,7 N=25							
14.00	7	B								
15.00-15.45	6	U	57 blows 100% recovery				Stiff high to very high strength light bluish grey and brown closely spaced fissured silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)	2.17	15.00	
16.00-16.45	7	SPT	6,5/8,9,9,9 N=35							
16.00	10	ES								
16.00	8	B								
16.00		PID	0.0ppm							
17.00-17.45	7	U	60 blows 100% recovery							

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)						
									bgl in 250mm; 40.0m bgl in 200mm casing to 10.0m bgl in 250mm; 33.0m bgl in 200mm diameter. 5. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 4.0 and 7.5m bgl. Pipe 2 - 33mm PVC response zone 32.5m to 38.5m bgl.					
All dimensions in metres									Scale:	1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	MW		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH20
Contract Ref: 28549	Start: 08.11.16 End: 16.11.16	Ground Level: 17.17	National Grid Co-ordinate: E:530946.8 N:182312.9	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
18.00-18.45	8	SPT	3,5/7,7,10,10 N=34			Stiff high to very high strength light bluish grey and brown closely spaced fissured silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS) (stratum copied from 15.00m from previous sheet) ... At 18.0 m bgl red mottling.			
18.00	9	B					(7.00)		
19.00-19.45	8	U	58 blows 100% recovery						
19.00	11	ES PID	0.0ppm						
20.00-20.45	9	SPT	4,4/6,7,9,9 N=31						
20.00	10	B							
20.00	12	ES PID	0.0ppm						
21.00-21.45	9	U	70 blows 100% recovery						
22.00-22.45	10	SPT	5,7/8,8,9,10 N=35			Stiff to very stiff very high strength dark grey and light grey fissured silty CLAY. With partings of light grey sand and occasional laminations of lignitic material. (LAMBETH GROUP - LAMINATED BEDS)	-4.83	22.00	
22.00	11	B							
23.00-23.45	10	U	53 blows 100% recovery						
24.00-24.45	11	SPT	5,6/4,9,9,11 N=33			Stiff to very stiff very high strength light grey mottled dark yellowish brown closely spaced fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)	-7.28	24.45	
24.00	12	B							
25.00-25.45	11	U	54 blows 100% recovery						
25.00	13	ES PID	0.0ppm						
25.00									
26.00-26.45	12	SPT	5,7/7,9,11,10 N=37						
26.00	13	B							
									(4.45)

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									6. Borehole backfilled with 3mm shingle gravel filter between 4.0m to 7.5m bgl; 32.5m to 38.5m bgl; sand filter from 3.5m to 4.0m bgl & bentonite seal/grouting between 0.2m and 3.5m bgl; 7.5m to 10.0m bgl; 28.0m to 32.50m with compacted backfill (sand/clay) from 38.5m bgl to base of borehole and installation of flush cover. All dimensions in metres Scale: 1:50				
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 2000		Drilled By:	MW			Logged By:	JBarron	Checked By:	ST



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH20
Contract Ref: 28549	Start: 08.11.16 End: 16.11.16	Ground Level: 17.17	National Grid Co-ordinate: E:530946.8 N:182312.9	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.00-27.45	12	U	63 blows 100% recovery			Stiff to very stiff very high strength light grey mottled dark yellowish brown closely spaced fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS) <i>(stratum copied from 24.45m from previous sheet)</i>			
28.00-28.45	13	SPT	4,4/7,7,9,9 N=32			... At 28.0m bgl grey and slightly sandy. Sand is fine.			
28.00	14	B					-11.73	28.90	
29.00-29.45	13	U	120 blows 100% recovery			Stiff to very stiff very high strength green mottled light brownish yellow fine sandy silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)		(2.10)	
30.00	14	ES							
30.00	15	B							
30.00		PID	0.0ppm						
30.01-30.46	14	SPT	7,9/9,12,13,13 N=47				-13.83	31.00	
31.00-31.45	14	U	81 blows 100% recovery			Stiff to very stiff extremely high strength grey sandy gravelly CLAY. Sand is fine to medium. Gravel is rounded flat fine to coarse of black pebbles. (LAMBETH GROUP - UPNOR FORMATION)		(1.30)	
32.00-32.11	15	SPT	25/50 for 50mm N=300*				-15.13	32.30	
32.00-32.45	16	B				Very dense grey silty fine SAND. (THANET SAND FORMATION)			
33.00-33.03	16	SPT(c)	25/50 for 24mm N=625*						
33.00-33.45	17	B							
34.00-34.04	17	SPT(c)	25/50 for 22mm N=682*						
34.00-34.45	18	B							
35.00	15	ES							
35.00-35.02	18	SPT(c)	25/50 for 13mm N=1154*					(6.30)	
35.00-35.45	19	B							
35.00		PID	0.0ppm						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									7. PID = Photo ionisation detector with 10.6eV bulb 8. Groundwater strike not observed by the driller during drilling. 9. 400L water added to the borehole to drill the Thanet Sand.				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 2000		Drilled By:	MW		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH20
Contract Ref: 28549	Start: 08.11.16 End: 16.11.16	Ground Level: 17.17	National Grid Co-ordinate: E:530946.8 N:182312.9	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend				
Depth	No	Type	Results										
36.00-36.03	19	SPT(c)	25/50 for 16mm N=938*			Very dense grey silty fine SAND. (THANET SAND FORMATION) <i>(stratum copied from 32.30m from previous sheet)</i>							
36.00-36.45	20	B											
37.00-37.03	20	SPT(c)	25/50 for 21mm N=714*										
37.00-37.45	21	B											
38.00	16	ES											
38.00-38.18	21	SPT(c)	21,4/22,28 for 11mm N=174*							-21.43	38.60		
38.00-38.45	22	B					Recovery of sandy sub-angular medium to coarse GRAVEL of chalk and flint. (WHITE CHALK SUBGROUP)						
38.00		PID	0.0ppm										
39.00-39.26	22	SPT(c)	19,6/22,24,4 for 13mm N=92*									(1.40)	
39.00-39.45	23	B											
							-22.83	40.00					
Borehole completed at 40.0m bgl.													

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 2000		Drilled By:	MW	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH21	
Contract Ref: 28549		Start: 25.11.16 End: 02.12.16	Ground Level: 16.92	National Grid Co-ordinate: E:530933.0 N:182269.3	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.00-0.50	1	ES	J+V+T			MADE GROUND: Brownish grey sandy fine to coarse GRAVEL with a high cobble content. Sand is fine and coarse quartz. Gravel is subrounded to angular fine to coarse brick concrete flint, ceramics and slate. Cobbles are subangular brick and concrete.	16.22	0.70		
0.50		PID	0.0ppm							
1.00-1.95	2	ES PID	J+V+T 0.0ppm			MADE GROUND: Loose greyish brown gravelly clayey fine to coarse SAND with a low cobble content. Sand is fine and coarse quartz. Gravel is subrounded to angular fine to coarse brick concrete flint ceramics and slate. Cobbles are subangular brick and concrete.		(3.40)		
1.50-2.00	1	SPT(c)	1,1/1,2,1,1 N=5							
1.50-2.00	1	B	J+V+T							
1.50	3	ES	J+V+T							
1.50		PID	0.0ppm							
2.00	4	ES	J+V+T							
2.00		PID	0.0ppm							
2.20	2	D								
2.50-2.95	2	SPT(c)	1/1,2,2,2 N=7							
2.50-3.00	3	B	J+V+T							
2.50	5	ES	J+V+T							
2.50		PID	0.0ppm							
3.00	6	ES	J+V+T							
3.00		PID	0.0ppm							
3.20	4	D								
3.50-3.95	3	SPT(c)	1,1/1,2,2,1 N=6							
3.50-4.00	5	B	J+V+T							
3.50	7	ES	J+V+T							
3.50		PID	0.0ppm							
4.00	8	ES	J+V+T							
4.00		PID	0.0ppm							
4.10	6	D								
4.50-4.95	7	U	54 blows 100% recovery							
4.50	9	ES	J+V+T							
4.50		PID	0.0ppm							
4.90	8	D								
5.00	10	ES	J+V+T							
5.00		PID	0.0ppm							
5.20	9	D								
6.00-6.45	10	SPT	2,3/4,4,4,4 N=16							
6.00-6.50	11	B	J+V+T							
6.00	11	ES	J+V+T							
6.00		PID	0.0ppm							
7.00	12	D								
7.00	12	ES	J+V+T							
7.00		PID	0.0ppm							
7.50-7.95	13	U	65 blows 100% recovery							
7.90	14	D								
8.00	13	ES	J+V+T							
8.00		PID	0.0ppm							

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
25/11/16	12:10	3.00	3.00	250						
29/11/16	17:30	10.00	4.50	250						
30/11/16	11:30	15.00	15.00	200	15.00					
30/11/16	18:00	20.00	20.00	200						
01/12/16	17:30	28.50	28.50	200						
02/12/16	17:30	40.00	34.00	150						

1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 4.5m bgl in 250mm; 34.0m bgl in 200mm; 40.0m bgl in 150mm casing to 4.5m bgl in 250mm; 34.0m bgl in 200mm diameter.

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JBarron	Checked By: ST	
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH21
Contract Ref: 28549	Start: 25.11.16 End: 02.12.16	Ground Level: 16.92	National Grid Co-ordinate: E:530933.0 N:182269.3	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend					
Depth	No	Type	Results											
9.00	14	ES	J+V+T			Stiff high strength dark grey fissured silty CLAY. With possible selenite crystals. (LONDON CLAY FORMATION) <i>(stratum copied from 5.20m from previous sheet)</i>	(9.80)							
9.00-9.45	15	SPT	1,3/3,4,4,5 N=16											
9.00-9.50	16	B PID	0.0ppm											
10.00	15	ES	J+V+T											
10.00	17	D												
10.00		PID	0.0ppm											
10.50-10.95	18	U	71 blows 100% recovery											
10.90	19	D												
12.00-12.45	20	SPT	2,3/4,5,6,5 N=20											
12.00-12.50	21	B												
13.00	16	ES	J+V+T											
13.00	22	D												
13.00		PID	0.0ppm											
13.50-13.95	23	U	69 blows 100% recovery											
13.90	24	D												
15.00-15.45	4	SPT(c)	2,4/4,5,5,6 N=20											
15.00	25	D												
15.00-15.50	26	B												
16.00	17	ES	J+V+T											
16.00	27	D												
16.00		PID	0.0ppm											
16.50-16.95	5	SPT(c)	2,3/3,4,5,4 N=16											
16.50	28	D												
16.50-17.00	29	B												
17.50	30	D												
15.00-15.45	4	SPT(c)	2,4/4,5,5,6 N=20						↓	↓	Recovery of grey slightly silty sandy sub-angular and to sub-rounded fine to coarse GRAVEL of laminated slightly shelly MUDSTONE with frequent rounded medium to coarse black pebbles. (HARWICH FORMATION)	1.92	15.00	
15.00	25	D												
15.00-15.50	26	B												
16.00	17	ES	J+V+T											
16.00	27	D												
16.00		PID	0.0ppm											
16.50-16.95	5	SPT(c)	2,3/3,4,5,4 N=16											
16.50	28	D												
16.50-17.00	29	B												
17.50	30	D												
16.50-16.95	5	SPT(c)	2,3/3,4,5,4 N=16	↓	↓	Stiff to very stiff high to very high strength light brown and light bluish grey closely spaced fissured slightly sandy silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)	0.42	16.50						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
									4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0 and 4.5mbgl. Pipe 2 - 50mm HDPE response zone 14m to 18m bgl. 5. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 4.5m bgl & 14.0m to 18.0m bgl; sand filter from 0.8m to 1.0m bgl and
Method Used: Inspection pit + Cable percussion						Plant Used: Dando 3000			All dimensions in metres Scale: 1:50
Drilled By: MC						Logged By: JBarron			Checked By: ST





BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH21
Contract Ref: 28549	Start: 25.11.16 End: 02.12.16	Ground Level: 16.92	National Grid Co-ordinate: E:530933.0 N:182269.3	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
18.00-18.45	31	U	63 blows			Stiff to very stiff high to very high strength light brown and light bluish grey closely spaced fissured slightly sandy silty CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS) <i>(stratum copied from 16.50m from previous sheet)</i>			
18.00-18.50	32	B							
19.00	18	ES	J+V+T			Stiff to very stiff dark grey to black laminated slightly sandy silty CLAY with occasional lignitic laminations. (LAMBETH GROUP - LAMINATED BEDS)			
19.00	33	D							
19.00		PID	0.0ppm						
19.50-19.95	34	SPT	3,4/5,5,6,7 N=23					(6.60)	
19.50-20.00	35	B							
20.00	19	ES	J+V+T						
20.00		PID	0.0ppm						
20.50	36	D							
21.00-21.45	37	U	52 blows						
21.00-21.50	38	B							
21.90	39	D							
22.50-22.95	40	SPT	4,5/7,8,8,10 N=33						
22.50-23.00	41	B							
23.10	42	D					-6.18	23.10	
24.00	43	D							
24.00-24.45	44	U	66 blows			Very stiff very high strength light bluish grey mottled light pinkish red fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)			
24.40	45	D	100% recovery						
25.00	20	ES	J+V+T						
25.00		PID	0.0ppm						
25.50-25.95	44	SPT	6,7/8,8,11,12 N=39						
25.50-26.00	47	D							
							-10.08	27.00	

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									13.5m to 14.0m bgl & bentonite seal/grouting between 0.2m and 0.8m bgl; 4.5m to 13.5m bgl and 19.0m to 34.0m bgl with compacted backfill (sand) from 34m bgl to base of borehole and installation of flush cover. 6. PID = Photo ionisation detector with 10.6eV bulb				
All dimensions in metres									Scale:	1:50			
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH21
Contract Ref: 28549	Start: 25.11.16 End: 02.12.16	Ground Level: 16.92	National Grid Co-ordinate: E:530933.0 N:182269.3	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
36.00-36.07	66	SPT	25/50 for 29mm N=517*	Water	Backfill & Instrumentation	Very dense grey silty fine SAND. (THANET SAND FORMATION) <i>(stratum copied from 34.00m from previous sheet)</i>		(6.05)	Material Graphic Legend
36.00-36.50	67	D							
37.50-37.54	68	SPT	25/50 for 11mm N=1364*						
37.50-38.00	69	D							
38.50-38.58	70	SPT	25/50 for 55mm N=273*						
38.50	71	D							
40.00	23	ES	J+V+T						
40.00-40.05	72	SPT	25/50 for 33mm N=455* 0.0ppm						
40.00		PID							

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH22	
Contract Ref: 28549		Start: 17.10.16 End: 21.10.16	Ground Level: 11.89	National Grid Co-ordinate: E:531009.5 N:182200.0	Sheet: 1 of 4

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.00-1.20	1	B				<p>MADE GROUND: Dark reddish brown clayey very gravelly fine to coarse SAND with a low cobble content. Sand is fine and coarse quartz. Gravel is subrounded to subangular fine and coarse flint. Cobbles are subangular brick and concrete fragments.</p>			
0.50	1	ES	J+V+T						
1.00	2	ES	J+V+T						
1.00		PID	0.2ppm						
1.20	2	D							
1.50-1.61	1	SPT(c)	18,7/50 for 30mm N=500*						
1.50-2.00	3	B							
1.50		PID	0.2ppm						
1.50	3	ES	J+V+T						
2.00	4	ES	J+V+T						
2.00		PID	0.4ppm						
2.20	4	D							
2.50-2.55	2	SPT(c)	25/50 for 19mm N=789*						
2.50-3.00	5	B							
2.50		PID	0.1ppm						
2.50	5	ES	J+V+T						
3.00	6	ES	J+V+T						
3.00		PID	0.2ppm						
3.20	6	D							
3.30-3.50	7	B							
3.50-3.95	3	SPT(c)	7,9/3,4,4,4 N=15						
3.50		PID	0.2ppm						
3.70	8	D							
3.70-4.00	9	B							
4.00	7	ES	J+V+T						
4.00		PID	0.6ppm						
4.20	10	D							
4.50	8	ES	J+V+T						
4.50-4.95	11	U	34 blows 100% recovery						
4.50		PID	0.1ppm						
4.90	12	D							
5.00	9	ES	J+V+T						
5.00	13	D							
5.00		PID	0.3ppm						
6.00	10	ES	J+V+T						
6.00-6.45	14	SPT	3,4/5,4,5,6 N=20						
6.00-6.50	15	B							
6.00		PID	0.2ppm						
7.00	11	ES	J+V+T						
7.00	16	D							
7.00		PID	0.1ppm						
7.50-7.95	17	U	42 blows						
7.50-8.00	18	B							
8.00	12	ES	J+V+T						
8.00		PID	0.0ppm						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
17/10/16	10:33	3.70	3.00	250	3.70	35.00	35.00	02:00	
17/10/16	17:30	6.00	6.00	250	Dry				
18/10/16	07:33	6.00	6.00	250	3.10				
18/10/16	17:36	21.60	21.60	250	Dry				
19/10/16	07:37	21.60	21.60	250	5.40				
19/10/16	17:00	27.00	27.00	250	Dry				
20/10/16	17:39	34.00	34.00	200	Dry				
21/10/16	16:41	35.00	35.00	200	Dry				

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JTownsend	Checked By:
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1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 27.0m bgl in 250mm; 35.0m bgl in 200mm casing to 9.0m bgl in 250mm; 34.0m bgl in 200mm diameter.



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH22
Contract Ref: 28549	Start: 17.10.16 End: 21.10.16	Ground Level: 11.89	National Grid Co-ordinate: E:531009.5 N:182200.0	Sheet: 4 of 4

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend																																																						
Depth	No	Type	Results																																																												
27.00-27.26	6	SPT(c)	10,13/25,25 for 39mm	Water	Backfill & Instrumentation	Very dense dark greyish green slightly sandy medium to coarse GRAVEL. Sand is fine to coarse quartz gravel is well rounded medium to coarse flint. (LAMBETH GROUP - UPNOR FORMATION) <i>(stratum copied from 26.20m from previous sheet)</i>	-15.91	27.80	GRAVEL																																																						
27.00-27.50	56	LB																																																													
27.80	57	D				Water	Backfill & Instrumentation	Very dense grey slightly silty fine SAND. (THANET SAND FORMATION)			SAND																																																				
28.50-28.71	58	SPT	19,6/29,21 for 45mm																																																												
28.50-29.00	59	B						Water	Backfill & Instrumentation				SAND																																																		
29.50	60	D																																																													
30.00-30.07	61	SPT	25/50 for 37mm											Water	Backfill & Instrumentation				SAND																																												
30.00-30.50	62	LB																																																													
31.00	63	D																		Water	Backfill & Instrumentation				SAND																																						
31.50-31.63	64	SPT	22,3/50 for 55mm																																																												
31.50-32.00	65	LB																								Water	Backfill & Instrumentation				SAND																																
32.50	66	D																																																													
33.00-33.05	67	SPT	25/50 for 31mm																													Water	Backfill & Instrumentation				SAND																										
33.00-33.50	68	LB																																																													
34.00	69	LB																																				Water	Backfill & Instrumentation				SAND																				
34.50-34.59	70	SPT	25/50 for 39mm																																																												
34.50-35.00	71	B																																										Water	Backfill & Instrumentation				SAND														
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH23	
Contract Ref: 28549		Start: 02.11.16 End: 09.11.16	Ground Level: 14.01	National Grid Co-ordinate: E:531043.8 N:182212.8	Sheet: 1 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: CONCRETE.	13.93	0.08	
0.40	1	ES PID	T+J+V 0.0ppm			MADE GROUND: Dark reddish brown silty gravelly fine to coarse SAND. Sand is fine and coarse quartz. Gravel is subrounded to subangular fine to coarse flint with frequent brick, concrete and lead with rare whole bricks.			
0.40									
0.80	2	ES PID	T+J+V 0.0ppm						
0.80									
1.50-1.95	1	SPT(c)	1,1/1,1,1 N=3						
1.50	3	ES PID	T+J+V 0.0ppm						
1.50									
1.50-2.00	1	B							
2.00	4	ES PID	T+J+V 8.0ppm						
2.00									
2.20	2	D							
2.50-2.95	2	SPT(c)	1/1,1,1,1 N=4						
2.50	5	ES PID	T+J+V 0.0ppm						
2.50									
2.53-3.00	3	B							
3.00	6	ES PID	T+J+V 0.0ppm						
3.00									
3.20	4	D							
3.50-3.95	3	SPT(c)	1/1,1,1,1 N=3						
3.50-4.00	5	B							
3.50	7	ES PID	T+J+V 0.0ppm			MADE GROUND: Soft light brown to black slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse quartz. Gravel is subrounded to angular medium to coarse flint brick and concrete. Weak organic odour.	9.81	4.20	
3.50									
4.00	8	ES PID	T+J+V 0.0ppm						
4.00									
4.20	6	D							
4.50-4.95	4	SPT(c)	1,1/2,1,2,1 N=6						
4.50-5.00	7	B							
4.50	9	ES PID	T+J+V 0.0ppm						
4.50									
5.00	10	ES PID	T+J+V 0.0ppm			Firm medium strength light orangish brown mottled bluish grey slightly sandy silty CLAY. With occasional relict roots. (LONDON CLAY FORMATION)			
5.00									
5.20	8	D							
5.50	9	D							
6.00-6.45	10	U	72 blows 100% recovery						
6.00	11	ES PID	T+J+V 0.0ppm						
6.00									
6.40	11	D							
7.00	12	ES PID	T+J+V 0.0ppm			Firm to stiff medium strength brownish grey extremely closely spaced fissured silty CLAY. With rare Relict roots and possible selenite crystals. (LONDON CLAY FORMATION)			
7.00									
7.01	12	D							
7.50-7.95	13	SPT	2,3/3,4,4,4 N=15						
7.50-8.00	14	B							
8.00	13	ES PID	T+J+V 0.0ppm						
8.00									
8.50	15	D							

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
02/11/16	18:00	12.00	12.00	250	Dry					
03/11/16	08:10	12.00	12.00	250	Dry					
03/11/16	18:00	17.00	17.00	250	Dry					
07/11/16	07:30	17.00	17.00	250	Dry					
07/11/16	17:45	24.00	24.00	200	Dry					
08/11/16	18:00	33.00	33.00	150	Dry					
09/11/16	17:45	40.00	33.00	150	Dry					

1. Hand dug inspection pit to 1.20m bgl.
 2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.
 3. Borehole drilled in following diameters: 20.0m bgl in 250mm; 27.0m bgl in 200mm; 40m bgl in 150mm diameter casing to 9.0m bgl in 250mm; 27.0m bgl in 200mm and 33.0m bgl in 150mm

All dimensions in metres Scale: **1:50**

Method Used: Inspection pit + Cable percussion	Plant Used: Dando 3000	Drilled By: MC	Logged By: JBarron	Checked By: ST	
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GINT_LIBRARY_V8_06.GLB LibVersion: v8_06 - Core+Logs - 002 | Log Cable Percussion Log - A4P | 28549_MOUNT PLEASANT.GPJ - v8_06.
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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH23
Contract Ref: 28549	Start: 02.11.16 End: 09.11.16	Ground Level: 14.01	National Grid Co-ordinate: E:531043.8 N:182212.8	Sheet: 2 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend						
Depth	No	Type	Results												
9.00	14	ES	T+J+V	Water	Backfill & Instrumentation	Firm to stiff medium strength brownish grey extremely closely spaced fissured silty CLAY. With rare Relict roots and possible selenite crystals. (LONDON CLAY FORMATION) <i>(stratum copied from 7.00m from previous sheet)</i>			Material Graphic Legend						
9.00-9.45	16	U	86 blows 100% recovery												
9.00		PID	0.0ppm												
9.40	17	D													
10.00	15	ES	T+J+V												
10.00		PID	0.0ppm												
10.50-10.95	18	SPT	3,3/4,5,5,6 N=20												
10.50	19	D													
10.50-11.00	20	B													
11.50	21	D													
12.00-12.45	22	U	58 blows 100% recovery												
12.40	23	D													
13.00	16	ES	T+J+V												
13.00		PID	0.0ppm												
13.50-13.95	24	SPT	2,3/4,5,6,6 N=21												
13.50-14.00	25	B													
14.50	26	D													
15.00-15.45	27	U	69 blows 100% recovery												
15.40	28	D													
16.00	17	ES	T+J+V												
16.00		PID	0.0ppm												
16.50-16.95	29	SPT	3,5/6,6,7,7 N=26												
16.50-17.00	30	B													
17.10	31	D													
												Medium dense light greenish brown slightly clayey silty fine SAND. (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)	-3.09	17.10	Material Graphic Legend

GINT_LIBRARY_V8_06.GLB LibVersion: v8_06_017 PrjVersion: v8_06 - Core+Logs - 002 | Log Cable Percussion Log - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									diameter. 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 3.0 and 6.0m bgl. Pipe 2 - 33mm HDPE with 19mm piezo adapter 19mm piezometer tip installed at 24.8m bgl. 5. Borehole backfilled with 3mm shingle gravel				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH23	
Contract Ref: 28549		Start: 02.11.16 End: 09.11.16	Ground Level: 14.01	National Grid Co-ordinate: E:531043.8 N:182212.8	Sheet: 3 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
18.00-18.45	32	SPT	3,4/4,5,4,5 N=18			Medium dense light greenish brown slightly clayey silty fine SAND. (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL) <i>(stratum copied from 17.10m from previous sheet)</i>		(2.40)	
18.00-18.50	33	B							
19.00	18	ES	T+J+V				-5.49	19.50	
19.00		PID	0.0ppm						
19.00		PID	0.0ppm						
19.50	34	D							
19.50-19.95	35	U	100 blows 100% recovery			Very stiff very high strength light greyish brown extremely closely spaced fissured slightly sandy silty CLAY. Sand is fine to medium Quartz. With occasional shell fragments lignite and weak organic odour. (LAMBETH GROUP - LAMINATED BEDS)			
19.90	36	D							
20.00	19	ES	T+J+V						
20.00		PID	0.0ppm						
20.50-20.95	37	SPT	4,5/6,7,8,8 N=29						
20.50-21.00	38	B						(2.90)	
21.50	39	D							
22.00-22.45	40	U	150 blows 100% recovery				-8.39	22.40	
22.40	41	D				Stiff to very stiff bluish grey mottled reddish brown sandy very gravelly CLAY. Gravel is well rounded fine to coarse flint. (LAMBETH GROUP - UPNOR FORMATION)			
23.00	42	D						(1.10)	
23.00	42	D					-9.49	23.50	
23.50-23.75	5	SPT(c)	8,14/27,23 for 25mm N=150*			Very dense light brown to black slightly sandy fine to coarse GRAVEL. Sand is medium to coarse quartz. Gravel is well rounded fine to coarse flint. (LAMBETH GROUP - UPNOR FORMATION)			
23.50-24.00	43	B						(2.00)	
24.50	44	D							
25.00-25.20	6	SPT(c)	22,3/41,9 for 36mm N=135*				-11.49	25.50	
25.00	20	ES	T+J+V						
25.00-25.50	45	B				Stiff light brown to greenish brown slightly sandy gravelly CLAY. Sand is medium to coarse quartz. Gravel is well rounded to subangular fine and coarse Flint. (LAMBETH GROUP - UPNOR FORMATION)			
25.00		PID	0.0ppm						
25.50	46	D						(1.20)	
26.00-26.10	7	SPT(c)	25/38,12 for 10mm N=176*						
26.00-26.50	47	B							
26.00-26.50	47	B					-12.69	26.70	
26.70	48	D				<i>Description on next sheet</i>			

Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									filter between 3.0m to 6.0mbgl; sand filter from 2.5m to 3.0m bgl and 24.0m to 25.5m bgl & bentonite seal/grouting between 0.2m and 2.5m bgl; 6.0m to 8.0m bgl; 22.0m to 24.0m bgl and 25.5m to 27.5m bgl with compacted backfill (clay/sand) from 8.0m to 22.0m bgl and 27.5m bgl to base of borehole and installation of flush				
All dimensions in metres									Scale: 1:50				
Method Used:	Inspection pit + Cable percussion			Plant Used:	Dando 3000		Drilled By:	MC	Logged By:	JBarron	Checked By:	ST	

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BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH23
Contract Ref: 28549	Start: 02.11.16 End: 09.11.16	Ground Level: 14.01	National Grid Co-ordinate: E:531043.8 N:182212.8	Sheet: 4 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
27.00	49	D				Very dense dark greenish brown to light brown very gravelly slightly silty clayey fine to medium SAND. Gravel is rounded fine to medium flint. (LAMBETH GROUP - UPNOR FORMATION) <i>(stratum copied from 26.70m from previous sheet)</i>		(2.30)	
27.50-27.95	50	U	66 blows 100% recovery						
28.50	51	D			Becoming less sandy		-14.99	29.00	
29.00-29.11	52	SPT	25/50 for 70mm N=214*		Very dense light greenish brown silty SAND. Sand is fine to medium quartz. (THANET SAND FORMATION)				
29.00	53	D							
29.00-29.50	54	B							
30.00	21	ES	T+J+V						
30.00	55	D							
30.00		PID	0.0ppm						
30.50-30.58	56	SPT	25/50 for 44mm N=341*						
30.50-31.00	57	B							
31.50	58	D							
32.00-32.09	59	SPT	25/50 for 60mm N=250*						
32.00-32.50	60	B							
33.00	61	D						(8.50)	
33.50-33.56	62	SPT	25/50 for 45mm N=333*						
33.50-34.50	63	B							
34.50	64	D							
35.00	22	ES	T+J+V						
35.00-35.07	65	SPT	25/50 for 39mm N=385*						
35.00-35.50	66	B							
35.00		PID	0.0ppm						

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)					
									cover. 6. PID = Photo ionisation detector with 10.6eV bulb 7. No groundwater observed by the driller during drilling. 8. 300L water added to the borehole to drill the Thanet Sand.				
All dimensions in metres								Scale:	1:50				
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 3000		Drilled By:	MC		Logged By:	JBarron	Checked By:	ST	



BOREHOLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Borehole: BH23
Contract Ref: 28549	Start: 02.11.16 End: 09.11.16	Ground Level: 14.01	National Grid Co-ordinate: E:531043.8 N:182212.8	Sheet: 5 of 5

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
36.00	67	D			[Cross-hatched pattern]	Very dense light greenish brown silty SAND. Sand is fine to medium quartz. (THANET SAND FORMATION) (stratum copied from 29.00m from previous sheet) ... below 36.0m bgl grading into silty gravelly CLAY.			[Cross-hatched pattern]		
36.50-36.57	68	SPT	25/50 for 31mm N=484*								
36.50-37.00	69	B									
37.50	70	D				[Horizontal line pattern]	Recovery of dark greenish brown slightly clayey sandy fine to medium GRAVEL. Sand is fine to medium quartz. Gravel is subrounded to angular flint with Chalk. (WHITE CHALK SUBGROUP)	-23.49	37.50	[Horizontal line pattern]	
38.00-38.08	8	SPT(c)	25/50 for 50mm N=300*								
38.00-38.50	71	B									(2.75)
39.00	72	D									
39.50-39.54	9	SPT(c)	25/50 for 22mm N=682*								
39.50-40.00	73	B									
40.00-40.03	10	SPT(c)	25/50 for 25mm N=600*								
40.00		PID	0.0ppm								
40.01	23	ES	T+J+V								
Borehole completed at 40.0m bgl.											

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Boring Progress and Water Observations						Chiselling / Slow Progress			General Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)			
All dimensions in metres									Scale: 1:50		
Method Used:	Inspection pit + Cable percussion		Plant Used:	Dando 3000		Drilled By:	MC		Logged By: JBarron	Checked By: ST	



WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS13	
Contract Ref: 28549		Start: 04.10.16 End: 04.10.16	Ground Level: 16.97	National Grid Co-ordinate: E:530939.8 N:182262.0	Sheet: 1 of 1

Progress		Samples / Tests			Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
	0.15 0.15	ES1	ES PID	0.1ppm		MADE GROUND: Light brown very silty gravelly fine to medium SAND. Gravel is fine to medium subrounded to angular flint with occasional whole bricks concrete glass metal and ceramics.	15.97	(1.00)		
	0.50 0.50	ES2	ES PID	0.1ppm						
	1.00 1.00	ES3	ES PID	0.1ppm		MADE GROUND: Soft to firm light brown sandy slightly gravelly CLAY with rare roots and occasional pockets of SAND. Gravel is fine to coarse subrounded to angular flint with occasional brick concrete mortar and coal.		(1.60)		
	1.40 1.40	ES4	ES PID	0.1ppm						
	2.00 2.00	ES5	ES PID	0.1ppm			14.37	2.60		
	2.60 2.60	ES6	ES PID	0.1ppm		MADE GROUND: Dark brown to black slightly silty sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded flint with brick fragments.		(0.50)		
	3.00 3.00	ES7	ES PID	0.1ppm			13.87	3.10		
	3.20 3.20	ES8	ES PID	0.1ppm		Orange brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is fine subangular flint. (HACKNEY GRAVEL)	13.57	3.40		
	3.80 3.80	ES9	ES PID	0.1ppm		Bluish grey with orange brown mottling extremely closely spaced thinly laminated slightly silty CLAY. (LONDON CLAY FORMATION)		(0.60)		
						Terminated at 4.00m.	12.97	4.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Inspection pit hand dug to 1.2m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. 50mm diameter standpipe complete with flush protective cover installed on completion. Response zone 1.0m to 3.0m.	
All dimensions in metres						Scale:	1:31
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	???
						Logged By:	JTownsend
						Checked By:	





WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS14	
Contract Ref: 28549		Start: 04.10.16 End: 04.10.16	Ground Level: 16.28	National Grid Co-ordinate: E:530967.2 N:182262.9	Sheet: 1 of 1

Progress Window Run	Samples / Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
	Depth	No	Type	Results						
0.20 0.20	ES1	ES PID		0.1ppm		MADE GROUND: Light orange brown slightly silty gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with occasional brick fragments concrete slate metal and with AND whole bricks and cobbles or igneous rock aggregate.	15.68	(0.60)	[Cross-hatched pattern]	
0.50 0.50	ES2	ES PID		0.1ppm						
1.00 1.00	ES3	ES PID		0.1ppm	(1.80)					
1.50 1.50	ES4	ES PID		0.1ppm						
2.00 2.00	ES5	ES PID		0.1ppm	13.88		2.40			
2.70 2.70	ES6	ES PID		0.1ppm						
3.20 3.20	ES7	ES PID		0.1ppm	(2.30)					
3.80 3.80	ES8	ES PID		0.1ppm						
4.30 4.30	ES9	ES PID		0.1ppm						
4.70 4.70	ES10	ES PID		0.1ppm	11.58		4.70			
						MADE GROUND: Dark brown to black slightly silty sandy slightly gravelly CLAY. Gravel is fine subangular flint with occasional brick concrete and coal.				
						MADE GROUND: Light brown slightly silty slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular flint with occasional brick and concrete.	11.28	5.00		
Terminated at 5.00m.										

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Inspection pit hand dug to 1.2m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.	
All dimensions in metres						Scale:	1:31
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	???
						Logged By:	JTownsend
						Checked By:	





WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS15	
Contract Ref: 28549		Start: 03.10.16 End: 03.10.16	Ground Level: 14.16	National Grid Co-ordinate: E:531027.5 N:182228.4	Sheet: 1 of 1

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Reduced Level	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results					
0.20 0.20	ES1	ES PID		0.1ppm		MADE GROUND: Light brown silty gravelly fine to coarse SAND with frequent whole bricks. Gravel is fine to coarse subrounded to subangular flint with occasional brick fragments and concrete.		(1.20)	
0.50 0.50	ES2	ES PID		0.1ppm			12.96	1.20	
1.20 1.20	ES3	ES PID		0.1ppm		MADE GROUND: Dark brown to black slightly silty slightly gravelly fine to medium SAND with frequent wood fibers and paper. Gravel is fine to medium subangular to rounded flint with occasional brick concrete and ash.		(1.20)	
1.60 1.60	ES4	ES PID		0.1ppm					
2.00 2.00	ES5	ES PID		0.1ppm			11.76	2.40	
2.50 2.50	ES6	ES PID		0.1ppm		MADE GROUND: Off cream to white slightly silty slightly sandy GRAVEL. Gravel is fine to medium subrounded to subangular flint with occasional concrete and mortar.	11.46	2.70	
3.00 3.00	ES7	ES PID		0.1ppm		MADE GROUND: Dark brown to black slightly sandy slightly gravelly CLAY with rare brick fragments. Gravel is fine to coarse subangular to rounded flint with occasional brick concrete and mortar.		(0.90)	
3.50 3.50	ES8	ES PID		0.1ppm			10.56	3.60	
4.00 4.00	ES9	ES PID		0.1ppm		MADE GROUND: Dark brown to black slightly sandy slightly gravelly SILT. Gravel is fine subangular flint with rare brick fragment.		(0.90)	
4.40 4.40	ES10	ES PID		0.1ppm			9.66	4.50	
4.70 4.70	ES12	ES PID		0.1ppm			(0.50)		
4.80 4.80	ES11	ES PID		0.1ppm					
Terminated at 5.00m.									

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Inspection pit hand dug to 1.2m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. 50mm diameter standpipe complete with flush protective cover installed on completion. Response zone 1.0m to 4.0m.	
All dimensions in metres						Scale:	1:31
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	KDS
						Logged By:	JTownsend
						Checked By:	



WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS16	
Contract Ref: 28549		Start: 03.10.16 End: 03.10.16	Ground Level: 11.89	National Grid Co-ordinate: E:531003.4 N:182202.5	Sheet: 1 of 1

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Reduced Level	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results					
0.20 0.20	ES1	ES PID		0.1ppm		MADE GROUND: Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse flint, bricks, concrete with rare mix of wood and occasional ash and clinker. Occasional fragments of cement bound asbestos (~50mm x 40mm).	11.59	0.30	
						MADE GROUND: Black slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is fine to medium subrounded to subangular bricks, mortar and flint.	(0.60)		
0.80 0.80	ES2	ES PID		0.1ppm		MADE GROUND: Dark brown to black slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is rounded to angular flint bricks and mortar.	10.99	0.90	
						MADE GROUND: Brick orange to white very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks and mortar.	(0.50)		
1.70 1.70	ES3	ES PID		0.1ppm		MADE GROUND: Brown to light brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium bricks and mortar.	10.49	1.40	
						MADE GROUND: Dark grey to black with greenish grey slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded to angular bricks and flint.	(0.50)		
2.40 2.40	ES4	ES PID		0.1ppm		MADE GROUND: Reddish brown slightly silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint, bricks and mortar.	9.99	1.90	
						MADE GROUND: Black slightly silty SAND with mild organic odour. Sand is fine to coarse. Gravel is fine to medium bricks and flint.	(0.60)		
2.80 2.80	ES5	ES PID		0.1ppm		Dark greyish to black slightly sandy CLAY with varied amounts of greenish and grey sand. (ALLUVIUM)	9.39	2.50	
						Dark greenish grey mottling slightly sandy CLAY. (ALLUVIUM)	(0.80)		
4.00 4.00	ES6	ES PID		0.1ppm	Terminated at 5.00m.	8.59	3.30		
						(0.40)			
5.00 5.00	ES7	ES PID		0.1ppm		8.19	3.70		
						7.99	3.90		
						(0.80)			
						7.19	4.70		
						6.89	5.00		

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Drilling Progress and Water Observations						General Remarks	
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)		
						1. Concrete coring to 0.33m followed by an Inspection pit hand dug to 1.1m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. 50mm diameter standpipe complete with flush protective cover installed on completion. Response zone 0.5m to 1.0m.	
All dimensions in metres						Scale:	1:31
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	KDS
						Logged By:	JTownsend
						Checked By:	



WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS17	
Contract Ref: 28549		Start: 03.10.16	Ground Level: 14.39	National Grid Co-ordinate: E:530984.0 N:182224.5	Sheet: 1 of 1
		End: 03.10.16			

Progress Window Run	Samples / Tests				Water Backfill & Instru- mentation	Description of Strata	Reduced Level	Depth (Thick- ness)	Material Graphic Legend
	Depth	No	Type	Results					
						Concrete hard standing.	14.29	0.10	
	0.15 0.15	ES1	ES PID	0.1ppm		MADE GROUND: Light brown to dark brown silty gravelly fine to coarse SAND with rare cobble sized concrete and whole bricks. Gravel is fine to coarse subrounded to angular flint with occasional brick concrete and clinker.		(1.20)	
	0.60 0.60	ES2	ES PID	0.1ppm					
	1.20 1.20	ES3	ES PID	0.1ppm		MADE GROUND: Dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint with occasional brick fragments concrete ash and clinker.	13.09	1.30	
	1.50 1.50	ES4	ES PID	0.1ppm				(0.70)	
	1.90 1.90	ES5	ES PID	0.1ppm		MADE GROUND: Dark brown slightly silty gravelly fine to coarse SAND with occasional pockets of CLAY. Gravel is fine to medium subrounded to angular flint with occasional brick concrete and mortar.	12.39	2.00	
	2.50 2.50	ES6	ES PID	0.1ppm				(0.60)	
	3.00 3.00	ES7	ES PID	0.1ppm		MADE GROUND: Dark brown to black silty slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with occasional shell fragments.	11.79	2.60	
	3.50 3.50	ES8	ES PID	0.1ppm				(2.40)	
	4.00 4.00	ES9	ES PID	0.2ppm					
	4.40 4.40	ES10	ES PID	0.1ppm					
	4.90 4.90	ES11	ES PID	0.1ppm			9.39	5.00	
						Terminated at 5.00m.			

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Drilling Progress and Water Observations						General Remarks					
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)						
						1. Concrete coring to 0.10m followed by an Inspection pit hand dug to 1.2m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. 50mm diameter standpipe complete with flush protective cover installed on completion. Response zone 1.0m to 5.0m.					
						All dimensions in metres	Scale: 1:31				
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	KDS	Logged By:	JTownsend	Checked By:	



WINDOW SAMPLE LOG

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Window Sample: WS18	
Contract Ref: 28549		Start: 04.10.16 End: 04.10.16	Ground Level: 17.49	National Grid Co-ordinate: E:530938.4 N:182305.2	Sheet: 1 of 1

Progress		Samples / Tests			Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Window Run	Depth	No	Type	Results						
						Bituminous hard standing.	17.35	0.14		
	0.15 0.15	ES1	ES PID	0.1ppm		MADE GROUND: Light brown silty gravelly fine to coarse SAND. Gravel is fine to coarse subrounded to subangular flint with occasional brick concrete and mortar.		(0.76)		
	0.50 0.50	ES2	ES PID	0.1ppm				16.59	0.90	
	1.00 1.00	ES3	ES PID	0.1ppm		MADE GROUND: Light to dark brown slightly silty clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with occasional brick concrete and ash.		(1.30)		
	1.40 1.40	ES4	ES PID	0.1ppm						
	2.10 2.10	ES5	ES PID	0.1ppm		MADE GROUND: Dark reddish brown to blackish brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with frequent brick occasional concrete ash and coal.	15.29	2.20		
	2.90 2.90	ES6	ES PID	0.1ppm					(1.20)	
	3.20 3.20	ES7	ES PID	0.1ppm		MADE GROUND: Dark reddish brown to blackish brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with frequent brick occasional concrete ash and coal.	14.09	3.40		
	3.50 3.50	ES8	ES PID	0.1ppm					(0.40)	
						MADE GROUND: Reddish brown very sandy GRAVEL. Gravel is fine to coarse subangular flint.	13.69	3.80		
						MADE GROUND: Orange brown with bluish grey mottling extremely closely spaced thinly laminated slightly silty CLAY with rare relict roots with possible selenite crystals and mudstone.		(1.20)		
	4.50 4.50	ES9	ES PID	0.1ppm			12.49	5.00		
						Terminated at 5.00m.				

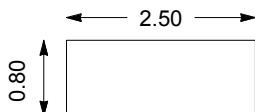

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Drilling Progress and Water Observations						General Remarks						
Date	Time	Borehole Depth (m)	Casing Depth (m)	Borehole Diameter (mm)	Water Depth (m)							
						1. Concrete coring to 0.14m followed by an Inspection pit hand dug to 1.2m depth. 2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer. 3. No groundwater encountered. 4. On completion, borehole backfilled with arisings.						
						All dimensions in metres	Scale: 1:31					
Method Used:	Tracked window sampling		Plant Used:	Archway Competitor		Drilled By:	???	Logged By:	JTownsend	Checked By:	ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP1	
Contract Ref: 28549	Start: 14.10.16 End: 14.10.16	Ground Level: 17.16	National Grid Co-ordinate: E:530946.3 N:182313.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.10 0.10	ES1	ES PID	0.1ppm			Bituminous hardstanding.	17.06	0.10	
0.50 0.50	ES2	ES PID	0.1ppm			MADE GROUND: Light brown gravelly SAND with low cobble content. Sand is medium to coarse. Gravel is fine to coarse subrounded to angular concrete flint and gravel. Cobbles are subangular to angular concrete and bricks.	16.51	0.65 (0.55)	
1.00 1.00	ES3	ES PID	0.1ppm			MADE GROUND: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint bricks concrete with occasional ash and clinker.		(0.95)	
1.50 1.50	ES4	ES PID	0.1ppm			MADE GROUND: Brown to dark brown slightly sandy slightly gravelly CLAY with occasional pockets of organic CLAY. (Possibly reworked Alluvium)	15.56	1.60	
2.00 2.00	ES5	ES PID	0.1ppm					(1.50)	
2.50 2.50	ES6	ES PID	0.1ppm						
3.00 3.00	ES7	ES PID	0.1ppm			MADE GROUND: Dark grey slightly clayey gravelly SILT with mild organic odour. Gravel is fine to medium subrounded to angular flint. (Possibly reworked Alluvium)	14.06	3.10	
3.50 3.50	ES8	ES PID	0.1ppm			MADE GROUND: Dark greenish grey to orange slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint bricks with occasional chalk fragments. Terminated at 3.60m.	13.86 13.56	3.30 3.60	

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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> Trial pit remained dry during excavation. On completion, trial pit backfilled with arisings and reinstated. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:31	
			

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP2	
Contract Ref: 28549	Start: 14.10.16 End: 14.10.16	Ground Level: 17.63	National Grid Co-ordinate: E:530917.1 N:182291.4	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						Concrete hardstanding.	17.48	0.15	
0.50	ES1	ES PID	0.1ppm			MADE GROUND: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is subrounded to angular flint bricks ash and clinker.	17.13	0.50	
0.50						MADE GROUND: Dark grey to black slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks flint ash clinker.		(0.90)	
1.00	ES2	ES PID	0.1ppm				16.23	1.40	
1.50	ES3	ES PID	0.1ppm			MADE GROUND: Greenish and yellowish grey slightly sandy slightly gravelly CLAY with dark grey to black inclusions. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint with brick.		(0.60)	
2.00	ES4	ES PID	0.1ppm			MADE GROUND: Light greenish grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint brick mortar and chalk.		(0.60)	
2.50	ES5	ES PID	0.1ppm			MADE GROUND: Dark grey to black slightly clayey slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is fine to medium rounded to angular flint and rare bricks.	15.03	2.60	
2.50								(0.40)	
3.00	ES6	ES PID	0.1ppm			Orange/red slightly sandy CLAY with grey mottling and occasional orange lenses. Grading into orange grey CLAY. (LONDON CLAY FORMATION)	14.63	3.00	
3.00								(0.60)	
3.50	ES7	ES PID	0.1ppm			Terminated at 3.60m.	14.03	3.60	
3.50									

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Plan (Not to Scale) 		General Remarks 1. Trial pit remained dry during excavation. 2. On completion, trial pit backfilled with arisings and reinstated.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:31	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP3	
Contract Ref: 28549	Start: 14.10.16 End: 14.10.16	Ground Level: 17.69	National Grid Co-ordinate: E:530939.6 N:182296.1	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						Concrete hardstanding.	17.59	0.10	
						Concrete bricks.	17.49	0.20	
						MADE GROUND: Light brown gravelly CLAY.	17.29	0.40	
0.50 0.50	ES1	ES PID	0.1ppm			MADE GROUND: Dark reddish brown silty very gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with frequent pottery ceramics with occasional brick and concrete coal ash and mortar.		(0.60)	
1.00 1.00	ES2	ES PID	0.1ppm			MADE GROUND: Dark reddish brown very sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded flint with occasional brick concrete pottery and frequent bricks.	16.69	1.00	
1.50 1.50	ES3	ES PID	0.1ppm						
2.00 2.00	ES4	ES PID	0.1ppm					(2.20)	
2.50 2.50	ES5	ES PID	0.1ppm						
3.00 3.00	ES6	ES PID	0.1ppm				14.49	3.20	
3.50 3.50	ES7	ES PID	0.1ppm			MADE GROUND: Orange brown sandy gravelly CLAY. Gravel is fine to coarse subangular to rounded flint with occasional brick concrete coal with rare whole bricks.	14.19	3.50	
						Terminated at 3.50m.			

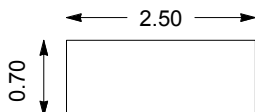

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Plan (Not to Scale) 		General Remarks 1. Trial pit remained dry during excavation. 2. On completion, trial pit backfilled with arisings and reinstated.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:31	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP4
Contract Ref: 28549	Start: 11.10.16 End: 11.10.16	Ground Level: 16.95	National Grid Co-ordinate: E:530929.6 N:182274.6	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.50 0.50	ES1	ES PID	0.1ppm		Backfill	MADE GROUND: Small weeds over dark soft brown clayey gravelly SAND with low cobble content frequent ash clinker and occasional glass. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint. Cobbles are brick.	16.35	(0.60) 0.60		
1.00 1.00	ES2	ES PID	0.1ppm			MADE GROUND: Brown to dark brown silty slightly gravelly SAND with frequent ash and clinker. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint and brick.	15.45	(0.90) 1.50		
1.50 1.50	ES3	ES PID	0.1ppm			MADE GROUND: Dark brown to black slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint and bricks frequent ash and clinker.		(1.30) 2.80		
2.00 2.00	ES4	ES PID	0.1ppm							
2.50 2.50	ES5	ES PID	0.1ppm					14.15	2.80	
3.00 3.00	E6S	ES PID	0.1ppm				MADE GROUND: Black slightly sandy slightly gravelly SILT with organic odour. Sand is fine to medium. Gravel is fine to medium subrounded to subangular flint bricks glass and rare rootlets.	13.55	(0.60) 3.40	
3.50 3.50	ES7	ES PID	0.1ppm				MADE GROUND: Brown to black silty slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium subrounded to angular flint bricks and occasional ash and clinker.	13.45	3.50	

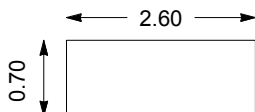
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Plan (Not to Scale) 		General Remarks 1. Trial pit remained dry during excavation. 2. On completion, trial pit backfilled with arisings.		
		All dimensions in metres		Scale: 1:31
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: JTownsend	Checked By: ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP5	
Contract Ref: 28549		Start: 11.10.16 End: 11.10.16	Ground Level: 16.98	National Grid Co-ordinate: E:530955.3 N:182254.5	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.50 0.50	ES1	ES PID	0.1ppm		Backfill	Bituminous hardstanding. MADE GROUND: Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks, flint, mortar, concrete, ash and clinker. Cobbles are subangular to angular brick and concrete with occasional concrete boulders.	16.93	0.05 (1.25)	
1.00 1.00	ES2	ES PID	0.1ppm			MADE GROUND: Light brown clayey gravelly SAND with cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks flint concrete ash and clinker. Cobbles are subangular brick.	15.68	1.30 (0.90)	
1.50 1.50	ES3	ES PID	0.1ppm				14.78	2.20 (1.30)	
2.00 2.00	ES4	ES PID	0.1ppm						
2.50 2.50	ES5	ES PID	0.1ppm						
3.00 3.00	ES6	ES PID	0.1ppm						
3.50 3.50	ES7	ES PID	0.1ppm						

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Plan (Not to Scale) 		General Remarks 1. Trial pit remained dry during excavation. 2. On completion, trial pit backfilled with arisings and reinstated.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:31	



Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP6
Contract Ref: 28549	Start: 11.10.16 End: 11.10.16	Ground Level: 15.13	National Grid Co-ordinate: E:530977.9 N:182232.5	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						Concrete hardstanding.	15.03	0.10	
0.50 0.50	ES1	ES PID	0.1ppm			MADE GROUND: Dark brown orangish very sandy gravelly CLAY with boulder content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint ash and clinker. Cobbles are subangular bricks.		(1.30)	
1.00 1.00	ES2	ES PID	0.1ppm						
1.50 1.50	ES3	ES PID	0.1ppm			MADE GROUND: Dark brown to black very sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with frequent ash and brick.	13.73	1.40	
2.00 2.00	ES4	ES PID	0.1ppm			MADE GROUND: Dark grey to black slightly sandy slightly gravelly SILT with strong organic odour. Silt is fine to coarse. Gravel is subrounded to angular bricks and mortar.	13.13	2.00	
2.50 2.50	ES5	ES PID	0.1ppm						
3.00 3.00	ES6	ES PID	0.1ppm			MADE GROUND: Brown to dark brown slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks and mortar with frequent clinker and ash.	12.43	2.70	
3.50 3.50	ES7	ES PID	0.1ppm						
						Terminated at 3.60m.	11.53	3.60	

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Plan (Not to Scale) 		General Remarks 1. Trial pit remained dry during excavation. 2. On completion, trial pit backfilled with arisings and reinstated.		
Method Used: Machine dug		Plant Used: JCB-3CX		Logged By: JTownsend
Scale: 1:31		Checked By: ST		

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP7	
Contract Ref: 28549	Start: 11.10.16 End: 11.10.16	Ground Level: 12.57	National Grid Co-ordinate: E:531004.6 N:182223.9	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.50 0.50	ES1	ES PID	0.1ppm			Bituminous hardstanding. MADE GROUND: Bricks and soil reworked as dark brown slightly clayey gravelly SAND with boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint bricks bitumin concrete ash and clinker. Cobbles are subrounded to angular brick.	12.42 11.97	0.15 (0.45) 0.60	
1.00 1.00	ES2	ES PID	0.1ppm			MADE GROUND: Bricks mortar and concrete hardstanding recovered as cobble mudstone.	11.17	(0.80) 1.40	
1.50 1.50	ES3	ES PID	0.1ppm			MADE GROUND: Orangish brown very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint bricks ash and clinker.	10.27	(0.90) 2.30	
2.00 2.00	ES4	ES PID	0.1ppm			MADE GROUND: Dark grey to black slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded to angular flint ash and brick.	9.47	(0.80) 3.10	
2.50 2.50	ES5	ES PID	0.1ppm			Dark greenish grey slightly silty CLAY with black mottling.	9.17	3.40	
Terminated at 3.40m.									

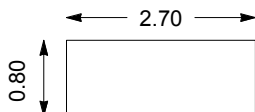
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 RSK Environment Ltd, 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk | 09/03/17 - 10:45 | JS9 |

Plan (Not to Scale)		General Remarks			
		<ol style="list-style-type: none"> Groundwater seepage at 2.5m. On completion, trial pit backfilled with arisings. 			
		All dimensions in metres		Scale: 1:31	
Method Used: Machine dug		Plant Used: JCB-3CX		Logged By: JTownsend	
				Checked By: ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP8
Contract Ref: 28549	Start: 11.10.16 End: 11.10.16	Ground Level: 12.10	National Grid Co-ordinate: E:530991.6 N:182206.7	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.50		PID	0.1ppm		[Cross-hatched]	Bituminous hardstanding.	11.95	0.15	[Cross-hatched]
						MADE GROUND: Dark reddish brown gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks flint concrete mortar and occasional metal.	11.60	0.50	[Cross-hatched]
1.00		PID	0.1ppm		[Cross-hatched]	MADE GROUND: Layer of bricks and mortar.	11.40	0.70	[Cross-hatched]
						MADE GROUND: Dark grey to black slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint and brick fragments.	10.90	1.20	[Cross-hatched]
1.50		PID	0.1ppm		[Cross-hatched]	MADE GROUND: Light orangish brown clayey gravelly SAND. Sand is fine to coarse. gravel is fine to coarse subrounded to subangular flint brick with frequent ash and clinker and occasional oyster shells 20-30mm.	10.50	1.60	[Cross-hatched]
						MADE GROUND: Dark greyish brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint bricks and shell fragments.		(1.10)	[Cross-hatched]
2.00		PID	0.1ppm		[Cross-hatched]		9.40	2.70	[Cross-hatched]
						MADE GROUND: Dark grey with black silty inclusions very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks flint and shell fragments.	9.10	3.00	[Cross-hatched]
2.50		PID	0.1ppm		[Cross-hatched]	Terminated at 3.00m.			

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Plan (Not to Scale) 	General Remarks	
	1. Groundwater seepage at 2.5m. 2. On completion, trial pit backfilled with arisings.	
All dimensions in metres		Scale: 1:31
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: JTownsend Checked By: ST



Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP9
Contract Ref: 28549	Start: 18.10.16 End: 18.10.16	Ground Level: 14.50	National Grid Co-ordinate: E:530997.4 N:182173.3	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						Bituminous hardstanding over concrete.	14.25	0.25	
0.50	ES1	ES PID	0.1ppm			MADE GROUND: Dark brown very clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with ash, clinker and occasional fragments of glass wood and metal.		(0.45)	
0.50						Cemented concrete and brick obstruction.		0.70	
1.00		PID	0.1ppm					(0.40)	
1.00							13.40	1.10	
1.50	ES2	ES PID	0.1ppm			MADE GROUND: Brown to light brown clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint tile mortar.			
1.50									
2.00	ES3	ES PID	0.1ppm					(2.10)	
2.00									
2.50	ES4	ES PID	0.1ppm						
2.50									
3.00	ES5	ES PID	0.1ppm						
3.00							11.30	3.20	
3.50	ES6	ES PID	0.1ppm			MADE GROUND: Dark to light brown slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular brick flint mortar ash and clinker. Cobbles are subangular to angular brick.		(0.40)	
3.50						Terminated at 3.60m.		3.60	

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Plan (Not to Scale)		General Remarks		
		<ol style="list-style-type: none"> Trial pit remained dry during excavation. On completion, trial pit backfilled with arisings. 		
		All dimensions in metres		Scale: 1:31
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: JTownsend	Checked By: ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP10
Contract Ref: 28549	Start: 11.10.16 End: 11.10.16	Ground Level: 12.35	National Grid Co-ordinate: E:531020.0 N:182203.7	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.50 0.50	ES1	ES PID	0.1ppm			MADE GROUND: Bitumen hardstanding.	12.20	0.15	
						MADE GROUND: Dark brown reddish brown clayey gravelly SAND with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks ash and clinker with occasional flint. Cobbles are subrounded to angular bricks and concrete. Occasional fragments of cement bound asbestos (~50mm x 40mm).	11.85	0.50	
						MADE GROUND: Dark brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is sub-rounded to sub-angular fine to medium of brick chalk ash and clinker.	11.65	0.70	
1.00 1.00	ES2	ES PID	0.1ppm			MADE GROUND: Light golden brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular brick wood flint ash and clinker.	11.05	1.30	
1.50 1.50	ES3	ES PID	0.1ppm			MADE GROUND: Brownish greenish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with occasional chalk fragments shells and inclusions of black silt. Moderate organic odour. (Possible reworked alluvium)		(1.20)	
2.00 2.00	ES4	ES PID	0.1ppm				9.85	2.50	
2.50 2.50	ES5	ES PID	0.1ppm			MADE GROUND: Dark grey to black slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint brick with rootlets and fragments of wood and moderate organic odour.		(0.60)	
3.00 3.00	ES6	ES PID	0.1ppm			... Small rate of seepage of a possible red coloured liquid at base of trial pit.	9.25	3.10	
3.20 3.20	ES7	ES PID	0.1ppm			MADE GROUND: Dark greenish grey/golden brown slightly sandy slightly gravelly CLAY with sand inclusions. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint with rare fragments of chalk. Terminated at 3.20m.	9.15	3.20	

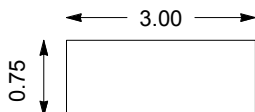

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Plan (Not to Scale) 		General Remarks 1. Seepage at 3.2m. 2. On completion, trial pit backfilled with arisings.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:31	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP18	
Contract Ref: 28549	Start: 19.10.16 End: 19.10.16	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thick ness)	Material Graphic Legend
Depth	No	Type	Results						
0.20 0.20	ES1	ES PID	0.1ppm		Backfill	MADE GROUND: Grass over dark brown silty gravelly fine to coarse SAND. Gravel is fine subrounded flint with occasional bricks, slate, concrete and timber with rare white bricks and cobble sized concrete, plastic and glass. ... At 0.8m, timber and glass at north of pit. ... from 1.00m concrete slab and whole bricks			Backfill
0.60 0.60	ES2	ES PID	0.1ppm				(1.50)		
1.40 1.40	ES3	ES PID	0.2ppm				1.50		

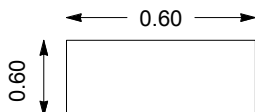

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Plan (Not to Scale) 		General Remarks 1. Trial pit excavated into bank from 1.4m above ground level to 1.5m below ground level. 2. Ease of trial pit excavation: easy 3. On completion, trial pit backfilled with arisings.	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:25	
			

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP19
Contract Ref: 28549	Start: 19.10.16 End: 19.10.16	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.40 0.40	ES1	ES PID	0.1ppm			MADE GROUND: Dark greyish brown silty gravelly fine to coarse SAND. Gravel is fine to coarse flint with occasional brick concrete glass wire and plastic with rare whole bricks and concrete.		(0.50) 0.50	

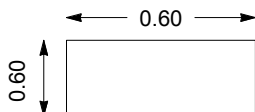
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Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> Excavation of one bucket into the sub-surface material. No groundwater encountered. Ease of trial pit excavation: easy. On completion, trial pit backfilled with arisings. 		
		All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: JTownsend	Checked By: ST	

Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP20
Contract Ref: 28549	Start: 19.10.16 End: 19.10.16	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20 0.20	ES1	ES PID	0.1ppm			MADE GROUND: Dark brown silty gravelly fine to medium SAND. Gravel is fine subrounded flint with occasional brick concrete glass wire and plastic with rare whole bricks and concrete fragments.		(1.00)	
0.80 0.80	ES2	ES PID	0.1ppm					1.00	

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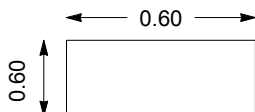
Plan (Not to Scale) 		<h3>General Remarks</h3> <ol style="list-style-type: none"> Excavation of one bucket into the sub-surface material. No groundwater encountered. Ease of trial pit excavation: easy. On completion, trial pit backfilled with arisings. 	
Method Used: Machine dug		Plant Used: JCB-3CX	
Logged By: JTownsend		Checked By: ST	
All dimensions in metres		Scale: 1:25	



Contract: Mount Pleasant Sorting Office		Client: Royal Mail Group Limited		Trial Pit: TP21
Contract Ref: 28549	Start: 19.10.16 End: 19.10.16	Ground Level: ---	National Grid Co-ordinate: ---	Sheet: 1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20 0.20	ES1	ES PID	0.1ppm		MADE GROUND: Dark brown silty gravelly fine to medium SAND. Gravel is fine to medium subrounded flint with occasional brick fragments and concrete. MADE GROUND: Dark brown to black very silty gravelly fine to medium SAND. Gravel is fine to coarse subangular to rounded flint with occasional brick fragments glass concrete mortar and rare whole bricks.		0.20		
0.60 0.60	ES2	ES PID	0.1ppm			(0.80)			
						1.00			

GIN2 LIBRARY_V8_06.GLB LibVersion: v8_06_015 ProjVersion: v8_06 - Core+Logs - 002 | Log TRIAL PIT LOG - A4P | 28549 MOUNT PLEASANT.GPJ - v8_06.
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Plan (Not to Scale) 	<h3>General Remarks</h3>	
	<ol style="list-style-type: none"> Excavation of one bucket into the sub-surface material. No groundwater encountered. Ease of trial pit excavation: easy. On completion, trial pit backfilled with arisings. 	
All dimensions in metres		Scale: 1:25
Method Used: Machine dug	Plant Used: JCB-3CX	Logged By: JTownsend Checked By: ST

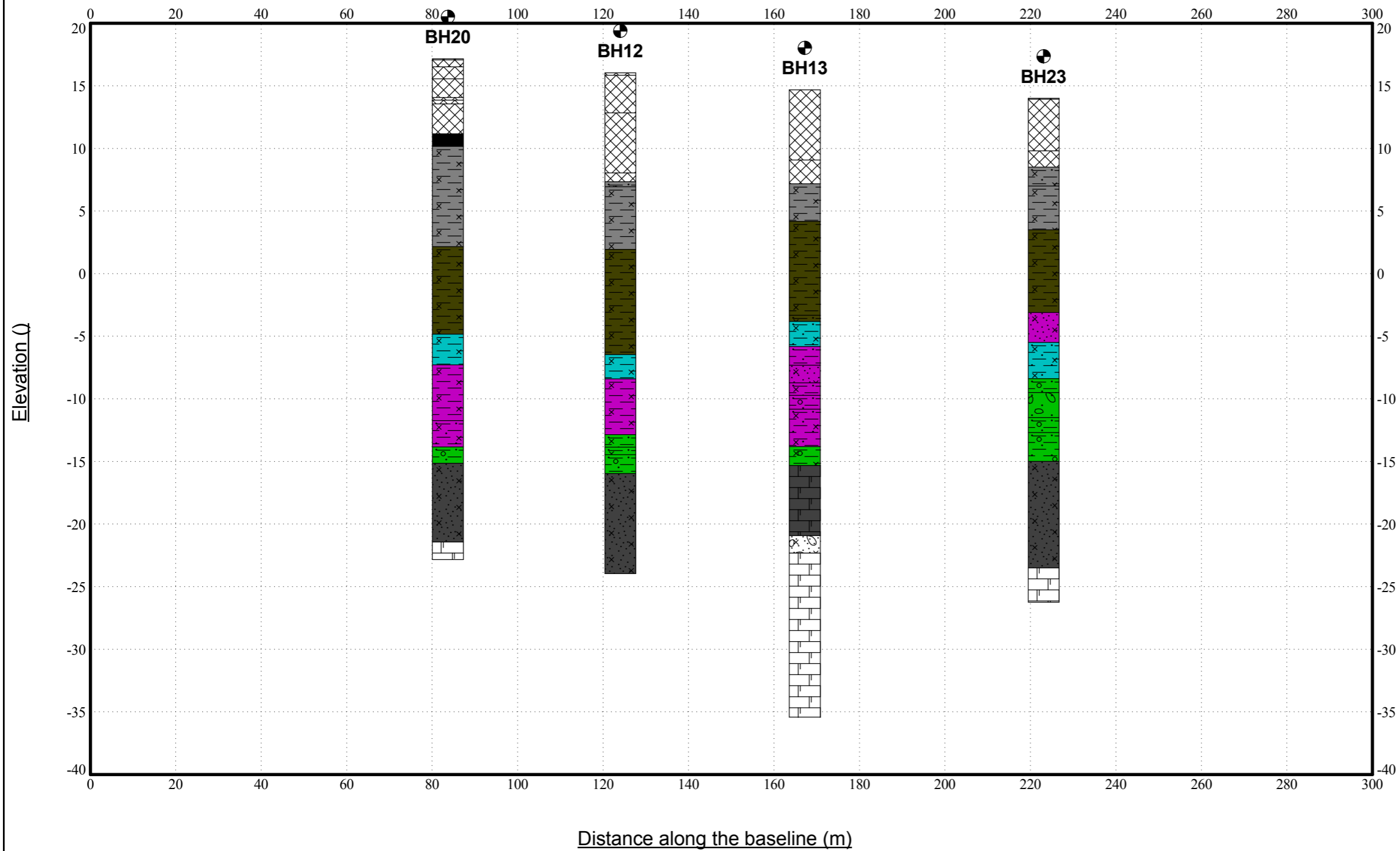




APPENDIX C

CROSS SECTIONS

SUBSURFACE SECTION DIAGRAM



HOLE TYPE MARKER LEGENDS:

● = ???

GEOLOGY COLUMN COLOUR CODES:

- Lambeth Group - Lower Mottled Beds - Sand Channel
- Alluvium
- London Clay Formation
- Lambeth Group - Upper Mottled Beds
- Lambeth Group - Laminated Beds
- Lambeth Group - Lower Mottled Beds
- Lambeth Group - Upnor Formation
- Thanet Sand Formation
- White Chalk Subgroup

REV.	DATE	DESCRIPTION	BY	CHD.	APR.

Dimensions	Scale
m	Scale X = 1:1034 Scale Y = 1:353

RSK
 RSK Environment Ltd
 18 Frogmore Road
 Hemel Hempstead
 Hertfordshire
 HP3 9RT

CLIENT:
Royal Mail Group Limited

PROJECT:
Mount Pleasant Sorting Office

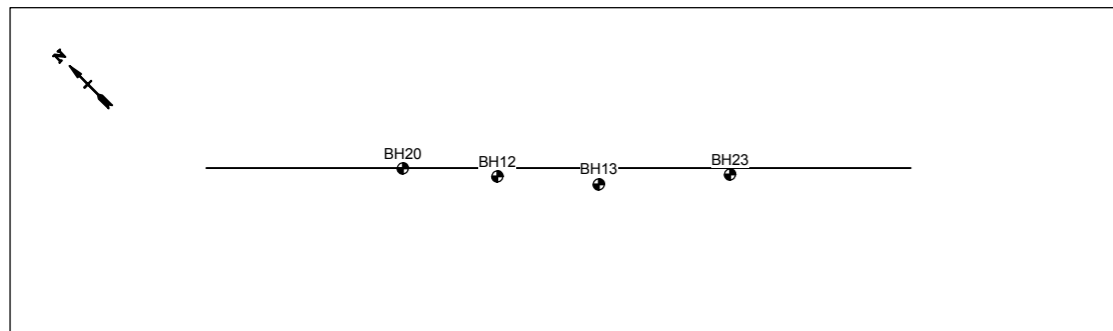
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CONTRACT REF:	DRAWING REF:
28549	of

DRAWING STATUS:	FIGURE

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 LANDSCAPE : ELEV : 28549_MOUNT PLEASANT.GPJ : 17/02/17 09:43 :
 CB1 :

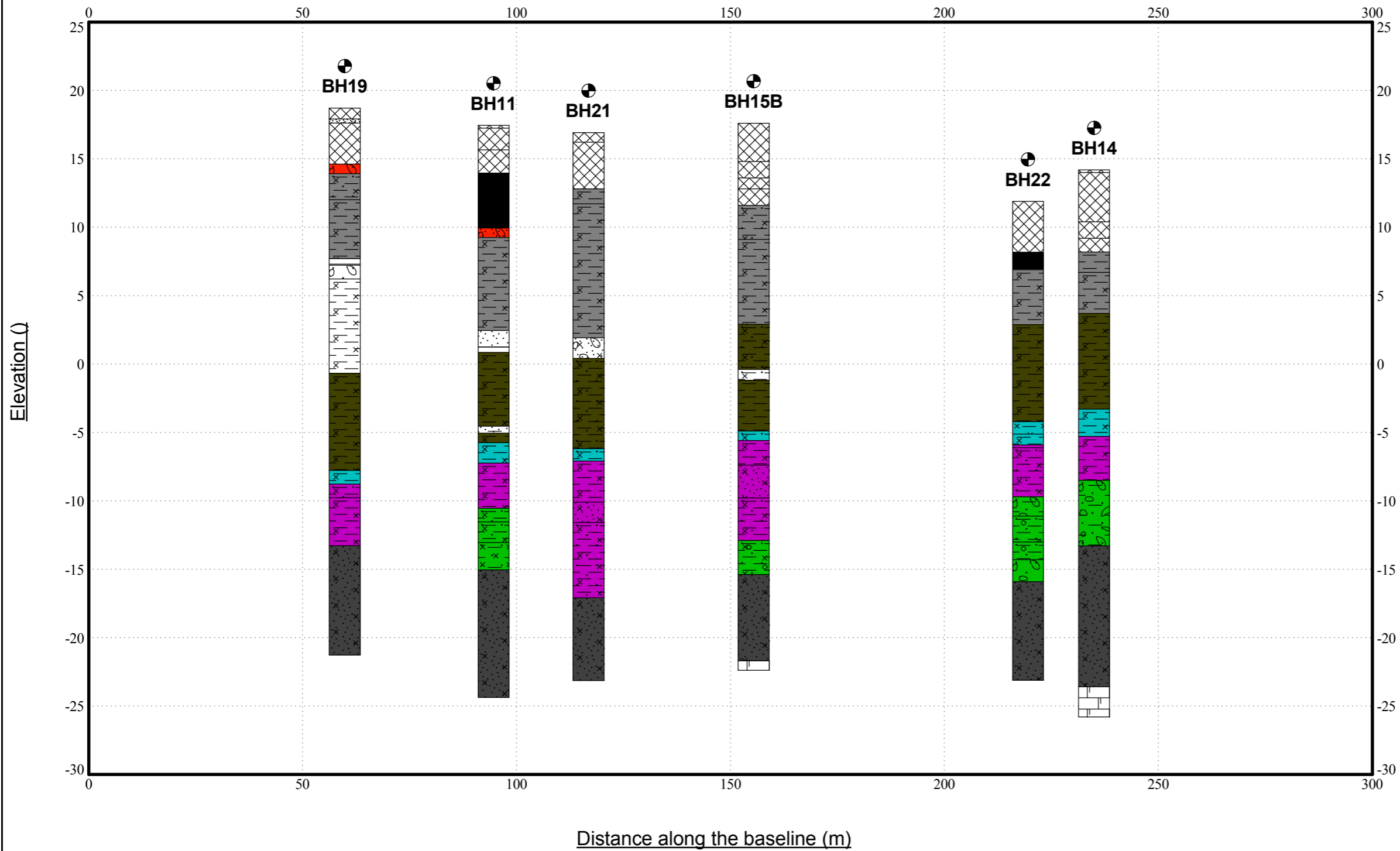
SITEMAP AND SECTION BASELINE



MATERIAL LEGENDS

- | | | | |
|---------------------------|---------------------|--------------|---------------------|
| Chalk | Silty gravelly CLAY | MADE GROUND | Sandy CLAY |
| Sandy silty CLAY | Silty sandy CLAY | Sandy GRAVEL | Sandy gravelly CLAY |
| Sandy gravelly silty CLAY | Silty CLAY | Silty SAND | Silty sandy GRAVEL |
| CHALK | | | |

SUBSURFACE SECTION DIAGRAM



HOLE TYPE MARKER LEGENDS:

● = ???

GEOLOGY COLUMN COLOUR CODES:

- Harwich Formation
- Upnor Formation
- Lambeth Group - Lower Mottled Beds - Sand Channel
- Lambeth Group - Laminated Beds - Channel Sands
- Lambeth Group - Lower Mottled Beds - Calcrete
- Alluvium
- Hackney Gravel
- London Clay Formation
- Lambeth Group - Upper Mottled Beds
- Lambeth Group - Laminated Beds
- Lambeth Group - Lower Mottled Beds
- Lambeth Group - Upnor Formation
- Thanet Sand Formation
- White Chalk Subgroup

REV.	DATE	DESCRIPTION	BY	CHD.	APR.

Dimensions	Scale
m	Scale X = 1:1034 Scale Y = 1:324

RSK Environment Ltd
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

CLIENT: **Royal Mail Group Limited**

PROJECT: **Mount Pleasant Sorting Office**

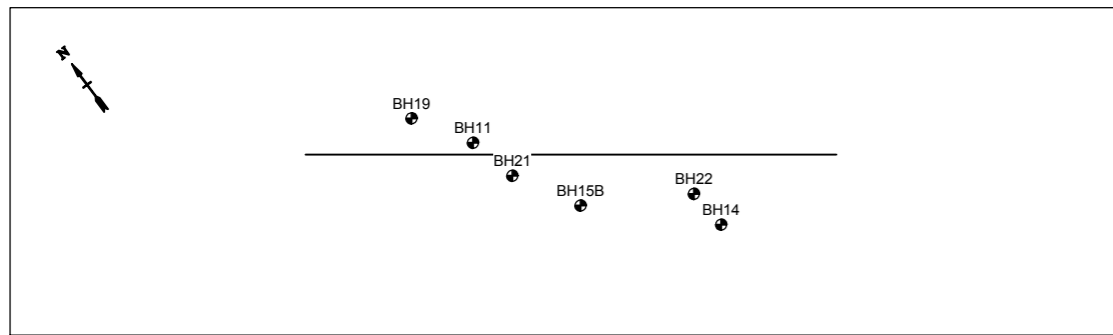
TITLE:

CONTRACT REF:	DRAWING REF:
28549	of

DRAWING STATUS:	FIGURE

DRAWING TRACK CODE: GINT_LIBRARY_V8_06.GLB : STANDARD : A3 : LANDSCAPE : ELEV : 28549_MOUNT PLEASANT.GPJ : 17/02/17 09:50 : CB1 :

SITEMAP AND SECTION BASELINE



MATERIAL LEGENDS

- | | | | |
|---------------------------|--------------------|---------------------|---------------------|
| CLAY | Clayey SAND | Sandy clayey GRAVEL | Gravelly silty CLAY |
| MADE GROUND | Mudstone | SAND | SAND & GRAVEL |
| Sandy silty CLAY | Silty sandy CLAY | Sandy GRAVEL | Sandy gravelly CLAY |
| Sandy gravelly silty CLAY | Sandy clayey SILT | Clayey SILT | Silty CLAY |
| Silty SAND | Silty sandy GRAVEL | CONCRETE | CHALK |



APPENDIX D

GROUNDWATER MONITORING RECORDS
