Key.

North

Locations By Type - RC

Locations By Type - TP

Notes:

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Client: CAMPBELLREITH

Site: BRISLINGTON MEADOWS

Title: EXPLORATORY HOLE LOCATION PLAN

Drawn By:	JE	Checked By:	JH	Paper Size:	A3
Scale:	1:2500			Date:	February 2021
Contract:	36142			Figure:	1

Geotechnical Engineering Limited

BOREHOLE LOG

BH01

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 16 November 2020 — Easting 362559.9 — Scale 1:50

End Date 17 November 2020 — Northing 171237.2 — Ground Level 61.40mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1B	0.05	0.15							Grass over brown partially organic silty gravelly fine to coarse SAND. Gravel is subangular and subrounded fine to coarse sandstone. Frequent rootlets and roots (up to 4mm diam).	0.25	61.15	
1ES	0.05	0.15										
2D	0.05	0.15										
2ES	0.40	0.60										
3B	0.40	0.60										
4D	0.40	0.60										
									Reddish brown silty sandy subangular and subrounded fine to coarse sandstone GRAVEL.	1.00	60.40	
3ES	1.00	1.20										
5B	1.00	1.20										
6D	1.00	1.20										
			1.30						Medium strong grey fine to medium SANDSTONE recovered as reddish brown silty very sandy subangular and subrounded tabular fine to coarse GRAVEL.	1.40	60.00	
7L	1.20	1.30		100	NI							
8C	1.30	2.70		43	22							
				0	30				Medium strong thickly laminated to very thinly bedded reddish brown fine to coarse SANDSTONE. Bedding fractures are 5 to 15° extremely closely and very closely spaced planar rough rarely infilled with reddish brown silt. 1.80 - 2.20m: Becoming grey. 1.85 - 2.20m: Subvertical fracture stepped rough.	2.20	59.20	
					NI							
					50							
					140							
9C	2.70	4.20	1.30	100					Weak to moderately weak very thinly to thinly bedded light grey fine to coarse SANDSTONE with frequent carbonaceous laminae (up to 3mm). Bedding fractures (1) are stained reddish brown 10° to 20° very closely to closely spaced planar rough with frequently infilled reddish brown sandy silty clay . Fractures (2) are stained reddish brown 40° to 60° and randomly orientated very closely to closely spaced planar and stepped rough with rare red staining and reddish brown sandy infill. 2.70 - 3.00m: Recovered non intact.	4.10	57.30	
				54								
				7								
10C	4.20	5.70	1.30	100					Medium strong very thinly to thinly bedded grey fine to coarse SANDSTONE with rare carbonaceous laminae (up to 1mm). Fractures are 5° to 15° very closely to closely spaced planar rough rarely infilled with red sandy silty clay.	5.00	56.40	
				100								
				87								
					NI							
					60							
					160							
11C	5.70	7.20	1.30	100					Moderately weak medium bedded grey fine to medium SANDSTONE. Bedding fractures (1) are 10 to 20° closely to medium spaced planar and stepped rough. Fractures (2) are 55 to 65° closely to medium spaced stepped rough. 5.50 - 6.35m: Becoming reddish brown.	6.35	55.05	
				75								
				68								
					70							
					240							
					240							
12C	7.20	8.70	1.30	100	20				Weak locally very weak reddish brown medium to thickly bedded fine to coarse SANDSTONE. Bedding fractures (1) are 10 to 25° closely to medium spaced stepped rough rarely infilled with reddish brown clayey silty sand. Fractures (2) are 70° closely to medium spaced stepped rough frequently stained red.			
				100	150							
				100	400							
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools.
1.20	1.30	Windowless Sampler	Geotechnical Pioneer Rig.
1.30	14.70	Rotary Core	Geotechnical Pioneer Rig.

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)
140	1.30

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.30	Concrete
0.30	0.50	Gravel
0.50	2.90	Bentonite
2.90	13.00	Gravel

INSTRUMENTATION

DEPTH (m)	TYPE
13.00	Standpipe

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	2.70
116	14.70
70	30.00

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
16-11-2020 09:10	0.00	Nil	Dry
16-11-2020 15:30	14.70	1.30	1.42
17-11-2020 08:00	14.70	1.30	1.80
17-11-2020 11:30	30.00	1.30	1.60

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH01

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 16 November 2020 — Easting 362559.9 — Scale 1:50

End Date 17 November 2020 — Northing 171237.2 — Ground Level 61.40mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Weak locally very weak reddish brown medium to thickly bedded fine to coarse SANDSTONE. Bedding fractures (1) are 10 to 25° closely to medium spaced stepped rough rarely infilled with reddish brown clayey silty sand. Fractures (2) are 70° closely to medium spaced stepped rough frequently stained red.			
13C	8.70 - 10.20		1.30	100 73 73					9.00m: 30° fracture stepped rough.			
					NI					9.80	51.60	
									Extremely weak friable reddish brown MUDSTONE locally tending to very stiff sandy silty clay.			
14C	10.20 - 11.70		1.30	100 90 73	NI 100 200				9.85 - 9.95m: Extremely weak black coal.	10.20	51.20	
									Very weak reddish brown MUDSTONE with closely spaced thick laminae of medium strong reddish grey fine sandstone. Fractures are randomly orientated extremely closely to closely spaced undulating smooth rarely stained yellow, red and black.	10.55	50.85	
									Very weak reddish brown MUDSTONE. Fractures are randomly orientated extremely closely to closely spaced undulating smooth rarely stained yellow, red and black.			
15C	11.70 - 13.20		1.30	93 30 30						12.30	49.10	
					NI				Moderately weak reddish brown fine to coarse SANDSTONE recovered as sandy subangular and subrounded fine to medium sandstone GRAVEL.	12.50	48.90	
					NI 150 250				Medium strong reddish brown fine to coarse SANDSTONE. Fractures are randomly orientated very closely to medium spaced stepped rough rarely infilled with reddish brown sandy silty clay.	13.20	48.20	
16C	13.20 - 14.70		1.30	100 97 97	NI 200 450				Medium strong medium to thickly bedded grey fine to coarse SANDSTONE. Bedding fractures are 25° medium spaced planar and stepped rough.			
									13.40 - 13.45m: 10° fracture planar rough infilled with reddish brown sandy silt.			
									Grey SANDSTONE (Driller's description). Open hole drilled.	14.70	46.70	
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	30.00	Rotary Open Hole	Geotechnical Pioneer Rig.

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL
13.00	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH01

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 3 of 4

Start Date 16 November 2020 — Easting 362559.9 — Scale 1:50

End Date 17 November 2020 — Northing 171237.2 — Ground Level 61.40mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Continued Next Page			

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

CHECKED

Geotechnical Engineering Limited

BOREHOLE LOG

BH01

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 16 November 2020 — Easting 362559.9 — Scale 1:50

End Date 17 November 2020 — Northing 171237.2 — Ground Level 61.40mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	31.40	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH02

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 10 November 2020 — Easting 362523.2 — Scale 1:50

End Date 11 November 2020 — Northing 171129.6 — Ground Level 51.80mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1B	0.05	0.15							Grass over soft to firm brown gravelly sandy silty CLAY with frequent rootlets. Gravel is subangular and subrounded fine to medium sandstone.	0.30	51.50	
1ES	0.05	0.15										
2D	0.05	0.15										
2ES	0.40	0.60										
3B	0.40	0.60										
4D	0.40	0.60										
									Brown slightly silty sandy subangular fine to coarse sandstone GRAVEL.	0.90	50.90	
3ES	1.00	1.20							Brown slightly silty sandy subangular fine to coarse sandstone GRAVEL with low subangular sandstone cobble content.			
5B	1.00	1.20										
6D	1.00	1.20										
7L	1.20	2.70										
10D	1.70	1.80								1.80	50.00	
									Stiff reddish brown slightly gravelly silty CLAY. Gravel is subangular fine to coarse mudstone lithorelicts.	2.10	49.70	
4ES	2.20	2.30							2.00 - 2.10m: Weak sandstone bed recovered non intact.			
11D	2.30	2.40										
									Very weak locally weak thinly laminated reddish brown and grey MUDSTONE with rare beds (up to 50mm) of weak laminated orange, grey and red sandstone recovered as sandy subangular fine to coarse gravel with a high subangular mudstone cobble content.	2.70	49.10	
12C	2.70	4.20	2.70	86	NI							
				56								
				20								
13D	3.10	3.20										
					NI				Weak grey fine to coarse SANDSTONE recovered as slightly sandy subangular fine to coarse GRAVEL.	3.20	48.60	
					50							
					50				Very weak locally weak thinly bedded grey fine to coarse SANDSTONE with rare carbonaceous laminae (up to 2mm). Bedding fractures are 10° to 25° very closely spaced stepped rough rarely infilled with red silty sand.	3.80	48.00	
					60							
					60							
					180							
14C	4.20	5.70	2.70	100	40				Medium strong grey fine to coarse SANDSTONE. Bedding fractures (1) are 10 to 25° very closely to medium spaced stepped rough rarely infilled with soft red silty sand. Fractures (2) are 70° very closely to medium spaced stepped rough stained red.	4.20	47.60	
				93	200							
				80	430							
									Medium strong grey fine to coarse SANDSTONE. Bedding fractures (1) are 20 to 30° closely and medium spaced stepped rough rarely infilled with soft red clayey silty sand. Fractures (2) are 65 to 75° closely and medium spaced stepped rough stained red.			
15C	5.70	7.20	2.70	100								
				97								
				97								
16C	7.20	8.70	2.70	100								
				57								
				50								
									7.80 - 8.30m: Heavily fractured. Fractures are 70 to 90° stepped rough stained red rarely infilled with white quartz.			

Continued Next Page

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools
1.20	2.70	Windowless Sampler	Geotechnical Pioneer Rig
2.70	14.70	Rotary Core	Geotechnical Pioneer Rig

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)
140	2.70

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.30	Concrete
0.30	0.90	Bentonite
0.90	11.00	Gravel
11.00	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE
11.00	Standpipe

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	2.70
116	14.70
70	30.00

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
10-11-2020 08:45	0.00	Nil	Dry
10-11-2020 15:30	14.70	2.70	1.42
11-11-2020 08:20	14.70	2.70	2.30
11-11-2020 14:00	30.00	2.70	2.34

REMARKS

CONTRACT **36142**

CHECKED

Geotechnical Engineering Limited

BOREHOLE LOG

BH02

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 10 November 2020 — Easting 362523.2 — Scale 1:50

End Date 11 November 2020 — Northing 171129.6 — Ground Level 51.80mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
17C	8.70	10.20	2.70	100 90 83					Medium strong grey fine to coarse SANDSTONE. Bedding fractures (1) are 20 to 30° closely and medium spaced stepped rough rarely infilled with soft red clayey silty sand. Fractures (2) are 65 to 75° closely and medium spaced stepped rough stained red. 9.30m: 10° fracture undulating rough.			
18C	10.20	11.70	2.70	100 73 67								
19C	11.70	13.20	2.70	100 85 75	30 80 170				Medium strong dark grey MUDSTONE. Bedding fractures (1) are are 0 to 10° degrees closely spaced stepped smooth. Fractures (2) are 50 to 60° closely spaced stepped smooth.	11.60	40.20	
					90 150 360				Medium strong thinly bedded grey fine to coarse SANDSTONE with frequent black carbonaceous laminae (up to 2m). Bedding fractures (1) are 10° to 20° closely and medium spaced stepped rough rarely infilled with red clayey silty sandy. Fractures (2) are 70° closely and medium spaced stepped rough.	12.55	39.25	
20C	13.20	14.70	2.70	100 67 63								
									Grey SANDSTONE. No voids detected. (Driller's description). Open-hole drilled.	14.70	37.10	
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	30.00	Rotary Open Hole	Geotechnical Pioneer Rig

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL

INSTRUMENTATION

DEPTH (m)	TYPE

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH02

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 3 of 4

Start Date 10 November 2020 — Easting 362523.2 — Scale 1:50

End Date 11 November 2020 — Northing 171129.6 — Ground Level 51.80mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Continued Next Page			

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

CHECKED

Geotechnical Engineering Limited

BOREHOLE LOG

BH02

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 10 November 2020 — Easting 362523.2 — Scale 1:50

End Date 11 November 2020 — Northing 171129.6 — Ground Level 51.80mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	21.80	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH03

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 12 November 2020 — Easting 362520.5 — Scale 1:50

End Date 13 November 2020 — Northing 171079.7 — Ground Level 48.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1B	0.05	0.15							Grass over soft to firm brown slightly gravelly slightly sandy clayey SILT with rare rootlets. Gravel is subangular fine and medium sandstone rarely quartzite.	0.30	48.55	
1ES	0.05	0.15										
2D	0.05	0.15										
2ES	0.40	0.60										
4B	0.40	0.60										
5D	0.40	0.60							Soft orangish brown slightly gravelly slightly organic sandy silty CLAY. Gravel is subangular and subrounded fine to coarse sandstone.	0.60	48.25	
3ES	1.00	1.20				1.10			Firm orangish brown slightly sandy gravelly silty CLAY. Gravel is subangular fine to coarse mudstone lithorelicts .			
7B	1.00	1.20										
8D	1.00	1.20										
10L	1.20	2.30								1.55	47.30	
4ES	1.70	1.80							Reddish brown slightly sandy silty subangular fine to coarse sandstone GRAVEL with a high subangular sandstone cobble content.			
11D	1.80	1.90								2.00	46.85	
12D	2.10	2.20							Stiff light grey mottled orange slightly gravelly silty CLAY . Gravel is subangular fine and medium mudstone lithorelicts.			
5ES	2.10	2.20										
13C	2.30	2.70	2.30	100	NA					2.50	46.35	
14C	2.70	4.20	2.30	87 20 0					Reddish brown slightly sandy silty subangular fine to coarse sandstone GRAVEL with a high subangular sandstone cobble content.	2.90	45.95	
15D	3.00	3.10							Firm light grey mottled orange slightly gravelly silty CLAY. Gravel is subangular fine to coarse mudstone lithorelicts.	3.30	45.55	
					NI 30 80				Very weak thinly bedded grey MUDSTONE. Bedding fractures are 0 to 15° very closely and closely spaced stepped rough rarely infilled with soft grey and orange sandy silty clay.			
16C	4.20	5.70	2.30	100 50 40						4.60	44.25	
					60 70 190				Weak thinly bedded grey MUDSTONE. Bedding fractures are 0 to 10° closely spaced stepped and planar rough rarely infilled with grey sandy silty clay. 5.15 - 5.25m: Subvertical fracture undulating smooth.			
17C	5.70	7.20	2.30	100 90 90	40 160 250				Medium strong grey fine to coarse SANDSTONE with rare carbonaceous laminae (up to 2mm) . Bedding fractures are 10 to 20° closely and medium spaced planar rough.	5.70	43.15	
18C	7.20	8.70	2.30	100 100 67	45 80 100 30				Extremely weak thinly laminated dark grey MUDSTONE. Fractures are 0 ro 20° very closely and closely spaced planar and undulating smooth rarely infilled with dark grey slightly gravelly sandy silty clay.	7.45	41.40	
									Medium strong grey fine to coarse SANDSTONE. Bedding fractures are 10 to 20° very closely to medium spaced planar rough.	7.80	41.05	

Continued Next Page

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools
1.20	2.30	Windowless Sampler	Geotechnical Pioneer Rig
2.30	14.70	Rotary Core	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
1.10	Nil	0.80	2	

CASING DEPTH

DIAM (mm)	BASE (m)
140	2.30

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.30	Concrete
0.30	0.40	Gravel
0.40	0.90	Bentonite
0.90	11.10	Gravel

INSTRUMENTATION

DEPTH (m)	TYPE
11.10	Standpipe

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	2.30
116	14.70
70	19.20

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
12-11-2020 08:10	0.00	Nil	Dry
12-11-2020 15:30	19.20	2.30	1.26
13-11-2020 08:40	19.20	2.30	1.80
13-11-2020 12:00	30.00	2.30	1.44

REMARKS

CONTRACT **36142**

CHECKED

Geotechnical Engineering Limited

BOREHOLE LOG

BH03

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 12 November 2020 — Easting 362520.5 — Scale 1:50

End Date 13 November 2020 — Northing 171079.7 — Ground Level 48.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
					120 220				Medium strong grey fine to coarse SANDSTONE. Bedding fractures are 10 to 20° very closely to medium spaced planar rough. 8.35 - 8.45m: 35° fracture stepped rough. 8.45 - 8.80m: Frequent carbonaceous laminations (up to 5mm).			
19C	8.70 - 10.20		2.30	100 97 77						9.25	39.60	
					25 70 120				Moderately weak thinly bedded grey MUDSTONE. Bedding fractures are 0 to 10° very closely to closely spaced planar smooth rarely infilled with soft dark grey silty clay. 9.45 - 9.65m: Thin bed of medium strong fine to coarse sandstone. Fractures are 0 to 15° closely spaced undulating rough.	9.95	38.90	
20C	10.20 - 11.70		2.30	100 97 93	100 170 230				Moderately weak grey fine MUDSTONE. Bedding fractures are 0 to 10° closely to medium spaced undulating rough. 9.95 - 10.20m: Medium bed of medium strong grey SILTSTONE. Fractures 10 to 20° medium spaced undulating smooth.	10.90	37.95	
					100 280 900				Medium strong grey fine and medium SANDSTONE. Fractures are 0 to 10° medium and widely rarely closely spaced planar rough. 11.70m: Fractures becoming closely to widely spaced. 11.70 - 12.00m: Subvertical fracture planar rough infilled with quartzite.			
21C	11.70 - 13.20		2.30	100 100 100								
22C	13.20 - 14.70		2.30	100 100 80	NI 60 90 300 700 700					13.40	35.45	
									Medium strong thinly bedded grey and dark grey fine and medium SANDSTONE with frequent carbonaceous laminae (up to 5mm) . Bedding fractures are subhorizontal very closely to closely spaced undulating rough. 13.60 - 14.00m: 80° fracture undulating rough stained black.	13.70	35.15	
									Medium strong thinly bedded grey fine and medium SANDSTONE. Bedding fractures are subhorizontal medium and widely spaced planar rough.	14.70	34.15	
									Grey SANDSTONE. No voids detected. (Driller's description). Open-hole drilled.			
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	19.20	Rotary Open Hole	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL
11.10	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE

BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH03

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 3 of 4

Start Date 12 November 2020 — Easting 362520.5 — Scale 1:50

End Date 13 November 2020 — Northing 171079.7 — Ground Level 48.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend

Continued Next Page

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH03

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 12 November 2020 — Easting 362520.5 — Scale 1:50

End Date 13 November 2020 — Northing 171079.7 — Ground Level 48.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	18.85	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

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Geotechnical Engineering Limited

BOREHOLE LOG

BH04

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 05 November 2020 — Easting 362645.7 — Scale 1:50

End Date 06 November 2020 — Northing 171047.4 — Ground Level 58.75mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1B	0.00	0.15							Grass over brown slightly gravelly silty fine to coarse SAND with frequent rootlets. Gravel is subangular fine to medium sandstone.	0.30	58.45	
1ES	0.00	0.15										
2D	0.00	0.15										
2ES	0.40	0.60							Light reddish brown very gravelly very clayey SAND. Gravel is subangular fine to medium sandstone.	0.80	57.95	
3B	0.40	0.60										
4D	0.40	0.60										
3ES	1.00	1.20							Greyish brown sandy silty subangular and subrounded fine and medium sandstone GRAVEL with medium subangular sandstone cobble content.	1.10	57.65	
5B	1.00	1.20										
6D	1.00	1.20	0.00									
7L	1.20	2.70							SANDSTONE recovered as reddish brown and grey sandy silty fine to medium GRAVEL.			
8D	1.80	1.90										
						2.10				2.10	56.65	
4ES	2.20	2.30							Extremely to very weak grey MUDSTONE recovered as angular fine to coarse GRAVEL. Fractures are randomly orientated planar smooth rarely stained reddish brown and yellow and infilled with grey silty sand.			
10B	2.70	3.20	0.00									
9L	2.70	3.50										
11D	3.30	3.40										
12C	3.50	4.20	3.50	100 42 28	NI 50 140					3.90	54.85	
13C	4.20	5.70	3.50	100 0 0					Very weak locally extremely weak thinly laminated grey MUDSTONE. Fractures are randomly orientated very closely and closely spaced planar rough rarely stained red.			
14C	5.70	7.20	3.50	100 53 13	NI 90 180					5.90	52.85	
									Moderately weak thinly laminated grey MUDSTONE. Bedding fractures (1) are 10 to 30° very closely and closely spaced planar smooth rarely stained reddish brown (up to 5mm either side of fractures). Fractures (2) are 65 to 75 ° very closely and closely spaced rough rarely stained red and yellow.			
15C	7.20	8.70	3.50	100 63 40	NI				Extremely to very weak grey MUDSTONE recovered as angular fine to coarse GRAVEL. Rare reddish brown staining on fracture surfaces.	7.45	51.30	
					40 80				Moderately weak thinly laminated grey MUDSTONE. Fractures are 10 to 30° and 65° to 75° very closely and closely spaced planar smooth and rough rarely stained reddish brown (up to 5mm either side of fracture).	7.70	51.05	

Continued Next Page

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools
1.20	3.50	Windowless Sampler	Geotechnical Pioneer Rig
3.50	14.70	Rotary Core	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
2.10	Nil	2.00	20	

CASING DEPTH

DIAM (mm)	BASE (m)
140	3.50

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.30	Concrete
0.30	0.50	Gravel
0.50	0.90	Bentonite
0.90	11.00	Gravel

INSTRUMENTATION

DEPTH (m)	TYPE
11.00	Standpipe

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	3.50
116	14.70
70	30.00

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
05-11-2020 12:00	0.00	Nil	Dry
05-11-2020 16:30	11.70	3.50	1.14
06-11-2020 08:00	11.70	3.50	1.30
06-11-2020 15:00	30.00	3.50	1.46

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH04

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 05 November 2020 — Easting 362645.7 — Scale 1:50

End Date 06 November 2020 — Northing 171047.4 — Ground Level 58.75mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
					140				Moderately weak thinly laminated grey MUDSTONE. Fractures are 10 to 30° and 65° to 75° very closely and closely spaced planar smooth and rough rarely stained reddish brown (up to 5mm either side of fracture).			
16C	8.70	10.20	3.50	100 80 73								
									9.70 - 9.75m: Thin laminae of extremely weak black coal.			
									9.95 - 10.00m: Thin laminae of extremely weak black coal.			
17C	10.20	11.70	3.50	100 87 80	80 120 460				Medium strong grey fine and medium SANDSTONE with rare carbonaceous laminae (up to 2mm). Fractures are 10 to 20° and 65° to 75° closely to medium spaced planar smooth and rough rarely stained reddish yellow (up to 3mm either side of fractures) rarely infilled with soft grey silty clay.	10.20	48.55	
18C	11.70	13.20	3.50	93 83 80					11.80 - 13.35m: Light grey.			
19C	13.20	14.70	3.50	100 77 73								
									Grey SANDSTONE. No voids detected. (Driller's description). Open-hole drilled.	14.70	44.05	
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	30.00	Rotary Open Hole	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL
11.00	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE

AGS

CONTRACT **36142**

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BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

Geotechnical Engineering Limited

BOREHOLE LOG

BH04

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS

Sheet 3 of 4

Start Date 05 November 2020 Easting 362645.7 Scale 1:50

End Date 06 November 2020 Northing 171047.4 Ground Level 58.75mOD Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend

Continued Next Page

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

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BOREHOLE LOG

BH04

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 05 November 2020 — Easting 362645.7 — Scale 1:50

End Date 06 November 2020 — Northing 171047.4 — Ground Level 58.75mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	28.75	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH05

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 18 November 2020 — Easting 362721.4 — Scale 1:50

End Date 19 November 2020 — Northing 171095.2 — Ground Level 65.70mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1D	0.05	0.15							Grass over reddish brown and brown slightly clayey slightly gravelly fine to coarse SAND with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.	0.25	65.45	
1ES	0.05	0.15										
2B	0.05	0.15										
2ES	0.40	0.60										
3D	0.40	0.60										
4B	0.40	0.60										
3ES	1.00	1.20							Reddish brown clayey very gravelly fine to coarse SAND. Gravel is subangular fine and medium sandstone.			
5D	1.00	1.20										
6B	1.00	1.20	0.00									
7L	1.20	2.00										
8D	1.70	1.80			NI					1.80	63.90	
9C	2.00	2.70	2.00	71 0 0					Weak reddish brown fine to coarse SANDSTONE recovered as slightly sandy subangular and subrounded fine to coarse GRAVEL.	2.70	63.00	
10C	2.70	4.20	2.00	100 19 7	NI 110				Weak reddish brown fine to coarse SANDSTONE. Fractures are randomly orientated extremely closely to closely spaced planar to stepped rough rarely infilled with reddish brown sandy silty clay.	4.20	61.50	
11C	4.20	5.70	2.00	100 46 39	NI 170 200				Very weak thinly bedded reddish brown fine to coarse SANDSTONE. Fractures are subhorizontal closely spaced stepped rough rarely infilled with slightly sandy slightly gravelly clay.	6.50	59.20	
12C	5.70	7.20	2.00	100 60 53								
					NI 150 380				Moderately weak locally weak reddish brown fine to coarse SANDSTONE. Fractures are 10 to 20° rarely subvertical very closely to medium spaced planar and stepped rough rarely infilled with red sandy silty clay .			
13C	7.20	8.70	2.00	100 97 73								

Continued Next Page

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools
1.20	2.00	Windowless Sampler	Geotechnical Pioneer Rig
2.00	14.70	Rotary Core	Geotechnical Pioneer Rig

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)
140	2.00

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.30	Concrete
0.30	0.50	Gravel
0.50	1.90	Bentonite
1.90	12.00	Gravel

INSTRUMENTATION

DEPTH (m)	TYPE
12.00	Standpipe

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	2.00
116	14.70
70	30.00

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
18-11-2020 07:45	0.00	Nil	Dry
18-11-2020 15:30	14.70	2.00	1.68
19-11-2020 08:20	14.70	2.00	2.36
19-11-2020 12:00	30.00	2.00	1.62

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH05

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 18 November 2020 — Easting 362721.4 — Scale 1:50

End Date 19 November 2020 — Northing 171095.2 — Ground Level 65.70mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
14C	8.70	10.20	2.00	100 83 73	30 200 260				Moderately weak locally weak reddish brown fine to coarse SANDSTONE. Fractures are 5 to 10° and 30° to 45° very closely to medium spaced planar rough rarely infilled with sandy silty clay.	8.90	56.80	
15C	10.20	10.90	2.00	100 21 8	NI 90 180				Moderately weak reddish brown fine to coarse SANDSTONE. Fractures are randomly orientated extremely closely to closely space stepped rough rarely stained red and brown.	9.95	55.75	
16C	10.90	11.70	2.00	100 91 88	70 160 270				Moderately weak reddish brown fine to coarse SANDSTONE. Fractures are 10 to 20° closely to medium spaced stepped rough rarely infilled with reddish brown sandy clay.	10.90	54.80	
17C	11.70	13.20	2.00	93 50 50	NI 200				Extremely weak locally very weak reddish brown fine to coarse SANDSTONE locally disintegrating to stiff sandy gravelly clay. Fractures are extremely closely to closely spaced undulating rough.	11.70	54.00	
18C	13.20	14.70	2.00	100 69 53	40 100 290				Weak locally moderately weak reddish brown fine to coarse SANDSTONE. Fractures very closely to medium spaced 0° to 20° and 40° to 50° undulating and planar rough rarely stained brown. 14.35 - 14.45m: Locally disintegrated to firm reddish brown sandy gravelly clay.	12.50	53.20	
									Grey SANDSTONE. No voids detected. (Driller's description). Open hole drilled.	14.70	51.00	
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	30.00	Rotary Open Hole	Geotechnical Pioneer Rig

WATER STRIKE Groundwater not encountered prior to use of flush

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL
12.00	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

CONTRACT **36142**

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Geotechnical Engineering Limited

BOREHOLE LOG

BH05

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 3 of 4

Start Date 18 November 2020 — Easting 362721.4 — Scale 1:50

End Date 19 November 2020 — Northing 171095.2 — Ground Level 65.70mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Continued Next Page			

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

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Geotechnical Engineering Limited

BOREHOLE LOG

BH05

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 18 November 2020 — Easting 362721.4 — Scale 1:50

End Date 19 November 2020 — Northing 171095.2 — Ground Level 65.70mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	35.70	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE Groundwater not encountered prior to use of flush
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

CONTRACT **36142**

CHECKED

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

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BOREHOLE LOG

BH06

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 1 of 4

Start Date 03 November 2020 — Easting 362693.1 — Scale 1:50

End Date 04 November 2020 — Northing 170924.7 — Ground Level 56.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
1B	0.10	0.20							Grass over brown slightly gravelly silty fine to coarse SAND with frequent rootlets. Gravel is subangular fine sandstone and chert.	0.20	56.65	
1ES	0.10	0.20										
2D	0.10	0.20										
2ES	0.20	0.40										
3B	0.20	0.40										
4D	0.20	0.40				0.80			Firm light grey and orange slightly sandy silty CLAY.			
3ES	1.00	1.20										
5B	1.00	1.20										
6D	1.00	1.20	0.00						Stiff light grey mottled orange and red gravelly silty CLAY. Gravel is subangular fine mudstone lithorelicts.	1.20	55.65	
7B	1.20	1.70										
8L	1.20	2.70										
9D	1.80	1.90										
10D	2.30	2.40							Stiff thinly and thickly laminated grey mottled orange slightly gravelly silty CLAY tending to extremely weak MUDSTONE with rare carbonaceous laminae (up to 2mm). Gravel is subangular fine to coarse mudstone lithorelicts.	2.00	54.85	
11C	2.70	4.20	2.70	93	NA							
12B	2.70	2.90		0								
				0	NI				Extremely to very weak grey MUDSTONE recovered as angular fine to coarse GRAVEL. Frequent yellowish brown staining on fracture surfaces.	2.90	53.95	
13D	3.70	3.80								3.80	53.05	
					NI				Very weak grey fine SANDSTONE. Fractures are randomly orientated very closely spaced planar rough rarely stained yellowish brown.			
					70							
14C	4.20	5.70	2.70	93								
				0								
15D	4.70	4.80		0								
										5.50	51.35	
16C	5.70	7.20	2.70	100					Extremely weak to very weak thinly and thickly laminated grey MUDSTONE recovered as silty subangular fine to coarse GRAVEL.			
				27								
17D	6.10	6.20		7								
										6.90	49.95	
					NI				Moderately weak locally weak grey fine SANDSTONE. Fractures are 0 to 30° and 70° to 80° closely spaced stepped and planar rough rarely infilled with slightly gravelly silty clay rarely stained yellowish brown.			
					130							
18C	7.20	8.70	2.70		200							
				93								
				70								
				70								

Continued Next Page

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
0.00	1.20	Inspection Pit	Hand tools
1.20	2.70	Windowless Sampler	Geotechnical Pioneer Rig
2.70	14.70	Rotary Core	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS
0.80	Nil	0.30	20	

CASING DEPTH

DIAM (mm)	BASE (m)
140	2.70

BACKFILL

TOP (m)	BASE (m)	MATERIAL
0.00	0.20	Concrete
0.20	0.30	Gravel
0.30	0.90	Bentonite
0.90	9.00	Gravel

INSTRUMENTATION

DEPTH (m)	TYPE
9.00	Standpipe

AGS

BARREL DIAMETER

DIAM (mm)	BASE (m)
128	2.70
116	14.70
70	30.00

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)
03-11-2020 09:00	0.00	Nil	Dry
03-11-2020 16:00	7.20	2.70	1.17
04-11-2020 08:00	7.20	2.70	1.32
04-11-2020 16:30	30.00	2.70	1.49

REMARKS

CONTRACT **36142**

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BOREHOLE LOG

BH06

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 2 of 4

Start Date 03 November 2020 — Easting 362693.1 — Scale 1:50

End Date 04 November 2020 — Northing 170924.7 — Ground Level 56.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
					130 400 860					8.20	48.65	
19C	8.70	10.20	2.70	100 100 100					Moderately weak and weak grey fine SANDSTONE. Fractures are 0 to 25° and 70° to 80° closely to widely spaced planar rough.			
20C	10.20	11.70	2.70	100 97 97								
21C	11.70	13.20	2.70	100 97 93								
22C	13.20	14.70	2.70	100 100 70								
									Grey SANDSTONE. No voids detected. (Driller's description). Open hole drilled.	14.70	42.15	
									Continued Next Page			

HOLE CONSTRUCTION

TOP (m)	BASE (m)	TYPE	PLANT USED
14.70	30.00	Rotary Open Hole	Geotechnical Pioneer Rig

WATER STRIKE

DEPTH (m)	CASING (m)	ROSE TO (m)	AFTER (min)	REMARKS

CASING DEPTH

DIAM (mm)	BASE (m)

BACKFILL

TOP (m)	BASE (m)	MATERIAL
9.00	30.00	Bentonite

INSTRUMENTATION

DEPTH (m)	TYPE

BARREL DIAMETER

DIAM (mm)	BASE (m)

HOLE PROGRESS

DATE TIME	DEPTH (m)	CASING (m)	WATER (m)

REMARKS

CONTRACT 36142

CHECKED

Geotechnical Engineering Limited

BOREHOLE LOG

BH06

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 3 of 4

Start Date 03 November 2020 — Easting 362693.1 — Scale 1:50

End Date 04 November 2020 — Northing 170924.7 — Ground Level 56.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Continued Next Page			

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

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Geotechnical Engineering Limited

BOREHOLE LOG

BH06

CLIENT CAMPBELLREITH

SITE BRISLINGTON MEADOWS — Sheet 4 of 4

Start Date 03 November 2020 — Easting 362693.1 — Scale 1:50

End Date 04 November 2020 — Northing 170924.7 — Ground Level 56.85mOD — Depth 30.00 m

sample no & type	sample depth (m) from	to	casing depth (m)	samp. /core range	If	water record depth (m)	instru -ment	test type & value	description	depth (m)	reduced level (m)	legend
									Borehole Completed at 30.00m	30.00	26.85	

HOLE CONSTRUCTION
TOP (m) BASE (m) TYPE PLANT USED

WATER STRIKE
DEPTH (m) CASING (m) ROSE TO (m) AFTER (min) REMARKS

CASING DEPTH
DIAM (mm) BASE (m)

BACKFILL
TOP (m) BASE (m) MATERIAL

INSTRUMENTATION
DEPTH (m) TYPE

AGS

BARREL DIAMETER
DIAM (mm) BASE (m)

HOLE PROGRESS
DATE TIME DEPTH (m) CASING (m) WATER (m)

REMARKS

CONTRACT **36142**

CHECKED

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP01

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 06 November 2020 Easting 362502.7

Scale 1:25

End Date 06 November 2020 Northing 171290.5 Ground Level 61.60mOD

Depth 1.10 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B 1ES 2D	0.00 0.00 0.00	0.15 0.15 0.15			Soft dark brown slightly gravelly sandy CLAY with a low subangular and subrounded sandstone cobble content and frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
3B 4D	0.50 0.50	0.60 0.60			Moderately weak light greenish grey locally reddish brown fine to coarse SANDSTONE. Fractures are subvertical planar smooth and tight. Recovered as sandy clayey angular to subrounded fine to coarse gravel.	0.50	61.10	
2ES 5D 6LB	0.90 0.90 0.90	1.00 1.00 1.00						
					Trial pit Completed at 1.10m	1.10	60.50	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 1.10m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	1.10	Arisings	

AGS

CONTRACT

36142

CHECKED

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP02

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 06 November 2020 Easting 362567.5

Scale 1:25

End Date 06 November 2020 Northing 171209.3 Ground Level 60.70mOD

Depth 3.70 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly sandy CLAY with a low subangular and subrounded sandstone cobble content and frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15				0.20	60.50	
					Reddish brown and grey clayey fine to coarse SAND and angular and subangular fine to coarse sandstone GRAVEL.			
2ES	0.90	1.00						
3D	0.90	1.00						
4B	0.90	1.00						
					Moderately weak locally weak light greenish grey locally reddish brown fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as fine to medium sand and angular and subrounded fine to coarse sandstone gravel with a high subangualr and subrounded sandstone cobble content.	1.20	59.50	
3ES	1.90	2.00						
5D	1.90	2.00						
6LB	1.90	2.00						
7D	2.50	2.60						
8D	3.40	3.50						
					Trial pit Completed at 3.70m	3.70	57.00	

Equipment: JCB 3CX

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 3.70m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.70	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT 36142

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP03

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362617.2

Scale 1:25

End Date 05 November 2020 Northing 171170.0 Ground Level 62.30mOD

Depth 3.70 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15						
						0.40	61.90	
					Moderately weak light greenish grey locally reddish brown fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as subangular to subrounded fine to coarse gravel with a high subangular and subrounded sandstone cobble content.			
2ES	0.90	1.00						
3D	0.90	1.00						
4B	0.90	1.00						
5D	1.50	1.60						
6LB	1.90	2.00						
3ES	2.30	2.40						
7D	2.30	2.40						
8B	2.30	2.40						
9D	2.50	2.60						
10D	3.50	3.60						
					Trial pit Completed at 3.70m	3.70	58.60	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 3.70m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.70	Arisings	

AGS

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP04

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 06 November 2020 Easting 362558.1

Scale 1:25

End Date 06 November 2020 Northing 171128.6 Ground Level 55.70mOD

Depth 2.60 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D 1ES 2B	0.00 0.00 0.00	0.15 0.15 0.15			Soft dark brown slightly gravelly sandy CLAY with a low subangular and subrounded sandstone cobble content and frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
						0.50	55.20	
2ES 3D 4LB	0.90 0.90 0.90	1.00 1.00 1.00			Moderately weak light greenish grey locally reddish brown fine and medium SANDSTONE. Fractures are subvertical planar smooth and tight. Recovered as sandy angular to subrounded fine to coarse sandstone gravel with a medium subangular sandstone cobble content.			
5D	1.90	2.00						
6B	2.50	2.60						
					Trial pit Completed at 2.60m	2.60	53.10	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 2.60m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.60	Arisings	

AGS

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP05

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362601.0

Scale 1:25

End Date 05 November 2020 Northing 171103.2 Ground Level 58.15mOD

Depth 3.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15						
						0.20	57.95	
					Reddish brown and grey clayey SAND and subangular fine to coarse sandstone GRAVEL.			
2ES	0.70	0.80						
3D	0.70	0.80						
4B	0.70	0.80				0.80	57.35	
3ES	0.90	1.00			Moderately weak reddish brown locally light greenish grey fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as sandy angular to subrounded fine to coarse GRAVEL with a high angular to subrounded sandstone cobble content.			
5B	0.90	1.00						
6D	0.90	1.00						
7D	1.50	1.60						
8B	1.90	2.00						
9D	2.50	2.60						
10LB	2.90	3.00						
					Trial pit Completed at 3.00m	3.00	55.15	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 3.00m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.00	Arisings	

AGS

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP06

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362664.7

Scale 1:25

End Date 05 November 2020 Northing 171108.5 Ground Level 62.85mOD

Depth 3.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15			Soft to firm reddish brown gravelly sandy silty CLAY. Gravel is angular to subrounded fine to coarse sandstone.	0.15	62.70	
2ES	0.70	0.80						
3D	0.70	0.80						
4B	0.70	0.80						
3ES	1.20	1.30						
5D	1.20	1.30						
6B	1.20	1.30			Moderately weak reddish brown locally light greenish grey fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as sandy angular to subrounded fine to coarse GRAVEL with a high angular to subrounded sandstone cobble content.	1.30	61.55	
7D	1.50	1.60						
8D	2.50	2.60						
9LB	2.90	3.00						
					Trial pit Completed at 3.00m	3.00	59.85	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 3.00m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.00	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT

36142

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP07

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362747.1

Scale 1:25

End Date 05 November 2020 Northing 171140.7 Ground Level 67.85mOD

Depth 1.70 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D 1ES 2B	0.00 0.00 0.00	0.15 0.15 0.15			Soft dark brown slightly gravelly sandy CLAY with a low subangular and subrounded sandstone cobble content and frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
					Soft to firm dark brown slightly gravelly slightly sandy CLAY. Gravel is subangular and subrounded fine to coarse sandstone.	0.20	67.65	
2ES 3D 4B	0.90 0.90 0.90	1.00 1.00 1.00			Moderately weak reddish brown locally light greenish grey fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as sandy angular to subrounded fine to coarse GRAVEL with a high angular to subrounded sandstone cobble content.	0.70	67.15	
					Trial pit Completed at 1.70m	1.70	66.15	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 1.70m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	1.70	Arisings	

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP08

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362807.5

Scale 1:25

End Date 05 November 2020 Northing 171109.0 Ground Level 67.30mOD

Depth 1.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15						
						0.40	66.90	
					Moderately weak reddish brown locally light greenish grey fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight and rare red matrix infill (up to 1mm). Recovered as sandy angular to subrounded fine to coarse GRAVEL with a high angular to suborunded sandstone cobble content.			
2ES	0.90	1.00						
3D	0.90	1.00						
4B	0.90	1.00				1.00	66.30	
					Trial pit Completed at 1.00m			

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 1.00m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	1.00	Arisings	

AGS

CONTRACT

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP09

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 04 November 2020 Easting 362751.2

Scale 1:25

End Date 04 November 2020 Northing 171059.8 Ground Level 65.35mOD

Depth 4.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2B	0.00	0.15						
						0.25	65.10	
2ES	0.30	0.50			Moderately weak reddish brown and light greenish grey fine and medium SANDSTONE. Recovered as gravelly fine to medium SAND with a medium subangualr sandstone cobble content. Gravel is subangular fine to coarse sandstone.			
3D	0.30	0.50						
4LB	0.30	0.50						
3ES	0.80	1.00						
5D	0.80	1.00						
6B	0.80	1.00						
7D	1.90	2.00						
8B	2.50	2.70						
9D	2.90	3.00						
10B	3.50	3.60						
11D	3.90	4.00						
					Trial pit Completed at 4.00m	4.00	61.35	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 4.00m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	4.00	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT

36142

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP10

SITE BRISLINGTON MEADOWS

Sheet 1 of 2

Start Date 04 November 2020 Easting 362694.2

Scale 1:25

End Date 04 November 2020 Northing 171024.0 Ground Level 61.40mOD

Depth 4.80 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D	0.00	0.20			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.20						
2B	0.00	0.20				0.20	61.20	
2ES	0.30	0.50			Reddish brown very sandy very clayey subangular and subrounded fine to coarse sandstone GRAVEL.			
3D	0.30	0.50						
4B	0.30	0.50						
3ES	1.90	2.10						
5B	1.90	2.10						
6D	1.90	2.10						
4ES	2.80	3.00			Moderately weak thinly bedded reddish brown and light greenish grey fine to coarse SANDSTONE. Recovered as angular and subangular fine to coarse sandstone GRAVEL.	2.80	58.60	
					Continued Next Page			

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m

Sidewall stability: Stable.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	4.80	Arisings	

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP10

SITE BRISLINGTON MEADOWS

Sheet 2 of 2

Start Date 04 November 2020 Easting 362694.2

Scale 1:25

End Date 04 November 2020 Northing 171024.0 Ground Level 61.40mOD

Depth 4.80 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
					Moderately weak thinly bedded reddish brown and light greenish grey fine to coarse SANDSTONE. Recovered as angular and subangular fine to coarse sandstone GRAVEL.			
					Trial pit Completed at 4.80m	4.80	56.60	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m

Sidewall stability: Stable.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	4.80	Arisings	

AGS

CONTRACT

36142

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP11

SITE BRISLINGTON MEADOWS

Sheet 1 of 2

Start Date 03 November 2020 Easting 362749.9

Scale 1:25

End Date 03 November 2020 Northing 170997.7 Ground Level 61.95mOD

Depth 5.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
1ES	0.00	0.15						
2D	0.00	0.15				0.20	61.75	
2ES	0.30	0.40			Reddish brown clayey sandy subangular and subrounded fine to coarse sandstone GRAVEL with a low subangular sandstone cobble content.			
2ES	0.30	0.40						
3B	0.30	0.40						
4D	0.30	0.40						
3ES	0.80	1.00						
3ES	0.80	1.00						
5D	0.80	1.00						
6B	0.80	1.00						
7LB	2.00	2.20						
8B	3.00	3.20				3.00	58.95	
					Moderately weak thinly bedded reddish brown and greenish grey medium to coarse SANDSTONE. Recovered as slightly sandy very gravelly sandstone COBBLES. Gravel is angular and subangular fine to coarse sandstone.			
					Continued Next Page			

Equipment: JCB 3CX.

Pit width x length: 0.70m x 3.00m

Sidewall stability: Stable.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	5.00	Arisings	

AGS

CONTRACT

36142

CHECKED

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP11

SITE BRISLINGTON MEADOWS

Sheet 2 of 2

Start Date 03 November 2020 Easting 362749.9

Scale 1:25

End Date 03 November 2020 Northing 170997.7 Ground Level 61.95mOD

Depth 5.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
9B	4.50	4.60			Moderately weak thinly bedded reddish brown and greenish grey medium to coarse SANDSTONE. Recovered as slightly sandy very gravelly sandstone COBBLES. Gravel is angular and subangular fine to coarse sandstone.			
					Trial pit Completed at 5.00m	5.00	56.95	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 3.00m

Sidewall stability: Stable.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	5.00	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

CONTRACT

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP12

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 03 November 2020 Easting 362699.0

Scale 1:25

End Date 03 November 2020 Northing 170947.2 Ground Level 57.80mOD

Depth 3.60 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2D	0.00	0.15						
						0.20	57.60	
2ES	0.30	0.50			Soft light brown mottled light grey slightly sandy CLAY with rare rootlet traces.			
3B	0.30	0.50						
4D	0.30	0.50						
						0.70	57.10	
					Firm locally stiff orangish brown mottled light grey slightly sandy silty CLAY.			
3ES	0.90	1.10						
5LB	0.90	1.10						
6D	0.90	1.10						
						1.30	56.50	
					Reddish brown and grey slightly clayey very gravelly SAND. Gravel is subangular fine to coarse sandstone.			
					Trial pit Completed at 3.60m	3.60	54.20	

Equipment: JCB 3CX

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 3.60m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.60	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP13

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 06 November 2020 Easting 362460.3

Scale 1:25

End Date 06 November 2020 Northing 171276.0 Ground Level 56.60mOD

Depth 0.85 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D 1ES 2LB	0.00 0.00 0.00	0.15 0.15 0.15			Soft dark brown slightly gravelly sandy CLAY with a low subangular and subrounded sandstone cobble content and frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.	0.15	56.45	
					Reddish brown slightly clayey gravelly fine and medium SAND with medium cobble content. Gravel is subangular and subrounded fine to coarse sandstone. Cobbles are subangular to subrounded sandstone.	0.60	56.00	
2ES 3D 4B	0.70 0.70 0.70	0.80 0.80 0.80			Moderately weak light greenish grey locally reddish brown fine and medium SANDSTONE. Fractures are subvertical planar smooth and tight. Recovered as sandy clayey angular to subrounded fine to coarse sandstone GRAVEL with a high subangular sandstone cobble content.	0.85	55.75	
					Trial pit Completed at 0.85m			

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: Trial pit terminated at 0.85m due to hard ground preventing progress.

Groundwater: Groundwater not encountered

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	0.85	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP14

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 20 November 2020 Easting 362967.5

Scale 1:25

End Date 20 November 2020 Northing 171150.5 Ground Level 61.00mOD

Depth 2.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
					Yellowish brown slightly sandy subangular and subrounded fine and medium flint GRAVEL. (MADE GROUND)			
1B	0.20	0.30				0.15	60.85	
1ES	0.20	0.30			Grey slightly sandy subangular and subrounded fine to coarse limestone GRAVEL with a high subangular limestone cobble content. (MADE GROUND)			
2D	0.20	0.30				0.40	60.60	
2ES	0.50	0.60			Yellowish brown slightly gravelly fine to coarse SAND. Gravel is subangular fine to medium flint.			
3B	0.50	0.60						
4D	0.50	0.60				0.70	60.30	
					Reddish brown very gravelly fine to coarse SAND with low subangular sandstone cobble content. Gravel is subangular fine to coarse sandstone.			
3ES	0.90	1.00						
5B	0.90	1.00						
6D	0.90	1.00				1.10	59.90	
					Reddish brown clayey very sandy subangular fine to coarse sandstone GRAVEL with a medium subangular grey and reddish brown sandstone cobble content.			
4ES	1.70	1.80						
7B	1.70	1.80						
8D	1.70	1.80						
						1.90	59.10	
					Moderately weak fractured grey and reddish brown fine to coarse SANDSTONE recovered as sandy subangular fine to coarse gravel with a high subangular cobble content.	2.00	59.00	
					Trial pit Completed at 2.00m			

Equipment: JCB 3CX

Pit width x length: 0.70m x 1.70m Sidewall stability: Stable.

Remarks: DCP undertaken at 0.30m. Trial pit terminated at 2.00m due to hard ground preventing progress.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
1.90	1.95	20	Seepage. Water pooling in base of pit.

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.00	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP15

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 20 November 2020 Easting 362953.6

Scale 1:25

End Date 20 November 2020 Northing 171124.9 Ground Level 61.30mOD

Depth 2.00 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
					MADE GROUND comprising dark grey TARMACADAM.	0.10	61.20	
1B	0.20	0.30			Grey and pinkish brown slightly sandy subangular fine to coarse limestone GRAVEL with a high subangular limestone cobble content. (MADE GROUND)			
1ES	0.20	0.30				0.30	61.00	
2D	0.20	0.30			Firm orangish brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular and subrounded fine and medium flint.			
2ES	0.40	0.50						
3B	0.40	0.50		▼				
4D	0.40	0.50			0.60m: Becoming sandy.			
						1.10	60.20	
3ES	1.20	1.30			Reddish brown silty gravelly fine to coarse SAND. Gravel is subangular fine to coarse sandstone.			
5B	1.20	1.30						
6D	1.20	1.30				1.40	59.90	
					Reddish brown sandy subangular fine to coarse sandstone GRAVEL with a high subangular grey and reddish brown sandstone cobble content.			
4ES	1.60	1.70		▼				
7B	1.60	1.70						
8D	1.60	1.70				1.80	59.50	
					Moderately weak fractured grey and reddish brown fine to coarse SANDSTONE recovered as sandy subangular fine to coarse gravel with a high subangular cobble content.	2.00	59.30	
					Trial pit Completed at 2.00m			

Equipment: JCB 3CX

Pit width x length: 0.70m x 1.80m Sidewall stability: Stable.

Remarks: DCP undertaken at 0.30m. Trial pit terminated at 2.00m due to hard ground preventing progress.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
0.50	0.50	20	Seepage. Water pooling in base of pit.
1.60	1.60	20	Seepage. Water pooling in base of pit.

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.00	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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TRIAL PIT LOG

CLIENT CAMPBELLREITH

TP16

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 20 November 2020 Easting 362909.0

Scale 1:25

End Date 20 November 2020 Northing 171118.0 Ground Level 61.35mOD

Depth 2.90 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B 1ES 2D	0.10	0.20			Grass over brown slightly gravelly slightly sandy clayey SILT with frequent black carbonaceous traces (up to 10mm) and frequent rootlets. Gravel is subangular and subrounded fine to coarse chert, brick, concrete and rare plastic fragments.			
2ES 3B 4D	0.40	0.50			Firm reddish brown slightly sandy slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium flint.	0.35	61.00	
3ES 5B 6D	0.90	1.00			Stiff reddish brown slightly sandy CLAY.	0.80	60.55	
4ES 7B 8D	1.90	2.00		▼	Stiff orangish brown slightly sandy CLAY. 2.60m: Tending orangish brown and grey.	1.70	59.65	
10D 9B	2.80	2.90			Moderately weak fractured grey and reddish brown fine to coarse SANDSTONE recovered as sandy subangular fine to coarse gravel with a high subangular cobble content.	2.80 2.90	58.55 58.45	
					Trial pit Completed at 2.90m			

Equipment: JCB 3CX

Pit width x length: 0.70m x 2.10m Sidewall stability: Stable.

Remarks: DCP undertaken at 0.30m. Trial pit terminated at 2.90m due to hard ground preventing progress.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
1.80	1.80	20	Seepage. Water pooling in base of pit.

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.90	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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TRIAL PIT LOG

CLIENT CAMPBELLREITH

SA01

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 06 November 2020 Easting 362503.9

Scale 1:25

End Date 06 November 2020 Northing 171086.4 Ground Level 47.45mOD

Depth 2.50 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D 1ES 2B	0.00	0.15			Soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
						0.50	46.95	
					Reddish brown slightly clayey gravelly fine and medium SAND. Gravel is subangular and subrounded fine to coarse sandstone.			
2ES 3D 4B	0.90	1.00						
3ES 5D 6B	1.90	2.00						
				▼				
					Trial pit Completed at 2.50m	2.50	44.95	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 2.00m Sidewall stability: Stable.

Remarks: BRE 365 Soakaway test undertaken in trial pit.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
2.50	2.50	20	

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.50	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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TRIAL PIT LOG

CLIENT CAMPBELLREITH

SA02

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 05 November 2020 Easting 362588.5

Scale 1:25

End Date 05 November 2020 Northing 171075.7 Ground Level 55.25mOD

Depth 3.10 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1D 1ES 2B	0.00 0.00 0.00	0.15 0.15 0.15			Soft dark reddish brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
						0.70	54.55	
2ES 3D 4B	0.90 0.90 0.90	1.00 1.00 1.00			Reddish brown slightly clayey gravelly fine and medium SAND with a high subangular and subrounded sandstone cobble content. Gravel is subangular and subrounded fine to coarse sandstone.			
5LB	1.30	1.40						
3ES 6D 7B	1.90 1.90 1.90	2.00 2.00 2.00						
					Medium strong locally weak light greenish grey locally reddish brown fine to coarse SANDSTONE. Fractures are subvertical planar smooth tight with rare dark red infill (up to 1mm).	2.80	52.45	
					Trial pit Completed at 3.10m	3.10	52.15	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 2.85m Sidewall stability: Stable.

Remarks: BRE 365 Soakaway test undertaken in trial pit.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
3.10	3.10	20	

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	3.10	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

SA03

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 04 November 2020 Easting 362627.0

Scale 1:25

End Date 04 November 2020 Northing 171047.9 Ground Level 57.00mOD

Depth 1.80 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B	0.00	0.15			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
1ES	0.00	0.15						
2D	0.00	0.15						
						0.20	56.80	
2ES	0.30	0.40			Reddish brown slightly clayey gravelly fine and medium SAND. Gravel is subangular and subrounded fine to coarse sandstone.			
3D	0.30	0.40						
4B	0.30	0.40						
						0.60	56.40	
					Reddish brown gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse sandstone.			
3ES	1.10	1.20						
5B	1.10	1.20						
6D	1.10	1.20						
				▼				
					Trial pit Completed at 1.80m	1.80	55.20	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: BRE 365 Soakaway test undertaken in trial pit.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
1.80	1.80	20	

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	1.80	Arisings	

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

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Geotechnical Engineering Limited

TRIAL PIT LOG

CLIENT CAMPBELLREITH

SA04

SITE BRISLINGTON MEADOWS

Sheet 1 of 1

Start Date 03 November 2020 Easting 362728.3

Scale 1:25

End Date 03 November 2020 Northing 170971.0 Ground Level 60.10mOD

Depth 2.30 m

sample no & type	sample depth (m) from	to	test type & value	water record	description	depth (m)	reduced level (m)	legend
1B 1ES 2D	0.10 0.10 0.10	0.30 0.30 0.30			Soft dark brown slightly gravelly slightly sandy CLAY with frequent rootlets. Gravel is subangular and subrounded fine to coarse sandstone.			
					Reddish brown slightly clayey gravelly fine and medium SAND. Gravel is subangular and subrounded fine to coarse sandstone.	0.30	59.80	
2ES 3LB 4D	0.90 0.90 0.90	1.10 1.10 1.10						
3ES 5LB 6D	2.10 2.10 2.10	2.30 2.30 2.30			Reddish brown slightly clayey sandy GRAVEL. Gravel is subangular fine to coarse sandstone.	2.10	58.00	
					Trial pit Completed at 2.30m	2.30	57.80	

Equipment: JCB 3CX.

Pit width x length: 0.70m x 4.00m Sidewall stability: Stable.

Remarks: BRE 365 Soakaway test undertaken in trial pit.

Groundwater:

Depth Strike (m)	Rose to (m)	Time to rise (min)	Remarks
2.30	2.00	20	

Backfill details:

Depth Top (m)	Depth Base (m)	Material	Remarks
0.00	2.30	Arisings	

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EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Appendix D: Infiltration Test Locations & Logs

Key.

North

Locations By Type - RC

Locations By Type - TP

Notes:

Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation

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E-mail: geotech@geoeng.co.uk
Web: www.geoeng.co.uk

Client: CAMPBELLREITH

Site: BRISLINGTON MEADOWS

Title: EXPLORATORY HOLE LOCATION PLAN

Drawn By:	JE	Checked By:	JH	Paper Size:	A3
Scale:	1:2500			Date:	February 2021
Contract:	36142			Figure:	1

Geotechnical Engineering Limited

SOAKAWAY TEST

CLIENT CAMPBELLREITH
SITE BRISLINGTON MEADOWS
DATE 06/11/2020

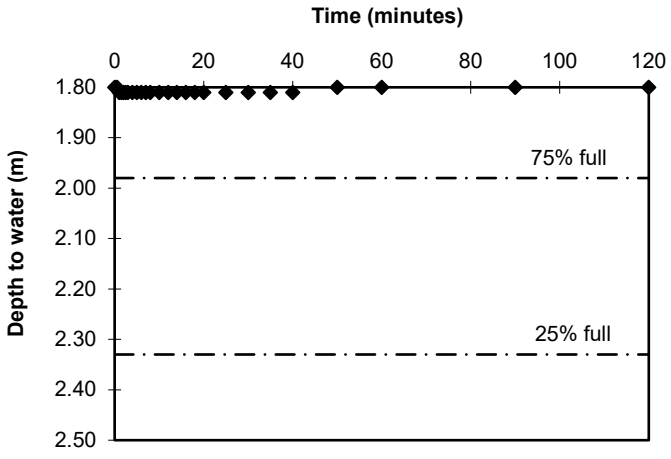
TRIAL PIT **SA01**

TEST 1

LENGTH	2.90	m
BREADTH	0.70	m
DEPTH	2.50	m
WATER LEVEL	2.50	m
FILL LEVEL	1.80	m
v_{p75-25}	n/a	m^3
a_{p50}	n/a	m^2
t_{p75-25}	n/a	min

soil infiltration rate, *f* *** x 10^{-*} ms^{-1}**

Insufficient fall in level to calculate infiltration rate.

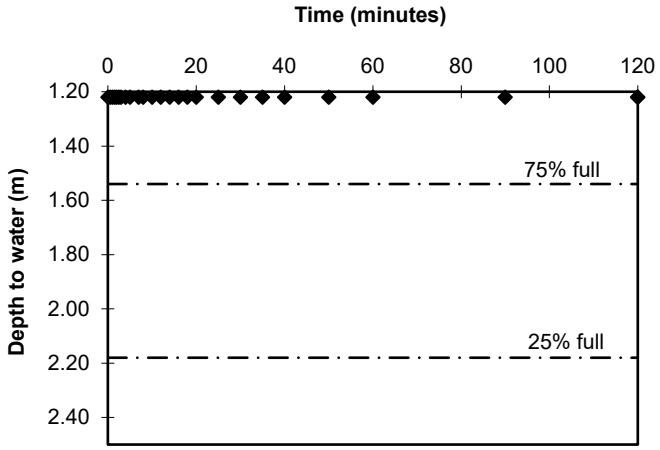


TEST 2

LENGTH	2.90	m
BREADTH	0.70	m
DEPTH	2.50	m
WATER LEVEL	2.50	m
FILL LEVEL	1.22	m
v_{p75-25}	n/a	m^3
a_{p50}	n/a	m^2
t_{p75-25}	n/a	min

soil infiltration rate, *f* *** x 10^{-*} ms^{-1}**

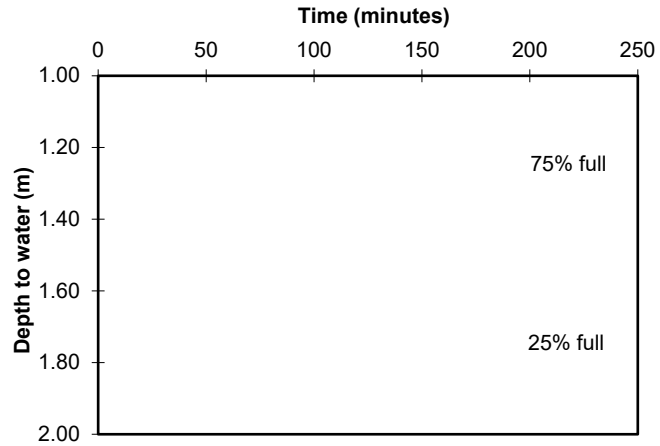
Insufficient fall in level to calculate infiltration rate.



TEST 3

LENGTH		m
BREADTH		m
DEPTH		m
WATER LEVEL		m
FILL LEVEL		m
v_{p75-25}		m^3
a_{p50}		m^2
t_{p75-25}		min

soil infiltration rate, *f* *** x 10^{-*}** **ms^{-1}**



Remarks Test carried out in accordance with BRE DG 365 (2016).

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SOAKAWAY TEST

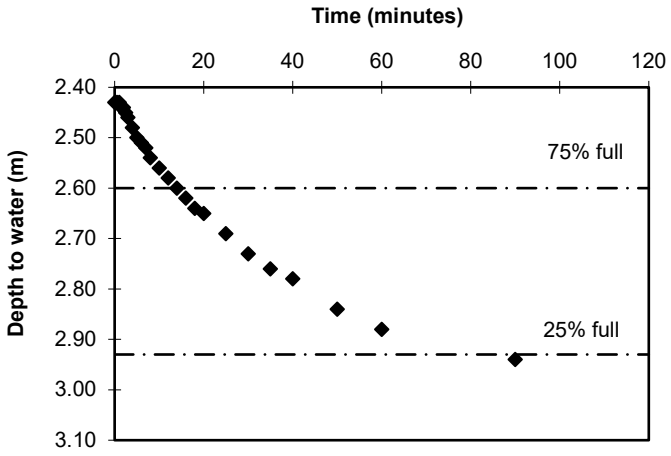
CLIENT CAMPBELLREITH
SITE BRISLINGTON MEADOWS
DATE 05/11/2020

TRIAL PIT **SA02**

TEST 1

LENGTH	2.85	m
BREADTH	0.70	m
DEPTH	3.10	m
WATER LEVEL	3.10	m
FILL LEVEL	2.43	m
v_{p75-25}	0.670	m^3
a_{p50}	4.370	m^2
t_{p75-25}	72	min

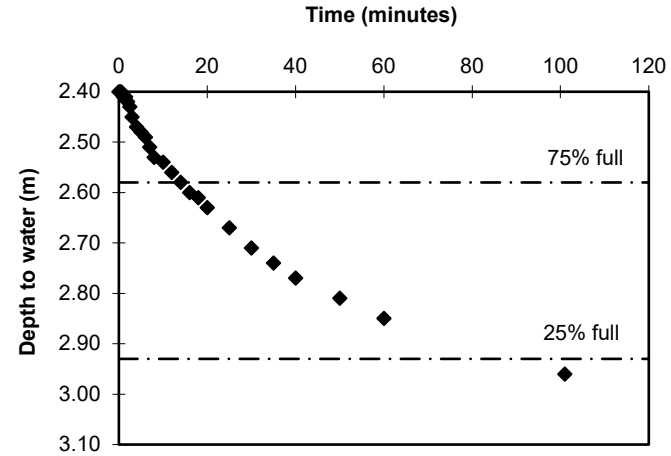
soil infiltration rate, *f* **3.5×10^{-5} ms^{-1}**



TEST 2

LENGTH	2.85	m
BREADTH	0.70	m
DEPTH	3.10	m
WATER LEVEL	3.10	m
FILL LEVEL	2.40	m
v_{p75-25}	0.690	m^3
a_{p50}	4.480	m^2
t_{p75-25}	79	min

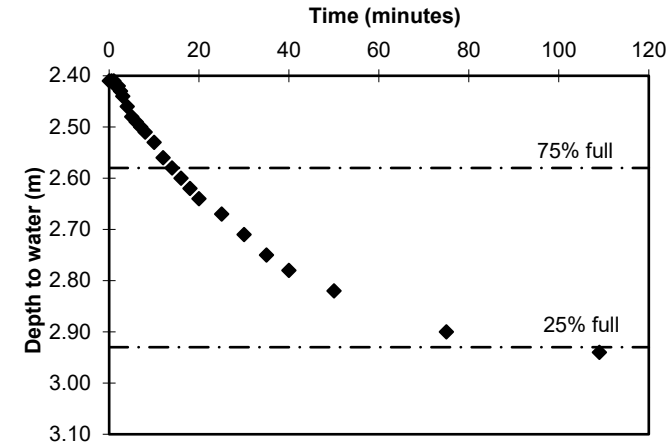
soil infiltration rate, *f* **3.3×10^{-5} ms^{-1}**



TEST 3

LENGTH	2.85	m
BREADTH	0.70	m
DEPTH	3.10	m
WATER LEVEL	3.10	m
FILL LEVEL	2.41	m
v_{p75-25}	0.690	m^3
a_{p50}	4.440	m^2
t_{p75-25}	87	min

soil infiltration rate, *f* **3.0×10^{-5} ms^{-1}**



Remarks Test carried out in accordance with BRE DG 365 (2016).

CONTRACT	CHECKED
36142	**CT**

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SOAKAWAY TEST

CLIENT CAMPBELLREITH
SITE BRISLINGTON MEADOWS
DATE 04/11/2020

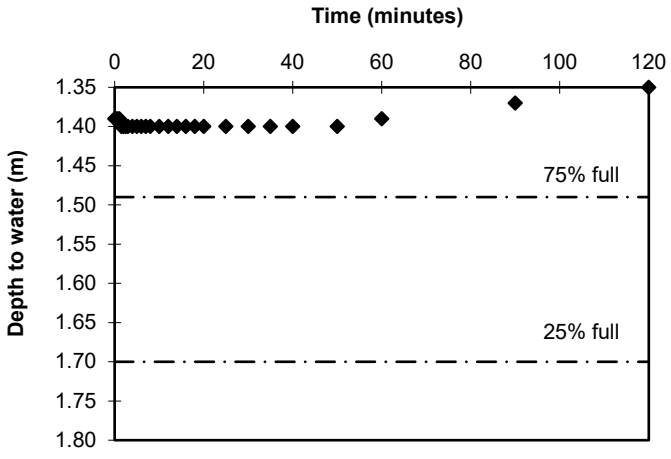
TRIAL PIT **SA03**

TEST 1

LENGTH	4.00	m
BREADTH	0.70	m
DEPTH	1.80	m
WATER LEVEL	1.80	m
FILL LEVEL	1.39	m
v_{p75-25}	n/a	m^3
a_{p50}	n/a	m^2
t_{p75-25}	n/a	min

soil infiltration rate, *f* *** x 10^{-*} ms^{-1}**

Unable to calculate infiltration rate as the level rose.

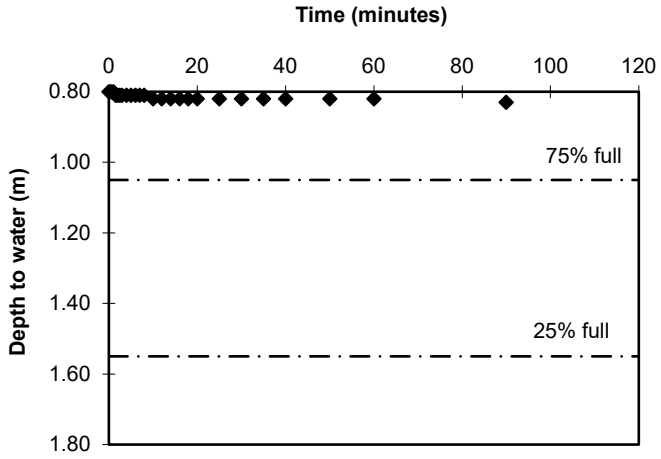


TEST 2

LENGTH	4.00	m
BREADTH	0.70	m
DEPTH	1.80	m
WATER LEVEL	1.35	m
FILL LEVEL	0.80	m
v_{p75-25}	n/a	m^3
a_{p50}	n/a	m^2
t_{p75-25}	n/a	min

soil infiltration rate, *f* *** x 10^{-*} ms^{-1}**

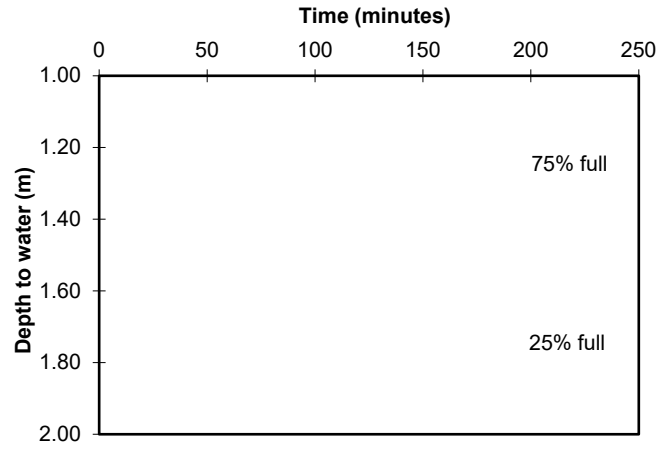
Insufficient fall in level to calculate infiltration rate.



TEST 3

LENGTH		m
BREADTH		m
DEPTH		m
WATER LEVEL		m
FILL LEVEL		m
v_{p75-25}		m^3
a_{p50}		m^2
t_{p75-25}		min

soil infiltration rate, *f* *** x 10^{-*}** **ms^{-1}**



Remarks Test carried out in accordance with BRE DG 365 (2016).

CONTRACT	CHECKED
36142	**CT**

TW/ JE

Geotechnical Engineering Limited

SOAKAWAY TEST

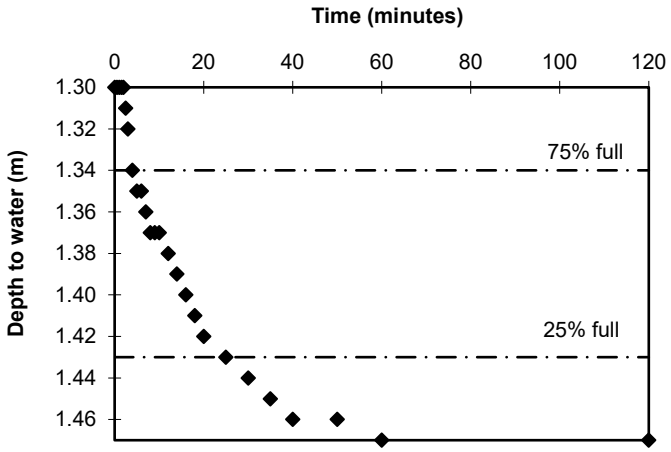
CLIENT CAMPBELLREITH
SITE BRISLINGTON MEADOWS
DATE 03/11/2020

TRIAL PIT **SA04**

TEST 1

LENGTH	3.60	m
BREADTH	0.80	m
DEPTH	2.00	m
WATER LEVEL	2.00	m
FILL LEVEL	1.30	m
v_{p75-25}	0.250	m^3
a_{p50}	8.290	m^2
t_{p75-25}	21	min

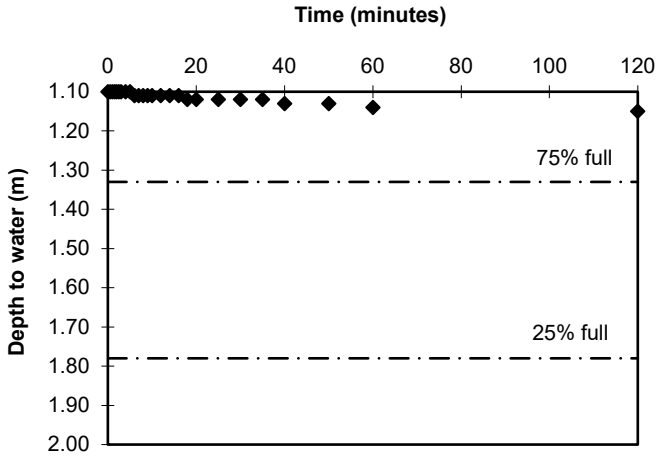
soil infiltration rate, *f* **2.3×10^{-5} ms^{-1}**
Calculated over depth range achieved for test.
Treat with caution



TEST 2

LENGTH	3.60	m
BREADTH	0.80	m
DEPTH	2.00	m
WATER LEVEL	2.00	m
FILL LEVEL	1.10	m
v_{p75-25}	n/a	m^3
a_{p50}	n/a	m^2
t_{p75-25}	n/a	min

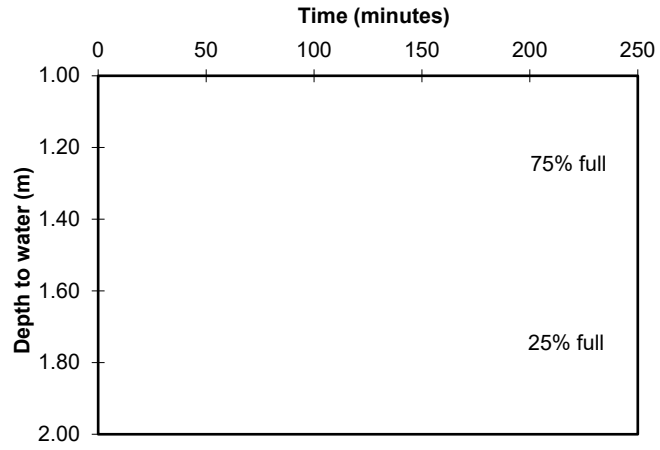
soil infiltration rate, *f* *** x 10^{-*} ms^{-1}**
Insufficient fall in level to calculate infiltration rate.



TEST 3

LENGTH		m
BREADTH		m
DEPTH		m
WATER LEVEL		m
FILL LEVEL		m
v_{p75-25}		m^3
a_{p50}		m^2
t_{p75-25}		min

soil infiltration rate, *f* *** x 10^{-*}** **ms^{-1}**



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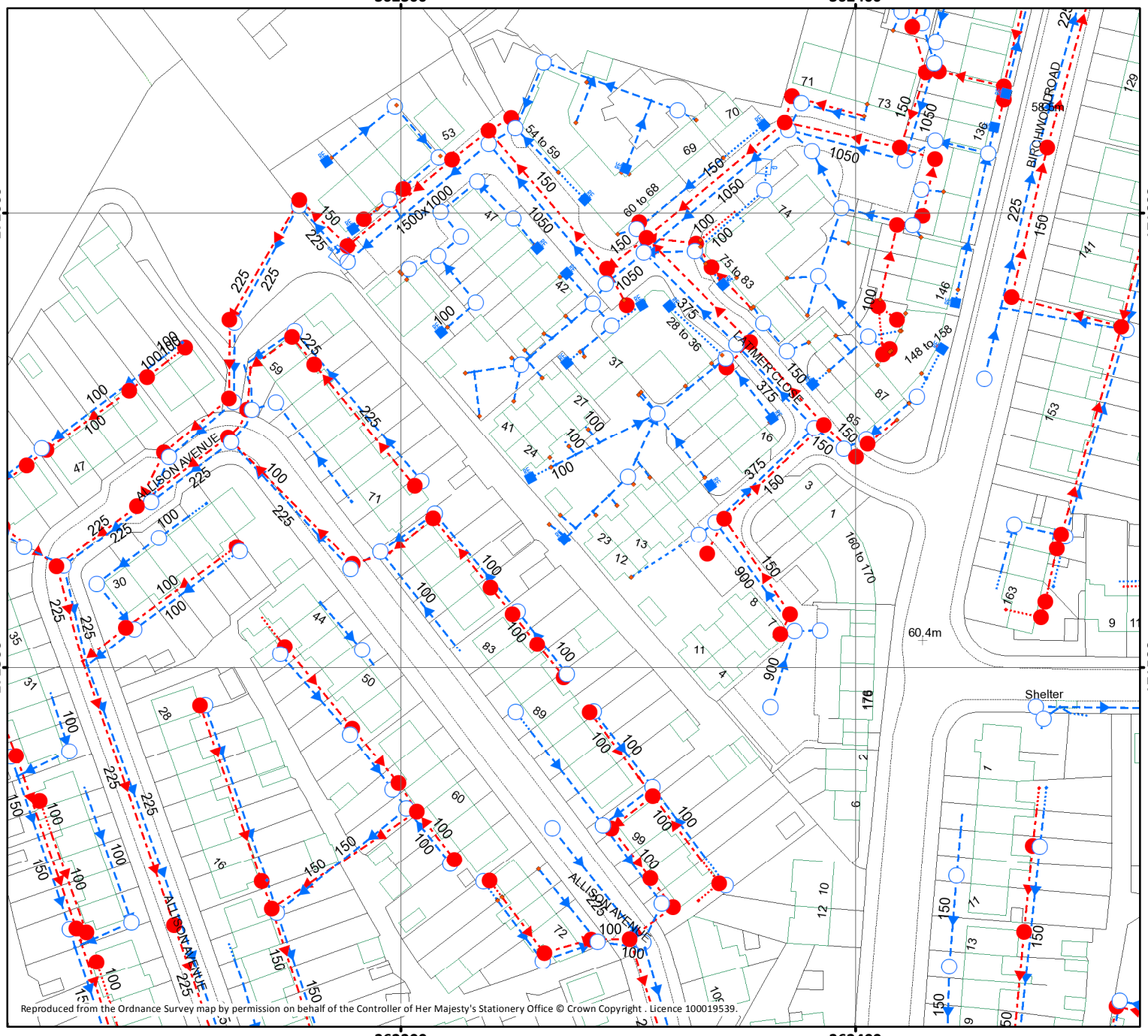
CONTRACT	CHECKED
36142	**CT**

TW/ JE

Appendix E: Existing Drainage



WASTE

PUBLIC SEWERS

- Foul Sewer
- Surface Water Sewer
- Combined Sewer
- Rising Main
- Syphon
- Overflow
- Use Unknown

NON-PUBLIC SEWERS & PIPELINES

- Private Sewer/Drain
- Highway Drain
- Culverted Watercourse
- Abandoned Sewer
- Status Unknown
- Section 104 - Foul
- Section 104 - Surface
- Section 104 - Combined
- Private Rising Main
- Effluent Disposal Main

OTHER STRUCTURES

- Attenuation Tank
- Storage Tank
- Chamber
- Tunnel
- Interceptor

STRUCTURES

- G Manhole - Foul
- [Manhole - Surface
- o Manhole - Combined
- a Outfall
- y Inlet
- J Lamphole
- R Bifurcation - Foul
- f Bifurcation - Surface
- z Bifurcation - Combined
- L Combined Sewage Overflow
- d Pumping Station - Surface
- P Pumping Stn - Foul/Combined
- i Gully
- I Vent Column
- N Rodding Eye
- c Catchpit
- K Flushing Chamber
- £ Soakaway
- Q Non Return Valve
- ¢ Air Valve
- $ Washout
- 0 Hatch Box

Colours generally indicate the use of the sewer/drain (i.e Red - Foul, Dark Blue - Surface, Magenta - Combined/Dual Use, Light Green - Highway Drain, Mid Green - Overflow) styles of line are shown on the key in sample/typical colours.

SUPPLY

CHECKED

WATER MAINS

- Distribution Main
- Washout Main
- Raw Water Main
- Abandoned Main
- Private Main

FITTINGS

- ∞ Fire Hydrant
- ! Washout Hydrant
- ● Other Fitting

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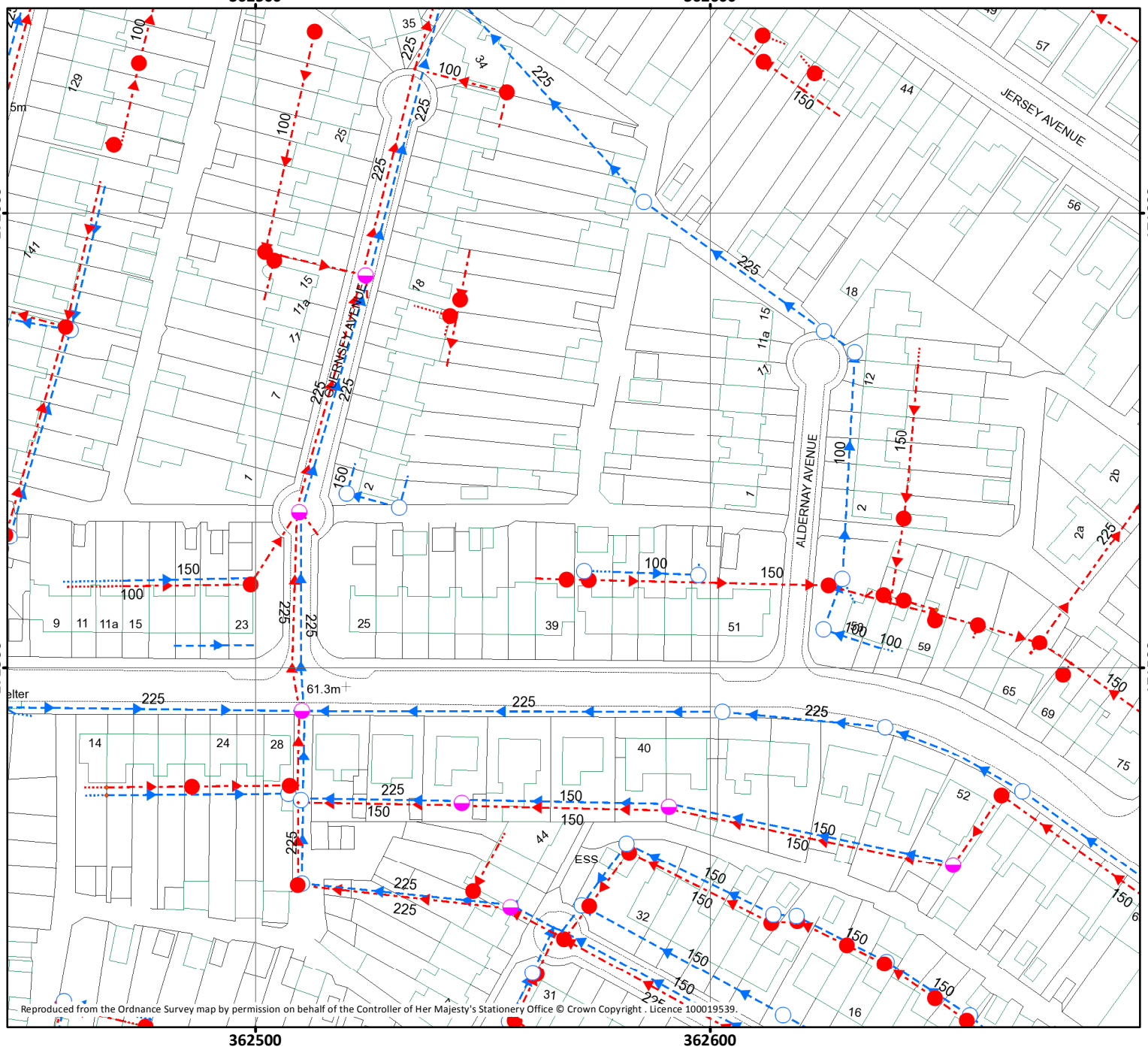

WASTE

PUBLIC SEWERS

- Foul Sewer
- Surface Water Sewer
- Combined Sewer
- Rising Main
- Syphon
- Overflow
- Use Unknown

NON-PUBLIC SEWERS & PIPELINES

- Private Sewer/Drain
- Highway Drain
- Culverted Watercourse
- Abandoned Sewer
- Status Unknown
- Section 104 - Foul
- Section 104 - Surface
- Section 104 - Combined
- Private Rising Main
- Effluent Disposal Main

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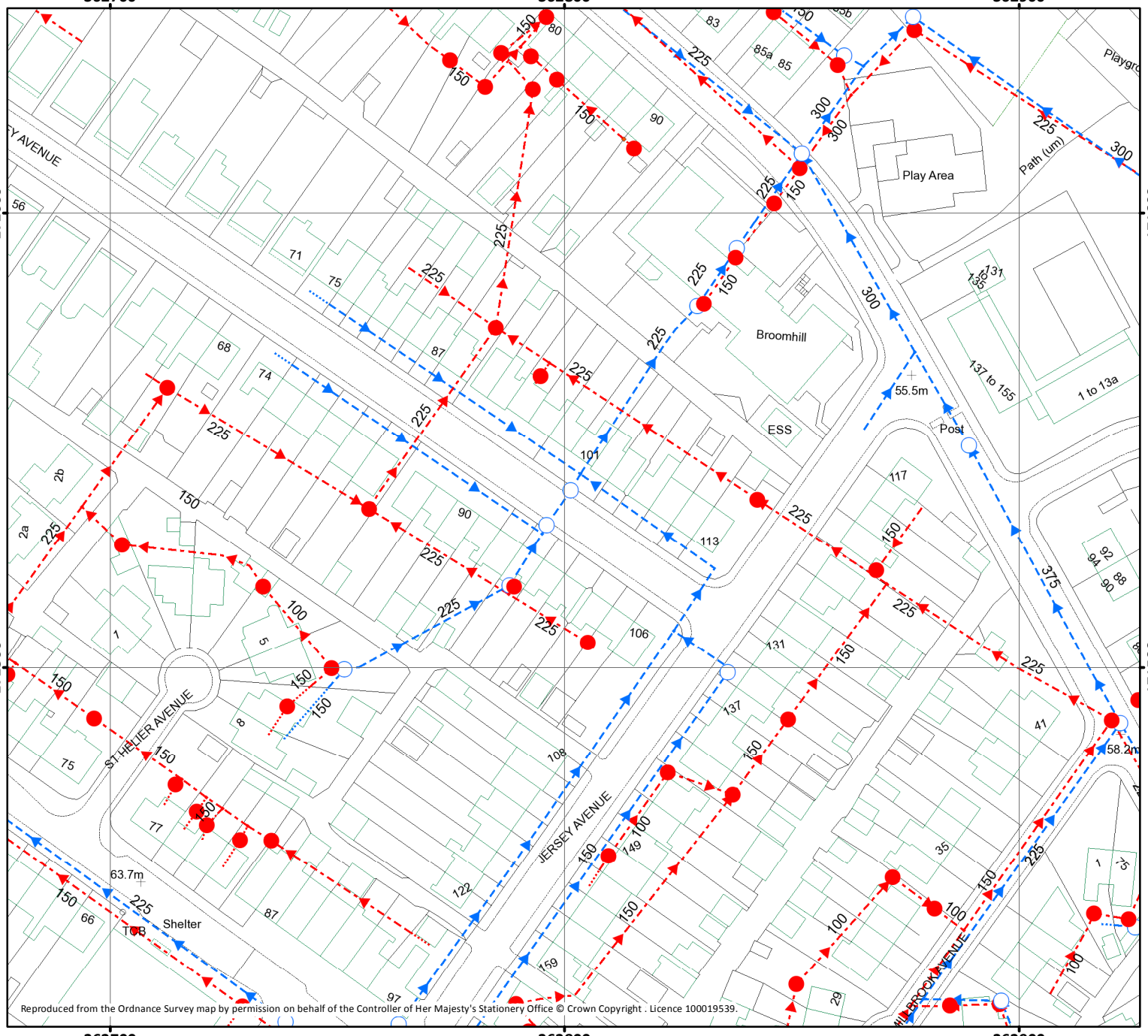

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FITTINGS

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