


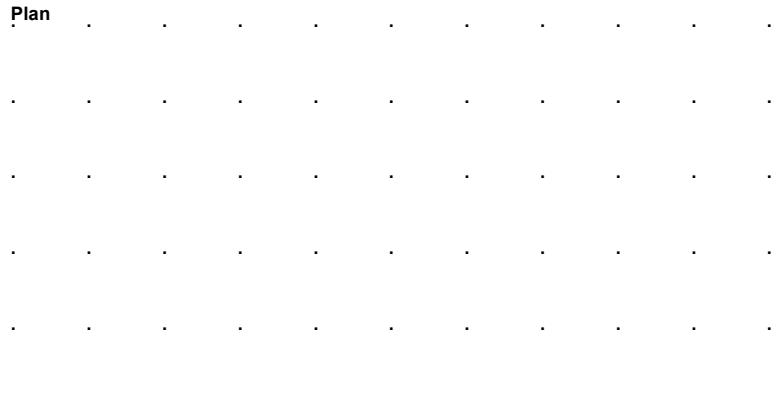



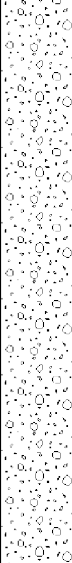


Excavation Method 8 T Tracked Excavator	Dimensions 0.60m x 3.0m x Terminal Depth	Ground Level (mOD) 44.90	Client Fairhurst	Job Number 3764-22
	Location (Handheld GPS) 359643.988 E 750054.816 N	Dates 04/10/2022	Project Contractor Grampian Geotechnical	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.00	B1			44.40	(0.50)	Dark brown sandy SILT. Common rootlets, fibrous roots and roots		
2.00-2.00	B2				(2.30)	Orangish light brown very sandy fine to coarse GRAVEL medium cobble fine to coarse sands		
3.00-3.00	B3			42.10	(1.10)	Brown very gravelly medium to coarse SAND with medium cobble low boulder. Gravel is fine to coarse rounded to subangular, cobble and boulder are rounded to subangular.		
3.90-3.90	B4			41.00	3.90	Complete at 3.90m		





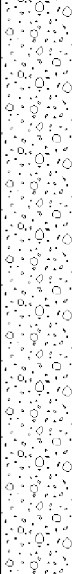
Plan 	Remarks Location CAT scanned prior to excavation Weather: Overcast Light Rain ~14C Stable sidewalls No water ingress Sampling B = Bulk Disturbed Hole terminated at 3.80mbGL due to mechanical limitations. Pit orientation East		
	Scale (approx) 1:40	Logged By JP & JA	Figure No. TP04

Excavation Method 8 T Tracked Excavator	Dimensions 0.60m x 3.0m x Terminal Depth	Ground Level (mOD) 44.57	Client Fairhurst	Job Number 3764-22
	Location (Handheld GPS) 359694.598 E 750046.666 N	Dates 03/10/2022	Project Contractor Grampian Geotechnical	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.70-0.70	E1			44.47	0.10	FILL - Asphalt		
					(0.50)	FILL - Light Brown slightly silty slightly sandy GRAVEL. Sand is fine to coarse, gravel is sub angular to angular (MADE GROUND)		
1.00-1.00	B1			43.97	0.60	Dark brown sandy slightly gravelly SILT. Sand is fine (possible relict topsoil)		
				43.77	0.80	Orangish Brown very sandy GRAVEL with medium coble. Sand is fine to coarse, gravel is fine to coarse rounded to subangular, coble is rounded to subangular.		
2.00-2.00	B2				(3.00)			
3.50-3.50	B3			40.77	3.80	Complete at 3.80m		

Plan .	Remarks Location CAT scanned prior to excavation Weather: Overcast ~14C Stable sidewalls No water ingress Sampling B = Bulk Disturbed Sampling E = Environmental sample disturbed Pit orientation East Terminated at 3.80 mbGL due to mechanical limitations		
		<table border="1"> <tr> <td>Scale (approx) 1:40</td> <td>Logged By JP & JA</td> <td>Figure No. TP05</td> </tr> </table>	Scale (approx) 1:40
Scale (approx) 1:40	Logged By JP & JA	Figure No. TP05	

Excavation Method 8 T Tracked Excavator	Dimensions 0.60m x 3.0m x Terminal Depth	Ground Level (mOD) 44.77	Client Fairhurst	Job Number 3764-22
	Location (Handheld GPS) 359669.427 E 750033.973 N	Dates 03/10/2022	Project Contractor Grampian Geotechnical	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60-0.60	E1			44.68	0.09	FILL - Asphalt		
					(0.39)	FILL - Light brown slightly silty slightly sandy GRAVEL. Gravel is fine to medium sub angular to angular grains		
				44.29	0.48	MADE GROUND		
					(0.37)	Dark brown very silty fine to medium SAND (possible relict topsoil)		
1.00-1.00	B1			43.92	0.85	Orangish brown very sandy GRAVEL with medium coble. Sand is fine to medium, gravel is fine to coarse rounded to subangular grains.		
2.00-2.00	B2				(3.15)			
3.00-3.00	B3							
4.00-4.00	B4			40.77	4.00	Complete at 4.00m		

Plan	<p>Remarks</p> <p>Location CAT scanned prior to excavation Weather: Overcast ~14C Stable sidewalls No water ingress Sampling B = Bulk Disturbed Sampling E = Environmental sample disturbed Pit orientation East</p>		
		<table border="1"> <tr> <td>Scale (approx) 1:40</td> <td>Logged By JP & JA</td> <td>Figure No. TP06</td> </tr> </table>	Scale (approx) 1:40
Scale (approx) 1:40	Logged By JP & JA	Figure No. TP06	



APPENDIX C

TRIAL PIT PHOTOGRAPHS

TP01



TP02



TP03



TP04



TP05



TP06



SA01





SA02



SA03





APPENDIX D RAW COORDINATES

SA01	359640.3	750070	44.801
SA02	359665.2	750078.4	44.753
SA03	359656.8	750028.7	44.743
TP01	359638.5	750077.5	44.817
TP02	359674.4	750079.7	44.843
TP03	359676.9	750063.5	44.715
TP04	359644	750054.8	44.896
TP05	359694.6	750046.7	44.566
TP06	359669.4	750034	44.772



APPENDIX E INFILTRATION RESULTS

Site : Lunan Park, Guthrie Street, Frickheim

Job Number
3764-22

Client : Fairhurst

Sheet
1 / 3

Project Contractor
: James Pryor

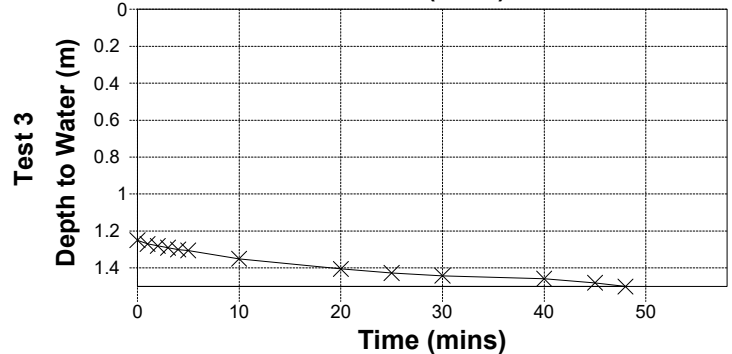
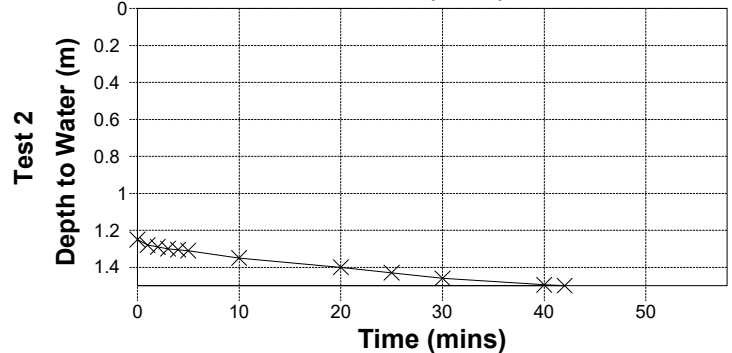
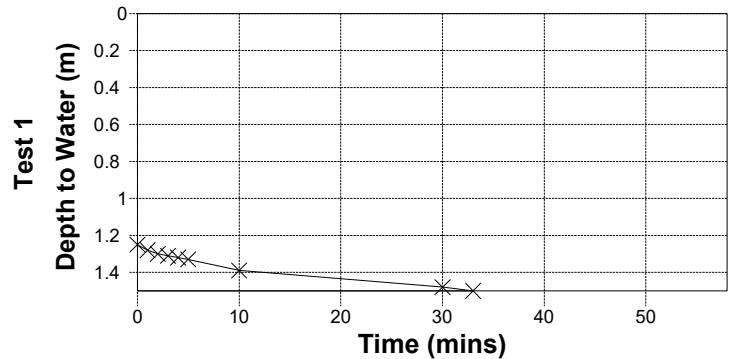
Location	Date	Level	Location
SA01	03/10/2022	44.80 mOD	E: 359640 N: 750070

Pit Width (m)	0.60
Pit Depth (m)	1.50
Pit Length (m)	1.00

Soil type at test level	Brown SAND and GRAVEL
Groundwater	no
Drain discharge depth	0.50
Sidewall stability	Stable
Stone filled or open pit	Open pit

	1	2	3	Remarks
Effective depth (m)	0.25	0.25	0.25	
Volume outflowing between 75% & 25% (m3)	0.08	0.08	0.08	
Mean surface area through which outflow occurs (m2)	1.00	1.00	1.00	
Time for outflow between 75% & 25% (min)	17.31	20.94	22.67	
SOIL INFILTRATION RATE (ms⁻¹), f	7.22E-5	5.97E-5	5.51E-5	

Elapsed time (mins)	Depth to Water		
	Test 1	Test 2	Test 3
0	1.25	1.25	1.25
1	1.28	1.28	1.27
2	1.30	1.29	1.28
3	1.31	1.30	1.29
4	1.32	1.305	1.30
5	1.33	1.31	1.305
10	1.39	1.35	1.35
20		1.40	1.405
25		1.43	1.427
30	1.48	1.46	1.442
33	1.50		
40		1.495	1.458
42		1.50	
45			1.48
48			1.50



Site : Lunan Park, Guthrie Street, Frickheim

Job Number
3764-22

Client : Fairhurst

Sheet
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Project Contractor
: James Pryor

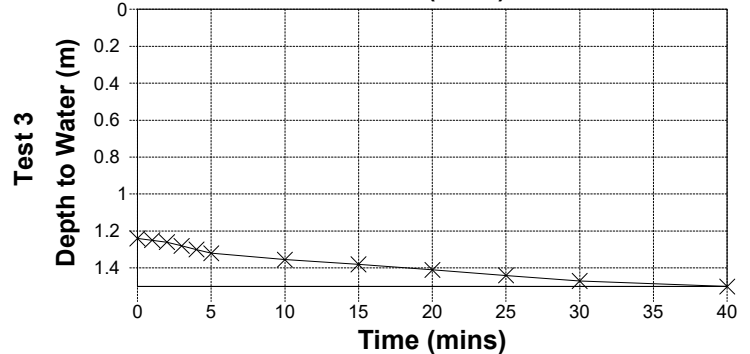
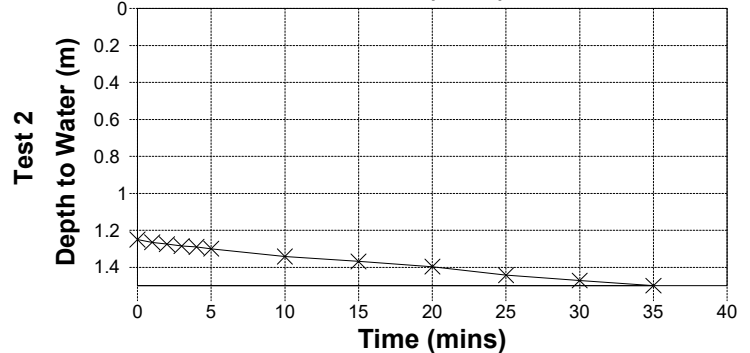
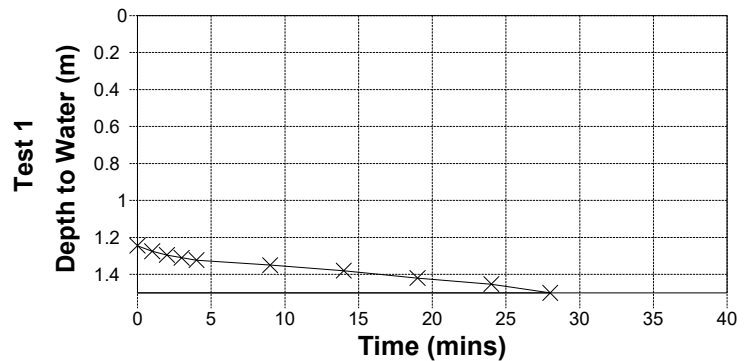
Location	Date	Level	Location
SA02	03/10/2022	44.75 mOD	E: 359665 N: 750078

Pit Width (m)	0.60
Pit Depth (m)	1.50
Pit Length (m)	1.00

Soil type at test level	Brown SAND & GRAVEL
Groundwater	no
Drain discharge depth	0.5
Sidewall stability	Stable
Stone filled or open pit	Open pit

	1	2	3	Remarks
Effective depth (m)	0.26	0.25	0.26	
Volume outflowing between 75% & 25% (m3)	0.08	0.08	0.08	
Mean surface area through which outflow occurs (m2)	1.02	1.00	1.02	
Time for outflow between 75% & 25% (min)	18.54	17.91	19.92	
SOIL INFILTRATION RATE (ms⁻¹), f	6.87E-5	6.98E-5	6.40E-5	

Elapsed time (mins)	Depth to Water		
	Test 1	Test 2	Test 3
0	1.245	1.25	1.24
1	1.275	1.265	1.25
2	1.295	1.275	1.26
3	1.31	1.285	1.28
4	1.323	1.29	1.30
5		1.30	1.32
9	1.35		
10		1.342	1.355
14	1.38		
15		1.368	1.38
19	1.42		
20		1.397	1.41
24	1.453		
25		1.443	1.44
28	1.50		
30		1.472	1.47
35		1.50	
40			1.50



Site : Lunan Park, Guthrie Street, Frickheim

Job Number
3764-22

Client : Fairhurst

Sheet
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Project Contractor
: James Pryor

Location	Date	Level	Location
SA03	03/10/2022	44.74 mOD	E: 359657 N: 750029

Pit Width (m)	0.60
Pit Depth (m)	1.50
Pit Length (m)	1.00

Soil type at test level	very sandy GRAVEL
Groundwater	
Drain discharge depth	0.5
Sidewall stability	Stable
Stone filled or open pit	Open pit

	1	2	3
Effective depth (m)	0.25	0.25	0.25
Volume outflowing between 75% & 25% (m3)	0.08	0.08	0.08
Mean surface area through which outflow occurs (m2)	1.00	1.00	1.00
Time for outflow between 75% & 25% (min)	0.95	0.96	0.95
SOIL INFILTRATION RATE (ms-1), f	1.32E-3	1.30E-3	1.32E-3

Remarks

Rate of infiltration was so great that pit could not be filled to complete test.

Elapsed time (mins)	Depth to Water		
	Test 1	Test 2	Test 3
0	1.25	1.25	1.25
1	1.35	1.40	1.35
2	1.50	1.50	1.50

