

Appendix 4E – BRE Infiltration Report





Dear Neo Environmental Ltd,

Please find below the results of your Infiltration testing. The information contained below is a summary of the site works carried out on 15th June 2022.

Geology

An examination of the available British Geological Survey data of the area for the site has been examined and indicates that the site has superficial drift deposits composed of Alluvium (clay, silt, sand and gravel) and River Terrace Deposits (sand and gravel), and bedrock deposits recorded as the Branscombe Mudstone Formation (mudstone).

Fieldworks

The programme of this investigation included the excavation of six trial pits. The locations of the soakaway tests were selected by the client. During this work, the soils encountered were logged in general accordance with BS5930: 1990, as amended in 2007.

Percolation Testing

During the soakaway tests the water achieved a fall from 75% to 25% of the effective depth of the storage volume. The results obtained from the soakaway tests are summarised below:





WS	Dimensions (m)	Depth	Soil Description	Infiltration	Drainage
		(m)		Rate (m/sec)	Characteristics
TP01	0.80 x 0.40	0.60	Brown sandy CLAY.	3.2E-4	Good
testl					
TP01	0.80 x 0.40	0.60	Brown sandy CLAY.	2.2E-4	Good
test2					
TP01	0.80 x 0.40	0.60	Brown sandy CLAY.	1.6E-4	Good
test3					
TP02	0.70 x 0.40	0.60	Orangish brown sandy	1.4E-4	Good
testl			CLAY.		
TP02	0.70 x 0.40	0.60	Orangish brown sandy	1.1E-4	Good
test2			CLAY.		
TP02	0.70 x 0.40	0.60	Oranaish brown sandv	1.1E-4	Good
test3			CLAY.		
TP03	0.90 x 0.40	0.60	Oranaish brown CLAY.	1.7E-4	Good
testl			J		
TP03	0.90 x 0.40	0.60	Oranaish brown CLAY.	1.4F-4	Good
test2			••••••••••••••••••••••••••••••••••••••		
TP03	0 90 x 0 40	0.60	Oranaish brown CLAY	12F-4	Good
test3	0.00 / 0.10	0.00			0004
TP04	0 80 x 0 40	0.60	Oranaish brown CLAY	11F-4	Good
test]	0.00 / 0.10	0.00			0000
TP04	0 80 x 0 40	0.60	Oranaish brown CLAY	9 7F-5	Good
test?	0.00 x 0.40	0.00	orangion brown other.	0.72 0	0000
	0.80 x 0.40	0.60	Orangish brown CLAY	765-5	Good
test3	0.00 x 0.40	0.00	orangish brown othr.	7.02 0	0000
TP05	0 80 x 0 40	0.60	Oranaish brown CLAY	11F-4	Good
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TP05	0 80 x 0 40	0.60	Oranaish brown CLAY	10F-4	Good
test2	0.00 x 0.40	0.00	orangion brown other.		0000
TP05	0 80 x 0 40	0.60	Oranaish brown CLAY	8 5F-5	Good
test3	0.00 x 0.40	0.00	orangish brown othr.	0.02 0	0000
TPOG	100 x 0 40	0.60	Orangish brown clayey	1 QE-1	Good
testl	1.00 X 0.40	0.00	SAND	1.02 4	0000
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TDOR	100 x 0 40	0.60	Orangish brown clayou	125-4	Good
toct2	1.00 X 0.40	0.00	SAND.	1.26 4	COOU





Conclusion

The soils encountered beneath the site were found to be predominantly CLAY. The soakage rates obtained during the investigation were found to be good and permeable. Given the data from the test, it is considered that the use of shallow infiltration is suitable for this site.

References

- Building Research Establishment (BRE) Digest 365, Soakaway Design, September 1991.
- British Standards Institution (1999) BS5930: Code of practice for site investigations, B.S.I., London.
- British Standards Institution (2007), Amendment No 1, BS5930: Code of practice for site investigations, B.S.I., London.

Please do contact me on 01243 787150 or 07758 162624 should you have any questions.

Regards

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Nick Hammond Geo-Environmental Engineer





Appendix A







Appendix B



						T	
					Log of Boring		
	VOUR	www.	.yourenvironme	nt.org	Sheet 1 of		1
	ENVIRONM	ENT 0124	3 787150	ent.org	YF Engineer N. Har	mmond	
Location	I and at Thorot	on Nottingha	m NG13 9DF		·g	Water level da	ta
Date	June 15, 2022	ion, notangha			Completion:	Depth NA m	
Project Referen	ce YEX4201				Ele	evation NA m	
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	Width	0.4 m			24 hour:	Depthm	
	Length	<u>0.8</u> m			Ele	evationm	
	Depth	<u>0.6</u> m					
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					Log of Boring		TP2
		www	v.yourenvironme	nt.org	Sheet 1 of		1
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Location	Land at Thorot	on, Nottingha	am, NG13 9DF			Wa	iter level data
Date	June 15, 2022				Completion:	Depth	<u>NA</u> m
Project Reference	ce YEX4201					Elevation	NA m
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Location	Land at Thorot	on, Nottingham, N	IG13 9DF			W	ater level data
Date	June 15, 2022				Completion:	Depth	NA m
Project Reference	ce YEX4201					Elevation	NA m
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	Width (<u>0.4</u> m			24 hour:	Depth	m
	Length	<u>1.0</u> m				Elevation_	m
	Depth (<u>).6</u> m					
Method (Trial pit	, window etc)	Trial Pit - Mac	hine Excav	ation			
Stratum	Sample Depth	Sample	Install				
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Appendix C



	Trial Pit No:	TP1	Test No:	1 Datum Haighte	Date:	15/06/2022
	Width (m):	0.800		Granular infill:	None	ili agi
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.180	, ,		
		1	0.260			
		2	0.320			
		3	0.370			
		4	0.420			
		5	0.470			
		7	0.510			
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Soakaway Test

	Trial Pit No:	TP1	Test No:	2	Date:	15/06/2022
	Length (m):	0.800		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.150			
		2	0.200			
		3	0.240			
		4	0.320			
		5	0.360			
		6	0.400			
		7	0.430			
		8	0.460			
		9	0.490			
		10	0.520			
		11	0.550			
		12	0.580			
		13	0.600			
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F	0.30					
th (r	0.30					
Dep	0.40 +			_		
	0.50					
	0.60					
	0.00					-
	0.70		1		1 1	
	0	2 4	6	8	10 12	14
			Elapsed t	ime (minutes)		
Sta	art water depth f	for analysis (mbgl)	0.15			
75%	% effective dept	h (mbgl):	0.26	El	apsed time (mins):	2.5
50%	% effective dept	h (mbgl):	0.38			
25%	% effective dept	n (mbgl):	0.49	EL	apsed time (mins):	9.0
Das	se of soakage ZO	ne (mbgt):	0.60			
Vo	lume outflow be	tween 75% and 25	% effective denth ()	m³).	0 074	
Me	an surface area	of outflow (m ²).			0.074 0.85	
(sic	de area at 50% e	ffective depth + b	ase area)		0.05	
Ťin	ne for outflow b	etween 75% and 2	5% effective depth	(mins):	6.5	
			·	·		
	Soil in	filtration rate	(m/s):		2.2E-4	
			· ·			
Re	marks	Results processed	following BRE 365	(2007).		
L						
	ient:	Neo Environme	ental Ltd			
Cl		-				TD4

	Trial Pit No:	TP1	Test No:	3 Datum Hoight:	Date:	15/06/2022
	Width (m):	0.800		Granular infill:	None U.UU	ill agi
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
	• • • •	Flansed time	Water Depth	Flansed time	Water Depth	Ì Í
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.200	14	0.550	
		1	0.230	15	0.560	
		2	0.270	16	0.580	
		3	0.300	17	0.600	
		4	0.330			
		5	0.360			
		6	0.390			
		7	0.410			
		8	0.430			
		9	0.450			
		10	0.470			
		17	0.490			
		12	0.510			
		15	0.000		1	J
	0.00					
	0.10 -					
	0.20					
	0.20	_				
Ξ	0.30					
Ē						
b						
Dept	0.40 -					
Dept	0.40 -					
Dept	0.40 -					
Dept	0.40 - 0.50 - 0.60 -	~	B B B		-B-B-B-	
Dept	0.40 - 0.50 - 0.60 -				- B- B- B-	•
Dept	0.40 - 0.50 - 0.60 - 0.7	2		10 17		16 18
Dept	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Flanced 6	10 12	- - - - - - - - - - -	1 6 1 8
Dept	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Elapsed t	10 12 iime (minutes)		16 18
Depti	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Elapsed f	10 12 ime (minutes)		16 18
Dept	0.40 0.50 0.60 0.70 0 rt water depth f	2 4	6 8 Elapsed 1	10 12 time (minutes)	14	16 18
Dept	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0	2 4	6 8 Elapsed 1 0.20 0.30 0.40	10 12 itime (minutes)	apsed time (mins):	16 18
Sta 75% 50%	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	for analysis (mbgl) n (mbgl): n (mbgl):	6 8 Elapsed 1 0.20 0.30 0.40 0.50	10 12 ime (minutes)	apsed time (mins):	16 18 3.0
Sta 75% 25% Bas	0.40 0.50 0.60 0.70 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60	ine (minutes)	apsed time (mins):	16 18 3.0 11.5
1400 Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 o o o o o o o o o o o o o	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60	10 12 time (minutes)	apsed time (mins):	16 18 3.0 11.5
1400 Sta 75% 50% Bas	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (10 12 time (minutes) El El	apsed time (mins): apsed time (mins): 0.064	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Mea	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n	10 12 time (minutes) El El m ³):	apsed time (mins): apsed time (mins): 0.064 0.80	16 18 3.0 11.5
Sta 75% 25% Bas Vol Mea (sic	0.40 0.50 0.60 0.70 0 o o o o o o o o o o o o o	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area)	ime (minutes)	apsed time (mins): apsed time (mins): 0.064 0.80	16 18 3.0 11.5
Sta 75% 50% 25% Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 o o o o o o o o o o o o o	for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (ase area) 5% effective depth	10 12 time (minutes) El m ³):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0 o o o o o o o o o o o o o	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5	16 18 3.0 11.5
Sta 75% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 8 effective depth	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth	10 12 time (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Mea (sic Tin	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth (m/s):	10 12 time (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 o o o o o o o o o o o o o	for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (ase area) 5% effective depth (m/s): following BRE 365	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 o o o o o o o o o o o o o	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (mase area) 5% effective depth (m/s):	10 12 time (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5
Sta 75% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	10 12 time (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5
Sta 75% 50% 25% Bas Vol Cli	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 8 effective depth	2 4 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.064 0.80 8.5 1.6E-4	16 18 3.0 11.5

	Trial Pit No:	TP2	Test No:	1	Date:	15/06/2022
	Length (m):	0.700		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.150	14	0.500	
		1	0.180	15	0.520	
		2	0.210	16	0.540	
		3	0.240	17	0.560	
		4	0.270	18	0.580	
		5	0.300	19	0.600	
		6	0.330			
		7	0.350			
		8	0.370			
		9	0.400			
		10	0.420			
		11	0.440			
		12	0.460			
		13	0.480			
	0.00					
	0.00					
	0.10 +					
	0.20	K				
E E	0.30 +					
⇒						
e b	0.40					
Dep	0.40 -					
Dep	0.40 -			₽_₽_₽_₽		
Dep	0.40 -				The state	
Dep	0.40 - 0.50 - 0.60 -				T. B. B. B.	•••
Dep	0.40 - 0.50 - 0.60 -				T & A A	•••
Dep	0.40 - 0.50 - 0.60 - 0.7		6 8	1 0 12	14 16	18 20
Dep	0.40 - 0.50 - 0.60 - 0.70 0 2	2 4	6 8 Flanced f	10 12 ime (minutes)	14 16	18 20
Dep	0.40 - 0.50 - 0.60 - 0.70 0 2	2 4	6 8 Elapsed t	10 12 ime (minutes)	14 16	18 20
Dep	0.40 - 0.50 - 0.60 - 0.70 0 2	2 4	6 8 Elapsed t	10 12 ime (minutes)	14 16	18 20
Sta	0.40 0.50 0.60 0.70 0 2	2 4 for analysis (mbgl)	6 8 Elapsed t	10 12 ime (minutes)	14 16	18 20
Star 75%	0.40 0.50 0.60 0.70 0 2 rt water depth 6 effective dept	2 4 for analysis (mbgl) h (mbgl):	6 8 Elapsed t 0.15 0.26	10 12 ime (minutes)	14 16 apsed time (mins):	18 20
Sta 75% 50%	0.40 0.50 0.60 0.70 0 2 rt water depth 6 effective dept 6 effective dept	2 4 for analysis (mbgl) h (mbgl): h (mbgl):	6 8 Elapsed t 0.15 0.26 0.38	10 12 ime (minutes)	14 16 apsed time (mins):	<u>18</u> 20 3.7
Šta 75% 50%	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl):	6 8 Elapsed t 0.15 0.26 0.38 0.49	10 12 ime (minutes) EL	14 16 apsed time (mins): apsed time (mins):	18 20 3.7 13.5
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60	10 12 ime (minutes) EL	14 16 apsed time (mins): apsed time (mins):	18 20 3.7 13.5
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60	10 12 ime (minutes) EL EL	14 16 apsed time (mins): apsed time (mins):	18 20 3.7 13.5
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept 6 effective dept 9 effective dep	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60 % effective depth (f	10 12 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.064	 18 20 3.7 13.5
Sta 75% 25% Bas Vol	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept 9 effective dep	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60 % effective depth (n	10 12 ime (minutes) EL El m ³):	apsed time (mins): apsed time (mins): 0.064 0.76	18 20 3.7 13.5
Sta 75% 50% 25% Bas Vol Mea (sid	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 9 effective de	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60 % effective depth (n ase area) 5% effective depth	10 12 ime (minutes) EL m ³):	apsed time (mins): apsed time (mins): 0.064 0.76	18 20 3.7 13.5
Sta 75% 50% 25% Bas Vol Mea (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 7 effective dept 6 effective dept 6 effective dept 7 effective dept 6 effective dept 7 effective dept 8 effective dep	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60 % effective depth (n base area) 5% effective depth	10 12 ime (minutes) El m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8	
Sta 75% 50% 25% Bas Vol (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 7 effective dept 8 effective dept 9 effective dep	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (no sase area) 5% effective depth	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8	18 20 3.7 13.5
Sta 75% 50% 25% Bas Vol Mea (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 5 effective dept 5 effective dept 6 effective dept 6 effective dept 6 effective dept 9 effective de	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ffiltration rate	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (no pase area) 5% effective depth (m/s):	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	18 20 3.7 13.5
Sta 75% 50% 25% Bas Vol Mea (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 8 effective dept 6 effective dept 8 effective de	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ifiltration rate	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (n ase area) 5% effective depth (m/s):	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	18 20 3.7 13.5
Sta 75% 50% 25% Bas Vol Mea (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 8 effective dept 8 effective dept 8 effective dept 9 effective de	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ffiltration rate Results processed	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (n ase area) 5% effective depth (m/s): I following BRE 365	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	18 20 3.7 13.5
Sta 75% 50% 25% Bas (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 7 or 0 or	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ifiltration rate Results processed	6 8 Elapsed t 0.15 0.26 0.38 0.49 0.60 % effective depth (n base area) 5% effective depth (m/s):	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	
Sta 75% 50% 25% Bas Vol (sid Tim	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept 6 effective dept 6 effective dept 9 effective dep	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ffiltration rate Results processed	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (no pase area) 5% effective depth (m/s):	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	18 20 3.7 13.5
Sta 75% 50% 25% Bas (sid Tim Rer	0.40 0.50 0.60 0.70 0.70 0 2 rt water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept 6 effective dept 9 effective dep	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed to 0.15 0.26 0.38 0.49 0.60 % effective depth (no base area) 5% effective depth (m/s): I following BRE 365 ental Ltd	10 12 ime (minutes) EL m ³): (mins):	14 16 apsed time (mins): apsed time (mins): 0.064 0.76 9.8 1.4E-4	3.7 13.5

1	Trial Pit No:	TP2	Test No:	2	Date:	15/06/2022
	Length (m):	0.700		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	(
	Depth (m):	0.60	1	Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.200	14	0.4/0	
			0.230	15	0.490	
		2	0.250	10	0.500	
		3	0.270	17	0.510	
		5	0.290	10	0.550	
		6	0.310	20	0.550	
		7	0.350	20	0.570	
		8	0.330	21	0.590	
		9	0.370		0.000	
		10	0.400			
		10	0.400			
		17	0.420			
		13	0.450			
	0.00					
	0.10 +					
	0.20					_
	0.20	_				
E)	0.30					-
pth						
a a						
ŏ	0.40 +			_		
Ď	0.40					
Ď	0.40 -					-
Ď	0.40 -			A. B. B. B.		
Ď	0.40 -					-
Ď	0.40 - 0.50 - 0.60 - 0.70 - 0	5	10	15	20	-
ā	0.40 - 0.50 - 0.60 - 0.70 0	5	10 Elapsed 1	15 ime (minutes)	20	-
Õ	0.40 - 0.50 - 0.60 - 0.70 0	5	10 Elapsed t	15 ime (minutes)	20	-
		5	10 Elapsed f	15 ime (minutes)	20	-
Šta 750	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0	5 for analysis (mbgl)	10 Elapsed 1 0.20	15 ime (minutes)	20	- 25
500 Sta	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl):	10 Elapsed 1 0.20 0.30 0.40	15 ime (minutes)	20 apsed time (mins):	25
509 509	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	for analysis (mbgl) h (mbgl): h (mbgl):	10 Elapsed 1 0.20 0.30 0.40 0.50	15 ime (minutes) EL	20 apsed time (mins):	- 25
50% 50% 50%	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60	15 ime (minutes) EL	apsed time (mins):	-
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60	15 ime (minutes) EL	20 apsed time (mins): apsed time (mins):	-
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (15 ime (minutes) EL EL	apsed time (mins): apsed time (mins): 0.056	-
502 502 255 Bas Vol	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (i	15 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.056 0 72	-
Sta 75% 50% 25% Bas Vol Me (sid	0.40 0.50 0.60 0.70 0 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (mase area)	15 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.056 0.72	-
Sta 75% 50% 25% Bas Vol Me (sid Tin	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (i ase area) 5% effective depth	15 ime (minutes) EL EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.056 0.72 11.5	-
Sta 759 259 Bas Vol Me (sig Tin	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (pase area) 5% effective depth	15 ime (minutes) EL m ³): (mins):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5	- 25 4.5 16.0
Sta 75% 50% 25% Bas Vol Me (sid Tin	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth	15 ime (minutes) EL EL m ³):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	- 25 4.5 16.0
Sta 75% 50% 25% Bas Vol Me (sid Tin	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (mase area) 5% effective depth (m/s):	15 ime (minutes) EL El m ³):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	- 25 4.5 16.0
Sta 75% 50% 25% Bas Vol Me (sia Tin	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 ime (minutes) EL m ³): (mins):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	- 25 4.5 16.0
Sta 75% 50% 25% Bas Vol Mee (sid Tin Re	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (mase area) 5% effective depth (m/s):	15 ime (minutes) EL m ³): (mins):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	- 25 4.5 16.0
Sta 75% 50% 25% Bas Vol Me (sia Tin Re	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (mase area) 5% effective depth (m/s):	15 ime (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	- 25 4.5 16.0
Sta 75% 50% 25% Bas (sia Tin Re	0.40 0.50 0.60 0.70 0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed 1 0.20 0.30 0.40 0.50 0.60 % effective depth (n ase area) 5% effective depth (m/s): I following BRE 365 ental Ltd	15 ime (minutes) El m ³): (mins):	20 apsed time (mins): apsed time (mins): 0.056 0.72 11.5 1.1E-4	4.5

Soakaway Test

	Trial Pit No:	TP2	Test No:	3	Date:	15/06/2022				
	Length (m):	0.700		Datum Height:	0.00	m agl				
	Width (m):	0.40		Granular infill:	None	_				
	Depth (m):	0.60		Porosity of infill:	1	(assumed)				
		Elapsed time	Water Depth	Elapsed time	Water Depth					
		(minutes)	(m below datum)	(minutes)	(m below datum)					
		0	0.170	14	0.400					
		1	0.190	15	0.410					
		2	0.210	16	0.430					
		3	0.230	17	0.450					
		4	0.240	18	0.470					
		5	0.250	19	0.480					
		6	0.270	20	0.500					
		7	0.280	21	0.510					
		8	0.300	22	0.520					
		9	0.320	23	0.540					
		10	0.340	24	0.550					
		11	0.360	25	0.570					
		12	0.370	26	0.590					
		13	0.380	27	0.600					
	0.00									
	0.00									
	0.10 +									
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	0.20					-				
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<u>ا</u>	0.30 -		1 .							
ept	0.40			_						
	0.40 T									
	0.50					-				
	0.60 +				- 1					
	0.70									
	0.70 +	5	10	15 20	25					
			Elapsed t	ime (minutes)	0 5 10 15 20 25					
1		Elapsed time (minutes)								
Sta	art water denth	for analysis (mbgl)	0 17	ine (initiales)		30				
Sta 75%	art water depth % effective dept	for analysis (mbgl) h (mbgl):	0.17	FI.	apsed time (mins):	30				
Sta 75% 50%	art water depth % effective dept % effective dept	for analysis (mbgl) h (mbgl): h (mbgl):	0.17 0.28 0.39	EL	apsed time (mins):	³⁰ 7.0				
Sta 759 509 259	art water depth % effective dept % effective dept % effective dept	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl):	0.17 0.28 0.39 0.49	EL	apsed time (mins): apsed time (mins):	³⁰ 7.0 19.5				
Sta 75% 50% 25% Bas	art water depth % effective dept % effective dept % effective dept se of soakage zo	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	0.17 0.28 0.39 0.49 0.60	EL	apsed time (mins): apsed time (mins):	³⁰ 7.0 19.5				
Sta 759 509 259 Bas	art water depth i % effective dept % effective dept % effective dept se of soakage zo	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	0.17 0.28 0.39 0.49 0.60	EL	apsed time (mins): apsed time (mins):	³⁰ 7.0 19.5				
Sta 759 509 259 Bas	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25	0.17 0.28 0.39 0.49 0.60 % effective depth (1	EL The first second sec	apsed time (mins): apsed time (mins): 0.059	³⁰ 7.0 19.5				
Sta 759 509 259 Bas Vol Me	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	0.17 0.28 0.39 0.49 0.60 % effective depth (n	EL EL m³):	apsed time (mins): apsed time (mins): 0.059 0.74	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sio	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	0.17 0.28 0.39 0.49 0.60 % effective depth (n	EL EL	apsed time (mins): apsed time (mins): 0.059 0.74	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sid Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	0.17 0.28 0.39 0.49 0.60 % effective depth (i pase area) 5% effective depth	EL EL m ³):	apsed time (mins): apsed time (mins): 0.059 0.74 12.5	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sid Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b	for analysis (mbgl) h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	0.17 0.28 0.39 0.49 0.60 % effective depth (n ase area) 5% effective depth	EL EL (mins):	apsed time (mins): apsed time (mins): 0.059 0.74 12.5	30 7.0 19.5				
Sta 75% 50% 25% Bas Vol Me (sig Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	0.17 0.28 0.39 0.49 0.60 % effective depth (n ase area) 5% effective depth (m/s):	EL EL (mins):	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sic Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b Soil in	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	0.17 0.28 0.39 0.49 0.60 % effective depth (n sase area) 5% effective depth (m/s):	EL EL (mins):	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sic Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b Soil in marks	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	0.17 0.28 0.39 0.49 0.60 % effective depth (n base area) 5% effective depth (m/s):	mine (initiales) EL (mins): (2007).	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				
Sta 759 509 259 Bas Vol Me (sid Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b Soil in marks	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	0.17 0.28 0.39 0.49 0.60 % effective depth (n ase area) 5% effective depth (m/s):	EL EL (mins): (2007).	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				
Sta 75% 50% 25% Bas Vol Me (sic Tin	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b Soil in marks	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	0.17 0.28 0.39 0.49 0.60 % effective depth (n sase area) 5% effective depth (m/s):	EL EL (mins): (2007).	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				
Sta 75% 50% 25% Bas (sid Tin Re	art water depth % effective dept % effective dept % effective dept se of soakage zo lume outflow be an surface area de area at 50% e ne for outflow b Soil in marks	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	0.17 0.28 0.39 0.49 0.60 % effective depth (mase area) 5% effective depth (m/s): I following BRE 365	EL EL (mins): (2007).	apsed time (mins): apsed time (mins): 0.059 0.74 12.5 1.1E-4	30 7.0 19.5				

	Trial Pit No:	TP3	Test No:	1	Date:	15/06/2022			
	Length (m):	0.900		Datum Height:	0.00	m agı			
	Width (m):	0.40		Granular Infill:	None	(accuracd)			
	Deptil (III).	0.00		Porosity or infint.	1	(assumed)			
		Elapsed time	Water Depth	Elapsed time	Water Depth				
		(minutes)	(m below datum)	(minutes)	(m below datum)				
		0	0.100	14	0.530				
		1	0.140	15	0.560				
		2	0.180	16	0.590				
		3	0.210						
		4	0.240						
		5	0.270						
		6	0.300						
		/	0.330						
		8	0.360						
		9	0.390						
		10	0.410						
		11	0.440						
		12	0.470						
		13	0.500						
	0.00 _								
	0.10					-			
	0.20								
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Ê	0.30 +								
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Dept	0.40 -								
Dept	0.40 -					_			
Dept	0.40 -					-			
Dept	0.40 - 0.50 - 0.60 -					-			
Dept	0.40 - 0.50 - 0.60 -					-			
Dept	0.40 - 0.50 - 0.60 - 0.7	2 4	6 8	10 12		16 18			
Dept	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Elapsed 1	• - - - - - - - - - - - - - - - - - - -	- 1 4	16 18			
Dept	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Elapsed t	10 12 iime (minutes)	14	16 18			
Dept	0.40 - 0.50 - 0.60 - 0.70 0	2 4	6 8 Elapsed 1	10 12 time (minutes)	14	16 18			
Sta	0.40 0.50 0.60 0.70 0 rt water depth f	2 4	6 8 Elapsed 1 0.10 0.23	10 12 time (minutes)	14	16 18			
Sta 75%	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 for analysis (mbgl) h (mbgl): h (mbgl):	6 8 Elapsed 1 0.10 0.23 0.35	10 12 iime (minutes)	apsed time (mins):	16 18			
Sta 75% 50%	0.40 - 0.50 - 0.60 - 0.70 - 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth	for analysis (mbgl) h (mbgl): h (mbgl):	6 8 Elapsed 1 0.10 0.23 0.35 0.48	10 12 ime (minutes)	apsed time (mins):	- 16 18 3.7			
50% 50% 25%	0.40 0.50 0.60 0.70 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60	10 12 time (minutes) EL	apsed time (mins):				
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 rt water depth for the set of soakage zone is soakage zone is the set of the set of the set of the set of soakage zone is the set of set of set of soakage zone is the set of set	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60	10 12 time (minutes)	apsed time (mins):				
50% 25% Vol	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (10 12 intre (minutes)	apsed time (mins): apsed time (mins): 0.090	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea	0.40 0.50 0.60 0.70 0.70 0 rt water depth 6 effective depth 7	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (1	10 12 time (minutes) EL El m ³):	apsed time (mins): apsed time (mins): 0.090 1.01	- 16 18 3.7 12.3			
Sta 75% 25% Bas Vol Mea (sic	0.40 0.50 0.60 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth 6 effective depth 6 effective depth 7 effective depth 8 effe	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (mase area)	10 12 time (minutes) EL El m ³):	apsed time (mins): apsed time (mins): 0.090 1.01	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (f vase area) 5% effective depth	10 12 time (minutes) El El m ³):	apsed time (mins): 0.090 1.01 8.6	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0 o o o o o o o o o o o o o	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (integration of the second se	10 12 ime (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.090 1.01 8.6	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth for the set of soakage zon ume outflow be an surface area of the set of soakage zon ume outflow be an surface area of the set of soakage zon be for outflow be an surface area of the set of	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth	10 12 time (minutes) El El m ³):	apsed time (mins): apsed time (mins): 0.090 1.01 8.6 1.7E-4	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (i ase area) 5% effective depth (m/s):	10 12 time (minutes) EL m ³):	apsed time (mins): apsed time (mins): 0.090 1.01 8.6 1.7E-4				
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth for the second se	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (ase area) 5% effective depth (m/s):	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): 0.090 1.01 8.6 1.7E-4	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth for the set of soakage zon ume outflow be an surface area of the set of soakage zon ume outflow be an surface area of the set of soakage zon the area at 50% effective depth the	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (base area) 5% effective depth (m/s):	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): 0.090 1.01 8.6 1.7E-4	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth for the set of soakage zon ume outflow be an surface area of the for outflow be the for outflow be Soil in marks	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (mase area) 5% effective depth (m/s):	10 12 time (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.090 1.01 8.6 1.7E-4	- 16 18 3.7 12.3			
Sta 75% 50% 25% Bas (sic Tim Rer	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth 6 effective depth 7 effective depth	2 4 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	6 8 Elapsed 1 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): I following BRE 365	10 12 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.090 1.01 8.6 1.7E-4				

	Tria	l Pit No:	TP3	Test No:	2	Date:	15/06/2022		
	Len	gth (m):	0.900		Datum Height:	0.00	m agl		
	Wi	dth (m):	0.40		Granular infill:	None	-		
	De	pth (m):	0.60		Porosity of infill:	1	(assumed)		
			Elapsed time	Water Depth	Elapsed time	Water Depth			
			(minutes)	(m below datum)	(minutes)	(m below datum)			
			0	0.150	14	0.480			
			1	0.180	15	0.500			
			2	0.210	16	0.520			
			3	0.240	17	0.530			
			4	0.270	18	0.550			
			5	0.300	19	0.570			
			6	0.320	20	0.580			
			7	0.340	21	0.600			
			8	0.360					
			9	0.380					
			10	0.400					
			11	0.420					
			12	0.440					
			13	0.460					
	^{0.00} T								
	0 10								
	0.10								
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<u>ا</u>	0.30 +								
epth	0.40								
	0.40 +								
	0.50								
	0.60 +								
	0.70								
	0.70 +		5	10	15	20	25		
				Elapsed t	ime (minutes)				
Sta	rt wate	r denth f	for analysis (mbol)	0.15			1		
759	effect	ive denti	h (mhøl):	0.15	FI	ansed time (mins).	37		
509	effect	ive denti	h (mhal).	0.20	L		5.7		
259	effect	ive denti	h (mbgl):	0.30	FI	apsed time (mins).	14 5		
Bas	e of sor	akage zoi	ne (mbgl):	0.60	L		л ч . J		
			- (0.00					
Vol	ume ou	tflow be	tween 75% and 25	% effective depth (i	m³):	0.083			
Me	an surfa	ice area	of outflow (m ²):	(·	,	0.93			
(sic	le area	at 50% e	ffective depth + b	ase area)		0.75			
Tin	ne for o	utflow b	etween 75% and 2	5% effective depth	(mins):	10.8			
-				·					
		Soil in	filtration rate	(m/s):		1.4E-4			
				· · ·					
Rei	narks		Results processed	following BRE 365	(2007).				
1									
	ent:		Neo Environme	ental Ltd					
Cli	ent:		Neo Environme Land at Thorot	ental Ltd			TP3		

Soakaway Test

	Trial Pit No.	трз	Test No.	2	Date	15/06/2022		
	length (m):	0 900	rest no.	Datum Height	0.00			
	Width (m):	0.40		Granular infill:	None	in age		
	Depth (m):	0.60		Porosity of infill:	1	(assumed)		
	().	Elancod timo	Water Depth	Elancod timo	Water Depth	(
		(minutos)	(m bolow datum)	(minutos)	(m bolow datum)			
		(IIIIIutes)		(11111111111111111111111111111111111111				
		1	0.120	15	0.330			
		2	0.130	15	0.410			
		2	0.170	10	0.450			
		З А	0.200	18	0.430			
		5	0.220	10	0.470			
		6	0.230	20	0.490			
		7	0.240	20	0.500			
		8	0.200	21	0.520			
		0	0.200	22	0.540			
		9	0.300	23	0.550			
		10	0.310	24	0.570			
		11	0.330	25	0.590			
		12	0.350	26	0.600			
		13	0.370					
	0.00							
	0.00							
	0.10 +							
	0.20							
Ξ								
pth								
õ	0.40 +							
	0.50							
	0.50							
	0.60 +							
					_			
	0.70		1					
	0	5	10	15 20	25	30		
			Elapsed t	ime (minutes)				
Sta	rt water depth f	for analysis (mbgl)	0.12					
75%	6 effective dept	h (mbgl):	0.24	El	apsed time (mins):	6.0		
50%	6 effective dept	h (mbgl):	0.36					
25%	6 effective dept	h (mbgl):	0.48	El	apsed time (mins):	18.5		
Bas	e of soakage zoi	ne (mbgl):	0.60					
	5	· · · ·						
Vol	ume outflow be	tween 75% and 25	% effective depth ()	m³):	0.086			
Me	an surface area	of outflow (m ²):	······································		0.98			
(sic	le area at 50% et	ffective depth + h	ase area)		0.70			
Tin	ne for outflow be	etween 75% and 2	5% effective depth	(mins):	12.5			
_			askell	· · · ·				
	Soil in	filtration rate	(m/s)•		1 2F-4			
	501111		(11/ 3).		1.26-7			
Rei	marks	Results processed	following RDE 245	(2007)				
		Nesults processed	TOULOWING DRE 303	(2007).				
Cli	ient:	Neo Environme	ental Ltd			נחד		
		l .				183		

Land at Thoroton

Soakaway Test

1	Trial Pit No:	TP4	Test No:	1	Date:	15/06/2022		
	Length (m):	0.800		Datum Height:	0.00	m agl		
	Width (m):	0.40		Granular infill:	None			
	Depth (m):	0.60		Porosity of infill:	1	(assumed)		
		Elapsed time	Water Depth	Elapsed time	Water Depth	1		
		(minutes)	(m below datum)	(minutes)	(m below datum)			
		0	0.100	14	0.390			
		1	0.130	15	0.420			
		2	0.150	16	0.440			
		3	0.170	17	0.460			
		4	0.200	18	0.480			
		5	0.220	19	0.510			
		6	0.250	20	0.520			
		7	0.270	21	0.540			
		8	0.290	22	0.560			
		9	0.300	23	0.570			
		10	0.320	24	0.590			
		11	0.350	25	0.600			
		12	0.370					
		13	0.380					
	0.00							
	0.00							
	0.10							
	0.20							
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Ξ	0.30 +							
epth	0.40							
Depth	0.40 +			■ _ ■ _ ■				
Depth	0.40 -		- ₹ ₿₿₿₿₿	R. R				
Depth	0.40 -		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	R. R	*			
Depth	0.40 - 0.50 - 0.60 -			R. B. B. B. B.	****			
Depth	0.40 - 0.50 - 0.60 -		~~~	B. B	*****			
Depth	0.40 - 0.50 - 0.60 - 0.70 0	5	10	1 5 20	25			
Depth	0.40 - 0.50 - 0.60 - 0.70 0	5	10 Flanced f	15 20	25			
Depth	0.40 - 0.50 - 0.60 - 0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	30		
Depth	0.40 - 0.50 - 0.60 - 0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	30		
Depth	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl)	10 Elapsed t	15 20 ime (minutes)	25	30		
Sta 75%	0.40 0.50 0.60 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl):	10 Elapsed t 0.10 0.23	15 20 ime (minutes)	25 apsed time (mins):	30		
Sta 75%	0.40 0.50 0.60 0.70 0 rt water depth for the formation of the formati	5 for analysis (mbgl) h (mbgl): h (mbgl):	10 Elapsed t 0.10 0.23 0.35	15 20 ime (minutes)	apsed time (mins):	30		
Sta 75% 50%	0.40 0.50 0.60 0.70 0.70 0 rt water depth to 6 effective depth 6 effective depth 6 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48 0.48	15 20 ime (minutes) EL	apsed time (mins):	30 5.3 18.0		
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60	15 20 ime (minutes) EL	apsed time (mins):	30 30 5.3 18.0		
Sta 75% 25% Bas	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60	15 20 ime (minutes) EL EL	apsed time (mins):	30 30 5.3 18.0		
Sta 75% 50% 25% Bas	0.40 0.50 0.60 0.70 0 rt water depth for the set of soakage zon ume outflow be	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n	15 20 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.080	30 30 5.3 18.0		
Sta 75% 25% Bas Vol Mea	0.40 0.50 0.60 0.70 0.70 0 rt water depth for the second se	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n	15 20 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.080 0.92			
Sta 75% 50% 25% Bas Vol Mea (sic	0.40 0.50 0.60 0.70 0.70 0 rt water depth to 6 effective depth 6 effective depth 7 effective depth 8 effective depth 9 effective dep	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area)	15 20 ime (minutes) EL El n ³):	apsed time (mins): apsed time (mins): 0.080 0.92	30 30 5.3 18.0		
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth 7 effective depth 6 effective depth 7 effective depth 7 effective depth 8 effective depth	for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.080 0.92 12.7	30 30 5.3 18.0		
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) EL m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.080 0.92 12.7	30 30 5.3 18.0		
Sta 75% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth for 6 effective depth 6 effective depth 7 effective depth 6 effective depth 7 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³):	25 apsed time (mins): apsed time (mins): 0.080 0.92 12.7 1.1E-4	30 5.3 18.0		
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 8 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³): (mins):	apsed time (mins): 0.080 0.92 12.7 1.1E-4	30 30 5.3 18.0		
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth 7 effective depth 6 effective depth 6 effective depth 7 effective depth 8 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	<pre>15 20 ime (minutes) El m³): (mins):</pre>	apsed time (mins): 0.080 0.92 12.7 1.1E-4			
Sta 75% 50% 25% Bas Vol Mea (sic Tim Ren	0.40 0.50 0.60 0.70 0.70 0 rt water depth for 6 effective depth 6 effective depth 7 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	<pre>15 20 ime (minutes) EL m³): (mins): (2007).</pre>	25 apsed time (mins): apsed time (mins): 0.080 0.92 12.7 1.1E-4			
Sta 75% 25% Bas Vol Mea (sic Tim	0.40 0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effective depth 7 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth 7 effective depth	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	15 20 ime (minutes) EL m ³): (mins):	apsed time (mins): 0.080 0.92 12.7 1.1E-4			

Land at Thoroton

Soakaway Test

	Trial Pit No:	TP4	Test No:	2	Date:	15/06/2022				
	Length (m):	0.800		Datum Height:	0.00	m agl				
	Width (m):	0.40		Granular infill:	None	5				
	Depth (m):	0.60		Porosity of infill:	1	(assumed)				
		Elapsed time	Water Depth	Elapsed time	Water Depth					
		(minutes)	(m below datum)	(minutes)	(m below datum)					
		0	0.140	14	0.380					
		1	0.170	15	0.400					
		2	0.190	16	0.410					
		3	0.210	17	0.430					
		4	0.230	18	0.440					
		5	0.240	19	0.450					
		6	0.250	20	0.470					
		7	0.270	21	0.490					
		8	0.290	22	0.510					
		9	0.300	23	0.520					
		10	0.320	24	0.540					
		11	0.330	25	0.560					
		12	0.340	26	0.570					
		13	0.360	27	0.590					
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	0.10									
	0.10 +					_				
	0.20									
Ē	0.30 +									
pth										
Pe	0.40 +									
	0.50					_				
	0.00									
	0.60 +									
	0.70	E	10	15 20	25	20				
	0	5	Elansod t	imo (minutos)	25	30				
			Liapseu i	ine (initiates)						
		-]				
Sta	rt water depth i	for analysis (mbgl)	0.14							
/5%	6 effective dept	n (mbgl):	0.26	Eli	apsed time (mins):	6.5				
50%	6 effective dept	h (mbgl):	0.37							
25%	6 effective dept	n (mbgl):	0.49	Eli	apsed time (mins):	21.0				
Bas	se of soakage zo	ne (mbgi):	0.60							
V-1	umo outflaur ka	twoop 75%	% offortive death (m3).	0.074					
IVOL	ume outriow be	tween 75% and 25%	¹ / ₂ enective depth (i	II*) .	0.074					
Mean surface area of outflow (m ²): 0.87										
Me	an surface area	footive dentity !	(side area at 50% effective depth + base area)							
Mea (sic	an surface area de area at 50% e	ffective depth + b	ase area)	(minc):						
Mea (sic Tin	an surface area de area at 50% e ne for outflow b	ffective depth + b etween 75% and 2	ase area) 5% effective depth	(mins):	14.5					
Mea (sic Tin	an surface area de area at 50% e ne for outflow b	ffective depth + b etween 75% and 2	ase area) 5% effective depth	(mins):	14.5					
Mea (sic Tin	an surface area de area at 50% e ne for outflow b Soil in	ffective depth + b etween 75% and 2 filtration rate	ase area) 5% effective depth (m/s):	(mins):	14.5 9.7E-5					
Mea (sic Tin Re i	an surface area de area at 50% e ne for outflow b Soil in marks	ffective depth + b etween 75% and 2 filtration rate	ase area) 5% effective depth (m/s):	(mins):	14.5 9.7E-5					
Mea (sic Tin Re i	an surface area de area at 50% e ne for outflow b Soil in marks	ffective depth + b etween 75% and 2 filtration rate Results processed	ase area) 5% effective depth (m/s): following BRE 365	(mins): (2007).	14.5 9.7E-5					
Mea (sic Tin Re i	an surface area de area at 50% e ne for outflow b Soil in marks	ffective depth + b etween 75% and 2 filtration rate Results processed	ase area) 5% effective depth (m/s): following BRE 365	(mins): (2007).	14.5 9.7E-5					
Mea (sic Tin Rei	an surface area de area at 50% e ne for outflow b Soil in marks	ffective depth + b etween 75% and 2 filtration rate Results processed	ase area) 5% effective depth (m/s): following BRE 365	(mins): (2007).	14.5 9.7E-5					
Mea (sic Tin Rei	an surface area de area at 50% e ne for outflow b Soil in marks	ffective depth + b etween 75% and 2 filtration rate Results processed	ase area) 5% effective depth (m/s): following BRE 365 ental Ltd	(mins): (2007).	14.5 9.7E-5					

Soakaway Test

	Trial Pit No:	TP4	Test No:	3	Date:	15/06/2022			
	Length (m):	0.800		Datum Height:	0.00	m agl			
	Width (m):	0.40		Granular infill:	None	_			
	Depth (m):	0.60		Porosity of infill:	1	(assumed)			
		Elapsed time	Water Depth	Elapsed time	Water Depth				
		(minutes)	(m below datum)	(minutes)	(m below datum)				
		0	0.170	14	0.360				
		1	0.190	15	0.370				
		2	0.210	16	0.390				
		3	0.230	17	0.400				
		4	0.240	18	0.410				
		5	0.250	19	0.420				
		6	0.260	20	0.430				
		7	0.280	21	0.440				
		8	0.290	22	0.450				
		9	0.300	23	0.4/0				
		10	0.310	24	0.480				
		11	0.320	25 20	0.490				
		12	0.340	30	0.540				
		13	0.350	35	0.580				
	0.00 -								
	0.00								
	0.10 -								
						.			
	0.20								
Ê									
h (n	0.30 -								
Dept	0.40 +								

	0.50				<u> </u>				
	0.60 +								
	0.70								
	0	5 10	15	20 25	30 3	5 40			
			Elapsed t	ime (minutes)					
Sta	rt water depth 1	for analysis (mbgl)	0.17]			
75%	effective dept	h (mbgl):	0.28	El	apsed time (mins):	7.0			
50%	effective dept	h (mbgl):	0.39						
25%	effective dept	h (mbgl):	0.49	El	apsed time (mins):	25.0			
Bas	e of soakage zo	ne (mbgl):	0.60						
Vol	ume outflow be	tween 75% and 25	% effective depth (m³):	0.067				
Mea	an surface area	of outflow (m ²):			0.82				
(sid	le area at 50% e	ffective depth + b	ase area)						
Tim	e tor outflow b	etween 75% and 2	5% effective depth	(mins):	18.0				
	Soil in	filtration rate	(m/s):		7.6E-5				
Ror	marks	Dogulto and	following DDE 2/5	(2007)					
		Results processed	TOLLOWING BRE 365	(2007).					
						_			
Cli	ent:	Neo Environme	ental Ltd			TP4			
Ci+	e:	Land at Thorot	on			11 7			

Soakaway Test

	Trial Pit No:	TP5	Test No:	1	Date:	15/06/2022		
	Length (m):	0.800		Datum Height:	0.00	m agl		
	Width (m):	0.40		Granular infill:	None			
	Depth (m):	0.60		Porosity of infill:	1	(assumed)		
		Elapsed time	Water Depth	Elapsed time	Water Depth	1		
		(minutes)	(m below datum)	(minutes)	(m below datum)			
		0	0.120	14	0.420			
		1	0.160	15	0.430			
		2	0.180	16	0.440			
		3	0.210	17	0.460			
		4	0.230	18	0.480			
		5	0.250	19	0.510			
		6	0.270	20	0.530			
		7	0.290	21	0.550			
		8	0.310	22	0.570			
		9	0.330	23	0.580			
		10	0.350	24	0.600			
		11	0.360					
		12	0.380					
		13	0.400					
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	0.50 +							
	0.00							
	0.60 +							
1	0.70		10	15 20	25			
	0.70	5	10 Elanad t	15 20	25	30		
	0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	30		
	0.70	5	10 Elapsed t	15 20 ime (minutes)	25	30		
Sta	0.70 0	5 for analysis (mbgl)	10 Elapsed t 0.12	15 20 ime (minutes)	25	30		
Sta 75%	0.70 1 0 Int water depth	5 for analysis (mbgl) h (mbgl):	10 Elapsed t 0.12 0.24	15 20 ime (minutes) El	apsed time (mins):	30		
Sta 75% 50%	0.70 0 ort water depth 6 effective dept 6 effective dept	5 for analysis (mbgl) h (mbgl): h (mbgl):	10 Elapsed t 0.12 0.24 0.36	15 20 ime (minutes) El	apsed time (mins):	30		
Sta 75% 50% 25%	0.70 0 o frt water depth 6 effective dept 6 effective dept 6 effective dept	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl):	10 Elapsed t 0.12 0.24 0.36 0.48	15 20 ime (minutes) El	apsed time (mins):	30 30 4.5 18.0		
Sta 75% 50% 25% Bas	0.70 0 ort water depth 6 effective dept 6 effective dept 6 effective dept 6 effective dept 6 se of soakage zo	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed t 0.12 0.24 0.36 0.48 0.60	15 20 ime (minutes) El	apsed time (mins): apsed time (mins):	30 30 4.5 18.0		
Sta 75% 50% 25% Bas	0.70 o rt water depth 6 effective dept 6 effective dept 6 effective dept 5 e of soakage zo	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl):	10 Elapsed t 0.12 0.24 0.36 0.48 0.60	15 20 ime (minutes) EL EL	apsed time (mins): apsed time (mins):	30 30 4.5 18.0		
Sta 75% 50% 25% Bas Vol	0.70 0 o firt water depth 6 effective dept 6 effective dept 6 effective dept 5 e of soakage zo	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 257	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (i	15 20 ime (minutes) El El	apsed time (mins): apsed time (mins): 0.077	30 30 4.5 18.0		
Sta 75% 50% 25% Bas Vol Mea	0.70 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n	15 20 ime (minutes) EL EL	apsed time (mins): apsed time (mins): 0.077 0.90	30 30 4.5 18.0		
Sta 75% 50% 25% Bas Vol Mea (sic	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b otween 75% and 25	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area)	15 20 ime (minutes) El m ³):	apsed time (mins): apsed time (mins): 0.077 0.90	30 30 4.5 18.0		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (i ase area) 5% effective depth	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.077 0.90 13.5	30 30 4.5 18.0		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.077 0.90 13.5	30 30 4.5 18.0		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 fifiltration rate	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.077 0.90 13.5 1.1E-4	30 30 4.5 18.0		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ifiltration rate	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.077 0.90 13.5 1.1E-4	30 30 4.5 18.0		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (i ase area) 5% effective depth (m/s): following BRE 365	15 20 ime (minutes) El m ³): (mins): (2007).	apsed time (mins): apsed time (mins): 0.077 0.90 13.5 1.1E-4	30		
Sta 759 509 259 Bas Vol Mea (sic Tim	0.70 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ifiltration rate	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	15 20 ime (minutes) El m ³): (mins): (2007).	apsed time (mins): apsed time (mins): 0.077 0.90 13.5 1.1E-4	30		
Sta 759 509 259 Bas (sic Tim Rei	0.70 0 o o o o o o o o o o o o o	5 for analysis (mbgl) h (mbgl): h (mbgl): h (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 ffiltration rate Results processed	10 Elapsed t 0.12 0.24 0.36 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): following BRE 365	15 20 ime (minutes) El m ³): (mins): (2007).	apsed time (mins): apsed time (mins): 0.077 0.90 13.5 1.1E-4	30		

Land at Thoroton

Soakaway Test

	Trial Pit No	TP5	Test No:	2	Date	15/06/2022
	Length (m):	0.800	rest no.	Datum Height	0.00	m agl
	Width (m):	0.000		Granular infill:	None	mage
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
	2 op ().	Elancad time	Water Depth	Elanced time	Watar Donth	(0000000000)
		(minutos)	(m balaw datum)	ciapsed time	(m balaw datum)	
	·	(minutes)		(minutes)		
		1	0.000	14	0.350	
		ן ז	0.110	15	0.300	
		2	0.120	10	0.380	
		7	0.140	17	0.400	
		5	0.100	10	0.420	
		6	0.100	20	0.440	
		7	0.200	20	0.400	
		8	0.220	21	0.480	
		a	0.240	22	0.510	
		10	0.230	23	0.510	
		11	0.270	27	0.550	
		12	0.270	25	0.530	
		12	0.310	20	0.570	
		15	0.550	LI	0.570	
Depth (m)	0.10 0.20 0.30 0.40 0.50 0.60	B.B.B.B.B.B.	B.B.B.B.B.B.	R. R	****	_
	0.70			1 1	1	
	0.70	5	10	15 20	25	30
	0.70	5	10 Elapsed t	15 20 ime (minutes)	25	30
Sta	0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	30
Sta	0.70 0 0 art water depth f	5 or analysis (mbgl)	10 Elapsed t 0.08 0.21	15 20 ime (minutes) FI	apsed time (mins):	30
Sta 759	0.70 0 art water depth f % effective depth	5 or analysis (mbgl) n (mbgl):	10 Elapsed t 0.08 0.21 0.34	15 20 ime (minutes) El	apsed time (mins):	30
Sta 75% 50%	0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 or analysis (mbgl) n (mbgl): n (mbgl):	10 Elapsed t 0.08 0.21 0.34 0.47	15 20 ime (minutes) EL	apsed time (mins):	30 30 6.5 20 5
Sta 759 509 259 Bas	0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	10 Elapsed t 0.08 0.21 0.34 0.47 0.60	15 20 ime (minutes) El	apsed time (mins): apsed time (mins):	30 30 6.5 20.5
Sta 759 509 259 Bas	0.70 0 art water depth f % effective depth % effective depth % effective depth % effective depth % effective depth % effective depth	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	10 Elapsed t 0.08 0.21 0.34 0.47 0.60	15 20 ime (minutes) EL	apsed time (mins): apsed time (mins):	30 30 6.5 20.5
Sta 759 509 259 Bas	0.70 0 art water depth f % effective depth % effective depth % effective depth se of soakage zor lume outflow bet	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25	10 Elapsed t 0.08 0.21 0.34 0.47 0.60 % effective depth (1	15 20 ime (minutes) EL EL	apsed time (mins): apsed time (mins): 0.083	30 30 6.5 20.5
Sta 759 509 259 Bas Vol	0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25	10 Elapsed t 0.08 0.21 0.34 0.47 0.60 % effective depth (n	15 20 ime (minutes) EL El	apsed time (mins): apsed time (mins): 0.083 0.94	30 30 6.5 20.5
Sta 759 509 259 Bas Vol Me	0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	10 Elapsed t 0.08 0.21 0.34 0.47 0.60 % effective depth (n ase area)	15 20 ime (minutes) EL EL	apsed time (mins): apsed time (mins): 0.083 0.94	30 30 6.5 20.5
Sta 759 509 259 Bas Vol Me (sic Tin	0.70 0 art water depth f % effective depth % effective depth % effective depth % effective depth se of soakage zor lume outflow bet an surface area of de area at 50% effective bet	5 or analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.08 0.21 0.34 0.47 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.083 0.94 14.0	30 30 6.5 20.5
Sta 759 509 259 Bas Vol Me (sic Tin	0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b tween 75% and 2 filtration cato	10 Elapsed t 0.08 0.21 0.34 0.47 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) El m ³): (mins):	apsed time (mins): apsed time (mins): 0.083 0.94 14.0	30 30 6.5 20.5

Remarks

Client:Neo Environmental LtdTP5Site:Land at Thoroton

Results processed following BRE 365 (2007).

Soakaway Test

	Trial Pit No:	TP5	Test No:	3	Date:	15/06/2022
	Length (m):	0.800		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.110	14	0.370	
		1	0.130	15	0.390	
		2	0.160	16	0.400	
		3	0.180	17	0.410	
		4	0.200	18	0.420	
		5	0.220	19	0.440	
		6	0.240	20	0.450	
		7	0.250	21	0.460	
		8	0.270	22	0.470	
		9	0.290	23	0.480	
		10	0.300	24	0.500	
		11	0.320	25	0.520	
1		12	0.340	30	0.570	
		13	0.360	35	0.600	
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	0.00					
	0.10					
	0.20					
	0.20 +					
Ê	0.30 +					
ţ,			1			
Dep	0.40 +					
				^{∎.} ∎. _{■.}		
	0.50 -					
	0.60 +					•
	0.70					
	0	5 10	15	20 25	30 3	5 40
			Elapsed t	time (minutes)		
			•			
C+-		for analysis (mk -1)	0.44			
5ta	offoctive depth 1	ior analysis (MDgl) h (mbal):	0.11		ancod time (mine):	E F
10%		h (mbgl):	0.23	El	apseu time (mins):	5.5
30%			U.36		ancod time (mine):	22.0
Z3%	e of soakaro zo	n (mbgl). ne (mbgl):	0.48	El	apseu time (mms):	23.0
Das	e ui suakage 201		0.00			
Val	ume outflow bo	tween 75% and 25	% offective depth (m ³).	0 000	
VOL		of outflow (m^2)	⁷⁰ enective depth (I	III* J •	0.080	
wea (cic	an surface area	or outriow (M): ffective depth : b	ase area)		0.90	
(SIC	he area at 50% e	etween 75% and ?	use area; 5% effective depth	(mins).	17 5	
Ľ		concern 7 5/0 and Z	on encente depui	(···iii <i>s)</i> .	17.5	
1	المح	filtration+-	(m/c)		0 65 6	
	5011 IN	nitration rate	(11/5):		8.3E-3	
Ro	marks	Desults a	fellowing DDE 2/5	(2007)		
		Results processed	TOLLOWING BRE 365	(2007).		
<u> </u>	ent·	Neo Environme	ental Ltd			
Cli	ciic.					TOF

Land at Thoroton

Soakaway Test

	Trial Pit No:	TP6	Test No:	1	Date:	15/06/2022
	Length (m):	1.000		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	-
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.060	14	0.530	
		1	0.110	15	0.550	
		2	0.150	16	0.570	
		3	0.190	17	0.590	
		4	0.230	18	0.600	
		5	0.270			
		6	0.300			
		7	0.340			
		8	0.370			
		9	0.400			
		10	0.430			
		11	0.460			
		12	0.490			
		13	0.510			
			-			I
	0.00					
	•					_
	0.10					
	0.20					
	0.20					
Ê	0.30 +		1			
Ę (
Dep	0.40 +					
						_
	0.50 -					
	0.60 +					-
	0.70	, , , , , , , , , , , , , , , , , , ,	6 9	10 12	14 16	18 20
	0 2	4	0 0 Flansed t	ime (minutes)	14 10	18 20
				e (initiates)		
Sta	rt water depth f	for analysis (mbgl)	0.06			2.2
/5%	errective dept	n (mogl):	0.20	El	apsed time (mins):	3.3
50%	effective dept	n (mbgl):	0.33			
25%	effective dept	n (mbgl):	0.47	El	apsed time (mins):	11.3
Bas	e of soakage zo	ne (mbgl):	0.60			
Val	umo outflow bo	twoon 75% and 25	% offective death (m3).	0 100	
VOL		tween 75% and 25	∞ enective depth (i	m [•]);	0.108	
Mea	an surface area	or outflow (m ⁻):			1.16	
(S10	ie dred at 50% e	nective depth + D	ase died) 5% offoctivo dooth	(mins):	0 0	
		etween 75% and Z		(111115).	6.0	
	Sail in	filtration rate	(m/s)•		1 QE- <i>1</i>	
	5011 11		(11/5).		1.96-4	
Rer	marks	Results processed	following BRF 365	(2007).		
<u></u>	ont	Neo Environmo	ntal I td			
Cli	ent:	Neo Environme	ental Ltd			TP6

	Trial Pit No:	TP6	Test No:	2	Date:	15/06/2022		
	Length (m):	1.000		Datum Height:	0.00	m agl		
	Width (m):	0.40		Granular infill:	None	_		
	Depth (m):	0.60		Porosity of infill:	1	(assumed)		
		Elapsed time	Water Depth	Elapsed time	Water Depth			
		(minutes)	(m below datum)	(minutes)	(m below datum)			
		0	0.080	14	0.450			
		1	0.120	15	0.480			
		2	0.150	16	0.510			
		3	0.180	17	0.530			
		4	0.200	18	0.550			
		5	0.220	19	0.570			
		6	0.250	20	0.580			
		7	0.270	21	0.600			
		8	0.300					
		9	0.320					
		10	0.350					
		11	0.370					
		12	0.390					
		13	0.420					
	0.00							
	0.00							
	0.10							
	0.20							
<u></u>	0.30 +							
epth								
Ď	0.40 +							
	0.50							
				-				
	0.60 +							
	0.70 +	5	10	15	20	25		
			Elapsed	ime (minutes)		-		
				· · · · · · · · · · · · · · · · · · ·				
C+ -	ا ـــــا	for analysis (mb -)	0.00					
Sta 750	offoctive doct	ior analysis (MDgl)	U.U8		ancod time (mine).	4 F		
1 3%			0.21	EL	apseu time (mins):	4.5		
ンU% 250		.n (mbgl):	0.34	E 1	ansed time (mine).	1 4 7		
Z0%	e of soakage zo	(IIIDgt). one (mbgl):	0.47 0.40	EL	apseu time (mms):	14.7		
Das	e of soakage 20	me (mogi).	0.00					
٧ما	ume outflow be	etween 75% and 25	% effective denth ()	m ³):	0 104			
Mer	an surface area	of outflow (m ²).		···· <i>)</i> •	1 1 2			
(sic	le area at 50% e	offective denth + h	ase area)		1.13			
Tim	he for outflow h	etween 75% and 7	5% effective denth	(mins):	10 2			
					10.2			
	Sail ir	filtration rate	(m/s)•		1 5F- <i>4</i>			
	J UIL II		(111/3).		1.JL-7			
Rer	marks	Results processes	following BRF 365	(2007)				
		nesatis processet	I JORGHT IN DIVE JUJ	(2007).				
Cli	ent:		ental Ltd			TP6		
Sit	e:	Land at Thoro	ton					

Soakaway Test

	Trial Pit No:	TP6	Test No:	3	Date:	15/06/2022
	Length (m):	1.000		Datum Height:	0.00	m agl
	Width (m):	0.40		Granular infill:	None	5
	Depth (m):	0.60		Porosity of infill:	1	(assumed)
		Elapsed time	Water Depth	Elapsed time	Water Depth	1
		(minutes)	(m below datum)	(minutes)	(m below datum)	
		0	0.100	14	0.410	
		1	0.140	15	0.430	
		2	0.170	16	0.450	
		3	0.190	17	0.470	
		4	0.210	18	0.490	
		5	0.230	19	0.510	
		6	0.250	20	0.530	
		7	0.270	21	0.550	
		8	0.300	22	0.570	
		9	0.320	23	0.580	
		10	0.340	24	0.600	
		11	0.360			
		12	0.380			
		13	0.400			
	0.00					
(m)	0.10					
	0.10					
	0.20					
	0.30 +	.30 -				
pth						
ă	0.40 +					
				.		
	0.50 +		B - B			
	0.50 -		₽-₽.	R. R		
	0.50 -		P-8	R. R	****	
	0.50 -			R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.R.	BBBBBBBBBBBBB	
	0.50	5	10	15 20	25	
	0.50 - 0.60 - 0.70 0	5	10 Elancod f	15 20	25	30
	0.50 - 0.60 - 0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	
	0.50 - 0.60 - 0.70 0	5	10 Elapsed t	15 20 ime (minutes)	25	30
Sta	0.50 0.60 0.70 0 0 0 0	5 or analysis (mbgl)	10 Elapsed t	15 20 ime (minutes)	25	30
Sta 75%	0.50 0.60 0.70 0 rt water depth f 6 effective depth	5 or analysis (mbgl) n (mbgl):	10 Elapsed t 0.10 0.23	15 20 ime (minutes)	25 apsed time (mins):	30
Sta 75% 50%	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth	5 for analysis (mbgl) n (mbgl): n (mbgl):	10 Elapsed t 0.10 0.23 0.35	15 20 ime (minutes)	apsed time (mins):	30
Sta 759 509 259	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48	15 20 ime (minutes) EL	apsed time (mins):	30 5.0 17.5
Sta 759 509 259 Bas	0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60	15 20 ime (minutes) EL	apsed time (mins): apsed time (mins):	30 30 5.0 17.5
Sta 759 509 259 Bas	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth 6 effective depth	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60	15 20 ime (minutes) El El	apsed time (mins): apsed time (mins):	30 30 5.0 17.5
Sta 75% 50% 25% Bas	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (f	15 20 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.100	30 30 5.0 17.5
Sta 759 509 259 Bas Vol Mei	0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²):	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (i	15 20 ime (minutes) EL EL m ³):	apsed time (mins): apsed time (mins): 0.100 1.10	30 5.0 17.5
Sta 75% 50% 25% Bas Vol Mea (sic	0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area)	15 20 ime (minutes) El El m ³):	apsed time (mins): apsed time (mins): 0.100 1.10	
Sta 75% 50% 25% Bas Vol Mea (sic Tin	0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m²): ffective depth + b etween 75% and 2	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n pase area) 5% effective depth	15 20 ime (minutes) EL m ³): (mins):	apsed time (mins): apsed time (mins): 0.100 1.10 12.5	30 30 17.5
Sta 759 509 259 Bas Vol Mea (sic Tin	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth	15 20 ime (minutes) EL m ³):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5	30 5.0 17.5
Sta 759 509 259 Bas Vol Mea (sic Tin	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effective depth 7 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed t 0.10 0.23 0.35 0.48 0.60 % effective depth (n pase area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5 1.2E-4	30 5.0 17.5
Sta 75% 50% 25% Bas Vol Mea (sic Tin	0.50 0.60 0.70 0.70 0 0 0 0 0 0 0 0 0 0 0 0 0	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) El m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5 1.2E-4	30 5.0 17.5
Sta 75% 50% 25% Bas Vol Mea (sic Tim	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5 1.2E-4	30 30 17.5
Sta 759 509 259 Bas Vol Mea (sic Tin	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): ne (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (n ase area) 5% effective depth (m/s): I following BRE 365	15 20 ime (minutes) EL m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5 1.2E-4	30 5.0 17.5
Sta 75% 50% 25% Bas (sic Tin Re i	0.50 0.60 0.70 0.70 0 rt water depth f 6 effective depth 6 effe	5 for analysis (mbgl) n (mbgl): n (mbgl): n (mbgl): tween 75% and 25 of outflow (m ²): ffective depth + b etween 75% and 2 filtration rate Results processed	10 Elapsed to 0.10 0.23 0.35 0.48 0.60 % effective depth (no base area) 5% effective depth (m/s):	15 20 ime (minutes) EL m ³): (mins):	25 apsed time (mins): apsed time (mins): 0.100 1.10 12.5 1.2E-4	30 30 17.5

Land at Thoroton



Appendix D



YEX4201 TP01 and TP02 Photos













YEX4201 TP03 and TP04 Photos







YEX4201 TP05 and TP06 Photos









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