



# **Ground Investigation**

Tregoddick

## 19 November 2018

Wheal Jane Consultancy

Old Mine Offices, Wheal Jane, Baldhu, Truro, Cornwall, TR3 6EE

01872 560200

www.wheal-jane-consultancy.co.uk

consultancy@wheal-jane.co.uk

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## DOCUMENT CONTROL SHEET

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## **EXECUTIVE SUMMARY**

## Objectives

Wheal Jane Consultancy was commissioned by Mr M Clyndes to undertake a ground Investigation at the site of a proposed residential development, focusing specifically on drainage.

	Site Investigation				
Previous Investigations	A phase 1 preliminary risk assessment was undertaken by Cornwall Consultants on 18 <sup>th</sup> May 2018 Report Reference: AEL-4491-SSR-944447.				
	No other intrusive investigations are known to have taken place at this site.				
Site Works	4nr Trial Pits were excavated at the site. Soakaway testing was undertaken at all locations.				
Ground Conditions	Full ground profiles were obtained, showing topsoil overlying weathered Land's End Intrusion.				
Groundwater	No groundwater was encountered during the site investigation.				
Soakaway Testing					

- Infiltration rates varied between 1.10E-05m/s and 2.65E-05m/s across the site.
- The fastest infiltration rates were encountered in TP04 in the east.
- Slow soakage was encountered in TP02 in the centre of the site and as a result only one test was undertaken.

### 1 INTRODUCTION

#### 1.1 Instruction

- 1.1.1 Wheal Jane Consultancy (WJC) was commissioned by Mr M Clyndes to undertake BRE 365 Testing across a site at Tregoddick to calculate the soil infiltration rate of the site and assess the suitability of the site for a new residential development.
- 1.1.2 This report has been prepared by Wheal Jane Consultancy solely for the benefit of the client. It shall not be relied upon or transferred to any third party without the prior written authorisation of WJC.

### 1.2 Scope and Objectives

1.2.1 The objective of this investigation is to determine the permeability of the ground beneath the site in order to enable soakaway design and assess the site's suitability for its intended use as a residential development.

#### 1.3 Limitations

- 1.3.1 Conditions of the ground at locations not included within the investigation may be different from the tested locations.
- 1.3.2 This report considers site conditions at the time of the ground investigation, but ground conditions may change with time. If future work discovers ground conditions that vary significantly from the findings available in this report, the conclusions should be reviewed in the context of the new information.
- 1.3.3 Findings were assessed in the context of standards and methodology current at the time of reporting.
- 1.3.4 The findings and conclusions in this report are based upon information derived from a variety of sources. WJC cannot accept liability for the accuracy or completeness of any information derived from third party sources.

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### 2 THE SITE

### 2.1 Site Location and Layout

- 2.1.1 The site is located at Tregoddick, Madron, approximately 2.6km to the north west of the town centre of Penzance. The site is approximately centred on National Grid Reference SW 45409 31994 and shown on the site location plan Figure 2.1.
- 2.1.2 The site is irregular in shape and covers an area of approximately 0.40ha.
- 2.1.3 The site layout can be seen in Figure 2.2 below:

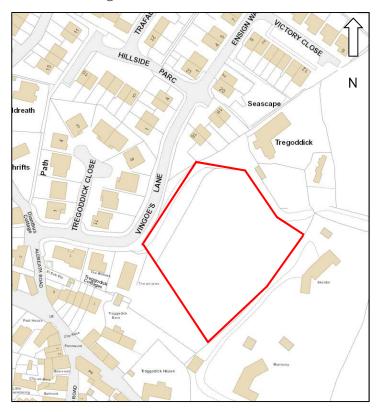


Figure 2.2: Current Site Layout. Plan taken from Cornwall Council Interactive Map.

## 2.2 Surrounding area

2.2.1 The site is bound to the north, west and south by residential property. To the east the site is bound by agricultural land with occasional residential property.

### 2.3 Proposed Development

2.3.1 The proposed development is for residential housing with associated gardens, parking and access. Planning application reference: PA18/02055.

### 3 SITE INVESTIGATION

### 3.1 Site Works

- 3.1.1 A BRE 365 Soakaway Testing Investigation was conducted on Tuesday 13<sup>th</sup> November 2018. The investigation was overseen by a geotechnical engineer from Wheal Jane Consultancy. An exploratory hole location plan is presented as Figure 3.1.
- 3.1.2 The following table summarises the intrusive investigation techniques employed during the site investigation:

Exploratory Hole Type	Exploratory Hole	Hole Depths (mBGL)	_	Cor	mments		
Trial Pit	TP01 – TP04	2.10 – 2.80	Soakaway locations.	test	completed	at	all

- 3.1.3 Trial pit logs are shown in Appendix A.
- 3.1.4 Trial pit photographs can be seen in Appendix B.
- 3.1.5 BRE 365 Soakaway results can be seen in Appendix C.

## 4 GROUND CONDITIONS

### 4.1 General

- 4.1.1 The BGS 1:50,000-scale bedrock geological map Sheet 351 & 358 Penzance shows the site to be underlain by the Land's End Intrusion comprising of Granite.
- 4.1.2 Trial pit logs depicting the strata beneath the site are shown in Appendix A. The following table represents a summary of the strata encountered beneath the site:

Strata	· ·	countered BGL)	Typical Thickness	Brief Description &
	From	То	(m)	Comments
Topsoil	0.00	0.60 - 0.80	0.80	Dark brown sandy, clayey TOPSOIL.
Weathered Land's End Intrusion	0.60 - 0.80	2.10 - 2.80	Unproven	Brown sandy GRAVEL Or Grey sandy GRAVEL

### 4.2 Strata Encountered

#### Topsoil

4.2.1 Material described as Topsoil was encountered across the site to depths of up to 0.80m below existing ground level.

### Weathered Land's End Intrusion

- 4.2.2 Material described as Weathered Land's End Intrusion was encountered across the site to depths of up to 2.80m. This was the depth of the soakaway testing; the sides of all pits were all stable. The thickness of the unit is unproven.
- 4.2.3 The unit may be generally described as grey or brown sandy GRAVEL. Cobbles and boulders of granite were encountered in three of the locations.

### 4.3 Groundwater

4.3.1 No groundwater was encountered during the site investigation.

### 4.4 Contamination Indications

4.4.1 No anthropogenic components were encountered during the investigation. No olfactory evidence of contamination was encountered.

## 5 SOAKAWAY RESULTS

- 5.1.1 Soakaway testing was completed in line with BRE 365.
- 5.1.2 Table 5.1, below, summarises the results, which are also contained as Appendix C.

Test	Exploratory Hole ID	Depth to Initial water level (mBGL)	Soil Infiltration Rate. (m/s)
BRE 365 Soakaway	TP01 – Test 1	0.82	1.48E-05
BRE 365 Soakaway	TP01 – Test 2	0.83	1.33E-05
BRE 365 Soakaway	TP01 – Test 3	0.82	1.10E-05
BRE 365 Soakaway	TP02 – Test 1	0.84	N/A
BRE 365 Soakaway	TP03 – Test 1	0.86	2.24E-05
BRE 365 Soakaway	TP03 – Test 2	0.86	1.58E-05
BRE 365 Soakaway	TP03 – Test 3	0.85	1.35E-05
BRE 365 Soakaway	TP04 – Test 1	0.80	2.65E-05
BRE 365 Soakaway	TP04 – Test 2	0.88	2.37E-05
BRE 365 Soakaway	TP04 – Test 3	0.86	2.13E-05

- 5.1.3 The test could not be completed in TP02 due to extremely slow drainage.
- 5.1.4 The results highlight that the site possesses good drainage characteristics.

### 6 NOTES

- This report is concerned solely with the property, as defined by this report, or parts thereof examined.
- The report should not be used in connection with adjacent properties.
- In respect of site works, Wheal Jane Consultancy cannot accept any liabilities for any additional mine workings found outside the limits of any areas examined.
- The information supplied by third parties which has been used in compiling this Phase 2 ground investigation report, is derived from a number of statutory and non-statutory sources. While every effort is made by the supplier to ensure accuracy, the supplier cannot guarantee the accuracy or completeness of such information or data, nor to identify all the factors that may be relevant.
- The conclusions and recommendations relate to the type and extent of development outlined in this report for this specific property only and should not be taken as suitable for any other form or extent of development on this property without further consultation with Wheal Jane Consultancy.
- This report is confidential to the client, the client's legal and professional advisors, and may not be reproduced or distributed without our permission other than to directly facilitate the sale or development of the property concerned.
- We have no liability toward any person not party to commissioning this report.
- Unless otherwise expressly stated, nothing in this report shall create or confer any rights or other benefits
  pursuant to the Contracts (Rights of Third Parties) Act 1999 in favour of any person other than the person
  commissioning this report.
- This report is not an asbestos inspection that may fall within the control of Control of Asbestos

  Regulations 2006

## **FIGURES**



Title: Site Location Plan

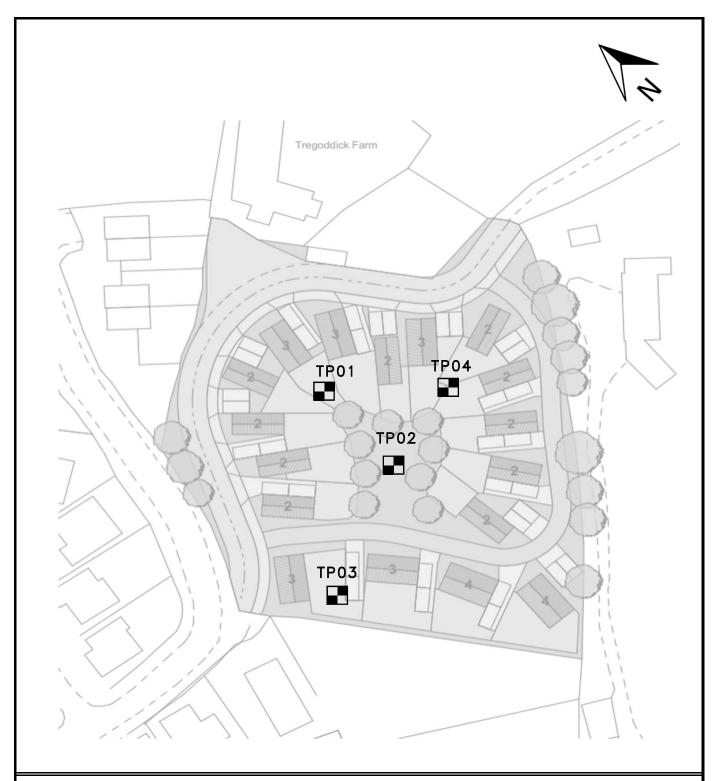
Project: Tregoddick Farm

Client: Mr M Clyndes

Report Title: Ground Investigation

Date: 19/11/2018 Ref: 19570 Figure: 2.1





Title: Exploratory Hole Location Plan

Project: Tregoddick Farm

Client: Mr M Clyndes

Report Title: Ground Investigation

Scale: NTS

Date: 19/11/2018 Ref: 19570 Figure: 3.1



## Appendix A

Trial Pit Logs

Wheal Jar Consultan	ne cy cal, environmental envices			, C	Wheal Jane	Site Tregoddick		Trial Pit Number TP01
Excavation Machine exc	Method avated trial pit	Dimension Width: 0 Length: 2	.60m		<b>Level (mOD)</b> 119.00	Client Mr M Clyndes		Job Number 19570
		<b>Location</b> Treg	goddick	Dates 12	2/11/2018	Engineer Wheal Jane Consultancy		Sheet
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	Description	Legend
				118.20 116.40 116.20	(0.80)	Grass over dark brown claffine to coarse.  Brown sandy angular to s of granite. Sand is fine to Boulders up to 700mm. [L.	ubangular, fine to coarse GF coarse. Rare cobbles and ANDS END INTRUSION]  bangular, fine to coarse GRA coarse. [LANDS END	RAVEL
	Vannetsiane		7					
		\						
					5	Scale (approx)	Logged By	Figure No.

Wheal Jar Consultan	ne icul ical, environmental services				Wheal Jane Group	Site Tregoddick		Trial P Numb	er
Excavation Machine exc	Method cavated trial pit.	Dimensio Width: 0. Length: 2	60m		<b>Level (mOD)</b> 118.00	Client Mr M Clyndes		Job Numb 1957	
		<b>Location</b> Treg	oddick	Dates 12	2/11/2018	Engineer Wheal Jane Consultancy		Sheet	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend	Water
	None State of the			117.20	2.10	Grass over dark brown cla fine to coarse.	ubangular, medium to coarsent cobbles and boulders urange (TRUSION)		
					5	Scale (approx)	Logged By	Figure No.	
			$\Diamond$ $\Diamond$			1:50	ВН	19570.TP02	2

Wheal Jar Consultan	ne Icul Ical, environmental services			V	Wheal Jane	Site Tregoddick		Trial Pit Numbe TP03
Excavation Machine exc	Method cavated trial pit.	Dimensio Width: 0. Length: 2	60m		<b>Level (mOD)</b> 116.00	Client Mr M Clyndes		Job Numbe 19570
		<b>Location</b> Treg	oddick	Dates 12	2/11/2018	Engineer Wheal Jane Consultancy		Sheet 3/4
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	I	Description	Legend
	Managalana			113.20	2.80	Grass over dark brown c fine to coarse.	subangular, medium to coars uent cobbles and boulders up TRUSION]	
		троз 🗍			5	Scale (approx)	Logged By	Figure No.

Control excervated trial pit.  Location Tregodick  Depth Sample / Tests  Depth Sample /	Machine excav				V G	Wheal Jane or out of the state	Site Tregoddick		Trial P Numb TP0
Tregototick  Trego	Depth			.60m					Numb
Orass over dark brown clayer, sandy TOPSOIL. Sand is fine to coarse.  113.30  2.70  Remarks  No groundwater encountered. Sides stable.	Depth				Dates 12	2/11/2018			
Orass over dark brown clayer, sandy TOPSOIL. Sand is fine to coarse.  113.30  2.70  Remarks  No groundwater encountered. Sides stable.	(m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	D	escription	Legend
Remarks No groundwater encountered. Sides stable.						2.70	Brown sandy angular to so of granite. Sand is fine to or INTRUSION]		
Scale (approx) Logged By Figure No.									

## Appendix B

Trial Pit Photographs











Tregoddick	19570		
Soakaway Investigation	Trial Pit Photographs		
Mr M Clyndes	13/11/2018		











Tregoddick 19570

Soakaway Investigation Trial Pit Photographs

Mr M Clyndes 13/11/2018











Tregoddick	19570
Soakaway Investigation	Trial Pit Photographs
Mr M Clyndes	13/11/2018











Tregoddick	19570
Soakaway Investigation	Trial Pit Photographs
Mr M Clyndes	13/11/2018

## Appendix C

BRE 365 Soakaway Testing Results

Job Name:	Tregoddick	Trial Pit:	TP01
Job Number:	19570	Test No:	1
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

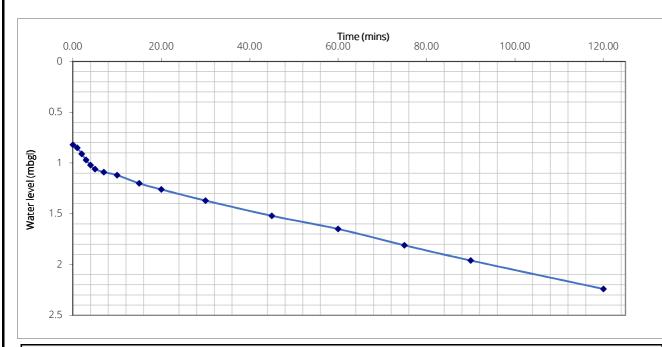


Pit Dimensions		
Depth to Base	2.80	m
Length	2.10	m
Width	0.60	m
Depth to Initial Water Level	0.82	m

Calculations		
Depth to initial water level	0.82	m
Volume of water between 75% and 25% storage	0.17	m3
Water level at 50% storage	1.81	m
Effective height at 50% storage	0.99	m
Effective surface area of hole at 50% storage	1.94	m2
Time between 75% and 25% dissipation (from chart)	100	min *

Soil Infiltration Rate ( <i>f</i> )	1.48E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.82
1.00	0.85
2.00	0.91
3.00	0.97
4.00	1.02
5.00	1.06
7.00	1.09
10.00	1.12
15.00	1.2
20.00	1.26
30.00	1.37
45.00	1.52
60.00	1.65
75.00	1.81
90.00	1.96
120.00	2.24
150.00	
180.00	
210.00	
240.00	



### Remarks

Job Name:	Tregoddick	Trial Pit:	TP01
Job Number:	19570	Test No:	2
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

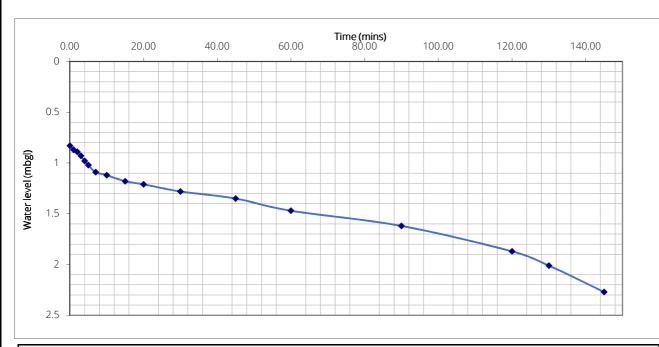


Pit Dimensions		
Depth to Base	2.80	m
Length	2.10	m
Width	0.60	m
Depth to Initial Water Level	0.83	m

Calculations		
Depth to initial water level	0.83	m
Volume of water between 75% and 25% storage	0.17	m3
Water level at 50% storage	1.82	m
Effective height at 50% storage	0.99	m
Effective surface area of hole at 50% storage	1.91	m2
Time between 75% and 25% dissipation (from chart)	110	min *

Soil Infiltration Rate ( <i>f</i> )	1.33E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.83
1.00	0.87
2.00	0.89
3.00	0.93
4.00	0.98
5.00	1.02
7.00	1.09
10.00	1.12
15.00	1.18
20.00	1.21
30.00	1.28
45.00	1.35
60.00	1.47
90.00	1.62
120.00	1.87
130.00	2.01
145.00	2.27
150.00	
180.00	
210.00	



Remarks

Job Name:	Tregoddick	Trial Pit:	TP01
Job Number:	19570	Test No:	3
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

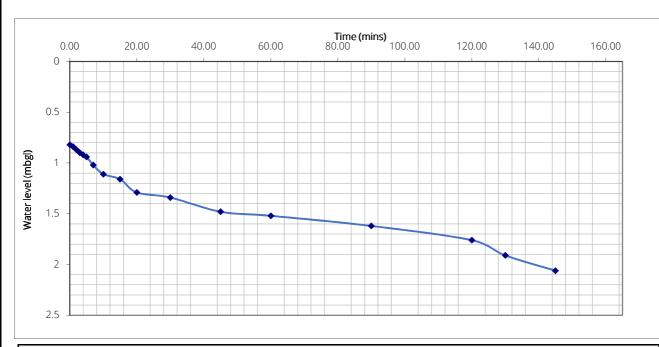


Pit Dimensions		
Depth to Base	2.80	m
Length	2.10	m
Width	0.60	m
Depth to Initial Water Level	0.82	m

Calculations		
Depth to initial water level	0.82	m
Volume of water between 75% and 25% storage	0.17	m3
Water level at 50% storage	1.81	m
Effective height at 50% storage	0.99	m
Effective surface area of hole at 50% storage	1.94	m2
Time between 75% and 25% dissipation (from chart)	135	min *

Soil Infiltration Rate ( <i>f</i> )	1.10E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.82
1.00	0.84
2.00	0.87
3.00	0.9
4.00	0.92
5.00	0.94
7.00	1.02
10.00	1.11
15.00	1.16
20.00	1.29
30.00	1.34
45.00	1.48
60.00	1.52
90.00	1.62
120.00	1.76
130.00	1.91
145.00	2.06
160.00	2.28
190.00	
220.00	



## Remarks

Job Name:	Tregoddick	Trial Pit:	TP02	
Job Number:	19570	Test No:	1	
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy	
		Date:	13/11/2018	

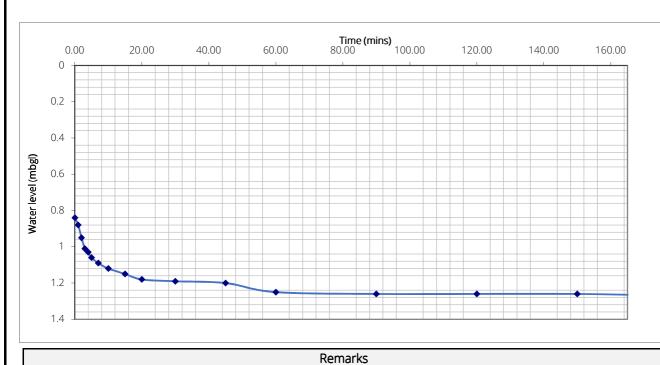


Pit Dimensions		
Depth to Base	2.10	m
Length	2.20	m
Width	0.60	m
Depth to Initial Water Level	0.84	m

Calculations		
Depth to initial water level	0.84	m
Volume of water between 75% and 25% storage	0.28	m3
Water level at 50% storage	1.47	m
Effective height at 50% storage	0.63	m
Effective surface area of hole at 50% storage	2.11	m2
Time between 75% and 25% dissipation (from chart)	N/A	min *

Soil Infiltration Rate ( f)	N/A	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.84
1.00	0.88
2.00	0.95
3.00	1.01
4.00	1.03
5.00	1.06
7.00	1.09
10.00	1.12
15.00	1.15
20.00	1.18
30.00	1.19
45.00	1.2
60.00	1.25
90.00	1.26
120.00	1.26
150.00	1.26
180.00	1.27
210.00	1.27
240.00	1.27
270.00	1.27



Sides stable. Pit did not drain to 25% within sufficient time.

Job Name:	Tregoddick	Trial Pit:	TP03
Job Number:	19570	Test No:	1
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

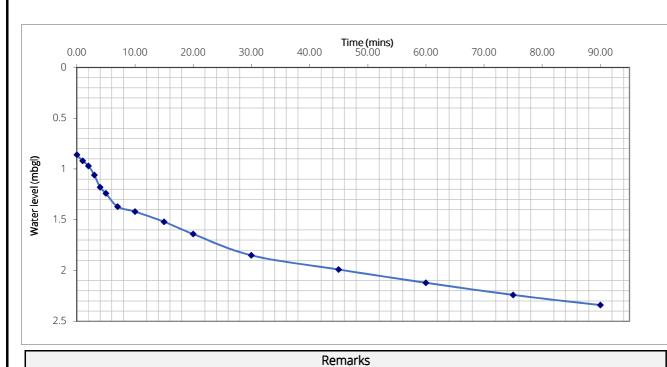


Pit Dimensions		
Depth to Base	2.80	m
Length	2.20	m
Width	0.60	m
Depth to Initial Water Level	0.86	m

Calculations		
Depth to initial water level	0.86	m
Volume of water between 75% and 25% storage	0.22	m3
Water level at 50% storage	1.83	m
Effective height at 50% storage	0.97	m
Effective surface area of hole at 50% storage	2.10	m2
Time between 75% and 25% dissipation (from chart)	76	min *

Soil Infiltration Rate ( f)	2.24E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.86
1.00	0.92
2.00	0.97
3.00	1.06
4.00	1.18
5.00	1.24
7.00	1.37
10.00	1.42
15.00	1.52
20.00	1.64
30.00	1.85
45.00	1.99
60.00	2.12
75.00	2.24
90.00	2.34
120.00	
150.00	
180.00	
210.00	
240.00	



ricinal K3

Job Name:	Tregoddick	Trial Pit:	TP03
Job Number:	19570	Test No:	2
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

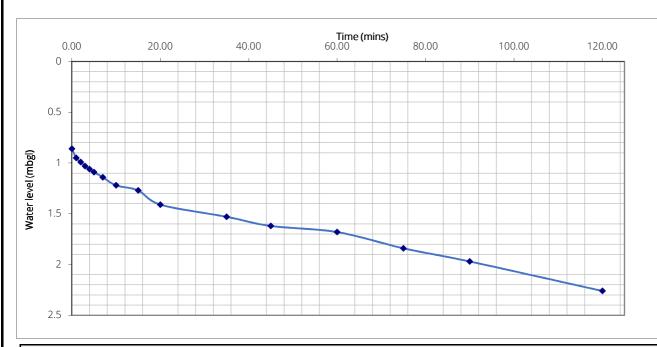


Pit Dimensions		
Depth to Base	2.80	m
Length	2.20	m
Width	0.60	m
Depth to Initial Water Level	0.86	m

Calculations		
Depth to initial water level	0.86	m
Volume of water between 75% and 25% storage	0.22	m3
Water level at 50% storage	1.83	m
Effective height at 50% storage	0.97	m
Effective surface area of hole at 50% storage	2.10	m2
Time between 75% and 25% dissipation (from chart)	108	min *

Soil Infiltration Rate ( f)	1.58E-05	m/s
` ,		

Elapsed Time (mins)	Water Level (m)
0.00	0.86
1.00	0.95
2.00	0.99
3.00	1.03
4.00	1.06
5.00	1.09
7.00	1.14
10.00	1.22
15.00	1.27
20.00	1.41
35.00	1.53
45.00	1.62
60.00	1.68
75.00	1.84
90.00	1.97
120.00	2.26
150.00	
180.00	
210.00	
240.00	



### Remarks

Job Name:	Tregoddick	Trial Pit:	TP03
Job Number:	19570	Test No:	3
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

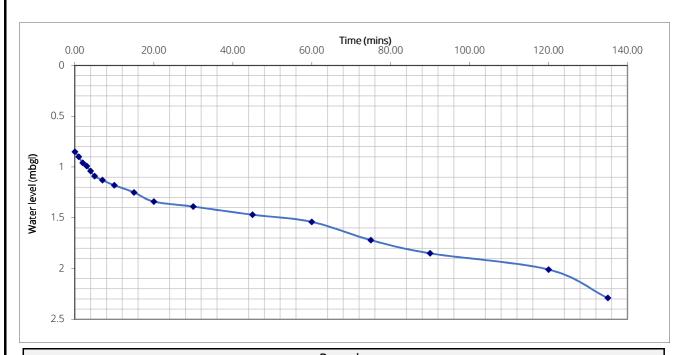


Pit Dimensions		
Depth to Base	2.80	m
Length	2.20	m
Width	0.60	m
Depth to Initial Water Level	0.85	m

Calculations		
Depth to initial water level	0.85	m
Volume of water between 75% and 25% storage	0.22	m3
Water level at 50% storage	1.83	m
Effective height at 50% storage	0.98	m
Effective surface area of hole at 50% storage	2.13	m2
Time between 75% and 25% dissipation (from chart)	127	min *

Soil Infiltration Rate ( f)	1.35E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.85
1.00	0.9
2.00	0.96
3.00	0.99
4.00	1.04
5.00	1.09
7.00	1.13
10.00	1.18
15.00	1.25
20.00	1.34
30.00	1.39
45.00	1.47
60.00	1.54
75.00	1.72
90.00	1.85
120.00	2.01
135.00	2.29
180.00	
210.00	
240.00	



Remarks

Job Name:	Tregoddick	Trial Pit:	TP04
Job Number:	19570	Test No:	1
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

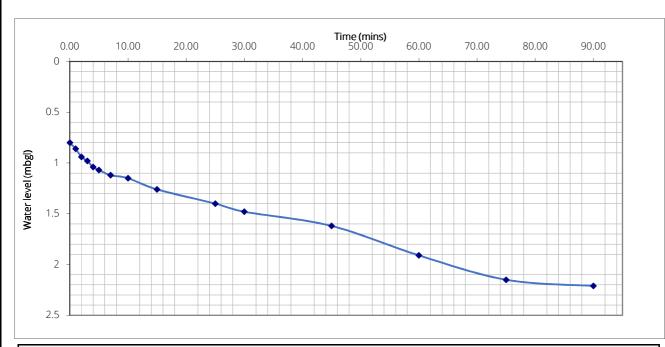


Pit Dimensions		
Depth to Base	2.70	m
Length	2.25	m
Width	0.60	m
Depth to Initial Water Level	0.80	m

Calculations		
Depth to initial water level	0.80	m
Volume of water between 75% and 25% storage	0.29	m3
Water level at 50% storage	1.75	m
Effective height at 50% storage	0.95	m
Effective surface area of hole at 50% storage	2.39	m2
Time between 75% and 25% dissipation (from chart)	75	min *

Soil Infiltration Rate ( f)	2.65E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.8
1.00	0.86
2.00	0.94
3.00	0.98
4.00	1.04
5.00	1.07
7.00	1.12
10.00	1.15
15.00	1.26
25.00	1.4
30.00	1.48
45.00	1.62
60.00	1.91
75.00	2.15
90.00	2.21
120.00	
150.00	
180.00	
210.00	
240.00	



### Remarks

Job Name:	Tregoddick	Trial Pit:	TP04
Job Number:	19570	Test No:	2
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
		Date:	13/11/2018

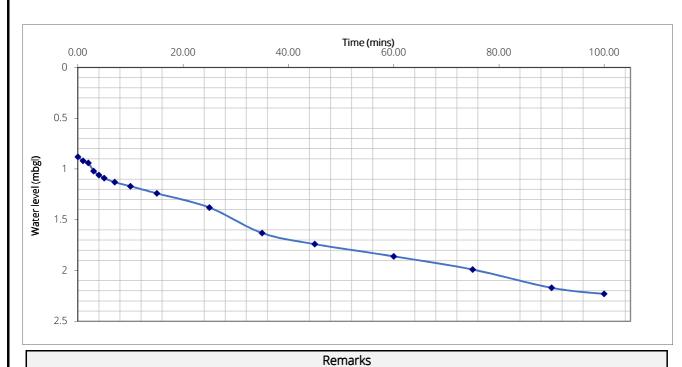


Pit Dimensions		
Depth to Base	2.70	m
Length	2.25	m
Width	0.60	m
Depth to Initial Water Level	0.88	m

Calculations		
Depth to initial water level	0.88	m
Volume of water between 75% and 25% storage	0.25	m3
Water level at 50% storage	1.79	m
Effective height at 50% storage	0.91	m
Effective surface area of hole at 50% storage	2.21	m2
Time between 75% and 25% dissipation (from chart)	80	min *

Soil Infiltration Rate ( f)	2.37E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.88
1.00	0.92
2.00	0.94
3.00	1.02
4.00	1.06
5.00	1.09
7.00	1.13
10.00	1.17
15.00	1.24
25.00	1.38
35.00	1.63
45.00	1.74
60.00	1.86
75.00	1.99
90.00	2.17
100.00	2.23
130.00	
160.00	
190.00	
220.00	



Job Name:	Tregoddick	Trial Pit:	TP04
Job Number:	19570	Test No:	3
Client:	Mr M Clyndes	Engineer:	Wheal Jane Consultancy
	_	Date:	13/11/2018

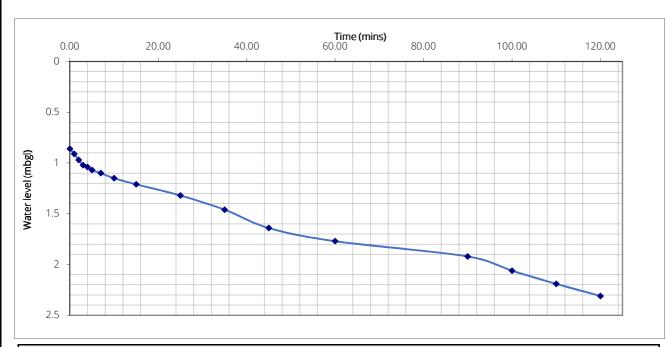


Pit Dimensions		
Depth to Base	2.70	m
Length	2.25	m
Width	0.60	m
Depth to Initial Water Level	0.86	m

Calculations		
Depth to initial water level	0.86	m
Volume of water between 75% and 25% storage	0.26	m3
Water level at 50% storage	1.78	m
Effective height at 50% storage	0.92	m
Effective surface area of hole at 50% storage	2.25	m2
Time between 75% and 25% dissipation (from chart)	90	min *

Soil Infiltration Rate ( f)	2.13E-05	m/s

Elapsed Time (mins)	Water Level (m)
0.00	0.86
1.00	0.91
2.00	0.97
3.00	1.02
4.00	1.04
5.00	1.07
7.00	1.1
10.00	1.15
15.00	1.21
25.00	1.32
35.00	1.46
45.00	1.64
60.00	1.77
90.00	1.92
100.00	2.06
110.00	2.19
120.00	2.31
150.00	
180.00	
210.00	



### Remarks



## Wheal Jane Consultancy

## Part of the Wheal Jane Group

- -Laboratory Testing of Soils and Water-
  - -Mineralogical Surveys and Reports-
  - -Contaminated Land Assessments-
    - -Geotechnical Investigation-
    - -Mine Site Investigations-
      - -Mine Search Reports-
        - -Mundic Analysis-









