## **APPENDIX A: SITE CHARACTERISATION FORM**

File Reference:
1.0 GENERAL DETAILS (From planning application)
Prefix: First Name: Jack Surname: Norton
Address: Site Location and Townland:
New House Forgefield, Stocking Lane, Rathfarnham
Number of Bedrooms: 2 Maximum Number of Residents: 4
Comments on population equivalent
Number of bedrooms plus 2
Proposed Water Supply:  Mains   Private Well/Borehole   Group Well/Borehole
2.0 GENERAL DETAILS (From planning application)
Soil Type, (Specify Type): Made Ground
Till derived from Metamorphic rocks
Subsoil, (Specify Type):
Bedrock Type: Ordovician Metasediments
Aquifer Category: Regionally Important Locally Important Locally Important Poor
Vulnerability: Extreme ✓ High Moderate Low
Groundwater Body: Kilcullen Status Good
Name of Public/Group Scheme Water Supply within 1 km:
Source Protection Area: ZOC SI SO Groundwater Protection Response: R2,
Presence of Significant Sites (Archaeological, Natural & Historical): None
Past experience in the area: Good soakage
Comments:
(Integrate the information above in order to comment on: the potential suitability of the site, potential targets at risk, and/or any potential site restrictions).
Bedrock Aquifer is LI - Vulnerability is Extreme - Groundwater will be a target at risk.

Note: Only information available at the desk study stage should be used in this section.

## 3.0 ON-SITE ASSESSMENT

3.1 Visual Assessm	GIIL		
Landscape Position:	On Gentle North-facing slo	pe	
Slope:	Steep (>1:5)	Shallow (1:5-1:20)	Relatively Flat (<1:20)
Slope Comment			
Surface Features with	nin a minimum of 250m (D	istance To Features Should Be Note	ed In Metres)
House to West -on opp House to Northeast at	osite side of Road @ 100m 150m		
Existing Land Use:			
Residential			
Vegetation Indicators	:		
Nothing to suggest poo	r soakage		
Groundwater Flow Di	rection: North		
Ground Condition:			
Dry			
Site Boundaries:			
Not defined			

### 3.0 ON-SITE ASSESSMENT

#### 3.1 Visual Assessment (contd.)

Roads:	
Road R115 to northwest Lane to Southwest	
Outron of (Deducate And (Ou Outron)).	
Outcrops (Bedrock And/Or Subsoil):	
None	
Surface Water Ponding:	
None	
None	
Lakes:	
None	
Beaches/Shellfish Areas:	
None	
Wetlands:	
None	
Karst Features:	
None	
Watercourses/Streams:*	
None within 500m	
None Wallin 33311	

<sup>\*</sup>Note and record water level

#### 3.0 ON-SITE ASSESSMENT

# 3.1 Visual Assessment (contd.)

Orainage Ditches:*		
No ditches bordering site		
prings:*		
None		
A/- II+		
Wells:*		
area on mains		

(Integrate the information above in order to comment on: the potential suitability of the site, potential targets at risk, the suitability of the site to treat the wastewater and the location of the proposed system within the site).

Site is in good dry land with no vegetation to suggest reduced drainage. There is an existing septic tank serving an existing dwelling on th site. Visually the system is operating effectively with no evidence of hydraulic failure suggesting there will be good soakage. This site should be suitable for an on-site wastewater treatment system

<sup>\*</sup>Note and record water level

#### 3.2 Trial Hole (should be a minimum of 2.1m deep (3m for regionally important aquifers))

To avoid any accidental damage, a trial hole assessment or percolation tests should not be undertaken in areas which are at or adjacent to significant sites, (e.g. NHAs, SACs, SPAs, and/or Archaeological etc.), without prior advice from National Parks and Wildlife Service or the Heritage Service.

Depth of trial I	hole (m): 2.2					
Depth from gr to bedrock (m			pth from grou water table (m		1.9	
Depth of wate	r ingress:	Rock typ	e (if present):			
Date and time	of excavation: 2	7-Apr-2022	Date a	nd time of examina	tion: 29-Apr-2	2022
Surface and						
Subsurface	Soil/Subsoil					
Percolation	Texture &	Plasticity and	Soil	Density/	Colour****	Preferential
Tests	Classification**	dilatancy***	Structure	Compactness		flowpaths
0.1 m 0.2 m	Loam	Dilatant	Crumb	Firm	Dark Brown	Rootlets
0.3 m 0.4 m	Gravely CLAY with few small cobbles	Slowly dilatant trds = 11,10,10	Blocky	Firm	Dark Brown	
0.5 m		Ribs= 110,100,110				None
0.6 m 0.7 m	1.00			21.7		THORE .
0.8 m						
0.9 m						
1.0 m	Gravely SILT/CLAY	dilatant	Blocky	Firm	dark	
1.1 m 1.2 m	with few cobbles and	Trds = 4,5,5	Diodky		Grey/Brown	
1.3 m	small boulders	Ribs= 70,60,70				1 1 2
1.4 m	Mottling at 1.1m bgl					10 /m 5
1.5 m						
1.6 m						
1.8 m						
1.9 m						
2.0 m						
2.1 m 2.2 m						
2.3 m	Base of Pit					
2.4 m						
2.5 m						
2.6 m 2.7 m						
2.8 m						
2.9 m		- 1				
3.0 m	<b>L</b> _ <b>L</b>   <b>L</b>					
3.1 m						
3.2 m 3.3 m						
3.4 m			2			
3.5 m						
111 1 0 1						
Likely Subsurf	face Percolation V		_			
Likely Surface	Percolation Value	e: 20				

Note: \*Depth of percolation test holes should be indicated on log above. (\*Enter Surface or Subsurface at depths as appropriate).

 $<sup>^{\</sup>star\star}$  See Appendix E for BS 5930 classification.

<sup>\*\*\* 3</sup> samples to be tested for each horizon and results should be entered above for each horizon.

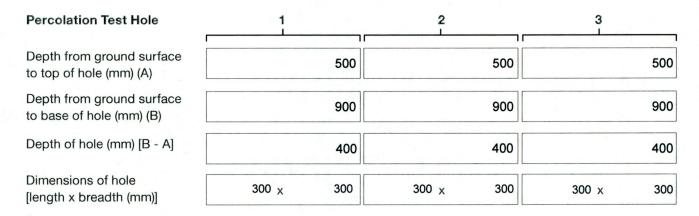
<sup>\*\*\*\*</sup> All signs of mottling should be recorded.

#### 3.2 Trial Hole (contd.) Evaluation:

Soil is free draining. There was water in the trial pit at 1.9m but there was evidence of mottling at 1.1m which means a standard septic tank and percolation area is insufficient.

#### 3.3(a) Subsurface Percolation Test for Subsoil

#### Step 1: Test Hole Preparation



#### Step 2: Pre-Soaking Test Holes

Pre-soak start	Date Time	29-Apr-2022	29-Apr-2022	29-Apr-2022
2nd pre-soak start	Date Time	29-Apr-2022	29-Apr-2022	29-Apr-2022

Each hole should be pre-soaked twice before the test is carried out.

Step 3: Measuring T<sub>100</sub>

Percolation Test Hole No.	1	2	3
Date of test	30-04-2022	30-04-2022	30-04-2022
Time filled to 400 mm	08:19	08:20	08:21
Time water level at 300 mm	09:17	09:22	09:22
Time (min.) to drop 100 mm (T <sub>100</sub> )	58.00	62.00	61.00
Average T <sub>100</sub>			60.33

If  $T_{100} > 480$  minutes then Subsurface Percolation value >120 – site unsuitable for discharge to ground

If  $T_{100} \le 210$  minutes then go to Step 4;

If  $T_{100} > 210$  minutes then go to Step 5;

Step 4: Sta	andard I	Metho	d (where	$\Gamma_{100} \le 2$	10 mi	nutes)							
Percolation Test Hole	ו		1				2				3		
Fill no.	Star Time (at 30 mm)	0	Finish Time (at 200 mm)	Δt (m	nin)	Start Time (at 300 mm)	Finish Time (at 200 mm)	Δt (min)	Star Tim (at 30 mm)	e 00	Finish Time (at 200 mm)	Δt	(min)
1		09:17	10:28	7	71.00	09:22	10:35	73.00		09:22	10:2	.9	67.00
2		10:28	11:58	9	00.00	10:35	12:11	96.00		10:29	11:5	57	88.00
3		11:58	13:43	10	5.00	12:11	14:11	120.00		11:57	13:4	1	104.00
Average ∆t Value				8	8.67			96.33					86.33
Result of To	[Hole				7 (t <sub>1</sub> )	Average Δ' [Hole No.2	]	24.08 (t <sub>2</sub> )	[Hole	age ∆t/ e No.3]		21	.58 (t <sub>3</sub> )
Soakage is g	ood and w	ell withi	n the require	ed range									
Step 5: Mo	dified N	/lethod	I (where T	100 > 2	10 mii	nutes)							
Percolation Test Hole No.		1					Percolation Test Hole No		2				
Fall of water in hole (mm)	Time Factor = T <sub>r</sub>	Start Time hh:mm	Time c	ime of fall mins) : T <sub>m</sub>	K <sub>fs</sub> = T <sub>f</sub> / T <sub>m</sub>	T – Value = 4.45 / K <sub>fs</sub>	Fall of wat	n) Factor	Start Time hh:mm	Finish Time hh:mm	Time of fall (mins) = T <sub>m</sub>	K <sub>fs</sub> = T <sub>f</sub> / T <sub>m</sub>	T – Value = 4.45 / K <sub>ts</sub>
300 - 250	8.1			0.00			300 - 250	8.1			0.00		
250 - 200	9.7			0.00			250 - 200	9.7			0.00		
200 150	11.0			0.00			200 150	11.0			0.00		

300 - 250 250 - 200 200 - 150	9.7 11.9			0.00 0.00 0.00		
150 - 100 Average	T- Value	e	T- Value	e Hole 1	= (T <sub>1</sub> )	0.00
Percolation Test Hole No.		3				
Fall of water in hole (mm)	Time Factor = T,	Start Time hh:mm	Finish Tim§e hh:mm	Time of fall (mins) = T <sub>m</sub>	K <sub>ts</sub> = T <sub>f</sub> / T <sub>m</sub>	T – Value = 4.45 / K <sub>fs</sub>

0.00

0.00

0.00

0.00

T- Value Hole  $3 = (T_2)$ 

0.00

8.1

9.7

11.9

14.1

T- Value

300 - 250

250 - 200

200 - 150

150 - 100

Average

200 - 150 150 - 100	11.9		0.00	
Average	T- Value	T- Va	lue Hole $2 = (T_2)$	0.00
Result of To	est: Subsurf	ace Perc	olation Value =	
		0.00	(min/25 mm)	
Comments	:			

#### 3.3(b) Surface Percolation Test for Soil

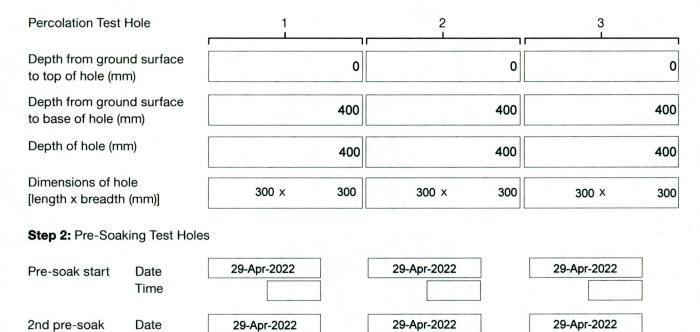
Date

Time

#### Step 1: Test Hole Preparation

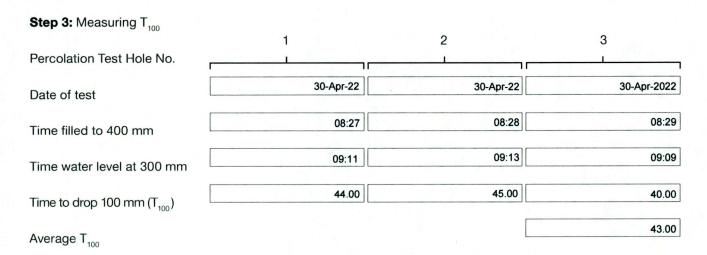
2nd pre-soak

start



29-Apr-2022

Each hole should be pre-soaked twice before the test is carried out.



If T<sub>100</sub> > 480 minutes then Surface Percolation value >90 – site unsuitable for discharge to ground

If  $T_{100} \le 210$  minutes then go to Step 4;

If  $T_{100} > 210$  minutes then go to Step 5;

**Step 4:** Standard Method (where  $T_{100} \le 210$  minutes)

Percolation	1						0				•		
Test Hole			1		Name of		2				3		
Fill no.	Star Time (at 30 mm)	e 00	Finish Time (at 200 mm)	ΔΤ (ι	min)	Start Time (at 300 mm)	Finish Time (at 200 mm)	ΔT (min)	Star Time (at 30 mm)	e 00	Finish Time (at 200 mm)	Δ	T (min)
1		09:11	10:13	3	62.00	09:13	10:16	63.00		09:09	10:0	)2	53.00
2		10:13	11:24	1	71.00	10:16	11:21	65.00		10:02	11:0	)7	65.00
3		11:24	12:49		85.00	11:21	12:48	87.00		11:07	12:1	16	69.00
Average ∆T Value					72.67			71.67					62.33
Result of Te	[Hole					Average ∆T [Hole No.2]		17.92 (T <sub>2</sub>	) [Hole	age ∆T/ • No.3]		15	5.58 (T <sub>3</sub>
		iace re	ercolation	i value	= L		17.22	(11111/25 11	1111)				
Comments:	:												
Sten 5: Mo	dified N	/lethod	(where T	- > 2	10 mir	uites)							
Percolation	dified N	/lethod	(where T	100 > 2	10 mir	nutes)	Percolation Test Hole No		2				
Percolation Test Hole No.	Time Factor = T,		Finish Time (	Time of fall (mins) = T <sub>m</sub>	K <sub>ts</sub> = T <sub>r</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>fs</sub>		r Time	Start Time hh:mm	Finish Time hh:mm	Time of fall (mins) = T <sub>m</sub>	K <sub>fs</sub> = T <sub>1</sub> / T <sub>m</sub>	
Percolation Test Hole No. Fall of water in hole (mm)	Time Factor	1 Start Time	Finish Time (	Time of fall (mins) = T <sub>m</sub>	K <sub>1s</sub> = T,	T – Value = 4.45	Test Hole No Fall of water	r Time	Start Time	Time	of fall (mins) = T <sub>m</sub>	= T,	Value = 4.45
Percolation Test Hole No. Fall of water in hole (mm) 300 - 250 250 - 200	Time Factor = T, 8.1 9.7	1 Start Time	Finish Time (	Time of fall (mins) = T <sub>m</sub> 0.00  0.00	K <sub>1s</sub> = T,	T – Value = 4.45	Fall of wate in hole (mm 300 - 250 250 - 200	Time Factor = T, 8.1 9.7	Start Time	Time	of fall (mins) = T <sub>m</sub> 0.00  0.00	= T,	Value = 4.45
Percolation Test Hole No. Fall of water in hole (mm) 300 - 250 250 - 200 200 - 150	Time Factor = T, 8.1 9.7 11.9	1 Start Time	Finish Time (	Time of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00	K <sub>is</sub> = T, / T <sub>m</sub>	T – Value = 4.45	Fall of wate in hole (mm  300 - 250 250 - 200 200 - 150	Time Factor = T,  8.1  9.7  11.9	Start Time	Time	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00	= T,	Value = 4.45
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average	Time Factor = T, 8.1 9.7	Start Time hh:mm	Finish Time (	Time of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00	K <sub>ts</sub> = T <sub>t</sub> / T <sub>m</sub>	T – Value = 4.45	Fall of wate in hole (mm 300 - 250 250 - 200	Time Factor = T, 8.1 9.7	Start Time hh:mm	Time hh:mm	of fall (mins) = T <sub>m</sub> 0.00  0.00	= T <sub>t</sub> / T <sub>m</sub>	Value = 4.45
Percolation Test Hole No. Fall of water in hole (mm) 300 - 250 250 - 200 200 - 150 150 - 100	Time Factor = T, 8.1 9.7 11.9 14.1	Start Time hh:mm	Finish Time (hh:mm :	Time of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00	K <sub>ts</sub> = T <sub>t</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>1s</sub>	Test Hole No Fall of wate in hole (mm 300 - 250 250 - 200 200 - 150 150 - 100 Average	8.1 9.7 11.9 14.1	Start Time hh:mm	Time hh:mm	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  0.00	= T, / T <sub>m</sub>	Value = 4.45 / K <sub>ts</sub>
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average	Time Factor = T, 8.1 9.7 11.9 14.1	Start Time hh:mm	Finish Time (hh:mm :	Time of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00	K <sub>ts</sub> = T <sub>t</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>1s</sub>	Test Hole No Fall of wate in hole (mm 300 - 250 250 - 200 200 - 150 150 - 100 Average	8.1 9.7 11.9 14.1 T- Value	Start Time hh:mm	Time hh:mm  T- Value	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  0.00	= T, / Tm	Value = 4.4 / K <sub>fs</sub>
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average  Percolation Test Hole No.  Fall of water	Time Factor = T, 8.1 9.7 11.9 14.1	Start Time hh:mm	Finish Time  T- Value  Finish Time  hh:mm  Time hh:mm	Time of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00	K <sub>ts</sub> = T <sub>t</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>1s</sub>	Test Hole No Fall of wate in hole (mm 300 - 250 250 - 200 200 - 150 150 - 100 Average	8.1 9.7 11.9 14.1 T- Valu	Start Time hh:mm	Time hh:mm  T- Valu	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  ue Hole 2	= T, / Tm	Value = 4.45 / K <sub>ts</sub>
Percolation Test Hole No. Fall of water in hole (mm) 300 - 250 250 - 200 200 - 150 150 - 100	Time Factor = T,	Start Time hh:mm	Finish Time  T- Value  Finish Time  hh:mm  Time hh:mm	Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 0.00 Time of fall (mins)	K <sub>1s</sub> = T <sub>r</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>fs</sub>	Test Hole No Fall of water in hole (mm  300 - 250 250 - 200 200 - 150 150 - 100  Average  Result of	8.1 9.7 11.9 14.1 T- Valu	Start Time hh:mm	Time hh:mm  T- Valu	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  ue Hole 2	= T, / Tm	Value = 4.45 / K <sub>ts</sub>
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average  Percolation Test Hole No.  Fall of water in hole (mm)	Time Factor = T,	Start Time hh:mm	Finish Time  T- Value  Finish Time  hh:mm  Time hh:mm	Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 Hole 1	K <sub>1s</sub> = T <sub>r</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>fs</sub>	Test Hole No Fall of water in hole (mm  300 - 250 250 - 200 200 - 150 150 - 100  Average  Result of	8.1 9.7 11.9 14.1 T- Valu	Start Time hh:mm	Time hh:mm  T- Valu	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  ue Hole 2	= T, / Tm	Value = 4.45 / K <sub>ts</sub>
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average  Percolation Test Hole No.  Fall of water in hole (mm)	Time Factor = T,  8.1  9.7  11.9  14.1  T- Value  Time Factor = T,  8.1	Start Time hh:mm	Finish Time  T- Value  Finish Time  hh:mm  Time hh:mm	Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	K <sub>1s</sub> = T <sub>r</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>fs</sub>	Test Hole No Fall of water in hole (mm  300 - 250 250 - 200 200 - 150 150 - 100  Average  Result of	8.1 9.7 11.9 14.1 T- Valu	Start Time hh:mm	Time hh:mm  T- Valu	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  ue Hole 2	= T, / Tm	Value = 4.45 / K <sub>ts</sub>
Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200 200 - 150 150 - 100  Average  Percolation Test Hole No.  Fall of water in hole (mm)  300 - 250 250 - 200	Time Factor = T,  8.1  9.7  11.9  14.1  T- Value  Time Factor = T,  8.1  9.7	Start Time hh:mm	Finish Time  T- Value  Finish Time  hh:mm  Time hh:mm	Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 Time of fall (mins) = T <sub>m</sub> 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	K <sub>1s</sub> = T <sub>r</sub> / T <sub>m</sub>	T - Value = 4.45 / K <sub>fs</sub>	Test Hole No Fall of water in hole (mm  300 - 250 250 - 200 200 - 150 150 - 100  Average  Result of	8.1 9.7 11.9 14.1 T- Valu	Start Time hh:mm	Time hh:mm  T- Valu	of fall (mins) = T <sub>m</sub> 0.00  0.00  0.00  0.00  0.00  ue Hole 2	= T, / Tm	Value = 4.4 / K <sub>fs</sub>

#### 4.0 CONCLUSION of SITE CHARACTERISATION

Integrate the information from the desk study and on-site assessment (i.e. visual assessment, trial hole and percolation tests) above and conclude the type of system(s) that is (are) appropriate. This information is also used to choose the optimum final disposal route of the treated wastewater. Slope of proposed infiltration / treatment area: Flat Are all minimum separation distances met? Depth of unsaturated soil and/or subsoil beneath invert of gravel (or drip tubing in the case of drip dispersal system) Sub-surface: Percolation test result: Surface: 23.00 17.00 Suitable for Development Not Suitable for Development Discharge Route<sup>1</sup> Identify all suitable options Septic tank system (septic tank and No Groundwater percolation area) (Chapter 7) Secondary Treatment System 2. Yes (Chapters 8 and 9) and soil polishing filter (Section 10.1) Tertiary Treatment System and Infiltration / 3. Yes treatment area (Section 10.2) **5.0 SELECTED DWWTS** Propose to install: Tertiary Treatment System and Infiltration /treatment area and discharge to: **Ground Water** Invert level of the trench/bed gravel or drip tubing (m) Site Specific Conditions (e.g. special works, site improvement works testing etc. A secondary treatment system is recommended followed by a sand polishing filter due to site limitations. As the top 1m is suitable for treatment the point of infiltration of the treated effluent should be at existing ground level. Vegetation is removed and then area leveled. The 300mm deep, bed of distribution gravel (20mm pebble) is placed on the prepared area. The Sand filter is constructed on this gravel The PE is 4 - Hydraulic load is 600litres. Sand filter to be loaded at 60 litres/m2 - thus requiring 10m2 filter T-value is between 20 and 40 so load filter allowing 7.5 m2/PE Area of filter is 30m2

<sup>&</sup>lt;sup>1</sup> A discharge of sewage effluent to "waters" (definition includes any or any part of any river, stream, lake, canal, reservoir, aquifer, pond, watercourse or other inland waters, whether natural or artificial) will require a licence under the Water Pollution Acts 1977-90. Refer to Section 2.4.

### **6.0 TREATMENT SYSTEM DETAILS**

Tank Capacity (m³)		Percolation Area		Mounded Percolation Area
		No. of Trenches		No. of Trenches
		Length of Trenches (m)		Length of Trenches (m)
		Invert Level (m)		Invert Level (m)
SYSTEM TYPE: Seco	ndary Treati	ment System (Chapter	s 8 and 9) and p	olishing filter (Section 10.1)
Secondary Treatmen (Chapter 8)	t Systems re	eceiving septic tank ef	ffluent	Packaged Secondary Treatment Systems receiving raw wastewater (Chapter 9)
Media Type	Area (m²)*	Depth of Filter	Invert Level	Туре
Sand/Soil				Oakstown BAF
Soil				Capacity PE 6
Constructed Wetland				Sizing of Primary Compartmen
Other				3.00 m <sup>3</sup>
Polishing Filter*: (See Surface Area (m²)* Option 1 - Direct Disc Surface area (m²) Option 2 - Pumped Di Surface area (m²)	harge		Option 3 - Gr Trench length Option 4 - Lo Pipe Distribu Trench length Option 5 - Dr Surface area	ow Pressure tion n (m)
SYSTEM TYPE: Tertia	ary Treatmer	nt System and infiltrat		
Identify purpose of ter treatment	tiary	Provide performand demonstrating system required treatment	em will provide	Provide design information
Reduce footprint		EPA Code of Practice	е	4PE Treat in BAF Polish in sand filter Discharge via 30m2 gravel base 900mm free draining soil under gravel
DISCHARGE ROUTE:				
Groundwater <	Hydraulic	Loading Rate * (I/m².d)	20.00	Surface area (m²) 30.00

<sup>\*</sup> Hydraulic loading rate is determined by the percolation rate of subsoil

<sup>\*\*</sup> Water Pollution Act discharge licence required

# **QUALITY ASSURANCE:** Installation & Commissioning Install as specified & supervised by appropriately qualified person On-going Maintenance Regular desludging & Maintenance contract with supplier or installer 7.0 SITE ASSESSOR DETAILS Company: Trinity Green First Name: Eugene Surname: Bolton Prefix: Address: Clonfert, Maynooth, Co. Kildare Qualifications/Experience: FETAC Site assessor, PhD Microbiology Date of Report: 10-May-2002 Phone: 0862434828 E-mail info@trinitygreen.ie PI/C/12453/21/1 Indemnity Insurance Number: Eugene Bolton Digitally signed by Eugene Bolton Date: 2022.01.04 15:17:00 Z

**6.0 TREATMENT SYSTEM DETAILS** 

Signature: