



SURFACE LEVEL DATA			
NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	-2.75	-2.50	Dark Red
2	-2.50	-2.25	Red
3	-2.25	-2.00	Red-Orange
4	-2.00	-1.75	Orange
5	-1.75	-1.50	Light Orange
6	-1.50	-1.25	Yellow-Orange
7	-1.25	-1.00	Yellow
8	-1.00	-0.75	Light Yellow
9	-0.75	-0.50	Yellow-Green
10	-0.50	-0.25	Yellow
11	-0.25	0.00	Light Green
12	0.00	0.25	Light Green
13	0.25	0.50	Light Green
14	0.50	0.75	Light Green
15	0.75	1.00	Light Green
16	1.00	1.25	Light Green
17	1.25	1.50	Light Green
18	1.50	1.75	Light Green
19	1.75	2.00	Light Green
20	2.00	2.25	Light Green

NOTES:

- The volumes provided are an approximation only and are based on the current planning design levels. The volumes given below should be used with caution.
- The cut and fill has been produced with the topographical survey 17711_OGL_REV 3 3D.

SUBSOIL VOLUMES

The 3D Surface to Surface values provided are based on a 3D generated ground model of formation levels compared to the topographical survey less a 300mm topsoil strip. The formation depths have been taken as follows:

- Plots at 450mm below FFL
- Garages 300mm below FFL
- Highways at 850mm below finished level (based on 2.5% CBR)
- 300mm below finished level elsewhere, to account for footways, driveway construction, 300mm topsoil placement in gardens, and private paths/patios.

Surface to Surface Subsoil Volumes			
Zone	Cut (m³)	Fill (m³)	Net (m³)
Parcels 1 and 3	7202	20425	13223
		Total	13223

*Cut volumes include a 10% bulking factor.

Additional development volumes are provided as follows:

- Plot arisings at 45m² per plot which includes 30m² substructure and 15m² for plot drainage and services.
- Sewer arisings calculated using the microdrainage model, based on depth of sewers below formation level. Assumes trenches will be backfilled with as dug material. Includes manholes and pipes which serve this parcel only (no shared infrastructure drainage)

Development arisings	
	Volume (m³)
Plot arisings	10800
Sewer arisings	1029
Total	11829
Inc 10% Bulking Factor	13012

Based on the volumes above the overall surface to surface volumes can be adjusted as follows:

Adjusted volumes	
	Volume (m³)
3D Surface to Surface	13223
Development arisings	13012
Total	211

Therefore, there is an anticipated **subsoil shortfall of 211m³**

TOPSOIL CALCULATION

A 300mm topsoil strip has been applied across the site. The volume of topsoil to be removed from the site has been calculated as the impermeable area x 0.3 (see table below)

Topsoil Volumes		
Zone	Area for Topsoil Removal (m²)	Volume of topsoil removed (m³)
Parcels 1 and 3	35642	10693

REVISIONS

Rev	Date	Description	By	Ckd	App
P01	06.01.22	First Issue.		EP	OD OD

OVER COURT BARNES
OVER LANE
ALMONDSBURY
BRISTOL
BS32 4DF
T: +44 (0) 1454 619533
e: bristol@hydrock.com

CLIENT
**PERSIMMON HOMES
SOUTH MIDLANDS**

PROJECT
**WYKHAM PARK FARM
PARCELS 1 AND 3**

TITLE
**CUT AND FILL
MODEL**

HYDROCK PROJECT NO. C-22647-C	SCALE @ A1 1 : 1000	STATUS S2
STATUS DESCRIPTION INFORMATION		REVISION P01
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 22647-HYD-XX-XX-DR-C-2100		