

1st April 2022

Our ref: GE20565/WP01/220401



Paul Thomas
Bargate Homes
The New Barn
Vicarage Farm Business Park
Winchester Road
Fair Oak
Hampshire
SO50 7HD

Email only

Dear Paul,

RE: Phase 2 Manor Farm, Lower Road, Bedhampton – Winter Groundwater Monitoring

Further to our ground investigation works undertaken on the site and subsequent Letter Report (ref: GE20565/FG01/220111), Geo-Environmental was instructed to undertake winter groundwater monitoring between December 2021 and April 2022. The purpose of the additional groundwater monitoring was to ascertain the depth to groundwater within monitoring wells over the monitoring period to inform the emerging drainage strategy for the proposed development.

The encountered ground conditions and infiltration values were reported within letter report (ref: GE20565/FG01/220111). This letter reports the depths of groundwater encountered throughout the winter groundwater monitoring undertaken at the site.

Site Description

At the time of the investigation works and site walkover in December 2021 the site comprised part of a larger arable field. The field was relatively flat with a very gentle southwards slope. Bounding the site to the south was a hedgerow with a railway line beyond. The western site boundary was formed of a hedgerow and trees with the A3 and A27 at higher level beyond. An industrial unit was located to the north of the site with residential properties located along Lower Road. The remainder of the arable field lay to the east of the site and was fenced off for the Phase 1 development area.

Groundwater

No groundwater ingress was recorded during the intrusive investigation works in December 2021. However, during a second phase of intrusive investigation in January 2021 groundwater was encountered within BH01 at 6.50m bgl during drilling and rose to 6m bgl after drilling had been suspended for 20 minutes.

Groundwater measurements were taken within the three installed monitoring wells (WS1, WS2 and BH01) at fortnightly intervals from December 2021 to March 2022 with groundwater depths presented in Table 1. Groundwater appeared to reach a seasonal shallow depth around early March 2021, with groundwater at depths as shallow as 1.71m bgl recorded in WS1.

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Environmental Consultants | Geotechnical Engineers | Site Investigations

Geo-Environmental Services Ltd incorporated in England number 3214980 VAT number 679544479



Location	Date	Depth to groundwater (m bgl)
WS1	22/12/21	2.65
	07/01/22	1.99
	20/01/22	2.37
	02/02/22	2.46
	24/02/22	2.28
	03/03/22	1.71
	18/03/22	2.15
	01/04/22	2.54
WS2	22/12/21	2.80
	07/01/22	2.26
	20/01/22	2.46
	02/02/22	2.63
	24/02/22	2.20
	03/03/22	2.15
	18/03/22	2.22
	01/04/22	2.73
BH01	20/01/22	1.95
	02/02/22	2.10
	24/02/22	1.95
	03/03/22	1.91
	18/03/22	2.25
	01/04/22	2.37

Table 1 Groundwater depths recorded within monitoring wells between December 2021 and April 2022

Closure

We trust we have interpreted your instructions correctly and provided sufficient information for your current requirements. If you have any questions or queries in relation the information provided at this stage, please do not hesitate to contact us.

Yours sincerely

For and on Behalf of Geo-Environmental Services Ltd



WILL PURSLOW BSc (Hons), MSc, FGS

Graduate Consultant Engineer

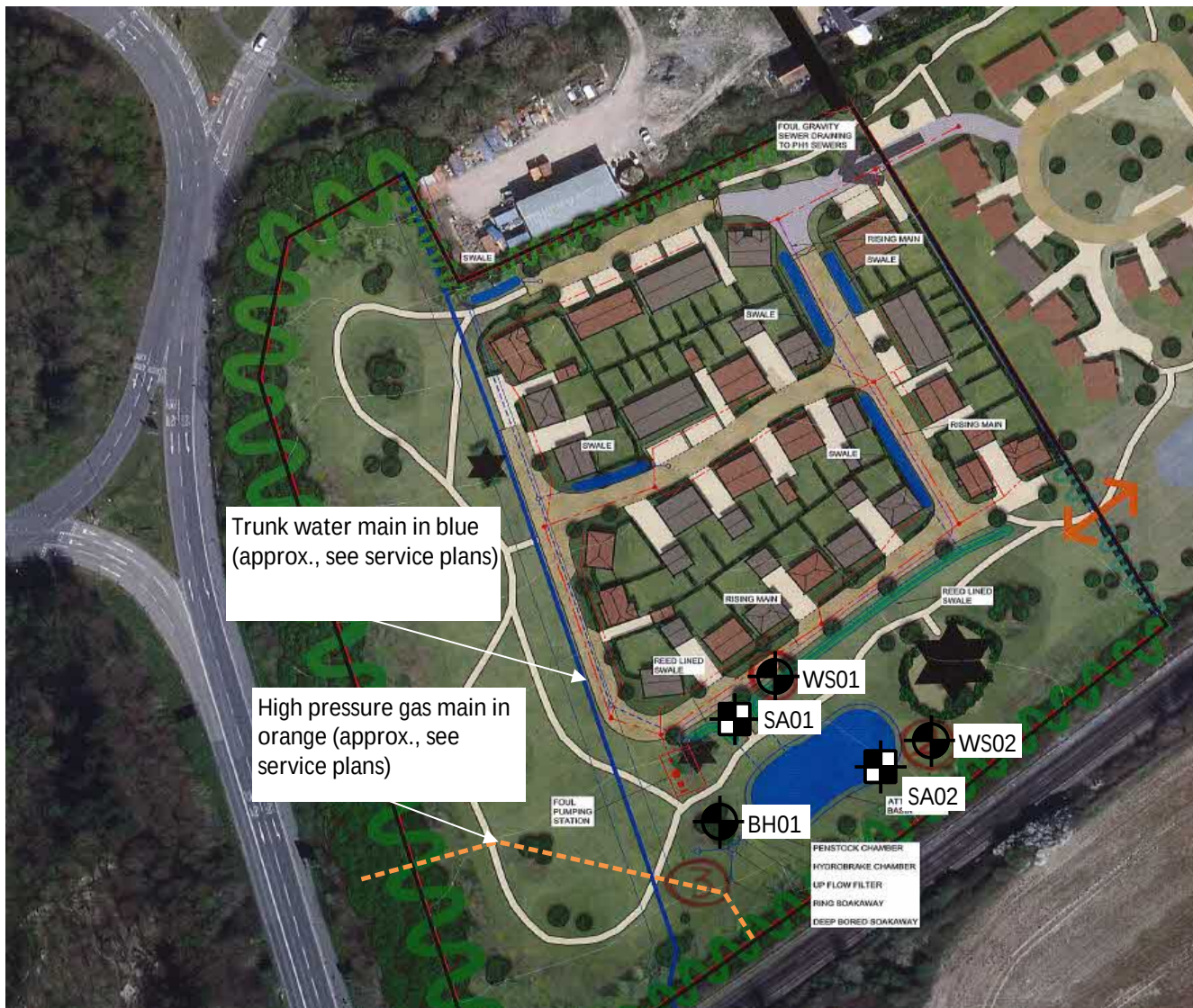
will.purslow@gesl.net

Enc Figure 1 Site Location Plan
 Figure 2 Exploratory Hole Location Plan (Monitoring Wells)





Project:	Phase 2 Development, Manor Farm, Lower Road, Bedhampton, Hampshire, PO9 3LH			Title	Site Location Plan	
Client:	Bargate Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE20565	Revision:	0			
Drawn:	SA	Date:	08/12/2021			
Figure:	1	Scale:	Not To Scale			



Trunk water main in blue
(approx., see service plans)

High pressure gas main in
orange (approx., see
service plans)

BH01 469873 , 105919
WS01 469888 , 105961
WS02 469929 , 105951
SA01 469881 , 105959
SA02 469919 , 105948

Project:	Phase 2 Development, Manor Farm, Lower Road, Bedhampton, Hampshire, PO9 3LH			Title	Exploratory Hole Location Plan	
Client:	Bargate Homes			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net	 Geo-Environmental	
Ref No:	GE20565	Revision:	0			
Drawn:	SA	Date:	08/12/2021			
Figure:	2	Scale:	NTS			