

013/4594/REG

30<sup>th</sup> January 2026



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Mr J Moran  
Newett Homes  
Thorp Arch Grange  
Walfon Road  
Thorp Arch  
Wetherby  
West Yorkshire  
LS23 7BA

Dear Jamie

### Shepley Road, Stockmoor – Groundwater well installation

Further to recent completion of well installation at the above site please find enclosed borehole logs and a hole location plan.

The groundwater level in each well was recorded at the end of the day after the works had been completed, and results are appended to this letter. Further monitoring will be undertaken on at least 7 occasions; monthly for 3 months, and then bi-monthly for a further 8 months.

A surveyor has visited site to record co-ordinates and ground levels at each well location.

Should you require any further information, please contact the undersigned.

Yours sincerely

Mark Perrin  
Director  
**for and on behalf of**  
**LITHOS CONSULTING LIMITED**

*enc*

Preliminary Summary of Geoenvironmental Issues  
Summary of Ground Conditions  
Preliminary Groundwater Levels  
Drawing 4594/1 – Site Location Plan  
Drawing 4594/6 – Exploratory Hole Location Plan  
Exploratory Hole Records



## Proposed development

A proposed layout has been prepared by Pegasus Group, which shows 50 no. 2 storey domestic dwellings, with associated gardens and adoptable roads\sewers.

## Preliminary investigation

Issue	Remarks
The site	7.2 km south of Huddersfield city centre 2.5 ha (6.1 acres) Mature trees (generally 5-10m tall) are situated around the site's boundary, more frequently along the northern boundary.
Former uses	The site has no former uses
Environmental setting	Drift soils – None recorded. Solid (bedrock) – Grenoside Sandstone (sandstone & siltstone). Mining – This site is located within a Coal Mining Development Low Risk Area; no mining related issues have been identified. Nearest watercourse – Stone Wood Dike (50m southeast, flowing north). Source Protection Zone – No. Aquifer – Secondary A (Solid). Quarries – Sun Side Quarry shown immediately south and an old quarry is labelled 250m west on the 1854 OS plan. Landfills – No known landfills within 250m. Radon – The site lies within an area where < 1% homes are estimated to be above the radon action level.

## Ground investigation

Fieldwork was supervised by Lithos on the 29<sup>th</sup> January 2026 and comprised the exploratory holes listed below.

Technique	Exploratory holes	Final depth(s)	Remarks
Rotary openhole probeholes	PHs 01 – 07	8.6 – 17.0m	Wells installed in bedrock to monitor groundwater levels across the site

## Summary of Ground Conditions

Hole ID	Final Depth (mbgl)	Depth to Base (mbgl)			
		Overburden	Grenoside Sandstone	Coal Measures (Mudstone)	Greenmoor Rock (Sandstone)
PH01	8.9	0.8	4.5	> 8.9	-
PH02	8.6	0.7	4.5	> 8.6	-
PH03	17.0	0.6	-	14.9	> 17.0
PH04	9.6	0.7	-	> 9.9	-
PH05	9.5	0.6	9.2	> 9.5	-
PH06	9.0	0.5	7.5	> 9.0	-
PH07	9.0	0.8	8.8	> 9.0	-

**Groundwater Levels recorded 29<sup>th</sup> January**

<b>Well</b>	<b>Response Zone</b>	<b>Groundwater Level (mbgl)</b>	<b>Approx. Groundwater Level (mAOD)</b>
PH01	Sandstone (2.9m – 4.5m) Mudstone (4.5m – 8.9m)	3.92	183.41
PH02	Sandstone (2.6m – 4.5m) Mudstone (4.5m – 8.6m)	7.81	176.95
PH03	Mudstone (11.0m – 14.9m) Sandstone (14.9m – 17.0m)	16.47	164.75
PH04	Mudstone (3.9m – 9.9m)	Dry	Dry
PH05	Sandstone (3.5m – 9.2m) Mudstone (9.2m – 9.5m)	Dry	Dry
PH06	Sandstone (3.0m – 7.5m) Mudstone (7.5m – 9.0m)	5.99	177.67
PH07	Sandstone (3.0m – 8.8m) Mudstone (8.8m – 9.0m)	7.31	180.19



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CLIENT

NEWETT HOMES

JOB TITLE

SHEPLEY ROAD,  
STOCKSMOOR

DRAWING TITLE

SITE LOCATION  
PLAN

DRAWN

CR

DATE

17/11/22

CHECKED

REG

DATE

22/11/22

STATUS

FOR COMMENT

DRAFT

FOR APPROVAL

FINAL

SCALE

1:25,000

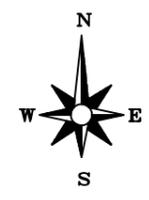
SHEET

A4

DRAWING NO.

4594/1

REVISION



- NOTES
- PROPOSED PROBEHOLE LOCATION
  - GRASS
  - OVERGROWN GRASS
  - BRAMBLES & OVERGROWN WEEDS
  - STREAM/DRAINAGE CHANNEL
  - STREAM CULVERT/DRAINAGE OUTFLOW
  - SLOPE
  - APPROXIMATE SITE BOUNDARY

EXPLORATORY HOLE LOCATIONS HAVE BEEN SURVEYED IN (COORDINATES & GROUND LEVEL) ON COMPLETION

REV.	DESCRIPTION	DATE



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CLIENT  
**NEWETT HOMES**

JOB TITLE  
**SHEPLEY ROAD,  
STOCKSMOOR**

DRAWING TITLE  
**EXPLORATORY HOLE LOCATIONS**

DRAWN	CR	DATE	30/01/2026	STATUS	FOR COMMENT <input type="checkbox"/>
CHECKED	REG	DATE	30/01/2026	FOR APPROVAL	<input type="checkbox"/>
				DRAFT	<input checked="" type="checkbox"/>
				FINAL	<input type="checkbox"/>

SCALE	1:1000	SHEET	A3	DRAWING NO.	4594/6	REVISION	
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# Borehole Log

Borehole No.  
**PH01**  
Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418426E - 410715N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 187.35 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					187.35		Overburden		
				0.80	186.55		Light brown SANDSTONE. (GRENSIDE SANDSTONE)	1	
							<i>At 3.2m, lens of brown silty SAND.</i>	2	
				4.50	182.85		Dark grey and grey MUDSTONE. (COAL MEASURES)	3	
								4	
								5	
								6	
								7	
								8	
				8.90			End of Borehole at 8.90m	9	
								10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH02**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418476E - 410745N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 184.75 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					184.75		Overburden		
				0.70	184.05		Light brown SANDSTONE. (GRENOSIDE SANDSTONE)	1	
							<i>At 3.1m, lens of brown silty SAND.</i>	2 3	
				4.50	180.25		Dark grey and grey MUDSTONE. (COAL MEASURES)	4 5 6 7 8	
				8.60			End of Borehole at 8.60m	9 10 11 12 13 14 15 16 17 18 19 20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH03**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418488E - 410713N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 181.20 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					181.20		Overburden		
				0.60	180.60		Dark grey MUDSTONE. (COAL MEASURES)	1	
								2	
								3	
								4	
							<i>At 4.2m, becoming greyish brown.</i>	5	
							<i>At 5.0m, becoming grey.</i>	6	
								7	
								8	
								9	
								10	
								11	
								12	
				12.80	168.40		Light greyish brown MUDSTONE (COAL MEASURES)	13	
								14	
				14.90	166.30		Light brown and light greyish brown SANDSTONE. (GREENMOOR ROCK)	15	
								16	
								17	
				17.00			End of Borehole at 17.00m	17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH04**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418557E - 410772N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 177.35 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					177.35		Overburden		
				0.70	176.65		Dark greyish brown MUDSTONE. (COAL MEASURES)	1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
				9.90			End of Borehole at 9.60m	10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH05**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418471E - 410797N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 185.95 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					185.95		Overburden		
				0.60	185.35		Light yellowish brown SANDSTONE. (GRENOSIDE SANDSTONE)	1	
								2	
								3	
								4	
							At 4.8m, lens of brown silty SAND.	5	
								6	
								7	
								8	
				9.20	176.75		Dark grey and grey MUDSTONE. (COAL MEASURES)	9	
				9.50			End of Borehole at 9.50m	10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH06**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418419E - 410841N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 183.65 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					183.65		Overburden		
				0.50	183.15		Light yellowish brown SANDSTONE. (GRENOSIDE SANDSTONE)	1	
								2	
								3	
								4	
							<i>At 4.3m, lens of brown silty SAND.</i>	5	
								6	
								7	
				7.50	176.15		Dark grey and grey MUDSTONE. (COAL MEASURES)	8	
								9	
				9.00			End of Borehole at 9.00m	10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.





# Borehole Log

Borehole No.

**PH07**

Sheet 1 of 1

Project Name: Shepley Road, Stocksmoor	Project No. 4594	Co-ords: 418393E - 410781N	Hole Type RO
Equipment & Method: Beretta tracked drilling rig equipped with 100mm tri-cone bit and air flush.		Level: 187.50 m AOD	Scale 1:100
Client: Newett Homes		Dates: 29/01/2026	Logged By DW

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					187.50		Overburden		
				0.80	186.70		Yellowish brown SANDSTONE. (GRENSIDE SANDSTONE)	1	
								2	
								3	
								4	
							At 4.5m, lens of brown silty SAND.	5	
								6	
								7	
								8	
				8.80	178.70		Dark grey and grey MUDSTONE. (COAL MEASURES)	9	
				9.00			End of Borehole at 9.00m	10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

Remarks  
 1. Prior to drilling a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during drilling. 3. Exploratory hole surveyed in (level and co-ordinates) on completion.

