

28th May 2026

13885 – Havant Phase 3A: - Engineers Response to planning condition 24

Application Summary: -

Proposal: Construction Environmental Management Plan - Minerals Recovery

In relation to minerals recovery, Condition 24 of requires a statement providing the following:

- I. a method for ensuring that minerals that can be viably recovered during the development operations are recovered and put to beneficial use; and,
- II. a method to record the quantity of recovered mineral (re-use on site or off site) and to report this data to the Local Planning Authority in consultation with the Minerals Planning Authority.

Phase 3A Considerations

Borehole logs from the intrusive investigations carried out by Applied Geology indicate that the site consists of made geology to depths between Ground Level and 1.6m bgl, with a maximum localised depth of 2.60m. Made ground is underlaid by River Terrace Deposits, which was proven to depths between 4.50m 6.50mbgl, and Undifferentiated Chalk Beneath with thickness ranging above 10.80m

The existing site levels are generally between 4.00m AOD and 4.50m AOD excluding current engineered mounds. Due to significant portions of the site identifying as potentially being in Flood Zone 2-3 within the timeframe of 2070 to 2125, and as required under Condition 7, the development's finished floor levels are set at a minimum of 5.90m AOD. This is circa 1.40m above the existing site levels.

Ground improvements will be utilised on site once the site has been raised, by using Vibro-Stone columns (or similar), where they would extend through the imported fill, existing Made Ground, Superficial Deposits and gain support within the Chalk layer. The potential for encountering recoverable minerals following ground improvements is therefore considered unlikely.

However, if minerals are encountered following ground improvement, these will be recovered. Upon further detailed design, method of recovery and use can be determined.

The Borehole Logs by Applied geology is appended to this letter.

BOREHOLE LOG - CABLE PERCUSSION

Project	Langstone Technology Park, Havant – Phase 3A			Project No.	AG3744-26	
Client	Havant Sarl			Sheet	1 of 2	
Start	23/02/2026	Coordinates	E 471 363.74 N 105 635.59		Scale	As shown
End	24/02/2026	Ground Level	4.82 m OD		Total Depth	17.00 m

Sample /Test Type	Depth (m)	Results	Casing (m)	Level (m OD)	Depth (m)	Description of Strata	Legend	GW	Install
B	0.30					Brown sandy silty GRAVEL. Gravel is fine to coarse angular to subrounded of flint, concrete and brick. (MADE GROUND)			
PID ES	0.70	0.2		4.32	0.50	Medium dense yellowish brown clayey sandy GRAVEL. Gravel is fine to coarse angular to subangular of flint. (RIVER TERRACE DEPOSITS)			Bentonite
D SPT	1.20	N=15	—						
ES PID B D SPT	1.80 2.00	<0.1 N=20	1.5						
SPT B D	3.00	N=16	2			3.00m: slightly sandy slightly gravelly CLAY.			
				1.22	3.60				
SPT D	4.00	N=11	3			Firm yellowish brown sandy gravelly CLAY. Gravel is fine to medium angular to subangular of flint. (RIVER TERRACE DEPOSITS)			Gravel
B	4.50			0.32	4.50				
UT	5.00			-0.18	5.00	Structureless CHALK composed of yellowish cream silty GRAVEL. Clasts are extremely weak cream with occasional black specks. Matrix is yellowish cream. Grade Dc. (UNDIFFERENTIATED CHALK)			
B	5.50					Structureless CHALK composed of cream gravelly SILT. Clasts are extremely weak cream. Matrix is cream. Grade Dc. (UNDIFFERENTIATED CHALK)			
SPT D B	6.50	N=12	6.5						
D SPT	8.00	N=15	8						Bentonite
D SPT	9.50	N=17	9.5						Arisings

Chiselling			Groundwater Strikes					Hole Diameter:		Drilled: ADS Drilling Ltd Logged: AM Checked: PG
From (m)	To (m)	Duration (min)	Depth Struck (m)	Rose to (m)	Remarks	Cased (m)	Sealed (m)	Diameter (mm)	Depth (m)	
13.00 13.50	13.50 16.00	30 30	7.30	7.30		—	—	150	17.00	

General Remarks: Hand dug service inspection pit excavated to 1.20m bgl.
50mm diameter standpipe installed to 7.00m bgl.

APPLIED GEOLOGY

BOREHOLE LOG - CABLE PERCUSSION

CP04

Project	Langstone Technology Park, Havant – Phase 3A			Project No.	AG3744-26	
Client	Havant Sarl			Sheet	2 of 2	
Start	23/02/2026	Coordinates	E 471 363.74 N 105 635.59		Scale	As shown
End	24/02/2026	Ground Level	4.82 m OD		Total Depth	17.00 m

Sample /Test Type	Depth (m)	Results	Casing (m)	Level (m OD)	Depth (m)	Description of Strata	Legend	GW	Install
D SPT	11.00	N=33	11			Structureless CHALK composed of cream gravelly SILT. Clasts are extremely weak cream. Matrix is cream. Grade Dc. (UNDIFFERENTIATED CHALK)			
D SPT	12.00	N>50	12	-7.18	12.00	CHALK recovered as cream cream gravelly SILT. Gravel is extremely weak cream. (UNDIFFERENTIATED CHALK)			
D SPT	13.50	N>50	135						
B	14.50								
D SPT	15.00	N>50	15						
D SPT	16.50	N>50	16.5						
D	17.00			-12.18	17.00	End of Borehole at 17.00 m			

Chiselling			Groundwater Strikes					Hole Diameter:		Drilled: ADS Drilling Ltd Logged: AM Checked: PG
From (m)	To (m)	Duration (min)	Depth Struck (m)	Rose to (m)	Remarks	Cased (m)	Sealed (m)	Diameter (mm)	Depth (m)	
13.00 13.50	13.50 16.00	30 30	7.30	7.30		—	—	150	17.00	

General Remarks: Hand dug service inspection pit excavated to 1.20m bgl.
50mm diameter standpipe installed to 7.00m bgl.

APPLIED GEOLOGY

BOREHOLE LOG - CABLE PERCUSSION

Project	Langstone Technology Park, Havant – Phase 3A			Project No.	AG3744-26	
Client	Havant Sarl			Sheet	1 of 2	
Start	24/02/2026	Coordinates	E 471 327.89 N 105 729.67		Scale	As shown
End	25/02/2026	Ground Level	4.49 m OD		Total Depth	17.30 m

Sample /Test Type	Depth (m)	Results	Casing (m)	Level (m OD)	Depth (m)	Description of Strata	Legend	GW	Install
PID ES	0.50	0.1		3.89	0.60	Brown silty sandy GRAVEL. Gravel is fine to coarse subangular to subrounded of brick, concrete and flint. (MADE GROUND)			Bentonite
B	1.00					Medium dense greyish brown silty sandy GRAVEL. Gravel is fine to coarse angular to subangular of flint and chalk. (RIVER TERRACE DEPOSITS)			
SPT D	1.20	N=20	—						
PID ES	1.70	<0.1		2.59	1.90	Medium dense brown silty clayey sandy GRAVEL. Gravel is fine to medium angular to subangular of flint and chalk. (RIVER TERRACE DEPOSITS)			
SPT D	2.00	N=13	1.5						
SPT D	3.00	N=19	3						
B	3.50								Gravel
D SPT	4.00	N=18	4						
D	5.00								
B	6.00					-----; 6.00m: very clayey.			
SPT D	6.50	N=13	9.5	-2.01	6.50	Structureless CHALK composed of cream silty GRAVEL. Clasts are extremely weak cream. Matrix is cream. Grade Dc. (UNDIFFERENTIATED CHALK)			Bentonite
B	7.50								
D SPT	8.00	N>50	8						
D	9.00								Arisings
D SPT	9.50	N=30	9.5						

Chiselling			Groundwater Strikes					Hole Diameter:		Drilled: ADS Drilling Ltd	
From (m)	To (m)	Duration (min)	Depth Struck (m)	Rose to (m)	Remarks	Cased (m)	Sealed (m)	Diameter (mm)	Depth (m)	Logged: AM	Checked: PG
No chiselling data			2.10	1.80		—	—	150	17.30		

General Remarks: Hand dug service inspection pit excavated to 1.20m bgl.
50mm diameter standpipe installed to 6.00m bgl.

APPLIED GEOLOGY

BOREHOLE LOG - CABLE PERCUSSION

Project	Langstone Technology Park, Havant – Phase 3A			Project No.	AG3744-26	
Client	Havant Sarl			Sheet	2 of 2	
Start	24/02/2026	Coordinates	E 471 327.89 N 105 729.67		Scale	As shown
End	25/02/2026	Ground Level	4.49 m OD		Total Depth	17.30 m

Sample /Test Type	Depth (m)	Results	Casing (m)	Level (m OD)	Depth (m)	Description of Strata	Legend	GW	Install
						Structureless CHALK composed of cream silty GRAVEL. Clasts are extremely weak cream. Matrix is cream. Grade Dc. (UNDIFFERENTIATED CHALK)			
SPT D	11.00	N>50	11	-6.51	11.00				
D	11.80					CHALK recovered as cream silty GRAVEL. Gravel is extremely weak cream. (UNDIFFERENTIATED CHALK)			
D SPT	12.50	N>50	12.5						
D SPT	14.00	N>50	14						
SPT D	15.50	N>50	15.5						
SPT D	17.00	N>50	17						
				-12.81	17.30	End of Borehole at 17.30 m			

Chiselling			Groundwater Strikes					Hole Diameter:		Drilled: ADS Drilling Ltd Logged: AM Checked: PG
From (m)	To (m)	Duration (min)	Depth Struck (m)	Rose to (m)	Remarks	Cased (m)	Sealed (m)	Diameter (mm)	Depth (m)	
No chiselling data			2.10	1.80		—	—	150	17.30	

General Remarks: Hand dug service inspection pit excavated to 1.20m bgl.
50mm diameter standpipe installed to 6.00m bgl.

APPLIED GEOLOGY

BOREHOLE LOG - DRIVEN CONTINUOUS SAMPLING

DCS09

Project:	Langstone Technology Park, Havant – Phase 3A			Project No.	AG3744-26	
Client:	Havant Sarl			Sheet:	1 of 1	
Start:	26/02/2026	Coordinates:	E 471 318.17 N 105 687.34		Scale:	As shown
End:	26/02/2026	Ground Level:	4.28 m OD		Total Depth	3.45 m

Sample / Test Type	Depth (m)	Results	Rec.	Dia (mm)	Level (m OD)	Depth (m)	Description of Strata	Legend	GW	Install
PID ES	0.30	<0.1			3.78	0.50	Brown silty sandy GRAVEL. Gravel is fine to coarse subangular to subrounded of flint, brick and concrete. (MADE GROUND)			
							Medium dense locally loose greyish brown silty sandy GRAVEL. Gravel is fine to coarse angular to subangular of flint and chalk. (RIVER TERRACE DEPOSITS)			
D SPT	1.20	N=18								
D SPT	2.00	N=5								
CPT	3.00	N=14			1.28	3.00	No recovery.			
					0.83	3.45	End of Borehole at 3.45 m			

Remarks: Hand dug service inspection pit excavated to 1.20m bgl. Borehole collapsed from 3.45m to 2.00m bgl upon completion. 50mm diameter standpipe installed to 2.00m bgl.

Groundwater:				
Depth Strike	Rose to	Remarks	Cased	Sealed
2.00	—		—	—

Drilled: RGI Ltd
Logged: AM
Checked: PG

TRIAL PIT LOG

TP01

Project	Langstone Technology Park, Havant – Phase 3A		
Client	Havant Sarl		
Date	24/02/2026		
Ground Level:	4.32 m OD	Coordinates:	E 471

Project No.	AG3744-26
Sheet	1 of 1
Scale	As shown
Total Depth	2.60 m

Depth (m)	Sample / Test Type	Result	Level (m OD)	Depth (m)	Ease of Dig	Description of Strata	Legend	GW
0.50	ES PID	<0.1	2.72	1.60	E	Greyish brown silty sandy GRAVEL with a low cobble content. Gravel is fine to coarse subangular to subrounded of chalk, flint, concrete, brick and asphalt. Cobbles are subangular brick and concrete with frequent wood, metal, plastic and tile fragments. (MADE GROUND)		
1.00	ES B PID	<0.1						
1.50	ES							
2.00	B		1.72	2.60	E	Yellowish brown sandy silty GRAVEL. Gravel is fine to coarse angular to subangular of flint. (RIVER TERRACE DEPOSITS)		
						End of Trial Pit at 2.60 m		

Method: Wheeled Backhoe Excavator

Groundwater: Groundwater not encountered

Stability: Stable

Remarks: Terminated at maximum excavator reach. Trial pit backfilled with arisings on completion.

Length: 1.50m

Width: 0.50m

Logged: AM

Checked: PG

APPLIED GEOLOGY

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TRIAL PIT LOG

TP02

Project	Langstone Technology Park, Havant – Phase 3A		
Client	Havant Sarl		
Date	24/02/2026		
Ground Level:	4.52 m OD	Coordinates:	E 471

Project No.	AG3744-26
Sheet	1 of 1
Scale	As shown
Total Depth	1.90 m

Depth (m)	Sample / Test Type	Result	Level (m OD)	Depth (m)	Ease of Dig	Description of Strata	Legend	GW
0.10	ES PID				E	Brown sandy silty GRAVEL. Gravel is fine to coarse angular to subangular of flint, concrete and brick. (MADE GROUND)		
			3.22	1.30	E	Yellowish brown sandy silty GRAVEL. Gravel is fine to coarse angular to subangular of flint. (RIVER TERRACE DEPOSITS)		 1.40
			2.62	1.90		End of Trial Pit at 1.90 m		

Method: Wheeled Backhoe Excavator

Groundwater: 1.40 m bql (Encountered as slight ingress east and west pit walls. Rose from 1.90m bql to 1.60m bql.)

Stability: Major spalling of trial pit walls from 1.40m bgl.

Remarks: Trial pit collapsed from 1.40m to 1.90m bgl on completion. Trial pit backfilled with arisings on completion.

Length: 1.40m

Width: 0.50m

Logged: AM

Checked: PG

TRIAL PIT LOG

TP03

Project	Langstone Technology Park, Havant – Phase 3A		
Client	Havant Sarl		
Date	24/02/2026		
Ground Level:	4.71 m OD	Coordinates:	E 471.3

Project No.	AG3744-26
Sheet	1 of 1
Scale	As shown
Total Depth	2.60 m

Depth (m)	Sample / Test Type	Result	Level (m OD)	Depth (m)	Ease of Dig	Description of Strata	Legend	GW
0.50	B					Dark brown silty sandy GRAVEL with a medium cobble content. Distinct organic odour. Gravel is fine to coarse angular to subrounded of brick, concrete, flint and chalk with frequent wood/organic matter, metal and plastic fragments. Cobbles are angular to subangular brick and concrete. (MADE GROUND)		 0.60
0.70	ES PID	<0.1						
1.70	ES PID	<0.1			E			
			2.11	2.60		End of Trial Pit at 2.60 m		

Method: Wheeled Backhoe Excavator

Length: 1.60m

Groundwater: 0.60 m bgl

Width: 0.50m

Stability: Major spalling of northern trial pit wall from 0.60m bgl

Logged: AM

Remarks: Trial pit collapsed from 0.60m to 2.60m bgl on completion. Trial pit backfilled with arisings on completion.

Checked: PG

TRIAL PIT LOG

TP04

Project	Langstone Technology Park, Havant – Phase 3A		
Client	Havant Sarl		
Date	24/02/2026		
Ground Level:	4.09 m OD	Coordinates:	E 471

Project No.	AG3744-26
Sheet	1 of 1
Scale	As shown
Total Depth	1.90 m

Depth (m)	Sample / Test Type	Result	Level (m OD)	Depth (m)	Ease of Dig	Description of Strata	Legend	GW
0.20	ES PID	<0.1			E	Brown silty sandy GRAVEL. Gravel is fine to coarse angular to subrounded of flint, concrete and brick. (MADE GROUND)		
			3.49	0.60		Yellowish brown clayey sandy GRAVEL. Gravel is fine to coarse angular to subangular of flint. (RIVER TERRACE DEPOSITS)		
1.00	ES PID	<0.1			E			
1.20	B							
			2.19	1.90		End of Trial Pit at 1.90 m		 1.70

Method: Wheeled Backhoe Excavator

Length: 1.00m

Groundwater: 1.70 m bgl

Width: 0.50m

Stability: Major spalling of north and south pit walls from 0.60m bgl

Logged: AM

Remarks: Trial pit collapsed from 0.60m to 1.90m bgl on completion. Trial pit backfilled with arisings on completion.

Checked: PG

TRIAL PIT LOG

TP05

Project

Client

Date

Ground Level:

Langstone Technology Park, Havant – Phase 3A
Havant Sarl
24/02/2026
4.11 m OD

Coordinates:

E 471 339.48 N 105 665.95

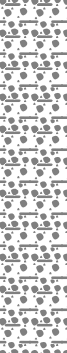
Project No.

Sheet

Scale

Total Depth

AG3744-26
1 of 1
As shown
1.90 m

Depth (m)	Sample / Test Type	Result	Level (m OD)	Depth (m)	Ease of Dig	Description of Strata	Legend	GW
0.50	PID ES B	0.1			E	Greyish brown silty sandy GRAVEL with a low cobble content. Gravel is fine to coarse subangular to subrounded of chalk, flint, concrete, brick and asphalt with frequent wood, metal, plastic and tile fragments. Cobbles are subangular brick and concrete. (MADE GROUND)		
			3.31	0.80				
1.50	ES B PID	<0.1			E	Yellowish brown clayey sandy GRAVEL. Gravel is fine to coarse angular to subangular of flint. (RIVER TERRACE DEPOSITS)		 1.60
			2.21	1.90				
						End of Trial Pit at 1.90 m		

Method:

Groundwater:

Stability:

Remarks:

Wheeled Backhoe Excavator
1.60 m bgl (Encountered as slight ingress from all pit walls)
Unstable. North and south pit wall collapse from 0.8m bgl
Terminated due to instability. Trial pit backfilled with arisings on completion.

Length:

Width:

Logged:

Checked:

1.50m

0.50m

AM

PG

APPLIED GEOLOGY

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Exploratory hole logs to be read in conjunction with key sheet

TRIAL PIT PHOTOGRAPHS		
Client:	Havant Sarl	
Project:	Langstone Technology Park, Havant – Phase 3A	
Project No:	AG3744-26	APPLIED GEOLOGY
Date:	24/02/2026	

TP01

