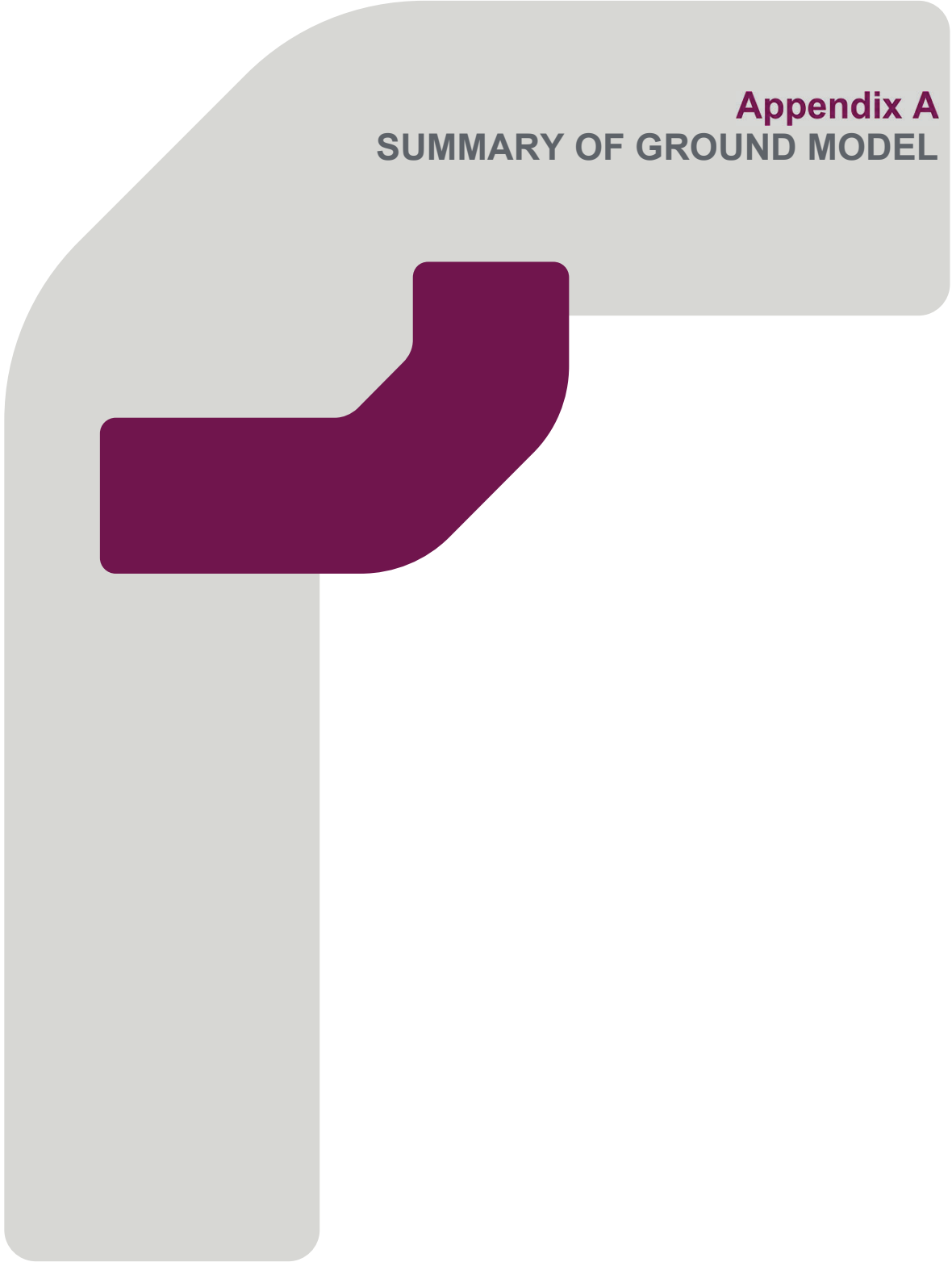



Appendix A

SUMMARY OF GROUND MODEL

Table 1 - Summary of Geology Model

Exploratory ID	Coordinates / Level		TOPSOIL				HEAD DEPOSITS/Sinkhole				RIVER TERRACE DEPOSITS				LONDON CLAY FORMATION				Groundwater Strikes		Borehole Termination		
	Easting	Northing	Ground Level (m AOD)	Top Depth (m bgl)	Base Depth (m bgl)	Thickness (m)	Proven Full Thickness (m)	Top Depth (m bgl)	Base Depth (m bgl)	Thickness (m)	Proven Full Thickness (m)	Top Depth (m bgl)	Base Depth (m bgl)	Thickness (m)	Proven Full Thickness (m)	Top Depth (m bgl)	Base Depth (m bgl)	Thickness (m)	Level after 20 mins (m bgl)	Corresponding Strata	Depth (m bgl)	Reason	
RPS 2023 Ground Investigation (ref. RPS-ENV-GD-E-218-22)																							
CP103	474670	169428	42	0.00	0.30	0.30	0.30	-	-	-	-	0.30	3.20	2.90	2.90	3.20	6.00	2.80	-	RTD	6.00	Target Depth	
RPS 2022 Ground Investigation (ref. RPS-ENV-GD-E-218-21)																							
BH02	474682	169290	41.69	0.00	0.40	0.40	0.40	0.40	0.90	2.50	1.60	1.60	2.50	1.60	1.60	2.50	20.00	17.50	-	RTD	20.00	Target Depth	
BH03	474649	169176	41.01	0.00	0.65	0.65	0.65	0.65	1.00	3.00	2.00	2.00	3.00	2.00	2.00	3.00	30.00	27.00	-	RTD	30.00	Target Depth	
WS01	474636	169268	41.92	0.00	0.30	0.30	0.30	0.30	0.70	2.90	2.20	2.20	2.90	2.20	2.20	2.90	6.00	3.10	-	RTD	6.00	Target Depth	
WS02	474618	169348	42.32	0.00	0.50	0.50	0.50	-	-	1.00	0.50	-	-	-	-	-	-	-	-	-	1.00	Refusal in RTD	
WS02A	474619	169348	42.35	0.00	0.30	0.30	0.30	-	-	1.00	0.70	-	-	-	-	-	-	-	-	-	1.00	Refusal in RTD	
WS03	474703	169261	40.83	0.00	0.35	0.35	0.35	0.35	2.20	2.50	0.30	0.30	2.50	0.30	0.30	2.50	6.00	3.50	-	-	6.00	Target Depth	
TP04	474577	169335	42.48	0.00	0.65	0.65	0.65	-	-	1.00	0.35	-	-	-	-	-	-	-	-	-	1.00	Collapsing pit walls from 0.75 m	
TP05	474642	169342	42.36	0.00	0.30	0.30	0.30	0.30	0.65	2.00	1.35	1.35	-	-	-	-	-	-	1.85	RTD	2.00	Unstable from 1.00 m	
TP06	474592	169268	42.05	0.00	0.40	0.40	0.40	0.40	-	-	-	-	-	-	-	-	-	-	1.10	HEAD	1.10	GW encountered so couldn't complete SA	
TP06A	474594	169269	42.05	0.00	0.40	0.40	0.40	0.40	0.50	0.10	-	-	-	-	-	-	-	-	-	-	0.50	Soakaway testing	
TP07	474655	169320	42.15	0.00	0.30	0.30	0.30	0.30	0.65	1.80	1.15	-	-	-	-	-	-	-	1.75	RTD	1.80	Unstable from 1.70 m	
TP08	474624	169216	41.18	0.00	0.45	0.45	0.45	0.45	-	-	-	-	-	-	-	-	-	-	-	-	1.00	Soakaway testing	
TP09	474675	169238	40.98	0.00	0.30	0.30	0.30	0.30	2.20	2.80	0.60	0.60	-	-	-	-	-	-	2.70	RTD	2.00	Unstable from 2.20 m	
TP10	474709	169211	40.89	0.00	0.40	0.40	0.40	0.40	0.80	1.60	0.80	-	-	-	-	-	-	-	1.60	RTD	1.80	Unstable from 1.50 m	
RPS 2023 Ground Investigation (ref. RPS-ENV-GD-E-218-23)																							
WS01	-	-	-	0.00	0.35	0.35	0.35	-	-	0.35	3.15	2.80	2.80	3.15	2.80	3.15	4.00	0.85	-	-	RTD	4.00	Target Depth
WS02	-	-	-	0.00	0.55	0.55	0.55	-	-	0.55	1.95	1.40	1.40	1.95	1.40	1.95	3.00	1.65	-	-	RTD	3.00	Target Depth
WS03	-	-	-	0.00	0.30	0.30	0.30	-	-	0.30	1.40	1.10	1.10	1.40	1.10	1.40	3.00	1.60	-	-	RTD	3.00	Target Depth
WS04	-	-	-	0.00	0.40	0.40	0.40	-	-	0.40	2.80	2.40	-	-	-	-	-	-	-	-	RTD	2.80	Refusal in RTD
WS05	-	-	-	0.00	0.50	0.50	0.5 MG	-	-	0.50	1.40	0.90	0.90	1.40	0.90	1.40	3.00	1.60	-	-	RTD	3.00	Target Depth
WS07	-	-	-	0.00	0.40	0.40	0.40	-	-	0.40	1.30	0.90	-	-	-	-	-	-	-	-	RTD	1.30	Refusal in RTD
WS08	-	-	-	0.00	0.30	0.30	0.30	-	-	0.30	2.40	2.10	2.10	2.40	2.10	2.40	3.00	0.60	-	-	RTD	3.00	Target Depth
WS09	-	-	-	0.00	0.40	0.40	0.40	-	-	-	-	-	-	-	-	-	-	-	1.70	LCF	3.00	Target Depth	
WS10	-	-	-	0.00	0.35	0.35	0.35	-	-	0.35	1.40	1.05	1.05	1.40	1.05	1.40	3.00	1.60	-	-	RTD	3.00	Target Depth
WS11	-	-	-	0.00	0.40	0.40	0.40	-	-	0.40	3.00	2.60	-	-	-	-	-	-	1.30	-	RTD	3.00	Target Depth
WS12	-	-	-	0.00	0.40	0.40	0.40	-	-	0.40	1.10	0.70	0.70	1.10	0.70	1.10	3.00	1.90	-	-	RTD	3.00	Target Depth
WS13	-	-	-	0.00	0.45	0.45	0.45	-	-	0.45	2.30	1.85	1.85	2.30	1.85	2.30	3.00	0.70	-	-	RTD	3.00	Target Depth
WS16	-	-	-	0.00	0.50	0.50	0.50	-	-	0.50	2.50	2.00	2.00	2.50	2.00	2.50	3.00	0.50	-	-	RTD	3.00	Target Depth
RPS 2022 Ground Investigation (ref. RPS-ENV-GD-E-218-21)																							
WS12	-	-	-	0.00	0.3	0.3	0.3 (MGV)	-	-	-	-	-	0.30	0.45	0.15	0.15	0.30	5.45	5.15	-	-	5.45	Target Depth
WS162	-	-	-	0.00	0.3	0.3	0.3 (MGV)	-	-	-	-	-	0.30	0.45	0.15	0.15	0.30	3.45	3.00	-	-	3.45	Target Depth
RPS 2023 Ground Investigation (ref. RPS-ENV-GD-E-218-20)																							
TP02	475128	168315	41	0.00	0.2	0.2	0.20	-	-	0.20	1.40	1.20	1.20	1.40	1.20	1.40	2.20	0.80	-	RTD/LCF	2.20	Target depth, spalling between 0.7 and 1.40 m	
TP03	475155	168276	41	0.00	0.2	0.2	0.20	-	-	0.20	0.40	0.20	0.20	0.40	0.20	0.40	1.50	1.10	-	-	1.50	Target Depth	
TP04	475170	168262	44	0.00	0.2	0.2	0.20	-	-	0.20	1.00	0.80	0.80	1.00	0.80	1.00	1.80	0.60	-	-	1.80	Target Depth	
TP06	475039	168224	46	0.00	0.12	0.12	0.12	-	-	0.12	1.50	1.38	1.38	1.50	1.38	1.50	2.10	0.60	-	-	2.10	Target Depth, spalling between 0.35 and 1.50 m	
TP07	475054	168191	46	0.00	1.6	1.6	1.60 MG	-	-	1.60	2.00	0.40	0.40	2.00	0.30	2.00	2.30	0.30	-	-	2.30	Target depth, spalling between 1.70 and 2 m	
WS01	476596	168770	44	0.00	0.25	0.25	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00	Target Depth	
WS02	476601	168685	47	0.00	0.2	0.2	0.20	-	-	0.20	1.20	1.00	1.00	1.20	1.00	1.20	4.00	2.80	-	RTD/LCF	4.00	Target Depth	
WS03A	474694	168166	44	0.00	0.6	0.6	0.6 MG	-	-	0.60	1.90	1.30	1.30	1.90	1.30	1.90	4.00	2.10	-	-	4.00	Target Depth	
WS04	474847	168102	44	0.00	0.2	0.2	0.2 MG	-	-	0.20	1.20	1.00	1.00	1.20	1.00	1.20	4.00	2.80	-	RTD	4.00	Target Depth	
WS05	474806	168063	44	0.00	0.5	0.5	0.5 MG	-	-	0.50	2.10	1.60	1.60	2.10	1.60	2.10	4.00	1.90	-	-	4.00	Target Depth	
WS08	474843	168224	43	0.00	1.2	1.2	1.20 MG	1.20	2	-	-	-	-	-	-	-	-	-	-	ALLUVIUM	2.00	No recovery	
WS09	476559	168613	42	0.00	0.06	0.06	0.06	-	-	-	-	-	-	-	-	-	4.00	3.94	-	-	4.00	Target Depth	

*MG - Made Ground including any overfly

Appendix B

SUMMARY OF GROUNDWATER STRIKES

Table 1 – Summary of Recorded Groundwater Strikes

Exploratory Hole Location	Groundwater Strikes (m BGL)	Groundwater Level after 20 mins (m BGL)	Geological Strata
RPS 2024 Ground Investigation (ref. 794-ENV-GDE-21622)			
CP03	0.50	-	River Terrace Deposits
CC Ground Investigation 2022 (ref. C7638)			
BH02	1.70	1.70	River Terrace Deposits
BH03	2.15	2.15	River Terrace Deposits
WS01	2.00	1.20	River Terrace Deposits
WS02	No groundwater encountered		
WS02A			
WS03			
TP05	1.90	1.85	River Terrace Deposits
TP06	1.10*	-	Brickearth
TP06A	No groundwater encountered**		
TP07	1.80	1.75	River Terrace Deposits
TP08	No groundwater encountered**		
TP09	2.70	-	River Terrace Deposits
TP10	1.60	1.55	River Terrace Deposits
RPS 2023 Ground Investigation (ref. 794-ENV-GDE-JER9890)			
WS01	1.30	-	River Terrace Deposits
WS02	1.30	-	River Terrace Deposits
WS03	0.50	-	River Terrace Deposits
WS04	1.70	-	River Terrace Deposits
WS05	1.20	-	River Terrace Deposits
WS07	0.90	-	River Terrace Deposits
WS08	1.60	-	River Terrace Deposits
WS09**	1.70	-	London Clay Formation***
WS10	1.00	-	River Terrace Deposits
WS11	1.30	-	River Terrace Deposits
WS12	No groundwater encountered		
WS13	1.40	-	River Terrace Deposits
WS16	1.60	-	River Terrace Deposits
Enzygo 2022 Ground Investigation (ref. 794-ENV-GDE-JER9890)			
WS12**	No groundwater encountered		
WS152			
RPS 2025 Ground Investigation (ref. 794-ENV-GDE-21850Z)			
TP02	1.40***	-	River Terrace Deposits / London Clay Formation
TP03			
TP04			

Exploratory Hole Location	Groundwater Strikes (m BGL)	Groundwater Level after 20 mins (m BGL)	Geological Strata
TP06	<i>No groundwater encountered</i>		
TP07			
WS01 ⁺⁺			
WS02	1.20 ^{***}	-	River Terrace Deposits / London Clay Formation
WS03	<i>No groundwater encountered</i>		
WS04	1.00	-	River Terrace Deposits
WS05	<i>No groundwater encountered</i>		
WS08	1.75 ⁺	-	Alluvium
WS09	<i>No groundwater encountered⁺⁺</i>		

⁺Encountered at borehole termination depth.

⁺⁺Borehole terminated within Brickearth.

^{***}Encountered at the boundary between RTD and LCF.

⁺Borehole terminated within Alluvium.

⁺⁺RTD absent.

^{***}Observed pockets of clayey sand were recorded within the LCF.

MINERAL RESOURCE ASSESSMENT

Loddon Garden Village, University of Reading

2025-07-28

794-ENV-GDE-21850

V1

R1

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