

APPENDIX 5 GEOLOGICAL INFORMATION

OXFORDSHIRE COUNTY COUNCIL

REFUSED

DATE: 03/09/2024
APPLICATION No: P21/S3961/CM, (MW.0115/21)

Table 1 General Stratigraphy of the Wallingford and Oxfordshire area

<i>Drift</i>	
Recent and Pleistocene	
Alluvium	
River Terrace Deposits - Northmoor Sand and Gravel Member	
<i>Solid</i>	
Upper Cretaceous	
Grey Chalk Subgroup	The Glauconitic Marl Member West Melbury Marly Chalk Formation
Lower Cretaceous	
Upper Greensand Group	

Table 2 Summary of Mean Borehole Grading Information

Percentage Passing (%) – Sieve											
Sizes											
	0.063	0.125	0.25	0.50	1.0	2.0	4.0	6.3	8.0	10.0	1
Sand and Gravel	4	5	8	26	33	40	54	64	70	76	8
	Fines (-63µm)			Sand (-4mm)		Gravel (+ 4mm)					
Sand & Gravel	4%			50%		46%					

Table 3 Summary of borehole results

Borehole ID	Easting	Northing	Level (mAOD)	Overburden Thickness(m)	BOB Level (mAOD)	Mineral Thickness (m)	BOM Level (mAOD)
WSA 14/1	460539	187981	44.49	1.9	42.6	3.0	39.6
WSA 14/2	460400	187827	45.74	0.9	44.8	4.4	40.4
WSA 14/3	460552	187637	43.63	0.9	42.7	3.3	39.4
WSA 14/4	460629	187488	43.60	3.2	40.4	0.5	39.9
WSA 14/5	460554	187803	43.63	0.8	42.8	2.9	39.9
WSA 14/6	460659	187778	43.47	2.1	41.4	1.9	39.5
WSA 14/7	460418	187698	45.12	0.8	44.3	3.4	40.9
WSA 14/8	460482	187897	45.23	0.8	44.4	3.8	40.6
WSA 14/9	460635	187637	43.45	2.5	41.0	1.2	39.8
WSA 14/10	460554	187548	43.37	0.9	42.5	2.1	40.4
WCF-15/1	460 420	187 521	44.75	0.8	44.0	2.0	42.0
WCF-15/2	460 513	187 586	44.29	1.0	43.3	1.2	42.1
WCF-15/3	460 398	187 627	44.97	1.0	44.0	1.8	42.2
WCF-15/4	460 486	187 688	44.73	0.7	44.0	2.6	41.4
WCF-15/5	460 495	187 845	44.83	0.7	44.1	3.5	40.6
WCF-15/6	460 433	187 916	45.72	1.0	44.7	3.9	40.8
WCF-15/7	460 581	187 701	43.49	0.9	42.6	2.1	40.5
WCF-15/8	460 603	187 595	43.27	1.7	41.6	1.2	40.4
WCF 16/1	460627	187949	43.65	1.6	42.0	2.1	39.9
WCF 16/2	460701	187961	43.59	2.3	41.3	1.3	40.0
WCF 16/3	460603	187875	43.57	1.4	42.2	2.3	39.9
WCF 16/4	460680	187873	43.52	2.3	41.2	1.3	39.9
GM 16/1	460670	188032	43.70	2.0	41.7	2.3	39.4
GM 16/2	460381	187909	46.49	1.7	44.8	4.6	40.2
GM 16/3	460353	187766	46.50	1.5	45.0	5.2	39.8
GM 16/4	460344	187623	45.61	1.7	43.9	1.8	42.1
GM 16/5	460344	187485	45.70	1.5	44.2	1.6	42.6
GM 16/6	460411	187445	44.53	0.6	43.9	1.8	42.1
GM 16/7	460538	187493	44.18	1.8	42.4	Barren	Barren
GM 16/8	460733	187975	43.24	2.1	41.1	0.8	40.3



	Soils & Overburden (m3)	S&G (m3)	In-Situ S&G (tonnes)	Saleable S&G (tonnes)
Plant Site	28,000	87,000	152,000	136,800
Phase 1	55,000	67,000	117,000	105,300
Phase 2	29,000	32,000	56,000	50,400
Phase 3	49,000	101,000	177,000	159,300
Phase 4	20,000	72,000	126,000	113,400
TOTAL	181,000	359,000	628,000	565,200