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**Bund 1**

NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	CLOUR	AREA	VOLUME
1	-6.00	-5.00	Blue	46.843m2	11.821m3
2	-5.00	-4.00	Blue	258.725m2	160.894m3
3	-4.00	-3.00	Blue	370.557m2	482.680m3
4	-3.00	-2.00	Blue	533.499m2	926.247m3
5	-2.00	-1.00	Blue	630.637m2	1527.347m3
6	-1.00	0.00	Blue	886.325m2	2225.496m3
7	0.00	1.00	Blue	4427.874m2	31146.514m3
8	1.00	2.00	Blue	8538.897m2	25082.892m3
9	2.00	3.00	Blue	5959.874m2	17251.873m3
10	3.00	4.00	Blue	5255.667m2	11884.651m3
11	4.00	5.00	Blue	3885.512m2	7092.431m3
12	5.00	6.00	Blue	3297.373m2	3352.777m3
13	6.00	7.00	Blue	1637.407m2	1109.934m3
14	7.00	8.00	Blue	358.983m2	54.797m3

**Bund 2**

NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	CLOUR	AREA	VOLUME
1	-4.00	-3.00	Blue	12.818m2	1.602m3
2	-3.00	-2.00	Blue	252.103m2	107.697m3
3	-2.00	-1.00	Blue	577.331m2	531.368m3
4	-1.00	0.00	Blue	4140.689m2	2407.346m3
5	0.00	1.00	Blue	7746.885m2	89233.181m3
6	1.00	2.00	Blue	9389.193m2	80194.515m3
7	2.00	3.00	Blue	8498.737m2	71417.470m3
8	3.00	4.00	Blue	9234.833m2	62730.848m3
9	4.00	5.00	Blue	10686.713m2	52913.167m3
10	5.00	6.00	Blue	9209.154m2	42288.334m3
11	6.00	7.00	Blue	7515.869m2	34227.157m3
12	7.00	8.00	Blue	6756.722m2	27140.966m3
13	8.00	9.00	Blue	7901.774m2	20165.168m3
14	9.00	10.00	Blue	6258.330m2	12609.947m3
15	10.00	11.00	Blue	3918.862m2	7462.227m3
16	11.00	12.00	Blue	2439.188m2	4419.791m3
17	12.00	13.00	Blue	1694.706m2	2333.763m3
18	13.00	14.00	Blue	1075.069m2	997.206m3
19	14.00	15.00	Blue	467.305m2	210.106m3
20	15.00	16.00	Blue	28.401m2	6.233m3

**Bund 3**

NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	CLOUR	AREA	VOLUME
1	-2.00	-1.00	Blue	4.155m2	0.078m3
2	-1.00	0.00	Blue	1401.899m2	730.639m3
3	0.00	1.00	Blue	3939.627m2	22713.407m3
4	1.00	2.00	Blue	5863.177m2	17451.205m3
5	2.00	3.00	Blue	4924.635m2	11888.173m3
6	3.00	4.00	Blue	4488.677m2	7251.804m3
7	4.00	5.00	Blue	3379.361m2	3108.468m3
8	5.00	6.00	Blue	1499.789m2	307.486m3

Bund	Cut (m³)	Fill (m³)	Shortfall (m³)	Surplus (m³)
Bund 1	5,500	96,500	91,000	
Bund 2	3,500	508,000	504,500	
Bund 3	800	62,800	62,000	
<b>Total Cut Fill Bunds</b>	<b>9,800</b>	<b>667,300</b>	<b>657,500</b>	

Surplus material from site cut fill analysis (Refer to drawing NK018318-00-XX-DR-C-SK0010)				
Surplus from plateau formation	51,000			
Surplus from balancing ponds 3.5m deep (TBC by Hydrock)	138,250			
250mm Topsoil Strip (Analysis area = 1,717,000)	429,250			
<b>Total surplus</b>	<b>618,500</b>			
Fill requirement to bunds		657,500		
<b>Total Cut Fill</b>	<b>618,500</b>	<b>657,500</b>	<b>39,000</b>	

Reference Drawings:  
 Site Masterplan  
 Michael Sparks Associates  
 Illustrative Masterplan  
 30708-FE-93  
 Survey information from  
 MK surveys  
 22223 - June 2016

B	Volumes updated following updates to Bulk Earthworks Analysis SK0010	LM	JKC	12.04.17
A	Unit 4 Plateau level corrected	LM	JKC	24.03.17
Rev	Description	By	Ctd	Date



Client Ashfield Land

Project Rail Central

Title Masterplan Bulk Earthworks Bund Volumes, Option 5

Status Preliminary Scale 1:2500 @A0 Date Created 04.07.2016  
 Project Leader JKC Drawn By LM Checked by JKC

NK018318-RPS-00-XX-DR-C-SK0011	B	S0
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50m SCALE 1:2500