



Notes:

- All elevations are in metres above Ordnance Datum.
- Existing platforms have an assumed construction thickness of 0.8m.
- The volumes shown do not account for any additional granular material import that may be required by the contractor for the creation of temporary construction haul roads, in addition to those shown on this drawing.
- Assumed existing and proposed earthworks layer thicknesses are as follows:
  - Existing Top soil layer thickness 0.2m.
  - Existing Sub soil layer thickness 0.5m.
- Proposed restoration soil thicknesses are as follows:

	Top soil	Sub soil
Woodland (Non Capped)	0.30m	0.90m
Woodland (Capped)	0.30m	1.70m
Scrub	0.15m	0.60m
Grassland	0.30m	0.20m

2	19/12/16	SM	CW	AH
Issue				
1	15/12/16	JB	CW	AH
Issue				
0	08/12/16	JB	CW	AH
Issue				
B	02/12/16	EC	CW	AH
Minor Amendments				
A	01/12/16	EC	CW	AH
Issue				
Issue	Date	By	Chkd	Appd

**ARUP**

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Client  
**Sirius Minerals Plc**

Job Title  
**York Potash**

**Dove's Nest Farm  
Construction Phase 2  
Earthworks Strategy**

Scale at A1 1:2000  
Discipline **Highways**  
Job No **234376** Issue Status  
**234376** Issue  
Drawing No **YP-P10-DNF-CX-010** Issue  
**2**

Area	Area m2	Cut (m3)				Permanent Fill (m3)					Temporary Stockpiles	Comments				
		Top Soil		Subsoil		Existing Platform Material	Superficial / Clay	Top Soil	Sub Soil	Tip			Superficial / Clay	Existing Platform	Platform Construction Class 1A (Import)	Platform Construction (Import)
		To Tip	Reuse / Stockpile	To Tip	Reuse / Stockpile											
1 North Platform	3,055	611		1,528		917	4,780							1,315	0.3m depth of existing platform to be removed and new construction provided on top.	
2 South Platform	5,360					1,340								2,080	0.25m depth of existing platform to be removed and new construction provided on top. Assumes all material previously stripped from this area is stockpiled in Area 4.	
3 Middle Extension	3,285		657		1,643									1,970		
4 Existing spoil bund	16,545														No impact on this area during phase 4.	
5 North Extension	5,600		1,120		2,800									3,360		
6 East (Lower) Extension	23,420		4,684		11,710		6,330				2,257	6,770	14,052			
7 Slope	2,625		525		1,313							100				
8 Slope	4,835		967		2,418				4,720							
9 Slope	1,290		258		645							110				
10 Access Road	7,290		1,458		3,645					2,080			6,197		Assume 30% of area top soiled	
11 Pond	7,626		1,525							3,963						
13 Bund A	5,518		1,104		2,759			310	1,245	14,543					Assumed Scrub planting for basis of restoration soils thickness.	
14 Temp Top Soil Bund 1	5,790		1,158											8,779		
15 Temp Sub Soil Bund 1	6,391		1,278											21,177		
16 Temp Top Soil Bund 2	2,421		484											3,631		
17 Temp Sub Soil Bund 2	2,672		534											9,510		
18 Clay Stockpile	7,160		1,432											24,730		
<b>Total</b>	<b>110,883</b>	<b>611</b>	<b>17,185</b>	<b>1,528</b>	<b>26,932</b>	<b>2,257</b>	<b>11,110</b>	<b>35,493</b>	<b>6,775</b>	<b>1,245</b>	<b>14,543</b>	<b>10,763</b>	<b>2,257</b>	<b>6,980</b>	<b>28,974</b>	<b>67,827</b>
					<b>95,114</b>									<b>35,583</b>		<b>67,827</b>

Cut		Cut (Total)			Fill		Stockpile	
Top Soil	0.2	17,185	1.05	18,044	6,775	10,410		
Sub Soil	0.5	26,932	1.10	29,625	1,245	25,687		
FILL Platform Construction	0.6	35,493	1.10	39,042	10,763	24,730		
Road Construction	0.85	2,257	1.00	2,257	2,257	-1		
Tip		611	1.05	642	14,543	0		
Top Soil		1,528	1.10	1,680				
Sub Soil		11,110	1.10	12,221				
Other								
<b>Total</b>		<b>95,114</b>		<b>103,510</b>	<b>35,583</b>	<b>60,825</b>		