					-						Phase 2																Phase 3				
	Area Location	Area m2	Tor	o Soil		Cut (m Subsoil	3) Existir	ng Sune	rficial / Clay	Top Soil	Sub Soil	Tip	Pen Superficial	manent Fill		Platform	Platform		Temporary Stockpiles	Comments3	Top Soil	Cut Sub Soil		Clay	Top Soil	Sub Soil	Superficial	Permanen		Type 1	Pla
							Platfor Mater	rm ial		100 501	Sub Soli			Platform	(Import)		Constructi on Type 3	s Surfacing			100 501	545 5611	/Inert	City			Superneta		Constructi on Class 1A (Import)	Type 1 (Import)	Cor on (Im
+			То Тір	Reuse	To Tip	Reuse	_	To Tip	Reuse / Clay											0.3m depth of existing											_
																				platform to be removed and new construction											
																				provided on top.											
	1 North Platform	3,055	611	L	1	,528		917 4,	780								1,315			It is assumed that top, sub and sperficial soil cut											
																				volumes from this area are currently stored in the											
																				landscaped bunds surrounding the northern											
																				platform. 0.25m depth of existing											
																				platform to be removed and new construction											
	2 South Platform	5,360	1,072	2	2	,680	1,	340	5,580								2,080			provided on top. Assumes all material			8,454	1							
																				previously stripped from this area is stockpiled in											
3	Middle Extension	3,285		65	57	1,	543	_	3,160								1,970			Area 9.											
	3a Upper Eastern Extension	3,560																			712	1,780	60	)			830				
	4 North Extension	5,600		1,12	20	2,	800		9,730								3,360														
	5 East (Lower) Extension	22,240		4,44			120	6,	330 1,900					2,257	,	13,000	13,350														
	6 Slope 7 Slope	2,625 4,835		52 96			313 418		2,190	788			4,720			100															$\vdash$
	8 Slope	1,665		33			833		1,100	500			200			110															
	9 Vent Shaft Platform	13,800																			2,760	<mark>6,900</mark>	21,93	)							Γ
	10 Laydown Area	12,000																			2,400	<mark>6,000</mark>	36	5			3,110				
	1a Laydown Area	10,000																			2,000						2,100				-
	b Laydown Area 2 Laydown Area	14,000 12,100																			2,800						4,800				$\vdash$
	13 Access Road	7,300		1,46	50	3,	550	_	1,227				5,580		1,700	)		1,600		Assume 30% of area top soiled											
14	Recharge Well	3,600																		solled	720	1,800									
	Access Tracks	<mark>6,520</mark>																			1,304	3,260					1,200	)		1,200	
	6 Attenuation Ponds (Ph2) 7 Attenuation Ponds (Ph3)	7,600		1,52	20				2,323	2,290			3,963								4,926		4,920				14,400				$\square$
1/	Attenuation Ponds (Ph5)																				4,920		4,920				14,400				_
	18 Bund A	5,500		1,10	00	2,	750			310	1,245	18,61	6							Assumed Scrub planting for basis of restoration											
2	20 Spoil Disposal Area	4,800					_	_												soils thickness.	960	2,400									
	21 Inert Bund	8,400																			1,680										
2	2 Temp Top Soil Bund 1	5,790		1,15	58														8,779												
	23 Temp Sub Soil Bund 1	6,400		1,28															21,177												_
	24 Temp Top Soil Bund 2 25 Temp Sub Soil Bund 2	2,400 2,700		48															3,631												-
	26 Temp Top Soil Bund 3	3,800																	5,510		760										
	27 Temp Sub Soil Bund 3	3,700																			740										
	28 Clay Stockpile	7,160		1,43															24,730												
lota	1	189,795	1,683	17,02	20 4	,208 26,		257 11,	110 28,200	5,338	1,245		6 14,463	2,257	1,700		22,075		67,827		24,182			9 0	0	0	26,840	0	0	1,200	
						91,00	2					41,919				36,985		1,600	67,827			112,	,791			26,	840			35,730	
							Cut	Bulking	Cut (Total)	Fill	Stockpile											Cut	Bulking	Cut (Total)	Fill	Stockpile		Total In			
<u> </u>	the Town Cold	0.2			Torre															Tan Call								Stockpile			
Cu	t Top Soil Sub Soil	0.2			Top Soi Sub Soi				L.05 17,871 L.10 29,178	5,338 1,245		}								Top Soil Sub Soil		24,182 40,190			0	25,391 44,209		37,925 72,142			
Fil	Platform Construction Road Construction	0.6 0.85				cial / Clay			1.10 31,020	14,463 2,257	16,557	,								Clay Tip (inert material)		0	1.10		0	0		16,557			
	Laydown Construction	0.85			Tip	Platform			L.00 2,257 L.05 1,767	18,616	0	)								Total		48,419 115,265	1.0	5 50,840 122,660	26,840 5,086			24,000 184,076			
						Sub Soil Other (I	-		L.10 4,628 L.10 12,221																						
ł					Total		91,		98,941	41,919	57,023																				

Do not scale

									hars 2															material volumes subject to confirm and change.
$ \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	Area Location		-	Subsoi	il Ex Pla M	atform laterial				Superficial	Existing Ty	pe 1 Platform port) Constructi on Class 1A	Constructi s Surfaci on Type 3	iou	Comments3		il Superficial Clay	Top Soil S	Phase 3 ub Soil Superficia	Permanent Fill al Clay Plat Con on C	tform Type 1 nstructi (Import) Class 1A	Constructi s Surfa on Type 3	Stockpiles	
Jundim Jun	1 North Platform				euse		Clay								platform to be removed and new construction provided on top. It is assumed that top, sub and sperficial soil cut volumes from this area are currently stored in the landscaped bunds surrounding the northern									
100 <td>2 South Platform</td> <td>5,360</td> <td>1,072</td> <td>2,680</td> <td></td> <td>1,340</td> <td>5,580</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,080</td> <td></td> <td>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</td> <td></td> <td>8,454</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2 South Platform	5,360	1,072	2,680		1,340	5,580						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		8,454							
Mode Add Mode Add Mode <td>3a Upper Eastern Exten 4 North Extension 5 East (Lower) Extensio</td> <td>ion 3,560 5,600 in 22,240</td> <td>4,44</td> <td>8</td> <td>2,800 11,120</td> <td>6,:</td> <td>9,730 30 <b>1,900</b></td> <td></td> <td></td> <td></td> <td>2,257</td> <td>13,000</td> <td>3,360</td> <td></td> <td></td> <td>712 1,</td> <td>780         60           1         1           1         1           1         1</td> <td></td> <td>88</td> <td>30 30 30 30 30 30 30 30 30 30 30 30 30 3</td> <td></td> <td>2,150</td> <td></td> <td></td>	3a Upper Eastern Exten 4 North Extension 5 East (Lower) Extensio	ion 3,560 5,600 in 22,240	4,44	8	2,800 11,120	6,:	9,730 30 <b>1,900</b>				2,257	13,000	3,360			712 1,	780         60           1         1           1         1           1         1		88	30 30 30 30 30 30 30 30 30 30 30 30 30 3		2,150		
Important I	7 Slope 8 Slope 9 Vent Shaft Platform 10 Laydown Area	4,835 1,665 13,800 12,000	96 33		2,418		990					110				2,400 6,	000 366					6,000	680	
i         i	11b       Laydown Area         12       Laydown Area         13       Access Road         14       Recharge Well	14,000 12,100 7,300 3,600	1,46		3,650		1,227			5,580		1,700	1,	600	Assume 30% of area top soiled	2,800 7, 2,420 6, 720 1,	000         5,650           050         6,508           800		4,80			6,850 6,050 2,160	150	
	16 Attenuation Ponds ( 17 Attenuation Ponds (	h2) 7,600			2,750		2,323		1,245						for basis of restoration									Issue for Planning B 30/03/17 JB C
1 <t< td=""><td>21Inert Bund22Temp Top Soil Bund23Temp Sub Soil Bund</td><td>8,400 5,790 6,400</td><td>1,28</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8,779</td><td></td><td></td><td>400</td><td></td><td></td><td></td><td></td><td></td><td>6,377 720</td><td>A 07/03/17 JB C Draft Issue Date By Cł</td></t<>	21Inert Bund22Temp Top Soil Bund23Temp Sub Soil Bund	8,400 5,790 6,400	1,28	0										8,779			400						6,377 720	A 07/03/17 JB C Draft Issue Date By Cł
Image: series of the series of th	25Temp Sub Soil Bund26Temp Top Soil Bund27Temp Sub Soil Bund28Clay Stockpile	2     2,700       3     3,800       3     3,700       7,160	1,43	2 0 1 1 2 1 2	26.525	2 257 14	10 29 200	E 220	1 2/5	3 616 14 462	2 257	1 700 12 212		9,510		760 740 24 192 40	190 48 410		0 200		0 1 200	24 520	35,881	Admiral House, Rose Wharf, 78 East Street, Leeds, LS9 8EE www.arup.com
Image: Section 1       Section 2       Section			1,003 17,02		91,002				41,9								112,791	al) Fill S	26,840	Total In				Client Sirius Minerals Plc
	Sub Soil       Fill     Platform Construction       Road Construction	0.5 n 0.6 0.85		Sub Soil Superficial / Cli Existing Platfor Tip To	lay m rm p Soil	26,525         1.           28,200         1.           2,257         1.           1,683         1.	10         29,178           10         31,020           00         2,257           05         1,767	1,245 14,463 2,257	27,933						Sub Soil Clay Tip (inert material)	40,	190         1.10         44,7           0         1.10         44,7           419         1.05         50,8	209         0           0         0           840         26,840	44,209 0 24,000	37,925 72,142 16,557 24,000				

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