

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register														Total Tonnage Used						
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1										
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021							551.49				
Project Engineer:				Oliver Partington		Form Completed By:				OP																	
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)				Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments				
								Seam 1		Seam 2		Seam 3		Seam 4													
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
1	17/11/2020	C6 – A57097	BS 07	A	57.100	16	14.5	23.00	2.00							Y	42	Yes			02/12/2020	0.120	1	736.32%	1.58	Yes	Grout from 23 to 25
2	17/11/2020	C6 – A57097	BK 13	C	57.900	16	14.5	16.50	0.50							Y	33	Yes			04/12/2020	0.103	0.5	384.06%	0.79	Yes	Soft b/g
3	17/11/2020	C6 – A57097	BK 19	C	58.650	14	13									Y	19.5	Yes			04/12/2020	0.073	2.3	3032.42%	3.634	Yes	Could not take to 37 meters due to hitting working at 17 to 18.5
4	18/11/2020	C6 – A57097	BS 13	B	57.863	28	26									Y	37	Yes			26/01/2021	0.143	0.5	249.08%	0.79	Yes	Very soft from 4m to 26m possible shaft.
5	18/11/2020	C6 – A57097	BY 13	B	58.057	14	12.5	19.50	2.00							Y	37	Yes			08/12/2020	0.105	0.1	0.00%	0.158	Yes	
6	18/11/2020	C6 – A57097	AR 19	C	57.780	16	14.5	20.00	3.00	25	4.00					N	41	Yes			27/11/2020	0.118	0.100	0.00%	0.158	Yes	20m-23m is grout not coal. 25m-29m is coal/shale.
7	18/11/2020	C6 – A57096	BD 37	G	60.100	16	13.5	29.00	2.00							Y	40	Yes			25/11/2020	0.116	0.100	0.00%	0.158	Yes	
8	18/11/2020	C6 – A57096	BK 43	F	60.350	14	13.5	16.00	0.50	24	2.00					Y	41.5	Yes			25/11/2020	0.113	0.125	10.41%	0.198	Yes	
9	18/11/2020	C6 – A57096	BS 43	F	60.400	14	13									N	37	Yes			25/11/2020	0.105	0.125	18.96%	0.198	Yes	
10	18/11/2020	C6 – A57096	BY 43	F	60.400	14	13									Y	40	Yes			24/11/2020	0.111	0.100	0.00%	0.158	Yes	
11	18/11/2020	C6 – A57096	BD 31	E	60.100	16	13	16.50	0.50							N	30	Yes			01/12/2020	0.098	1.100	1023.97%	1.738	Yes	
12	18/11/2020	C6 – A57096	AX 37	G	60.250	14	12	20.00	1.00							N	38.5	Yes			25/11/2020	0.108	1.000	827.73%	1.580	Yes	
13	18/11/2020	C6 – A57097	CE 13	B	58.285	16	15									N	48	Yes			16/12/2020	0.130	0.500	283.37%	0.790	Yes	16to 17 dark shale 34.5 to 35.5 possible grout.
14	18/11/2020	C6 – A57097	CL 13	B	58.218	14	12.5	30.00	1.00							N	41	Yes			24/11/2020	0.112	3.100	2660.18%	4.898	Yes	30 to 31 dark shale and coal.
15	19/11/2020	C6 – A57097	BK 07	A	57.200	14	13.5	16.00	0.50	30	1.00					Y	41	Yes			02/12/2020	0.112	0.500	345.19%	0.790	Yes	
16	19/11/2020	C6 – A57097	AX 07	A	57.100	18	16.5	18.50	1.00	28.5	0.50					Y	41	Yes			26/11/2020	0.123	0.100	0.00%	0.158	Yes	18.5m-19.5m is dark shale/traces of coal. 33-33.5 is shale/traces of coal. 33.5-41 is doft sst/mudstone.
17	19/11/2020	C6 – A57097	BD 07	A	57.400	14	13.5	16.50	0.50	22.5	0.50					N	41	Yes			01/12/2020	0.112	1.500	1235.57%	2.370	Yes	Shale 16.5 - 17, not coal.
18	19/11/2020	C6 – A57097	AX 13	C	57.617	18	16.5	18.00	3.00							N	30	Yes			26/11/2020	0.103	5.150	4884.58%	8.137	Yes	18m-21m is shale/traces of coal.
19	19/11/2020	C6 – A57097	BD 13	C	58.072	16	14.5	22.50	0.50							N	38.5	Yes			01/12/2020	0.113	1.000	783.07%	1.580	Yes	17-17.5 is shale/traces of coal.
20	19/11/2020	C6 – A57097	AX 19	C	58.672	16	14	19.00	4.50							N	32	Yes			01/12/2020	0.101	1.200	1082.44%	1.896	Yes	
21	19/11/2020	C6 – A57097	BD 19	C	58.800	14	13.5	14.00	3.00							N	37	Yes			07/12/2020	0.105	0.800	661.35%	1.264	Yes	
22	19/11/2020	C6 – A57096	BS 37	F	60.100	16	13.5	33.50	1.50							Y	44	Yes			24/11/2020	0.123	0.100	0.00%	0.158	Yes	
23	19/11/2020	C6 – A57096	BK 31	D	60.100	14	13	25.50	2.00							Y	44	Yes			24/01/2021	0.118	0.100	0.00%	0.158	Yes	
24	19/11/2020	C6 – A57096	AX 31	E	60.100	14	12	22.00	1.50							N	39.5	Yes			08/12/2020	0.110	0.400	264.97%	0.632	Yes	
25	19/11/2020	C6 – A57096	AJ 31	E	59.000	16	14	23.00	1.00	36	4.00					Y	41	Yes			26/11/2020	0.118	0.100	0.00%	0.158	Yes	Coal is actually possible coal.
26	19/11/2020	C6 – A57096	AR 31	E	59.950	14	13	23.00	1.00	27.5	1.00					Y	39	Yes			26/11/2020	0.109	0.200	84.00%	0.316	Yes	Coal is possible coal
27	19/11/2020	C6 – A57096	AJ 37	G	60.250	17	14	17.00	0.50	23.5	1.50	38.00	2.00			N	51	Yes			26/11/2020	0.139	0.500	260.82%	0.790	Yes	Coal is coal trace
28	19/11/2020	C6 – A57096	AR 37	G	60.700	16	14	25.00	1.00	27.5	0.50	45.00	0.50			Y	53	Yes			25/11/2020	0.139	0.100	0.00%	0.158	Yes	Coal is possible coal and siltstone is possible grout
29	20/11/2020	C6 – A57096	BK 37	F	60.000	16	14	23.50	1.00	39	2.00					Y	42	Yes			06/01/2021	0.120	0.300	150.90%	0.474	Yes	
30	20/11/2020	C6 – A57096	BY 31	D	60.100	14	13	25.50	2.00							Y	44	Yes			24/11/2020	0.118	0.100	0.00%	0.158	Yes	
31	20/11/2020	C6 – A57096	BY 37		60.200	14	14									N	31	Yes			25/11/2020	0.094	0.125	32.66%	0.198	Yes	
32	20/11/2020	C6 XP – A57217	CE 07	B	57.400	15	14									Y	39	Yes			03/12/2020	0.111	0.300	169.25%	0.474	Yes	Water coming and going couldn't tell what I was hitting but it was all hard
33	23/11/2020	C6 XP – A57217	CL 07	B	57.500	16	14	18.00	1.00	27	1.50					Y	38	Yes			24/11/2020	0.112	0.100	0.00%	0.158	Yes	18-19 part coal
34	23/11/2020	C6 XP – A57217	AT 25	C	59.200	16	14	20.00	10.00							Y	39	Yes			26/11/2020	0.114	0.100	0.00%	0.158	Yes	No comments.
35	23/11/2020	C6 XP – A57217	AN 25	C	58.700	14	13									Y	39	Yes			14/12/2020	0.109	0.100	0.00%	0.158	Yes	Hard to see what I was hitting poor lighting
36	23/11/2020	C6 – A57097	CL 19	D	58.900	12	11	31.00	1.00							Y	41	Yes			24/11/2020	0.107	0.100	0.00%	0.158	Yes	31 to 32 dark shale and coal.
37	23/11/2020	C6 – A57097	CE 19	D	58.800	16	15	16.00	1.00							N	39	Yes			14/01/2021	0.114	0.400	250.43%	0.632	Yes	
38	23/11/2020	C6 – A57097	BY 19	D	58.900	14	12									N	39	Yes			05/01/2021	0.109	0.200	84.00%	0.316	Yes	
39	23/11/2020	C6 – A57097	BY 25	D	59.600	14	13									N	25	Yes			14/12/2020	0.083	0.200	139.89%	0.316	Yes	21/24 void b/ g
40	23/11/2020	C6 – A57097	CE 25	D	59.500	14	12.5									N	39	Yes			05/01/2021	0.109	0.300	176.00%	0.474	Yes	16.5 / 18 possible grout as the stayed open going through the soft ground .
41	23/11/2020	C6 – A57097	CL 25	D	59.500	16	14	32.00	1.50							Y	39	Yes			08/12/2020	0.114	0.100	0.00%	0.158	Yes	
42	23/11/2020	C6 – A57097	BS 25	D	59.500	14	12									Y	39	Yes			24/11/2020	0.109	0.125	15.00%	0.198	Yes	
43	23/11/2020	C6 – A57096	CE 31	D	60.100	14	12.5	16.50	1.00							Y	37	Yes			10/12/2020	0.105	0.100	0.00%	0.158	Yes	
44	23/11/2020	C6 – A57096	BF 05	A	57.000	18	16	19.50	0.50							N	36	Yes			08/01/2021	0.114	0.900	688.30%	1.422	Yes	

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Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments		
								Seam 1		Seam 2		Seam 3		Seam 4													
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
65	25/11/2020	C6 XP – A57217	AX 21	C	58.900	16	14	19.00	5.00							N	39	Yes			27/11/2020	0.114	0.100	0.00%	0.158	Yes	
66	25/11/2020	C6 XP – A57217	AT 17	C	57.900	16	14	19.00	6.00	33	2.00					Y	39	Yes			27/11/2020	0.114	0.100	0.00%	0.158	Yes	
67	25/11/2020	C6 XP2 – A57221	BB 41	G	60.200	16	15	18.50	3.50	48	1.00					Y	53	Yes			25/11/2020	0.139	0.100	0.00%	0.158	Yes	
68	25/11/2020	C6 XP2 – A57221	BB 33	E	60.100	16	15.5	17.00	3.00							Y	39	Yes			25/11/2020	0.114	1.600	1301.72%	2.528	Yes	
69	25/11/2020	C6 XP2 – A57221	AN 37	G	60.600	16	15.5	30.00	5.00							N	50	Yes			01/12/2020	0.134	1.000	646.04%	1.580	Yes	**lost water at 45m
70	25/11/2020	C6 – A57097	BU 09	B	57.200	16	14									N	24	Yes			03/12/2020	0.087	1.300	1393.98%	2.054	Yes	
71	25/11/2020	C6 – A57097	BP 37	F	60.100	14	13									N	55	Yes			25/11/2020	0.138	0.125	0.00%	0.198	Yes	
72	25/11/2020	C6 – A57097	BU 37	F	60.100	16	14.5									N	55	Yes			26/11/2020	0.143	0.100	0.00%	0.158	Yes	
73	25/11/2020	C6 – A57097	CC 41	F	60.600	14	13									N	25	Yes			07/12/2020	0.083	3.600	4217.93%	5.688	Yes	Hit 3 metre void, told to pull off until grouted
74	25/11/2020	C6 – A57096	BK 05	A	57.000	16	14.5									N	32	Yes			02/12/2020	0.101	1.600	1476.59%	2.528	Yes	Target depth of 55m not reached - lost water @ 28
75	25/11/2020	C6 – A57096	BP 05	A	56.900	16	14									N	27	Yes			02/12/2020	0.092	1.200	1198.12%	1.896	Yes	Target depth not reached of 55m lost water at 23.5m
76	25/11/2020	C6 – A57096	BB 09	A		16	14.5									N	26.5	Yes			01/12/2020	0.092	1.300	1320.19%	2.054	Yes	
77	25/11/2020	C6 – A57096	AX 05	A		6.5	0									Y	6.5	Yes			21/01/2021	0.029	2.000	6686.09%	3.160	Yes	Hit obstruction at 6.5m and stop straight away amp waiting on instruction
78	25/11/2020	C6 – A57096	BB 05	A		6.5	0									Y	6.5	Yes			06/01/2021	0.029	0.600	1935.83%	0.948	Yes	Hit obstruction 6.5m and sat on it for 25 mins and ruined the cutting shoe and we've took it up to office
79	26/11/2020	C6 XP2 – A57221	AJ 33	E		16	15	21.00	6.00	35	3.00					Y	39	Yes			26/11/2020	0.114	0.100	0.00%	0.158	Yes	
80	26/11/2020	C6 XP2 – A57221	AE 37	G		16	15	19.00	6.00							Y	55	Yes			26/11/2020	0.143	0.100	0.00%	0.158	Yes	
81	26/11/2020	C6 XP2 – A57221	AN 33	E		16	15	31.00	2.00							Y	39	Yes			10/12/2020	0.114	0.100	0.00%	0.158	Yes	
82	26/11/2020	C6 XP – A57217	AX 17	C		16	14	19.00	6.00							Y	39	Yes			27/11/2020	0.114	0.100	0.00%	0.158	Yes	
83	26/11/2020	C6 XP – A57217	BB 17	C		16	14	16.00	4.00							N	43	Yes			01/12/2020	0.121	1.000	723.86%	1.580	Yes	
84	26/11/2020	C6 XP – A57217	CG 05	B		16	14	30.00	2.00							N	58	Yes			03/12/2020	0.149	0.300	102.01%	0.474	Yes	
85	26/11/2020	Klemm 709 – A57211	CL 05	B	57.300	14	13	52.50	2.00							Y	58	Yes			26/11/2020	0.143	0.100	0.00%	0.158	Yes	
86	26/11/2020	Klemm 709 – A57211	AX 33	E		14	12.5	17.00	6.00	23	0.00	36.00	1.00			Y	39	Yes			26/11/2020	0.109	0.100	0.00%	0.158	Yes	
87	26/11/2020	C6 – A57097	CC 33	F		14	13	16.50	2.00							Y	55	Yes			07/12/2020	0.138	0.900	553.92%	1.422	Yes	
88	26/11/2020	C6 – A57097	CG 33	F		14	12.5	16.50	2.00							Y	55	Yes			26/11/2020	0.138	0.100	0.00%	0.158	Yes	
89	26/11/2020	C6 – A57097	BU 33	F		16	14.5									N	33	Yes			03/12/2020	0.103	0.550	432.46%	0.869	Yes	
90	26/11/2020	C6 – A57097	BP 33	F		14	13	19.00	1.00	38	2.00					Y	55	Yes			26/11/2020	0.138	0.100	0.00%	0.158	Yes	
91	26/11/2020	C6 – A57096	AT 13	C		20	14.5	34.00	1.00							Y	42	Yes			26/11/2020	0.130	0.100	0.00%	0.158	Yes	
92	26/11/2020	C6 – A57096	BU 05	B		16	14.5									N	24.5	Yes			02/12/2020	0.088	1.500	1606.10%	2.370	Yes	Hit soft ground lost water that's why we didn't go to depth
93	26/11/2020	C6 – A57096	BY 05	B		16	15	17.00	3.00							Y	55	Yes			08/12/2020	0.143	0.100	0.00%	0.158	Yes	
94	26/11/2020	C6 – A57096	AZ 03	A		0	0									Y	0	Yes			26/01/2021	0.000	0.100	#DIV/0!	0.158	Yes	Hit obstruction 6.5m pulled of to await instructions
95	26/11/2020	C6 – A57096	BB 13	C		16	14.5									N	20.5	Yes			01/12/2020	0.081	1.300	1511.20%	2.054	Yes	Hit soft broken ground lost water and that's why we couldn't go to depth
96	26/11/2020	C6 – A57096	BB 03	A		18	16									N	55	Yes			01/12/2020	0.149	1.000	573.24%	1.580	Yes	
97	26/11/2020	C6 – A57096	BD 03	A		18	16									N	23	Yes			01/12/2020	0.091	1.300	1333.96%	2.054	Yes	Couldn't go to depth lost water and soft broken ground
98	27/11/2020	C6 – A57097	BY 33			14	14	25.00	2.00							Y	56	Yes			07/12/2020	0.139	0.500	258.57%	0.790	Yes	
99	27/11/2020	C6 – A57097	CG 29	D		18	16.5									Y	44	Yes			13/01/2021	0.129	0.300	133.21%	0.474	Yes	
100	27/11/2020	C6 – A57097	CC 29	D		15	14	20.00	2.00	42	1.00					Y	44	Yes			11/01/2021	0.120	0.200	66.03%	0.316	Yes	
101	27/11/2020	C6 – A57097	BY 29	D		14	12.5									N	42	Yes			05/01/2021	0.114	0.200	75.25%	0.316	Yes	
102	27/11/2020	C6 XP2 – A57221	AT 37	G		16	15	26.00	3.00							N	44	Yes			01/12/2020	0.123	1.000	711.76%	1.580	Yes	1. TOC 26m to 29m 2.lost water at 40m
104	27/11/2020	C6 XP2 – A57221	BF 33	E		14	13.5									Y	39	Yes			10/12/2020	0.109	0.100	0.00%	0.158	Yes	
105	27/11/2020	C6 XP2 – A57221	AZ 37	G		16	14.5	19.50	3.50							N	37	Yes			01/12/2020	0.111	1.000	804.75%	1.580	Yes	Did not reach required depth of 54m
106	27/11/2020	C6 XP – A57217	CC 09	B		18	16									Y	58	Yes			03/12/2020	0.154	0.100	0.00%	0.158	Yes	Water coming and going not enough to tell what I was hitting but was all hard drilling
107	27/11/2020	C6 XP – A57217	CG 09	B		16	14	32.00	2.00							N	48	Yes			18/01/2021	0.130	0.200	53.35%	0.316	Yes	
108	27/11/2020	C6 – A57096	BF 03	A	56.900	14	11.5									N	20	Yes			01/12/2020	0.074	1.400	1783.49%	2.212	Yes	Lost water so didn't reach target depth and gas monitor went off and got swapped and out for another to check it was right
109	30/11/2020	C6 XP – A57216	CG 17	D		14	13	14.00	1.00	35	0.00					Y	39	Yes			27/11/2020	0.109	0.100	0.00%	0.158	Yes	Coal is only traces of coal.
110	30/11/2020	C6 XP – A57216	CC 21	D		14	12	17.00	2.00							N	42	Yes			03/12/2020	0.114	0.300	162.88%	0.474	Yes	Lost water after coal seam at 19m
111	30/11/2020	C6 XP – A57216	CL 17	D		12	11	12.00	6.00	30	1.00					N	40	Yes			03/12/2						

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								Seam 1		Seam 2		Seam 3		Seam 4													
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
128	30/11/2020	C6 – A57096	BH 03	A		18	16.5									N	33.5	Yes			13/01/2021	0.110	0.100	0.00%	0.158	Yes	Possibly void in broken ground 28.5 to 32.5 and lost water didn't reach target depth
129	30/11/2020	C6 – A57096	BM 03	A		14	13.5									N	29	Yes			01/12/2020	0.091	2.000	2107.31%	3.160	Yes	20 mins to get through obstruction 7m down
130	30/11/2020	C6 XP – A57216	BP 03	A		14	13.5									N	26.5	Yes			02/12/2020	0.086	1.900	2107.09%	3.002	Yes	Lost water didn't reach target depth
131	30/11/2020	C6 – A57096	AL 37	G		16	15.5	32.00	7.00							Y	55	Yes			10/12/2020	0.143	0.100	0.00%	0.158	Yes	32 to 39m is dark shale coal / grout
132	30/11/2020	C6 XP2 – A57221	AV 37	G		14	13.5	23.00	4.00							N	41	Yes			15/12/2020	0.112	0.500	345.19%	0.790	Yes	1.23 to 27m toc. 2. Did not reach required depth 55m
133	30/11/2020	C6 XP2 – A57221	AG 37	G		18	17	34.00	4.00	39	2.00					Y	55	Yes			16/12/2020	0.149	0.100	0.00%	0.158	Yes	1.34m to 38m dark shale coal/ grout 2.TOC 53m
134	30/11/2020	C6 XP2 – A57221	AE 41	G		18	17	40.00	4.00							Y	60	Yes			10/12/2020	0.158	0.100	0.00%	0.158	Yes	1.40m to 44m TOC
135	30/11/2020		BU 03	A		14	13.5									N	23	Yes			02/12/2020	0.080	3.000	3661.47%	4.740	Yes	Lost water didn't reach target depth
136	01/12/2020	C6 – A57096	BW 03	B		14	13.5	17.00	2.00							Y	55	Yes			01/12/2020	0.138	1.000	626.57%	1.580	Yes	
137	01/12/2020	C6 – A57096	AV 23	C		16	15	19.50	1.00	22	7.00					N	49.5	Yes			07/12/2020	0.133	0.800	500.89%	1.264	Yes	Lost water didn't reach target depth soft broken ground
138	01/12/2020	C6 – A57096	AX 23	C		16	15	20.00	2.00							N	33	Yes			07/12/2020	0.103	1.150	1013.33%	1.817	Yes	Lost water didn't reach target depth
139	01/12/2020	C6 – A57096	AN 23	C		16	14	17.00	0.50	40	1.00					N	53	Yes			07/12/2020	0.139	0.500	258.51%	0.790	Yes	Both coal sections were traces of it and not reach target depth lost water in soften broken ground
140	01/12/2020	C6 – A57096	AR 23	C		16	14	21.50	1.00	26	1.50	27.50	10.00	37.50	1.00	N	52.5	Yes			07/12/2020	0.139	0.800	477.36%	1.264	Yes	Lost water in soft broken ground didn't reach target depth sorry forgot to change water returns
141	01/12/2020	C6 XP – A57216	CC 19	D		14	12									N	21	Yes			03/12/2020	0.076	0.700	819.37%	1.106	Yes	
142	01/12/2020	C6 XP – A57216	CG 19	D		14	12	14.00	1.00	34	1.00					Y	42	Yes			02/12/2020	0.114	0.200	75.25%	0.316	Yes	Trace of coal at 25m
143	01/12/2020	C6 XP – A57216	CJ 19	D		14	12	22.00	1.00	33	1.00					N	44	Yes			03/12/2020	0.118	3.000	2448.04%	4.740	Yes	
144	01/12/2020	C6 XP – A57216	CL 23	D		14	12	26.00	1.00	31	1.00					N	42	Yes			02/12/2020	0.114	1.800	1477.28%	2.844	Yes	
146	01/12/2020	C6 XP – A57216	CJ 23	D		14	13	32.00	1.00	42	1.00					Y	60	Yes			02/12/2020	0.147	0.100	0.00%	0.158	Yes	
147	01/12/2020	C6 – A57097	BU 31	F		16	14.5									N	32.5	Yes			03/12/2020	0.102	0.500	388.33%	0.790	Yes	
148	01/12/2020	C6 – A57097	BS 33	F		14	13	16.50	1.50							N	35	Yes			03/12/2020	0.101	0.300	195.68%	0.474	Yes	
149	01/12/2020	C6 – A57097	BW 33	F		14	12.5	28.50	2.00							Y	55	Yes			10/12/2020	0.138	0.100	0.00%	0.158	Yes	
150	01/12/2020	C6 XP2 – A57221	AG 41	G		18	17	38.00	4.00							Y	60	Yes			16/12/2020	0.158	0.100	0.00%	0.158	Yes	1.trace of coal 19.5 trace of coal 27.5 2.38m to 42m dark shale coal /grout
151	01/12/2020	C6 XP2 – A57221	AL 41	G		18	17	22.50	1.50	33.5	4.50					Y	50	Yes			02/12/2020	0.139	0.100	0.00%	0.158	Yes	22.5/24.0 d/shale trace of coal. 33.5/38.0 d/shale trace of coal.
152	01/12/2020	C6 XP2 – A57221	AT 33	E		16	15	26.00	4.00							Y	39	Yes			10/12/2020	0.114	0.100	0.00%	0.158	Yes	
153	01/12/2020	C6 XP2 – A57221	AR 41	G		18	17	28.00	5.00							Y	50	Yes			16/12/2020	0.139	0.100	0.00%	0.158	Yes	1. Trace of coal at 18.5m and 46m
154	01/12/2020	C6 XP2 – A57221	AV 41	G		16	15.5	21.50	5.50							Y	50	Yes			16/12/2020	0.134	0.100	0.00%	0.158	Yes	1.trace of coal at 21.5 to 27m
155	01/12/2020	C6 XP – A57217	CL 09	B		16	14	22.00	2.00							Y	40	Yes			02/12/2020	0.116	1.000	762.41%	1.580	Yes	Started hole on Friday Hole still to be finished stopped by filter due to hydraulic pump got up and running for 10.30 today 01/12/20
156	01/12/2020	C6 XP – A57217	CC 05	B		16	14									N	58	Yes			03/12/2020	0.149	0.300	102.01%	0.474	Yes	
158	01/12/2020	C6 XP – A57217	CE 05	B		16	14	32.00	3.00							N	58	Yes			03/12/2020	0.149	0.300	102.01%	0.474	Yes	
159	02/12/2020	C6 – A57097	CA 33	F		14	12.5									N	26.5	Yes			03/12/2020	0.086	0.300	248.49%	0.474	Yes	
160	02/12/2020	C6 – A57097	CE 33	F		14	12.5									N	23	Yes			03/12/2020	0.080	0.500	526.91%	0.790	Yes	
161	02/12/2020	C6 – A57097	CC 35	F		14	12.5									N	24	Yes			10/12/2020	0.082	0.200	145.20%	0.316	Yes	
162	02/12/2020	C6 – A57097	CA 35	F		14	12.5									N	27	Yes			03/12/2020	0.087	0.400	359.82%	0.632	Yes	
163	02/12/2020	C6 – A57097	BY 35			14	12									N	28	Yes			03/12/2020	0.089	0.400	350.45%	0.632	Yes	
164	02/12/2020	C6 – A57097	BW 35	F		14	12	30.00	1.50							N	60	Yes			05/11/2021	0.147	0.200	36.36%	0.316	Yes	
165	02/12/2020	C6 – A57097	BU 35	F		14	12	14.00	1.00							N	31.5	Yes			03/12/2020	0.095	0.550	478.16%	0.869	Yes	
166	02/12/2020	C6 – A57097	BS 35	F		14	13	17.00	2.00							N	35	Yes			03/12/2020	0.101	0.400	294.25%	0.632	Yes	
167	02/12/2020	C6 XP2 – A57221	AZ 41	G		16	15.5	21.00	4.00							N	38	Yes			04/12/2020	0.112	0.200	78.04%	0.316	Yes	1. 21 to 25 trace of coal 2.did not reach required depth of 50m
168	02/12/2020	C6 XP2 – A57221	AZ 39	G		16	15	20.00	4.00							N	37	Yes			04/12/2020	0.111	0.500	352.37%	0.790	Yes	1. 20 to 24m trace of coal 2. Did not reach required depth of 40m
169	02/12/2020	C6 XP2 – A57221	BB 39	G		16	15.5	18.50	3.50							N	35	Yes			04/12/2020	0.107	2.700	2425.47%	4.266	Yes	1. Trace of coal 18.5 to 22m 2. Did not reach required depth of 40m
170	02/12/2020	C6 XP2 – A57221	AX 39	G		16	15	18.00	2.00	22	4.00					Y	40	Yes			15/12/2020	0.116	0.500	331.21%	0.790	Yes	1. Trace of coal at 18 to 20m and 22 to 26m
171	02/12/2020	C6 XP2 – A57221	AV 39	G		16	15	20.00	2.00	24	4.00					N	41	Yes			15/12/2020	0.118	0.500	324.58%	0.790	Yes	1. Trace of coal at 20 to 22m and 24 to 28
172	02/12/2020	C6 XP – A57217	CK 05	B		16	14									N	40	Yes			03/12/2020	0.116	0.300	158.72%	0.474	Yes	
173	02/12/2020	C6 XP – A57217	CN 05	B		14	13									Y	40	Yes			03/12/2020	0.111	0.600	442.97%	0.948	Yes	
174	02/12/2020																										

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register														Total Tonnage Used						
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1										
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021						551.49					
Project Engineer:				Oliver Partington		Form Completed By:				OP																	
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments		
								Seam 1	Seam 2	Seam 3	Seam 4																
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
189	03/12/2020	C6 – A57097	BU 39	F		16	14.5	31.50	1.50							N	60		07/12/2020	0.152	0.800	425.88%	1.264	Yes			
190	03/12/2020	C6 XP – A57217	CJ 11	B		14	13	29.00	4.00	51	1.00					N	43		03/12/2020	0.116	0.300	158.78%	0.474	Yes			
191	03/12/2020	C6 XP – A57217	CG 11	B		14	13									Y	40		28/01/2021	0.111	0.100	0.00%	0.158	Yes	15-21 soft like noting there but I got a full water return it didn't change colour for the sandstone		
192	03/12/2020	C6 XP – A57217	CN 07	B		14	13	24.00	2.00							Y	40		08/12/2020	0.111	0.100	0.00%	0.158	Yes			
193	03/12/2020	C6 XP – A57217	CJ 07	B		16	14									N	42		10/12/2020	0.120	1.000	736.32%	1.580	Yes			
194	03/12/2020	C6 XP – A57216	AZ 05	A		18	17	25.00	1.00							N	43		08/12/2020	0.127	0.500	294.23%	0.790	Yes			
195	03/12/2020	C6 XP – A57216	BD 05	A		18	16									N	22		08/12/2020	0.089	1.850	1982.17%	2.923	Yes			
196	03/12/2020	C6 XP – A57216	BH 05	A		16	15									N	34		11/01/2021	0.105	0.400	280.58%	0.632	Yes			
197	03/12/2020	C6 XP – A57216	BM 05	A		16	15	27.00	2.00							Y	42		08/12/2020	0.120	0.200	67.26%	0.316	Yes			
198	03/12/2020	C6 XP2 – A57221	AT 39	G		16	15	26.00	4.00							N	43.5		04/12/2020	0.122	0.500	308.88%	0.790	Yes			
199	03/12/2020	C6 XP2 – A57221	AR 39	G		16	15	28.00	4.00							Y	60		10/12/2020	0.152	0.100	0.00%	0.158	Yes			
200	03/12/2020	C6 XP2 – A57221	AN 39	G		17	16.5	32.00	3.00							Y	40		10/12/2020	0.119	0.100	0.00%	0.158	Yes	1. Trace of coal at 25m		
201	03/12/2020	C6 – A57096	AZ 21	C		16	15.5	17.00	0.50	17.5	5.50	29.00	0.50			Y	60		08/12/2020	0.152	0.100	0.00%	0.158	Yes			
202	03/12/2020	C6 – A57096	AZ 19	C		16	14	19.00	1.00							N	30		07/12/2020	0.098	1.300	1228.33%	2.054	Yes	Lost water didn't reach target depth		
203	03/12/2020	C6 – A57096	AR 17	C		16	14									Y	39		04/12/2020	0.114	0.500	338.04%	0.790	Yes			
204	03/12/2020	C6 – A57096	AV 17	C		16	14.5	17.00	6.00	33	0.50					N	39		04/12/2020	0.120	0.500	318.16%	0.790	Yes	Coal17m 23m fractured		
205	03/12/2020	C6 – A57096	AZ 17	C		16	14.5	16.50	6.00							N	28.5		11/01/2021	0.095	0.350	267.82%	0.553	Yes	Lost water didn't reach depth		
206	03/12/2020	C6 – A57096	AV 11	A		18	16.5	31.00	1.00							N	48.5		08/12/2020	0.137	3.100	2166.44%	4.898	Yes	Lost water didn't reach target depth		
207	03/12/2020	C6 – A57096	AX 11	A		18	16.5									N	30		07/12/2020	0.103	4.900	4642.61%	7.742	Yes	Didnt reach target depth lost water		
208	03/12/2020	C6 – A57096	AZ 11	A		16	15.5	19.00	0.50							N	27.5		07/12/2020	0.093	3.000	3113.85%	4.740	Yes	Didnt reach target depth lost water		
209	04/12/2020	C6 XP – A57216	BS 05	A		16	15									N	26		04/12/2020	0.091	0.800	782.68%	1.264	Yes			
210	04/12/2020	C6 XP – A57216	BW 05	B		16	14									N	20		14/12/2020	0.080	0.300	276.03%	0.474	Yes			
211	04/12/2020	C6 XP – A57216	BL 04	A		16	14									N	30		10/12/2020	0.098	1.500	1432.68%	2.370	Yes			
212	04/12/2020	C6 XP – A57216	AV 31	E		16	15	17.00	2.00	22	2.00					N	39		08/12/2020	0.114	0.400	250.43%	0.632	Yes			
213	04/12/2020	C6 XP – A57216	BS 39	F		14	12.5	17.00	1.00	35	1.00					Y	45		10/12/2020	0.120	0.100	0.00%	0.158	Yes			
214	04/12/2020	C6 – A57097	BP 39	F		14	12.5	22.00	1.00							N	38		07/12/2020	0.107	1.300	1116.25%	2.054	Yes			
215	04/12/2020	C6 – A57097	BM 39	F		16	14									N	26		07/12/2020	0.091	3.800	4092.74%	6.004	Yes			
217	04/12/2020	C6 XP – A57217	CG 07	B		14	13	29.00	2.50	55.5	2.50					Y	60		08/12/2020	0.147	0.100	0.00%	0.158	Yes			
218	04/12/2020	C6 XP – A57217	CC 07	B		14	13	26.00	2.00	35	2.00					Y	40		08/12/2020	0.111	0.100	0.00%	0.158	Yes			
219	04/12/2020	C6 XP – A57217	CA 07	B		17	16	25.00	2.00	35	2.00					Y	40		08/12/2020	0.119	0.100	0.00%	0.158	Yes			
220	04/12/2020	C6 XP2 – A57221	AL 39	G		18	17	33.50	2.50							Y	40		10/12/2020	0.121	0.100	0.00%	0.158	Yes	1. Trace of coal 22.5m		
221	04/12/2020	C6 XP2 – A57221	AJ 39	G		18	17	38.00	2.00							Y	41		10/12/2020	0.123	0.100	0.00%	0.158	Yes	1. Trace of coal 25m		
222	04/12/2020	C6 XP2 – A57221	AG 39	G		18	17	38.00	3.00							Y	60		10/12/2020	0.158	0.100	0.00%	0.158	Yes	1. Trace of coal at 27m and 53m		
223	04/12/2020	C6 – A57096	BB 11	A		16	14.5	17.00	0.50							N	27		07/12/2020	0.092	2.800	2928.94%	4.424	Yes	Lost water didn't reach target depth		
224	04/12/2020	C6 – A57096	BD 11	A		16	14.5	22.50	0.50							N	38		08/12/2020	0.112	0.700	523.13%	1.106	Yes	Lost water didn't reach target depth		
225	04/12/2020	C6 – A57096	BF 11	A		16	14									N	20.5		08/12/2020	0.081	1.200	1387.26%	1.896	Yes	Lost water didn't reach target depth		
226	04/12/2020	C6 – A57096	AL 33	E		14	13.5									N	60		07/12/2020	0.147	0.100	0.00%	0.158	Yes			
227	07/12/2020	C6 XP – A57216	AZ 31	E		16	15	17.00	3.00							N	34		08/12/2020	0.105	0.700	566.02%	1.106	Yes	Possible parted casings		
228	07/12/2020	C6 XP – A57216	BF 31	E		14	13									N	28		08/12/2020	0.089	1.200	1251.36%	1.896	Yes			
229	07/12/2020	C6 XP – A57216	BB 31	E		16	14	16.00	2.00							N	47		08/12/2020	0.129	1.000	677.52%	1.580	Yes	Possible grout from 30m to 32m		
230	07/12/2020	C6 XP – A57216	BH 31	E		14	13									N	26		08/12/2020	0.085	4.500	5182.81%	7.110	Yes			
231	07/12/2020	C6 XP – A57216	AT 31	E		16	15	20.00	2.00	25	2.00					N	40		08/12/2020	0.116	0.300	158.72%	0.474	Yes			
232	07/12/2020	C6 XP – A57217	CR 07	B		12	11	24.00	2.50							N	60		10/12/2020	0.141	2.100	1386.99%	3.318	Yes			
233	07/12/2020	C6 XP – A57217	CL 15	B		12	11	29.00	2.00							N	41		12/01/2021	0.107	0.250	133.95%	0.395	Yes			
234	07/12/2020	C6 XP – A57217	CJ 15	B		13	12									N	42		11/01/2021	0.111	0.300	169.31%	0.474	Yes	13-21 soft no resistance with full water return could be grout		
235	07/12/2020	C6 XP – A57217	CG 15	B		14	13	37.00	2.00							Y	40		18/01/2021	0.111	0.200	80.99%	0.316	Yes			
236	07/12/2020	C6 XP2 – A57221	AE 39	G		18	16.5	41.00	3.00							Y	45		07/12/2020	0.130	0.100	0.00%	0.158	Yes			
237	07/12/2020	C6 XP2 – A57221	AC 43	G		18	17.5	31.50	1.50							N	60		07								

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register														Total Tonnage Used				
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1								
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021					551.49				
Project Engineer:				Oliver Partington		Form Completed By:				OP															
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)					Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments	
						Seam 1		Seam 2		Seam 3		Seam 4													
						Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
254	08/12/2020	C6 XP – A57217	CN 15	B		11	10	26.00	1.00					N	40	Yes		10/12/2020	0.102	1.500	1365.90%	2.370	Yes		
255	08/12/2020	C6 XP2 – A57221	AJ 43	G		18	17.5	24.00	2.00	37	4.00			Y	60	Yes		08/12/2020	0.158	0.100	0.00%	0.158	Yes	Aj43 drilled from ak41 at 6 degrees.	
256	08/12/2020	C6 XP2 – A57221	AL 43	G		18	17.5	34.00	3.00					Y	52	Yes		08/12/2020	0.143	0.100	0.00%	0.158	Yes		
257	08/12/2020	C6 XP2 – A57221	AN 43	G		18	16.5	31.00	4.00					Y	52	Yes		08/12/2020	0.143	0.100	0.00%	0.158	Yes	Trace of coal 27.5m An43 drilled fromap41 at6%	
258	08/12/2020	C6 XP2 – A57221	AR 43	G		18	17	30.00	4.00					N	48	Yes		14/12/2020	0.136	0.200	47.20%	0.316	Yes	Trace of coal at 28 meters Ar43 drilled from as41 at 5%	
259	08/12/2020	C6 XP – A57216	AN 31	E		14	13	15.00	1.00	17	1.00	27.00	2.00	31.00	2.00	Y	44	Yes	08/12/2020	0.118	0.100	0.00%	0.158	Yes	44-45 coal/shale. 45-60 sandstone. FWR
260	08/12/2020	C6 XP – A57216	AL 31	E		16	15	18.00	2.00	32	2.00	36.00	1.00			Y	42	Yes	08/12/2020	0.120	0.200	67.26%	0.316	Yes	
261	08/12/2020	C6 XP – A57216	AJ 29	E		14	13	21.00	2.00	38	1.00					Y	39	Yes	08/12/2020	0.109	0.100	0.00%	0.158	Yes	
262	08/12/2020	C6 XP – A57216	AL 29	E		14	13	17.00	2.00	26	1.00	37.00	1.00			Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
263	09/12/2020	C6 XP – A57216	AR 29	E		14	13	15.00	1.00	21	1.00	31.00	1.00	0.00	14.00	Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
264	09/12/2020	C6 XP – A57216	AV 29	E		14	13	16.00	0.00	22	3.00	36.00	1.00			Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
266	09/12/2020	C6 XP – A57216	AV 27	E		14	13	19.00	3.00	24	2.00	35.00	1.00			Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
267	09/12/2020	C6 XP – A57216	AT 27	E		14	13	19.00	3.00	24	1.00	36.00	1.00			Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
268	09/12/2020	C6 XP – A57216	AX 27	E		16	14	19.00	3.00	32	1.00					Y	42	Yes	10/12/2020	0.120	0.100	0.00%	0.158	Yes	
269	09/12/2020	C6 XP2 – A57221	AT 43	G		18	16	26.00	4.00					N	52	Yes		10/12/2020	0.143	0.100	0.00%	0.158	Yes	At43 drilled from av41 at 6 degrees	
270	09/12/2020	C6 XP2 – A57221	AV 43	G		18	16	25.00	4.00					Y	52	Yes		10/12/2020	0.143	0.100	0.00%	0.158	Yes	Av43 drilled from aw41 at 6 degrees.	
271	09/12/2020	C6 – A57097	BH 39	F		14	12	26.00	1.00	42	2.00			Y	45	Yes		10/12/2020	0.120	0.200	67.30%	0.316	Yes		
272	09/12/2020	C6 – A57097	BM 39R	F		16	14							N	36	Yes			0.109				Yes		
273	09/12/2020	C6 – A57097	BW 39R	F		14	12.5							Y	42	Yes			0.114				Yes		
274	09/12/2020	C6 – A57097	BY 39R	F		14	13							Y	42	Yes			0.114				Yes		
275	09/12/2020	C6 – A57097	CA 35R	F		14	12.5							Y	42	Yes			0.114				Yes		
276	09/12/2020	C6 XP – A57217	CN 09	B		11	10	24.00	2.00					N	38	Yes		10/12/2020	0.099	2.100	2027.46%	3.318	Yes		
277	09/12/2020	C6 XP – A57217	CJ 09	B		13	12	25.00	1.00					N	42	Yes		10/12/2020	0.111	1.500	1246.56%	2.370	Yes		
278	09/12/2020	C6 XP – A57217	CE 09	B		15	14	24.00	1.00	38	3.00			Y	50	Yes		10/12/2020	0.131	0.100	0.00%	0.158	Yes		
279	09/12/2020	C6 XP – A57217	CA 09	B		13	12							N	40	Yes		14/12/2020	0.108	0.200	85.57%	0.316	Yes	16-22 soft no water return could possibly be grout	
280	09/12/2020	C6 – A57096	AN 35	E		16	14	29.00	1.50					N	45	Yes		10/12/2020	0.125	0.100	0.00%	0.158	Yes	Lost water didn't reach target depth	
281	09/12/2020	C6 – A57096	AL 35	E		16	14	34.00	1.00					Y	60	Yes		10/12/2020	0.152	0.200	31.47%	0.316	Yes		
282	09/12/2020	C6 – A57096	AJ 35	E		14	13.5							Y	42	Yes		10/12/2020	0.114	0.100	0.00%	0.158	Yes	Possible grout 30m to 32m	
283	09/12/2020	C6 – A57096	AG 35	E		14	13.5	38.00	1.00					Y	42	Yes		10/12/2020	0.114	0.100	0.00%	0.158	Yes		
284	09/12/2020	C6 – A57096	AB 45	G		18	17							N	59.5	Yes		14/12/2020	0.157	0.500	219.14%	0.790	Yes	Lost water didn't reach target depth and ab45 10degrees of ad41	
285	10/12/2020	C6 – A57097	BY 35R			14	12							N	42	Yes			0.114				Yes		
286	10/12/2020	C6 – A57097	CA 33R	F		14	12							Y	42	Yes			0.114				Yes		
287	10/12/2020	C6 – A57097	BU 33R	F		14	12							N	42	Yes			0.114				Yes		
288	10/12/2020	C6 – A57097	BS 33R	F		14	12							Y	42	Yes			0.114				Yes		
289	10/12/2020	C6 – A57097	BP 35R	F		14	12							Y	50	Yes			0.129				Yes		
290	10/12/2020	C6 – A57097	BM 43	F		14	13.5							N	24	Yes		10/12/2020	0.082	0.100	22.60%	0.158	Yes		
291	10/12/2020	C6 – A57097	BP 43	F		14	12.5	38.00	2.00					N	42	Yes		11/12/2020	0.114	0.100	0.00%	0.158	Yes		
292	10/12/2020	C6 – A57097	CC 35R	F		14	12.5							N	42	Yes			0.114				Yes		
293	10/12/2020	C6 – A57097	BU 43	F		14	12.5	16.00	1.00					N	34	Yes		11/12/2020	0.100	1.500	1405.25%	2.370	Yes		
294	10/12/2020	C6 XP – A57216	AR 27	E		14	13	15.00	1.00	28	3.00	37.00	1.00			Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
295	10/12/2020	C6 XP – A57216	AN 27	E		14	13	16.00	1.00	29	2.00	35.00	0.00	0.00	14.00	Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
296	10/12/2020	C6 XP – A57216	AL 27	E		14	13	18.00	2.00	27	2.00	31.00	2.00	38.00	0.00	Y	42	Yes	10/12/2020	0.114	0.100	0.00%	0.158	Yes	
297	10/12/2020	C6 XP – A57216	AG 33	E		16	15	23.00	2.00	30	2.00	34.00	2.00	39.00	1.00	Y	60	Yes	10/12/2020	0.152	0.200	31.47%	0.316	Yes	Part lost water in coal seam at 40m. Hard ground/sandstone the rest of the way
298	10/12/2020	C6 XP2 – A57221	AX 43	G		18	17	23.00	3.00					Y	60	Yes		16/12/2020	0.158	0.100	0.00%	0.158	Yes	Trace of coal 37. Trace of coal 53. Ax43 drilled from ay41 at 6 degrees.	
299	10/12/2020	C6 XP2 – A57221	AZ 40	G		16	15	20.00	4.00	49	2.00			Y	52	Yes		10/12/2020	0.138	0.100	0.00%	0.158	Yes	Az40 drilled postion.	
300	10/12/2020	C6 XP2 – A57221	AZ 43	G		18	17	21.00	3.50					Y	52	Yes		10/12/2020	0.143	0.100	0.00%	0.158	Yes	Az43 drilled from ba41 at 6 degrees. Trace of coal 35 m. Trace of coal 50m	
301	10/12/2020	C6 XP2 – A57221	AZ 45	G		18	17.5	23.50	3.50					Y	51	Yes		10/12/2020	0.141	0.100	0.00%	0.158	Yes	AZ45 drilled from BB41 at 12 degrees . Trace of coal 50m	
302	10/12/2020	C6 – A57096	AC 45	G		19	17.5	20.50	0.50					Y	62	Yes		10/12/2020	0.164	0.100	0.00%	0.158	Yes	Possible coal at 20.5 to 21 and ac45 marked 10 degrees of ae45	
303	10/12/2020	C6 – A57096	AE 45	G		17	16	30.00	0.50	</															

Cementation				Contract:	Co-Op Live Arena	Old Mine Workings - BH Register														Total Tonnage Used									
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1												
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021						551.49							
Project Engineer:				Oliver Partington		Form Completed By:				OP																			
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments				
								Seam 1		Seam 2		Seam 3		Seam 4															
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile														
318	11/12/2020	C6 XP2 – A57221	BF 31R	E		14	13									N	44	Yes		0.118				Yes					
319	11/12/2020	C6 XP – A57216	AZ 19R	C		16	14									N	44	Yes		0.123				Yes					
320	11/12/2020	C6 XP – A57216	AZ 07	A		18	17	24.00	1.00							N	42	Yes	15/12/2020	0.125	4.800	3739.32%	7.584	Yes					
321	11/12/2020	C6 XP – A57216	BB 07	A		18	16									N	25	Yes	14/12/2020	0.094	0.500	430.36%	0.790	Yes					
322	11/12/2020	C6 XP – A57216	BF 07	A		14	13									N	35	Yes	14/12/2020	0.101	0.500	392.81%	0.790	Yes	Water was trying to return up until 32m then completely lost it				
323	11/12/2020	C6 XP – A57217	BU 07	B		13	12									N	23	Yes	08/01/2021	0.077	0.500	549.09%	0.790	Yes					
324	11/12/2020	C6 XP – A57217	BW 07	B		15	13									N	55	Yes	14/12/2020	0.140	0.300	113.74%	0.474	Yes					
325	11/12/2020	C6 XP – A57217	BU 05R	B		16	14.5	49.00	3.00							Y	55	Yes		0.143				Yes					
326	11/12/2020	C6 – A57096	AN 45	G		18	16.5									Y	51	Yes	11/12/2020	0.141	0.100	0.00%	0.158	Yes	An45 12 degrees off ar41				
327	11/12/2020	C6 – A57096	AR 45	G		18	16.5	19.00	0.30							Y	51	Yes	11/12/2020	0.141	0.100	0.00%	0.158	Yes	Ar45 12 degrees of at41				
328	11/12/2020	C6 – A57096	AC 41	G		18	17	23.00	1.00							N	58.5	Yes	14/12/2020	0.155	0.500	222.86%	0.790	Yes	Lost water didn't reach target depth. Ac41 7 degrees of ae41				
329	11/12/2020	C6 – A57096	AG 45	G		18	16.5	19.00	0.50							N	61	Yes	15/12/2020	0.159	0.500	213.70%	0.790	Yes	Ag45 10 degrees off aj41				
330	12/12/2020	C6 – A57096	AA 45	G		18	17.5									N	59	Yes	14/12/2020	0.156	0.500	220.99%	0.790	Yes	Lost water didn't reach target depth. aa45 13 degrees off ar41				
331	12/12/2020	C6 – A57096	AT 15	C		18	16.5	21.00	1.50	34	1.00					Y	42	Yes	14/12/2020	0.125	0.100	0.00%	0.158	Yes					
332	12/12/2020	C6 – A57096	AV 15	C		16	15	22.00	2.00							Y	42	Yes	14/12/2020	0.120	0.100	0.00%	0.158	Yes					
333	12/12/2020	C6 – A57097	BY 25R	D		14	0									Y	42	Yes		0.114				Yes					
334	14/12/2020	C6 XP – A57216	BH 07	A		16	15	16.00	1.00							N	33	Yes	14/12/2021	0.103	0.500	384.06%	0.790	Yes					
335	14/12/2020	C6 XP – A57216	BM 07	A		16	15	25.00	2.00							Y	45	Yes	18/01/2021	0.125	0.200	60.00%	0.316	Yes					
336	14/12/2020	C6 XP – A57216	BP 07	A		16	15									N	27	Yes	16/12/2020	0.092	1.800	1847.18%	2.844	Yes					
337	14/12/2020	C6 XP – A57216	AV 07	G		20	18	20.00	0.00	30	1.00	36.00	1.00			Y	45	Yes	14/12/2020	0.136	0.100	0.00%	0.158	Yes	Drilled from AX07 at 9 degree angle.Trace of coal at 20m straight after casing depth				
338	14/12/2020	C6 XP – A57216	AV 09	G		18	17	19.00	1.00							N	49	Yes	15/12/2020	0.138	4.800	3386.28%	7.584	Yes					
339	14/12/2020	C6 – A57096	AX 15	C		16	14.5	17.00	0.50							N	30.5	Yes	14/12/2020	0.099	0.400	304.97%	0.632	Yes	Lost water didn't reach target depth				
340	14/12/2020	C6 – A57096	AZ 15	C		16	14.5	17.00	2.00							N	29	Yes	14/12/2020	0.096	0.700	628.72%	1.106	Yes	Lost water didn't reach target depth				
341	14/12/2020	C6 – A57096	BB 15	C		16	14.5	16.50	1.00							N	27.5	Yes	14/12/2020	0.093	0.300	221.39%	0.474	Yes	Lost water didn't reach target depth				
342	14/12/2020	C6 – A57096	AL 25	C		16	14	19.00	1.00	31	1.00					Y	39	Yes	14/12/2020	0.114	0.100	0.00%	0.158	Yes					
343	14/12/2020	C6 – A57096	AV 25	C		16	14.5	22.00	0.50							Y	39	Yes	17/12/2020	0.114	0.100	0.00%	0.158	Yes					
344	14/12/2020	C6 – A57096	AX 28	E		16	14.5	21.00	1.50							N	35	Yes	16/12/2020	0.107	3.350	3033.46%	5.293	Yes	Lost water didn't reach target depth				
345	14/12/2020	C6 XP – A57217	BP 05R	A		16	14.5									N	55	Yes		0.143				Yes					
346	14/12/2020	C6 XP – A57217	BP 03R	A		14	13.5									N	55	Yes		0.138				Yes					
347	14/12/2020	C6 XP – A57217	BU 09R	B		16	14									N	46	Yes		0.127				Yes					
348	14/12/2020	C6 XP – A57217	CR 13	B		12	10	26.00	1.00							N	42	Yes	17/12/2020	0.109	0.200	84.04%	0.316	Yes	9.5 degree angle from CN13				
349	14/12/2020	C6 – A57097	CG 25R	D		14	13.5									Y	42	Yes		0.114				Yes					
350	14/12/2020	C6 – A57097	CC 25R	D		14	125									Y	42	Yes		0.114				Yes					
351	14/12/2020	C6 – A57097	BD 39	G		16	14.5	19.00	2.00							Y	43	Yes	14/12/2020	0.121	0.100	0.00%	0.158	Yes	Drilled 10 meters back off BD 39 at 13.5 degrees .				
352	14/12/2020	C6 – A57097	BD 41	G		14	13	20.00	2.00							Y	43	Yes	14/12/2020	0.116	0.100	0.00%	0.158	Yes					
354	14/12/2020	C6 – A57097	BB 43	G		16	15	19.00	3.00							N	36	Yes	15/12/2020	0.109	1.350	1141.73%	2.133	Yes	Drilled at 15 degrees				
355	14/12/2020	C6 XP2 – A57221	BH 31R	E		14	13									N	43	Yes		0.116				Yes					
356	14/12/2020	C6 XP2 – A57221	BD 31R	E		16.5	13									N	42	Yes		0.121				Yes					
357	14/12/2020	C6 XP2 – A57221	BD 35R	E		16	14.5									Y	42	Yes		0.120				Yes					
358	14/12/2020	C6 XP2 – A57221	BB 35R	E		16	14.5									Y	42	Yes		0.120				Yes					
359	14/12/2020	C6 XP2 – A57221	BY 27	D		16	14	25.50	3.50							Y	42	Yes	14/12/2020	0.120	0.100	0.00%	0.158	Yes					
360	15/12/2020	C6 – A57097	AT 45	G		16	14									N	45	Yes	15/12/2020	0.125	0.500	300.01%	0.790	Yes					
361	15/12/2020	C6 – A57097	BF 35	E		14	12.5	15.00	3.00							Y	42	Yes	15/12/2020	0.114	0.100	0.00%	0.158	Yes	Drilled at 9 degrees				
363	15/12/2020	C6 – A57097	BM 35R	F		16	14									N	41	Yes		0.118				Yes					
364	15/12/2020	C6 – A57097	BU 41R	F		16	1.5									Y	42	Yes		0.120				Yes					
365	15/12/2020	C6 – A57097	BW 37	F		14	13									N	42	Yes	16/12/2020	0.114	1.000	776.27%	1.580	Yes					
366	15/12/2020	C6 – A57096	AW 31	E		16	14	21.50	1.50							N	37.5	Yes	15/12/2020	0.111	2.500	2143.51%	3.950	Yes	Lost water didn't reach target depth				
367	15/12/2020	C6 – A57096	AW 33	E		16	14.5	22.00	1.00							Y	42	Yes	15/12/2020	0.120	0.100	0.00%	0.158	Yes					
368	15/12/2020	C6 – A57096	BW 38	F		16	14.5	23.00	1.00							Y	42	Yes	12/01/2021	0.120	0.100	0.00%	0.158	Yes					
369	15/12/2020	C6 – A57096	AW 40	G		16	14.5	23.00	1.00							Y	42	Yes	15/12/2020	0.120	0.100	0.00%	0.158	Yes					
370	15/12/2020	C6 – A57096	BA 39	G		16	14.5	19.00	1.00	34	0.50					Y	42	Yes	15/12/2020	0.120	0.100								

Cementation				Contract:	Co-Op Live Arena			Old Mine Workings - BH Register														Total Tonnage Used								
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting							Revision Number:		1																
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01							Date:		24-02-2021					551.49												
Project Engineer:				Oliver Partington		Form Completed By:			OP																					
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments					
								Seam 1		Seam 2		Seam 3		Seam 4																
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile															
387	15/12/2020	C6 XP – A57217	CA 25	D		14	12		20.00	3.00	39	2.00				Y	42	Yes		15/12/2020	0.114	0.100	0.00%	0.158	Yes					
388	16/12/2020	C6 – A57097	CC 37	F		14	12.5									N	25	Yes		16/12/2020	0.083	1.900	2178.91%	3.002	Yes					
389	16/12/2020	C6 – A57097	CA 37	F		14	12.5									Y	42	Yes		16/12/2020	0.114	0.100	0.00%	0.158	Yes					
390	16/12/2020	C6 – A57097	BS 35R	F		14	13									Y	42	Yes			0.114				Yes					
391	16/12/2020	C6 – A57097	BF 43	F		16	14									N	31	Yes		16/12/2020	0.100	4.000	3913.00%	6.320	Yes	Drilled at 15 degrees off bj40				
392	16/12/2020	C6 – A57097	BD 45	F		16	14									N	33	Yes		16/12/2020	0.103	1.800	1642.61%	2.844	Yes	Drilled at 23 degrees off bj 40				
393	16/12/2020	C6 – A57097	BF 41	F		14	13									N	32	Yes		17/12/2020	0.096	1.500	1461.95%	2.370	Yes	Drilled at 8 degrees from bh 40				
394	16/12/2020	C6 – A57097	BH 37	F		14	12.5	26.00	1.00	42	2.00					Y	45	Yes		16/12/2020	0.120	0.100	0.00%	0.158	Yes	Drilled at 5 degrees from bj37				
395	16/12/2020	C6 XP2 – A57221	CL 27	D		14	13.5									Y	42	Yes		16/12/2020	0.114	0.100	0.00%	0.158	Yes	Trace of coal 22.Trace of coal 34				
396	16/12/2020	C6 XP2 – A57221	CJ 25	D		14	13.5	14.50	1.50							Y	42	Yes		16/12/2020	0.114	0.100	0.00%	0.158	Yes	Trace of coal 35				
397	16/12/2020	C6 XP2 – A57221	CJ 31	D		14	13.5	14.50	2.00							Y	42	Yes		16/12/2020	0.114	0.100	0.00%	0.158	Yes	Trace of coal 36m.				
398	16/12/2020	C6 XP2 – A57221	CL 31	D		14	13.5	14.50	1.50	36	6.00					Y	42	Yes		16/12/2020	0.114	0.100	0.00%	0.158	Yes	CL31 drilled from CJ31 at 9.5 degrees.				
399	16/12/2020	C6 XP2 – A57221	CJ 29	D		14	13.5	14.00	1.50							Y	42	Yes		14/01/2021	0.114	0.300	162.88%	0.474	Yes	Trace of coal at 35m				
401	16/12/2020	C6 – A57096	BF 37	F		16	15	16.50	3.00	30.5	0.50					N	47.5	Yes		16/12/2020	0.130	1.000	672.09%	1.580	Yes	Bf37 14 degrees of bc37				
402	16/12/2020	C6 – A57096	BH 33	F		16	14	28.00	0.50							N	43.5	Yes		17/12/2020	0.122	0.700	472.44%	1.106	Yes	Lost water didn't reach target depth and bh33 9 degrees off bf 33				
403	16/12/2020	C6 – A57096	BK 31	F		16	15.5	25.00	0.50							Y	45	Yes		17/12/2020	0.125	0.400	220.01%	0.632	Yes	Bk31 19 degrees of bf31				
404	16/12/2020	C6 – A57096	BA 37	G		16	14	18.50	1.50							N	50	Yes		05/01/2021	0.134	0.300	123.81%	0.474	Yes					
405	16/12/2020	C6 XP – A57217	CN 19	D		11	10	20.00	2.00	27	1.00					N	42	Yes		17/12/2020	0.106	0.100	0.00%	0.158	Yes	CN 19 is a 9.5 degree angle from CL19				
406	16/12/2020	C6 XP – A57216	BB 01	A		18	17	24.00	2.00							N	41	Yes		16/12/2020	0.123	1.600	1198.56%	2.528	Yes	Drilled from BA03 at a 6.5 degree angle				
407	16/12/2020	C6 XP – A57216	BD 01	A		18	17	21.00	1.00							N	38	Yes		16/12/2020	0.118	2.000	1597.97%	3.160	Yes	Drilled from BC03 at a 6.5 degree angle				
408	16/12/2020	C6 XP – A57216	BH 01	A		18	16									N	34	Yes		06/01/2021	0.111	0.800	623.63%	1.264	Yes					
409	16/12/2020	C6 XP – A57216	BF 01	A		0	0									Y	0	Yes		26/01/2021	0.000	0.300	#DIV/0!	0.474	Yes	Hit obstruction at 6.5 m.Couldn't get past, pulled casing and cutting shoe is destroyed. Tried again 0.5 m away and hit same thing				
410	17/12/2020	C6 XP – A57216	BK 01	A		16	15									N	32	Yes		06/01/2021	0.101	0.800	688.30%	1.264	Yes	Drilled from BJ03 at a 6.5 degree angle				
411	17/12/2020	C6 XP – A57216	BM 01	A		16	15	27.00	2.00	42	0.00					Y	48	Yes		13/01/2021	0.130	0.200	53.35%	0.316	Yes					
412	17/12/2020	C6 XP – A57216	BP 01	A		16	15									N	28	Yes		08/01/2021	0.094	0.400	324.40%	0.632	Yes					
413	17/12/2020	C6 XP – A57216	BK 05R	A		16	14.5									N	45	Yes			0.125				Yes					
415	17/12/2020	C6 – A57096	AZ 36	G		16	13.5	19.00	2.00	32	0.50					Y	46	Yes		17/12/2020	0.127	0.100	0.00%	0.158	Yes					
416	17/12/2020	C6 – A57096	AN 36	G		16	14	18.00	1.00	31	1.00					N	46.5	Yes		17/12/2020	0.128	0.200	56.60%	0.316	Yes					
417	17/12/2020	C6 – A57096	AU 30	E		16	14	27.00	1.00							N	38.5	Yes		17/12/2020	0.113	0.900	694.77%	1.422	Yes	Lost water didn't reach target depth				
418	17/12/2020	C6 – A57096	BU 38	F		16	14	18.00	2.00							N	35	Yes		05/01/2021	0.107	0.300	180.61%	0.474	Yes	Lost water didn't reach target depth				
419	17/12/2020	C6 – A57096	BB 43R	G		16	15									Y	45	Yes			0.125				Yes					
420	17/12/2020	C6 – A57096	AU 38	G		16	14	18.00	2.00							N	35	Yes		17/12/2020	0.107	0.900	741.82%	1.422	Yes	Lost water didn't reach target depth				
421	17/12/2020	C6 XP2 – A57221	CL 29	D		14	13.5	14.00	1.50							Y	42	Yes		17/12/2020	0.114	0.100	0.00%	0.158	Yes	CL29 drilled from cj29 at 9 degrees. Trace of coal 34 m				
422	17/12/2020	C6 XP2 – A57221	CN 23	D		16	14	31.00	1.00							Y	42	Yes		17/12/2020	0.120	0.100	0.00%	0.158	Yes	Cn23 drilled from cl.23 at 9degrees.Trace of coal at 22m				
423	17/12/2020	C6 XP2 – A57221	CN 21	D		16	14	30.50	1.00							N	41	Yes		13/01/2021	0.118	0.400	239.67%	0.632	Yes	Cn21 drilled from CL21 at 9 degrees				
425	17/12/2020	C6 – A57097	BK 33	F		14	12.5	22.00	1.00							N	40	Yes		17/12/2020	0.111	0.200	80.99%	0.316	Yes	Drilled at 5 degrees from bl33				
426	16/12/2020	C6 – A57096	BK 31	F		16	15.5	25.00	0.50							Y	45	Yes		17/12/2020	0.125	0.400	220.01%	0.632	Yes	Bk31 19 degrees of bf31				
427	17/12/2020	C6 – A57097	BM 31	F		14	12	21.00	1.00	34	5.00					Y	43	Yes		17/12/2020	0.116	0.100	0.00%	0.158	Yes					
428	17/12/2020	C6 – A57097	BP 31	F		14	12.5	23.00	1.00	36	2.00					N	43	Yes		17/12/2020	0.116	0.100	0.00%	0.158	Yes					
429	17/12/2020	C6 – A57097	BW 42R	F		14	12.5									N	42	Yes			0.114				Yes					
430	17/12/2020	C6 – A57097	BU 43R	F		14	12.5									N	42	Yes			0.114				Yes					
431	17/12/2020	C6 – A57097	BK 39	F		16	11.5	23.00	1.00							N	41	Yes		11/12/2020	0.118	0.500	324.58%	0.790	Yes					
433	18/12/2020	C6 – A57096	AU 37	G		14	13.5	25.50	1.50							N	40.5	Yes		05/01/2021	0.111	0.250	124.40%	0.395	Yes	Lost water didn't reach target depth				
434	18/12/2020	C6 – A57097	CC 41R	F		14	0									N	42	Yes			0.114				Yes					
435	18/12/2020	C6 XP2 – A57221	CR 15	B		16	14									N	37	Yes		12/01/2021	0.111	0.450	307.14%	0.711	Yes	CR15 drilled from CN15 at 9 degrees				
436	04/01/2021	C6 XP – A57217	AX 11R	A		15	14									N	45	Yes			0.122				Yes					
437	04/01/2021	C6 XP – A57217	AZ 11R	A		15	14									Y	45	Yes			0.122				Yes	</				

Cementation				Contract:	Co-Op Live Arena			Old Mine Workings - BH Register															Total Tonnage Used					
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1											
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01															Date:		24-02-2021					551.49		
Project Engineer:				Oliver Partington		Form Completed By:				OP																		
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments			
								Seam 1		Seam 2		Seam 3		Seam 4														
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile													
458	05/01/2021	C6 – A57096	BS 45	F		16	14									N	36	Yes		06/01/2021	0.109	0.800	635.84%	1.264	Yes	Lost water didn't reach target depth and bs45 9 degrees of bs43		
459	05/01/2021	C6 – A57096	BP 45	F		16	14	37.00	1.00							Y	50	Yes		05/01/2021	0.134	0.100	0.00%	0.158	Yes	Bp45 9 degrees of bp43		
460	05/01/2021	C6 – A57096	BM 45	F		16	14									N	45	Yes		06/01/2021	0.125	0.300	140.01%	0.474	Yes	Drilled at 9 degrees off BM43		
461	05/01/2021	C6 – A57096	BK 45	F		16	14	24.00	1.00	40.5	1.00					Y	45	Yes		05/01/2021	0.125	0.100	0.00%	0.158	Yes	Bk45 9 degrees off bk43		
462	05/01/2021	C6 – A57096	CA 43	F		16	14									Y	29	Yes		07/01/2021	0.096	1.200	1149.23%	1.896	Yes	9 degrees from CC43 I didn't drill to depth because I lost water in soft ground		
463	05/01/2021	C6 XP – A57216	BK 35	F		16	14	21.00	1.00	38	1.00	42.00	0.00			Y	45	Yes		05/01/2021	0.125	0.100	0.00%	0.158	Yes			
465	05/01/2021	C6 XP – A57216	BS 41R	F		14	13									N	45	Yes			0.120				Yes			
466	05/01/2021	C6 XP – A57216	CA 29	D		14	13	23.00	1.00							Y	40	Yes		05/01/2021	0.111	0.100	0.00%	0.158	Yes			
467	05/01/2021	C6 XP – A57216	CR 05	B		16	14	24.00	1.00							N	35	Yes		14/01/2021	0.107	0.200	87.07%	0.316	Yes	Drilled from CP06 at a 4 degree angle		
468	05/01/2021	C6 XP – A57217	BB 13R	C		16	14.5									N	45	Yes			0.125				Yes			
469	05/01/2021	C6 XP – A57217	AV 13R	C		18	17									N	35	Yes			0.112				Yes			
470	05/01/2021	C6 XP – A57217	AX 13R	C		18	17									N	46	Yes			0.132				Yes			
471	05/01/2021	C6 XP – A57217	AX 15R	C		16	14.5									N	47	Yes			0.129				Yes			
472	05/01/2021	C6 XP – A57217	BB 15R	C		16	14.5									Y	45	Yes			0.125				Yes			
473	05/01/2021	C6 – A57097	BF 09R	A		16	14.5									N	45	Yes			0.125				Yes			
475	06/01/2021	C6 – A57097	BK 03R	A		16	14.5									N	45	Yes			0.125				Yes			
476	06/01/2021	C6 – A57097	CC 15	B		14	12.5									Y	40	Yes		06/01/2021	0.111	0.200	80.99%	0.316	Yes			
477	06/01/2021	C6 – A57097	CA 19	D		14	12.5									Y	22	Yes		11/01/2021	0.078	1.000	1182.92%	1.580	Yes			
478	06/01/2021	C6 – A57097	CE 10	B		16	14.5									Y	45	Yes			0.125				Yes			
479	06/01/2021	C6 – A57097	BY 23	D		14	12.5									N	40	Yes		11/01/2021	0.111	0.200	80.99%	0.316	Yes			
480	06/01/2021	C6 – A57097	BW 27	D		16	14	28.00	2.00							Y	40	Yes		06/01/2021	0.116	0.100	0.00%	0.158	Yes			
481	06/01/2021	C6 – A57096	CA 45	F		16	14									Y	29	Yes		07/01/2021	0.096	0.700	628.72%	1.106	Yes	9 degrees from CC43 I didn't drill to depth because I lost water in soft ground. Resubmitted correct number now		
482	05/01/2021	C6 – A57096	CA 43	F		16	14									Y	29	Yes		07/01/2021	0.096	1.200	1149.23%	1.896	Yes	9 degrees from CC43 I didn't drill to depth because I lost water in soft ground		
483	06/01/2021	C6 – A57096	CC 43	F		14	12.5	24.50	1.00							Y	45	Yes		06/01/2021	0.120	0.100	0.00%	0.158	Yes			
484	06/01/2021	C6 – A57096	CE 37	F		14	12.5									N	23.5	Yes		08/01/2021	0.081	0.300	271.93%	0.474	Yes	Lost water didn't reach target depth		
485	06/01/2021	C6 – A57096	CE 35	F		14	12.5									N	23	Yes		08/01/2021	0.080	0.300	276.15%	0.474	Yes	Lost water didn't reach target depth		
486	06/01/2021	C6 – A57096	CE 43	F		14	13									Y	45	Yes		06/01/2021	0.120	0.100	0.00%	0.158	Yes	Ce4 13 degrees of cc42		
487	06/01/2021	C6 – A57096	CG 39	F		14	13.5									Y	45	Yes		07/01/2021	0.120	0.500	318.25%	0.790	Yes	Cg39 15 degrees of cd39		
488	06/01/2021	C6 XP – A57216	CR 03	B		16	14	24.00	1.00							Y	42	Yes		06/01/2021	0.120	0.100	0.00%	0.158	Yes	Drilled from CN05 at a 9.5 degree angle		
489	06/01/2021	C6 XP – A57216	CN 01	B		16	15									N	27	Yes		08/01/2021	0.092	0.300	224.53%	0.474	Yes	Drilled from CN05 at a 18.5 degree angle		
490	06/01/2021	C6 XP – A57216	CN 03	B		14	13	24.00	1.00	34	1.00					Y	42	Yes		06/01/2021	0.114	0.100	0.00%	0.158	Yes	Drilled from CN05 at a 9.5 degree angle		
491	06/01/2021	C6 XP – A57216	CL 01	B		16	15	28.00	0.00							N	40	Yes		08/01/2021	0.116	0.200	72.48%	0.316	Yes	Drilled from CL05 at a 18.5 degree angle		
492	06/01/2021	C6 XP – A57216	CL 03	B		14	13	27.00	1.00	37	1.00					Y	42	Yes		07/01/2021	0.114	0.100	0.00%	0.158	Yes	Drilled from CL05 at a 9.5 degree angle		
493	06/01/2021	C6 XP – A57217	BB 19	C		16	14	16.00	4.00							N	45	Yes		06/01/2021	0.125	0.600	380.01%	0.948	Yes			
494	06/01/2021	C6 XP – A57217	AZ 23	C		16	14	16.00	5.00							N	47	Yes		07/01/2021	0.129	0.300	133.26%	0.474	Yes			
495	06/01/2021	C6 XP – A57217	BM 09	A		16	14									N	45	Yes		07/01/2021	0.125	0.400	220.01%	0.632	Yes			
496	06/01/2021	C6 XP – A57217	BH 09	A			14	32.00	3.00							Y	45	Yes		06/01/2021	0.000	0.100	#DIV/0!	0.158	Yes			
497	06/01/2021	Klemm 709 – A57211	CC 45	F		14	12.5	25.00	1.00							Y	45	Yes		06/01/2021	0.120	0.100	0.00%	0.158	Yes	Cc45 9 degrees of cc43		
498	07/01/2021	C6 – A57097	BH 43	F		18	16.5	26.00	0.50							Y	45	Yes		07/01/2021	0.130	0.100	0.00%	0.158	Yes	Drilled from bn40 at 21 degrees		
499	07/01/2021	C6 – A57097	BD 45R	F		16	14									Y	45	Yes			0.125				Yes			
500	07/01/2021	C6 – A57097	BF 43R	F		16	14									N	47	Yes			0.129				Yes			
501	07/01/2021	C6 – A57097	BF 41R	F		14	13									N	46	Yes			0.121				Yes			
502	07/01/2021	C6 – A57097	BW 30	D		14	12									Y	45	Yes		07/01/2021	0.120	0.200	67.30%	0.316	Yes			
503	07/01/2021	C6 – A57097	CE 39	F		14	12.5									Y	24	Yes		08/01/2021	0.082	1.250	1432.53%	1.975	Yes			
504	07/01/2021	C6 – A57097	CC 39	F		14	12.5									Y	26	Yes		07/01/2021	0.085	0.750	780.47%	1.185	Yes			
505	07/01/2021	C6 XP2 – A57221	AZ 29	E		16	14	17.00	2.00							Y	40	Yes		06/01/2021	0.116	0.300	158.72%	0.474	Yes	Az29 fresh redrill.		
506	07/01/2021	C6 XP2 – A57221	BD 32	E		15	14	15.50	1.00							Y	45	Yes		12/01/2021	0.122	0.700	472.50%	1.106	Yes	Bd32 fresh redrill.		
507	07/01/2021	C6 XP2 – A57221	BB 38	G		16	15	19.00	3.00							Y	45	Yes		05/01/2021	0.125	0.200	60.00%	0.316	Yes	Bb38 fresh redrill		
511	07/01/2021	C6 XP2 – A57221	BA 33R	E		16	15	18.50	3.00							Y	45	Yes			0.125				Yes			
512	07/01/2021	C6 XP2 – A57221	BD 33R	E		16	14.5																					

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register												Total Tonnage Used														
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting												Revision Number:		1														
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01												Date:		24-02-2021								551.49							
Project Engineer:				Oliver Partington		Form Completed By:				OP																							
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)				Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments										
								Seam 1		Seam 2		Seam 3		Seam 4																			
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile																		
526	08/01/2021	C6 XP – A57217	BS 09	B		16	14									N	42	Yes															
527	08/01/2021	C6 XP – A57217	BW 09	B		16	14	39.00	2.00							Y	44	Yes															
528	08/01/2021	C6 XP – A57217	BY 09	B		16	14	37.00	2.00							Y	42	Yes					BY09 11 degree angle from CA09										
530	08/01/2021	C6 – A57097	BM 37	F		14	13	21.50	1.00							N	39	Yes															
531	08/01/2021	C6 – A57097	BM 33R	F		14	12									Y	40	Yes															
532	08/01/2021	C6 – A57097	BN 38	F		14	12.5									N	50	Yes															
533	08/01/2021	C6 XP2 – A57221	AL 23	C		16	15	17.00	1.00	34	2.00					Y	40	Yes					AI23 drilled from an23. 10 degrees										
534	08/01/2021	C6 XP2 – A57221	AX 23R	C		16	15.5	20.00	3.50							N	35	Yes															
535	11/01/2021	C6 – A57097	BM 34	F		14	12									N	39	Yes															
536	11/01/2021	C6 – A57097	BW 45R	F		16	14.4									N	42	Yes															
537	11/01/2021	C6 – A57097	CA 43R	F		16	14									Y	42	Yes															
538	11/01/2021	C6 – A57097	CA 45R	F		16	14									Y	42	Yes															
539	11/01/2021	C6 – A57097	CC 39R	F		14	12.5									Y	42	Yes															
540	11/01/2021	C6 – A57097	CE 39R	F		14	12.5									Y	42	Yes															
541	11/01/2021	C6 XP2 – A57221	BD 15	C		15	14									N	39	Yes															
542	11/01/2021	C6 XP2 – A57221	AZ 15R	C		16	14.5									N	43	Yes															
543	11/01/2021	C6 XP2 – A57221	AT 19	C		14	13	22.50	3.00							Y	40	Yes															
544	11/01/2021	C6 XP2 – A57221	AN 19	C		16	14.5	27.00	3.00	40	1.00					Y	42	Yes															
545	11/01/2021	C6 XP2 – A57221	AR 15	C		16	15									Y	42	Yes															
546	11/01/2021	C6 XP – A57217	BV 06	B		16	14									Y	16	Yes															
547	11/01/2021	C6 XP – A57217	BV 07	B		16	14									Y	16	Yes															
548	11/01/2021	C6 XP – A57217	BV 08	B		16	14									Y	16	Yes															
549	11/01/2021	C6 XP – A57217	BW 06	B		16	13.5									Y	16	Yes															
550	11/01/2021	C6 XP – A57217	BV 09	B		16	13.5									Y	16	Yes															
551	12/01/2021	C6 XP – A57217	CA 11	B		15	15									N	49	Yes															
552	12/01/2021	C6 XP – A57217	BY 11	B		20	19									Y	20	Yes															
553	12/01/2021	C6 XP – A57217	BP 11	A		11	14									Y	11	Yes															
554	12/01/2021	C6 XP – A57217	BM 11	A		15	14									N	45	Yes															
555	12/01/2021	C6 XP – A57217	BK 11	A		17	16	29.00	3.00	40	3.00					Y	45	Yes															
556	12/01/2021	C6 XP – A57217	BH 11	A		17	16									N	45	Yes															
557	12/01/2021	C6 XP – A57217	BU 06	B		16	14									Y	16	Yes															
558	12/01/2021	C6 XP – A57217	BH 05R	A		16	15									N	45	Yes															
560	12/01/2021	C6 XP – A57217	BF 05R	A		14	13.5									N	45	Yes															
562	12/01/2021	C6 XP – A57216	CL 15R	B		12	11									N	42	Yes															
563	12/01/2021	C6 XP – A57216	CL 17R	D		12	11									N	42	Yes															
565	12/01/2021	C6 XP – A57216	BS 45R	F		16	14									N	42	Yes															
566	12/01/2021	C6 XP – A57216	BH 35	F		16	15	24.00	1.00	40	2.00					Y	44	Yes															
567	12/01/2021	C6 XP – A57216	BU 29R	D		14	13.5									Y	42	Yes															
568	12/01/2021	C6 XP – A57216	BS 29R	F		14	13.5									Y	42	Yes															
570	12/01/2021	C6 XP2 – A57221	AZ 13	C		15	14	15.50	3.00							Y	42	Yes															
571	12/01/2021	C6 XP2 – A57221	BG 12	A		14	13.5	18.50	1.50							N	36	Yes															
572	12/01/2021	C6 XP2 – A57221	AZ 17R	C		16	14.5	17.00	4.00							N	43	Yes															
573	12/01/2021	C6 XP2 – A57221	BK 13R	C		16	14.5									Y	42	Yes															
574	12/01/2021	C6 XP2 – A57221	BK 19R	C		14	13									N	36	Yes															
575	12/01/2021	C6 – A57097	CE 41	F		14	12									N	42	Yes															
576	12/01/2021	C6 – A57097	CE 37R	F		14	12.5									N	42	Yes															
577	12/01/2021	C6 – A57097	CE 35R	F		14	12.5									Y	42	Yes															
578	12/01/2021	C6 – A57097	CG 37R	F		16	14.5									N	43	Yes															
579	12/01/2021	C6 – A57097	BY 45R	F		14	13.5									Y	42	Yes															
580	12/01/2021	C6 – A57097	BW 43R	F		16	16									N	42	Yes															
582	12/01/2021	C6 – A57096	BD 43	F		16	15.5	19.00	0.50							N	45	Yes															
583	12/01/2021	C6 – A57096	BF 39	F		16	14	18.50	0.50	31	0.50					N	48.5	Yes															
584	12/01/2021	C6 – A57096	BD 25	C		16	14.5									Y	44	Yes															
585	12/01/2021	C6 – A57096	BK 25	C		16	14.5									Y	44	Yes															
586	13/01/2021	C6 – A57096	BC 32R	E		16	14									N	45	Yes															
587	13/01/2021	C6 – A57096	BD 32R	E		16	14									N	45	Yes															
588	13/01/2021	C6 – A57096	BG 31	E		16	14									N	43	Yes															
589	13/01/2021	C6 – A57096	BJ 30	E		16	13.5	23.00	1.00	40.5	1.00					Y	42	Yes															
590	13/01/2021	C6 – A57096	BH 32	E		16	14	24.50	1.00							Y	42	Yes															
591	13/01/2021	C6 – A57096	BL 33	F		16	14									N	42	Yes															
592	13/01/2021	C6 – A57097	BW 29	D		14	12.5	28.00	1.00							Y	42	Yes															
593	13/01/2021	C6 – A57097	CC 01	B		16	14.5									Y	42	Yes															
594	13/01/2021	C6 – A57097	CA 01	B		17	15.5	37.00	1.00							Y	42	Yes															
595	13/01/2021	C6 XP – A57217	BU 07R	B		14	12																										

Cementation				Contract:	Co-Op Live Arena			Old Mine Workings - BH Register														Total Tonnage Used									
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1														
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021					551.49										
Project Engineer:				Oliver Partington		Form Completed By:			OP																						
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments						
								Seam 1		Seam 2		Seam 3		Seam 4																	
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile																
598	13/01/2021	C6 XP – A57217	BH 01R	A		18	16							N	45	Yes			0.130					Yes							
599	13/01/2021	C6 XP2 – A57221	AV 12	C		18	16.5	18.50	2.50	31	1.00			Y	42	Yes		13/01/2021	0.125	0.200	59.97%	0.316	Yes								
600	13/01/2021	C6 XP2 – A57221	AX 12	C		18	16.5	19.00	1.50					Y	42	Yes		13/01/2021	0.125	0.200	59.97%	0.316	Yes								
601	13/01/2021	C6 XP2 – A57221	AY 12	C		16	14.5	16.50	3.00					N	42	Yes		26/01/2021	0.120	0.300	150.90%	0.474	Yes								
602	13/01/2021	C6 XP – A57216	CD 41	F		14	13							N	42	Yes		18/01/2021	0.114	0.200	75.25%	0.316	Yes								
603	13/01/2021	C6 XP – A57216	CC 40	F		14	13	22.00	2.00					Y	42	Yes		13/01/2021	0.114	0.100	0.00%	0.158	Yes								
604	14/01/2021	C6 XP – A57217	BC 01	A		18	17	22.00	2.00					N	45	Yes		18/01/2021	0.130	1.500	1049.88%	2.370	Yes	9 degree angle from BB03							
605	14/01/2021	C6 XP – A57217	BB 02	A		18	17	22.00	2.00					N	45	Yes		18/01/2021	0.130	0.200	53.32%	0.316	Yes	Obstruction at 6.5 got past it 5 degree angle from BB03							
606	14/01/2021	C6 XP – A57217	BB 04	A		18	17							N	45	Yes		19/01/2021	0.130	0.500	283.29%	0.790	Yes	Obstruction at 6.5m got past it							
607	14/01/2021	C6 XP – A57217	AX 03	A		18	17							N	47	Yes		20/01/2021	0.134	0.200	49.18%	0.316	Yes	Obstruction at 6.5m 9 degree angle from AZ03							
608	14/01/2021	C6 XP – A57216	CC 38	F		14	13							N	42	Yes		18/01/2021	0.114	0.200	75.25%	0.316	Yes								
609	14/01/2021	C6 XP – A57216	CC 36	F		14	13	21.00	2.00					Y	42	Yes		14/01/2021	0.114	0.100	0.00%	0.158	Yes								
610	14/01/2021	C6 XP – A57216	CK 33	F		16	15	25.00	1.00	36	0.00			Y	43	Yes		14/01/2021	0.121	0.100	0.00%	0.158	Yes	Drilled from CG33 at a 14 degree angle							
611	14/01/2021	C6 XP – A57216	BZ 45	F		14	13	26.00	1.00	38	0.00			Y	43	Yes		28/01/2021	0.116	0.100	0.00%	0.158	Yes	Drilled from BZ43 at a 9 degree angle							
612	14/01/2021	C6 – A57096	BN 32	F		14	13.5							N	42	Yes		13/01/2021	0.114	0.200	75.25%	0.316	Yes								
613	14/01/2021	C6 – A57096	BG 42	F		16	13.5							N	42	Yes		19/01/2021	0.120	1.000	736.32%	1.580	Yes								
614	14/01/2021	C6 – A57096	BG 41	F		14	13.5	30.50	0.50					Y	42	Yes		14/01/2021	0.114	0.100	0.00%	0.158	Yes								
615	14/01/2021	C6 – A57096	BL 39	F		16	14	22.00	1.00					Y	42	Yes		14/01/2021	0.120	0.200	67.26%	0.316	Yes								
616	14/01/2021	C6 – A57096	BM 40	F		14	13.5	21.50	0.50					Y	42	Yes		18/01/2021	0.114	0.400	250.51%	0.632	Yes								
617	14/01/2021	C6 – A57097	BW 01	B		14	13							N	24	Yes		19/01/2021	0.082	0.500	513.01%	0.790	Yes	Drilled from BW03 at 9 degrees.							
618	14/01/2021	C6 – A57097	BS 01	A		16	14							N	43	Yes		20/01/2021	0.121	0.200	64.77%	0.316	Yes	Drilled from BS03 at 9 degrees							
619	14/01/2021	C6 – A57097	BU 01	A		14	13							N	43	Yes		13/01/2021	0.116	0.500	331.30%	0.790	Yes	Drilled from BU03 at 9 degrees							
620	14/01/2021	C6 – A57097	BY 01	B		14	1.5	19.00	1.00					Y	43	Yes		13/01/2021	0.116	0.200	72.52%	0.316	Yes	Drilled from BY03at 9 degrees							
621	14/01/2021	C6 – A57097	BY 07	B		16	14							Y	42	Yes		13/01/2021	0.120	1.500	1154.48%	2.370	Yes	Drilled from BU07 at 15 degrees							
622	14/01/2021	C6 XP2 – A57221	BB 12	C		15	14	15.50	2.50					Y	42	Yes		13/01/2021	0.117	0.200	71.17%	0.316	Yes								
623	14/01/2021	C6 XP2 – A57221	BC 10	A		18	17.5							N	39	Yes		19/01/2021	0.120	0.500	318.07%	0.790	Yes								
624	14/01/2021	C6 XP2 – A57221	AW 13	C		18	17	18.50	3.00					N	55	Yes		19/01/2021	0.149	1.300	775.22%	2.054	Yes								
625	14/01/2021	C6 XP2 – A57221	BA 10	A		15	14	15.50	2.00					N	42	Yes		13/01/2021	0.117	0.200	71.17%	0.316	Yes								
626	15/01/2021	C6 XP – A57217	AX 01	A		20	18							N	47	Yes		20/01/2021	0.140	0.200	43.35%	0.316	Yes	18.5 degree angle from AX05							
627	15/01/2021	C6 XP – A57217	AZ 06	A		18	17	24.00	2.50					N	45	Yes		19/01/2021	0.130	0.500	283.29%	0.790	Yes								
628	15/01/2021	C6 XP – A57216	BZ 44	F		14	13	25.00	2.00	37	0.00			Y	43	Yes		18/01/2021	0.116	0.100	0.00%	0.158	Yes	Drilled from BZ43 at a 5 degree angle							
629	15/01/2021	C6 XP – A57216	BX 45	F		14	13							N	43	Yes		18/01/2021	0.116	0.200	72.52%	0.316	Yes	Drilled from BZ43 at a 9 degree angle							
630	15/01/2021	C6 XP – A57216	BW 42	F		16	14	28.00	2.00					Y	42	Yes		18/01/2021	0.120	0.100	0.00%	0.158	Yes	Test Hole							
631	15/01/2021	C6 – A57096	BM 42	F		16	14	22.00	0.50					N	42	Yes		19/01/2021	0.120	0.300	150.90%	0.474	Yes								
632	15/01/2021	C6 – A57096	CA 26	D		14	13	19.50	0.50					Y	42	Yes		18/01/2021	0.114	0.100	0.00%	0.158	Yes								
633	15/01/2021	C6 – A57096	CH 32	F		14	13							Y	42	Yes		18/01/2021	0.114	0.500	338.13%	0.790	Yes								
634	15/01/2021	C6 XP2 – A57221	AU 14	C		18	17	20.00	3.00	32	1.00			Y	42	Yes		18/01/2021	0.125	0.100	0.00%	0.158	Yes								
635	15/01/2021	C6 XP2 – A57221	AX 14	C		18	16	18.50	1.00					Y	42	Yes		26/01/2021	0.125	0.300	139.96%	0.474	Yes								
636	15/01/2021	C6 XP2 – A57221	BF 10	A		14	13.5							Y	42	Yes		18/01/2021	0.114	0.200	75.25%	0.316	Yes								
637	15/01/2021	C6 XP2 – A57221	AY 10	A		16	15.5	16.50	1.50					N	42	Yes		18/01/2021	0.120	0.200	67.26%	0.316	Yes								
638	15/01/2021	C6 – A57097	CA 03	B		16	14							Y	42	Yes		20/01/2021	0.120	0.200	67.26%	0.316	Yes	Drilled from BX03 at 15 degrees.							
639	15/01/2021	C6 – A57097	BW 10	B		16	14.5							N	42	Yes		18/01/2021	0.120	0.200	67.26%	0.316	Yes	Drilled from BT11 at 15 degrees.							
640	15/01/2021	C6 – A57097	CA 05	B		15	14	15.00	1.00					Y	42	Yes		28/01/2021	0.117	0.100	0.00%	0.158	Yes	Drilled from cc05 at 10 degrees.							
641	15/01/2021	C6 – A57097	BS 19	D		14	12.5							N	40	Yes		13/01/2021	0.111	0.200	80.99%	0.316	Yes	Drilled 10.5 meters away at 15 degrees.							
643	18/01/2021	C6 XP – A57217	BE 04	A		16	14							N	45	Yes		26/01/2021	0.125	0.500	300.01%	0.790	Yes								
644	18/01/2021	C6 XP – A57217	BL 03	A		6.5	6.5							Y	6.5	Yes			0.029				Yes	Obstruction at 6.5 couldn't get passed it							
645	18/01/2021	C6 XP – A57217	BJ 05	A		18	17							N	45	Yes		19/01/2021	0.130	0.500	283.29%	0.790	Yes								
646	18/01/2021	C6 XP – A57217	BF 04	A		6.5	6.5							Y	6.5	Yes			0.029				Yes	Obstruction at 6.5m couldn't get passed							
647	18/01/2021	C6 XP – A57217	BC 04	A		6.5	6.5							Y	6.5	Yes		19/01/2021	0.029	0.500	1596.52%	0.790	Yes	Obstruction at 6.5m couldn't get passed							
648	18/01/2021	C6 XP – A57217	BA 04	A		6.5	6.5							Y	6.5	Yes			0.029				Yes	Obstruction at 6.5 couldn't get passed							
650	18/01/202																														

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register														Total Tonnage Used										
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1														
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021				551.49											
Project Engineer:				Oliver Partington		Form Completed By:				OP																					
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)						Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments						
								Seam 1		Seam 2		Seam 3		Seam 4																	
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile																
670	19/01/2021	C6 – A57096	BF 08	A		14	13.5								N	42	Yes		20/01/2021	0.114	1.200	951.52%	1.896	Yes							
671	18/01/2021	C6 XP – A57217	AZ 04	A		18	17								Y	18	Yes		19/01/2021	0.082	0.500	512.63%	0.790	Yes	No obstruction on this one						
672	19/01/2021	C6 XP – A57217	AY 04	A		6.5	6.5								Y	6.5	Yes			0.029				Yes	Obstruction at 6.5m couldn't get passed						
673	19/01/2021	C6 XP – A57217	AX 04	A		6.5	6.5								Y	6.5	Yes			0.029				Yes	Obstruction at 6.5m couldn't get passed						
674	19/01/2021	C6 XP – A57217	BG 04	A		7	7								Y	7	Yes			0.032				Yes	Obstruction at 7m couldn't get passed						
675	19/01/2021	C6 XP – A57217	BH 04	A		16	14.5								N	45	Yes		10/12/2020	0.125	2.000	1500.04%	3.160	Yes							
677	19/01/2021	C6 XP2 – A57221	BP 11OP	A		16	14.5								N	42	Yes		08/01/2021	0.120	1.000	736.32%	1.580	Yes							
678	19/01/2021	C6 XP2 – A57221	BS 11	B		16	14.5								N	42	Yes		07/01/2021	0.120	0.600	401.79%	0.948	Yes							
679	19/01/2021	C6 XP2 – A57221	BU 11	B		16	14.5	23.00	2.00						Y	42	Yes		07/01/2021	0.120	0.200	67.26%	0.316	Yes							
680	19/01/2021	C6 – A57097	CH 09	B		14	12	31.50	1.00	41	1.00				Y	43	Yes		14/01/2021	0.116	0.400	245.04%	0.632	Yes							
681	19/01/2021	C6 – A57097	CR 08	B		14	12	30.00	1.50						Y	42	Yes		19/01/2021	0.114	0.100	0.00%	0.158	Yes	Drilled from cp08 at 9 degrees.						
682	19/01/2021	C6 – A57097	CS 05	B		16	14	25.00	1.00						N	42	Yes		20/01/2021	0.120	0.200	67.26%	0.316	Yes	Drilled from cp 05 at 9 degrees.						
683	19/01/2021	C6 – A57097	CT 06	B		14	12	24.00	1.00	32	0.50				Y	42	Yes		19/01/2021	0.114	0.100	0.00%	0.158	Yes	Drilled from cr06 at 9 degrees.						
684	19/01/2021	C6 – A57097	CJ 06	B		16	14	29.00	2.00						N	40	Yes		20/01/2021	0.116	0.500	331.21%	0.790	Yes							
685	20/01/2021	C6 XP – A57217	AW 05	A		18	17.5	19.00	1.00						N	42	Yes		20/01/2021	0.125	6.600	5179.06%	10.428	Yes	9.5 degree angle from AW07						
687	20/01/2021	C6 XP – A57217	AY 05	A		18	17.5	29.00	3.00						N	45	Yes		21/01/2021	0.130	2.500	1816.47%	3.950	Yes	9.5 degree angle from AY07 obstruction at 7m got passed it						
689	20/01/2021	C6 XP – A57217	BA 07	A		18	17								N	45	Yes		26/01/2021	0.130	0.300	129.98%	0.474	Yes							
690	20/01/2021	C6 XP2 – A57221	CC 11	B		16	14.5	17.00	1.50						Y	42	Yes		20/01/2021	0.120	0.200	67.26%	0.316	Yes							
691	20/01/2021	C6 XP2 – A57221	BU 12	B		16	14.5								N	42	Yes		20/01/2021	0.120	0.200	67.26%	0.316	Yes							
692	06/01/2021	C6 – A57097	CE 11	B		16	14.5								Y	45	Yes		21/01/2021	0.125	0.100	0.00%	0.158	Yes							
693	20/01/2021	C6 XP2 – A57221	CC 12	B		18	16.5	38.00	1.50						Y	42	Yes		20/01/2021	0.125	0.100	0.00%	0.158	Yes							
694	20/01/2021	C6 – A57097	CM 10	B		14	12	28.00	1.00						N	40	Yes		21/01/2021	0.111	4.600	4062.79%	7.268	Yes							
695	20/01/2021	C6 – A57097	CM 12	B		14	12	28.00	1.00						Y	42	Yes		20/01/2021	0.114	0.200	75.25%	0.316	Yes							
696	20/01/2021	C6 – A57097	CK 13	B		14	12.5	31.00	1.00						N	40	Yes		20/01/2021	0.111	0.200	80.99%	0.316	Yes							
697	20/01/2021	C6 – A57097	CL 14	B		14	12	29.00	2.00	38	1.00				Y	40	Yes		20/01/2021	0.111	0.100	0.00%	0.158	Yes							
698	20/01/2021	C6 – A57097	CN 14	B		12	11	28.00	1.00	37.5	0.50				Y	40	Yes		20/01/2021	0.105	0.100	0.00%	0.158	Yes							
699	20/01/2021	C6 – A57096	BP 09R	A		16	14.5								N	42	Yes		20/01/2021	0.120				Yes							
700	20/01/2021	C6 – A57096	BM 36	F		13	13.5	21.50	0.50						N	42	Yes		21/01/2021	0.111	0.500	348.85%	0.790	Yes							
701	20/01/2021	C6 – A57096	CD 45	F		14	13.5								Y	42	Yes		20/01/2021	0.114	0.700	513.39%	1.106	Yes	Cd45 13 degrees of cc43						
702	20/01/2021	C6 – A57096	CE 42	F		14	13.5								Y	42	Yes		20/01/2021	0.114	0.200	75.25%	0.316	Yes	Ce42 9 degrees of cc42						
703	20/01/2021	C6 – A57096	BE 44	F		16	14								Y	42	Yes		28/01/2021	0.120	0.100	0.00%	0.158	Yes	Be44 16 degrees of bj42						
704	21/01/2021	C6 XP – A57217	BM 04	A		14	13.5								N	42	Yes		22/01/2021	0.114	1.000	776.27%	1.580	Yes							
706	21/01/2021	C6 XP – A57217	BD 04R	A		16	14.5								Y	42	Yes			0.120				Yes							
707	21/01/2021	C6 XP – A57217	BD 01R	A		18	17								Y	45	Yes			0.130				Yes							
708	21/01/2021	C6 XP – A57217	AZ 01	A		18	16.5	33.00	3.00						Y	45	Yes		26/01/2021	0.130	0.300	129.98%	0.474	Yes	24 degree angle from BD03						
709	21/01/2021	C6 – A57097	CJ 18	D		14	12	32.00	8.00						Y	40	Yes		20/01/2021	0.111	0.100	0.00%	0.158	Yes							
710	21/01/2021	C6 – A57097	CN 16	D		12	11	26.50	1.50	37.5	2.50				Y	40	Yes		21/01/2021	0.105	0.100	0.00%	0.158	Yes							
711	21/01/2021	C6 – A57097	CK 19	D		12	11	32.00	1.00						Y	40	Yes		21/01/2021	0.105	0.100	0.00%	0.158	Yes							
712	21/01/2021	C6 – A57097	CJ 20	D		14	12	33.50	1.00						Y	40	Yes		21/01/2021	0.111	0.100	0.00%	0.158	Yes							
713	21/01/2021	C6 – A57097	CN 17R	D		12	11	28.00	1.00						N	40	Yes			0.105				Yes							
714	21/01/2021	C6 – A57096	CA 19R	D		14	12.5								N	42	Yes			0.114				Yes							
715	21/01/2021	C6 – A57096	CB 10R	B		20	17.5								Y	42	Yes			0.130				Yes							
717	21/01/2021	C6 – A57096	CE 04	B		16	14	33.50	0.50						N	43	Yes		25/01/2021	0.121	2.400	1877.26%	3.792	Yes							
718	21/01/2021	C6 XP2 – A57221	CA 12	B		16	14								N	42	Yes		21/01/2021	0.120	0.200	67.26%	0.316	Yes							
719	21/01/2021	C6 XP2 – A57221	BZ 12	B		16	15								N	42	Yes		28/01/2021	0.120	0.200	67.26%	0.316	Yes							
720	21/01/2021	C6 XP2 – A57221	BR 12	B		16	14								N	42	Yes		22/01/2021	0.120	2.500	1990.80%	3.950	Yes							
721	21/01/2021	C6 XP2 – A57221	BN 12	A		16	15								N	42	Yes		22/01/2021	0.120	0.300	150.90%	0.474	Yes							
723	22/01/2021	C6 XP – A57217	AW 08	A		18	17.5	29.00	2.00						Y	42	Yes		25/01/2021	0.125	0.300	139.96%	0.474	Yes	Test pile						
725	22/01/2021	C6 XP – A57217	BU 04	A		16	14								N	42	Yes		27/01/2021	0.120	0.200	67.26%	0.316	Yes	Test pile						
728	22/01/2021	C6 – A57096	CN 08	B		14	12.5								Y	42	Yes		25/01/2021	0.114	0.500	338.13%	0.790	Yes							
730	22/01/2021	C6 – A57097	CL 22	D		14	12	32.00	1.00						N	41.5	Yes		26/01/2021	0.113	0.300	164.98%	0.474	Yes							
731	22/01/2021	C6 – A57097	CK 24	D		14	12	32.50	1.00						Y	40	Yes		22/01/2021	0.111	0.100	0.00%	0.158	Yes							
732	22/01/2021	C6 – A5																													

Cementation				Contract:	Co-Op Live Arena		Old Mine Workings - BH Register																				
SKANSKA				Job Number:	22D992 - Infill Drilling and Grouting										Revision Number:		1							Total Tonnage Used			
Drawing Reference Number:				22D990-CSL-00-F1-SK-X-0020 P01										Date:		24-02-2021					551.49						
Project Engineer:				Oliver Partington		Form Completed By:				OP																	
Number	Date Drilled	Rig Number	Grid Reference	Design Case	PPL (M AoD)	Case Length (M)	Rock Head Depth (m)	Top of Seam (m)								Full Water Flush Return (Y/N)	Total Drill Depth (m)	Depth Checked?	Angle (Degrees)	Vertical Depth (M)	Date Grouted	Drilled Bore theoretical Volume (m3)	Volume Injected (m3)	Percentage over theoretical volume (%)	Cement and PFA (T)	Hole pressurized in line with ITP?	Comments
								Seam 1		Seam 2		Seam 3		Seam 4													
								Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile	Depth	Thickness of Profile												
753	27/01/2021	C6 – A57097	AW	06	A		18	16.5								Y	42	Yes			27/01/2021	0.125	0.200	59.97%	0.316	Yes	Obstruction at 6m 8m and 8.5m 1hr 20 minutes to get through them .
754	28/01/2021	C6 – A57097	AY	28	E		16	14	19.00	3.50						N	42	Yes			27/01/2021	0.120	0.200	67.26%	0.316	Yes	
755	28/01/2021	C6 – A57097	BT	29	D		14	12.5								Y	42	Yes			12/01/2021	0.114	0.250	119.07%	0.395	Yes	
756	28/01/2021	C6 – A57097	BT	41	F		16	14								Y	42	Yes			05/01/2021	0.120	0.200	67.26%	0.316	Yes	
757	02/02/2021	C6 – A57096	BU	26			14	12.5								N	42	Yes			25/01/2021	0.114	0.500	338.13%	0.790	Yes	Validation Hole.
758	02/02/2021	C6 – A57096	BX	15			16	14.5								N	42	Yes			25/01/2021	0.120	0.500	318.16%	0.790	Yes	Validation Hole.
759	02/02/2021	C6 XP – A57217	BK	15			15	14								N	42	Yes			26/01/2021	0.117	1.000	755.83%	1.580	Yes	
761	02/02/2021	C6 XP – A57217	BJ	04	A		18	16								N	42	Yes			02/02/2021	0.125	0.500	299.93%	0.790	Yes	
762	02/02/2021	C6 XP – A57217	AX	06	A		18	17								N	42	Yes			03/02/2021	0.125	0.500	299.93%	0.790	Yes	
763	02/02/2021	C6 XP – A57217	AX	30	E		16	14.5	20.00	2.00						N	42	Yes			02/02/2021	0.120	0.500	318.16%	0.790	Yes	Trace of coal 17m
764	02/02/2021	C6 XP – A57217	AY	06	A		18	17	27.00	1.00						Y	42	Yes			03/02/2021	0.125	0.100	0.00%	0.158	Yes	
766	04/02/2021	C6 – A57097	BP	12			16	15								Y	42	Yes			27/01/2021	0.120	0.200	67.26%	0.316	Yes	
767	21/01/2021	C6 – A57096	CE	11OP	B		16	14	38.00	1.00						Y	42	Yes			06/01/2021	0.120	0.200	67.26%	0.316	Yes	Redrilled in correct location and possible coal at 38m to 39m
768	04/02/2021	C6 – A57097	BJ	45	F		16	15	23.50	0.50	40.5	1.00				Y	42.5	Yes			20/01/2021	0.120	0.100	0.00%	0.158	Yes	B/45 drilled from bl43 at 9 degrees
769	04/02/2021	C6 XP – A57216	CD	13			16	14								Y	42	Yes			11/01/2021	0.120	0.100	0.00%	0.158	Yes	
771	04/02/2021	C6 XP – A57216	CB	17			12	11								Y	42	Yes			11/01/2021	0.109	0.100	0.00%	0.158	Yes	
772	04/02/2021	C6 XP – A57216	BA	21	C		16	14.5	16.50	3.00						Y	40	Yes			28/01/2021	0.116	0.100	0.00%	0.158	Yes	
773	04/02/2021	C6 XP – A57216	BZ	21	D		14	12								N	42	Yes			11/01/2021	0.114	0.200	75.25%	0.316	Yes	
774	04/02/2021	C6 XP – A57216	AY	25			16	15	18.50	3.50						Y	40	Yes			07/01/2021	0.116	0.200	72.48%	0.316	Yes	
775	04/02/2021	C6 XP – A57216	BX	25	D		12	11								Y	42	Yes			11/01/2021	0.109	0.100	0.00%	0.158	Yes	
777	22/01/2021	C6 XP – A57217	BH	07OP	A		16	14.5								N	45	Yes			14/12/2020	0.125	1.100	780.02%	1.738	Yes	
778	04/02/2021	C6 – A57096	BF	14			16	14	22.00	1.00						N	40	Yes				0.116				Yes	
779	04/02/2021	C6 – A57096	BC	17			16	14								N	37	Yes			11/01/2021	0.111	0.350	216.66%	0.553	Yes	
780	04/02/2021	C6 – A57096	AR	25	C	58.834	16	14	25.50	6.50						Y	41	Yes			26/11/2020	0.118	0.100	0.00%	0.158	Yes	
782	04/02/2021	C6 – A57096	BV	29			16	14.5								Y	42	Yes			13/01/2021	0.120	0.200	67.26%	0.316	Yes	
783	04/02/2021	C6 – A57096	BS	03R	A		16	15								N	45	Yes				0.125				Yes	
784	08/12/2020	C6 XP – A57217	CJ	13	B		11	10	29.00	2.00	39	3.00				Y	50	Yes			08/12/2020	0.120	0.100	0.00%	0.158	Yes	
785	04/02/2021	C6 – A57096	BF	13			14	12.5								N	21	Yes			07/01/2021	0.076	0.300	294.02%	0.474	Yes	
786	04/02/2021	C6 – A57096	CN	01R	B		16	15								Y	40	Yes				0.116				Yes	
787	04/02/2021	C6 XP2 – A57221	BB	29	E		16	14	16.50	2.00						Y	40	Yes			05/01/2021	0.116	0.300	158.72%	0.474	Yes	
788	04/02/2021	C6 XP2 – A57221	BD	29			16	14								Y	40	Yes			05/01/2021	0.116	0.400	244.96%	0.632	Yes	
789	04/02/2021	C6 XP2 – A57221	BH	29			16	15								Y	40	Yes			05/01/2021	0.116	0.400	244.96%	0.632	Yes	
790	04/02/2021	C6 XP2 – A57221	BP	29			16	14.5	41.00	1.00						Y	43	Yes			05/01/2021	0.121	0.200	64.77%	0.316	Yes	
791	04/02/2021	C6 XP2 – A57221	BK	29	F		16	15								N	41	Yes			12/01/2021	0.118	0.200	69.83%	0.316	Yes	Drilled form bh09 at 9 degrees
792	04/02/2021	C6 XP2 – A57221	BM	29	F		16	14.5	20.00	2.00	40	1.00				Y	50	Yes			12/01/2021	0.134	0.200	49.21%	0.316	Yes	Drilled from bp29 at 9 degrees
793	04/02/2021	C6 XP2 – A57221	BU	29	D		14	13.5	14.00	1.00						N	32	Yes			06/01/2021	0.096	0.300	212.39%	0.474	Yes	
794	04/02/2021	C6 XP2 – A57221	BS	29	F		14	13.5								N	35	Yes			06/01/2021	0.101	2.600	2462.59%	4.108	Yes	
798	04/02/2021	C6 XP – A57217	BM	11OP	A		15	14								N	45	Yes			07/01/2021	0.122	0.300	145.36%	0.474	Yes	OP=Out of position.
800	05/02/2021	C6 XP – A57216	BK	20			14	13.5	34.00	1.00						Y	42	Yes			03/02/2021	0.114	0.100	0.00%	0.158	Yes	
801	05/02/2021	C6 XP – A57216	BH	21			16	14.5								N	42	Yes			03/02/2021	0.120	0.500	318.16%	0.790	Yes	
803	05/02/2021	C6 XP – A57216	BL	18			14	13.5								Y	42	Yes			29/01/2021	0.114	0.200	75.25%	0.316	Yes	
804	05/02/2021	C6 XP – A57216	BJ	20			14	13.5								Y	42	Yes			29/01/2021	0.114	3.400	2879.32%	5.372	Yes	
805	05/02/2021	C6 XP – A57216	BL	19			16	14								N	42	Yes			29/01/2021	0.120	0.200	67.26%	0.316	Yes	
806	08/02/2021	C6 – A57097	BE	14			16	14.5	34.50	1.50						Y	40				27/01/2021	0.116	0.300	158.72%	0.474	Yes	