ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names
1		**CONSTRUCTION PROGRAMME**	**158.5 days?**	**Wed 11/11/20**	**Mon 21/06/21**		
2		**WASTEWATER PROJECT**	**125 days**	**Mon 14/12/20**	**Fri 04/06/21**		
3		Site Set up	10 days	Mon 14/12/20	Fri 25/12/20		P CATLEY
4		**Civil works**	**105 days**	**Mon 11/01/21**	**Fri 04/06/21**		
5		Enabling Works	15 days	Mon 11/01/21	Mon 25/01/21		J H VAUDREY
6		Foundations	15 days	Mon 11/01/21	Fri 29/01/21		J H VAUDREY
7		Reduce level excavation	10 days	Mon 18/01/21	Fri 29/01/21		J H VAUDREY
8		Sub base yard/ building	20 days	Mon 18/01/21	Fri 12/02/21		J H VAUDREY
9		Storm Drains	30 days	Mon 25/01/21	Fri 12/03/21		J H VAUDREY
10		Binca Drains	15 days	Mon 29/03/21	Fri 16/04/21		J H VAUDREY
11		Kerbs	10 days	Mon 15/03/21	Fri 26/03/21		J H VAUDREY
12		Effluent drains	25 days	Mon 11/01/21	Fri 12/02/21		J H VAUDREY
13		Foundations for channel drains	3 days	Wed 24/03/21	Fri 26/03/21	33	RCF
14		Channel Drainage Installation	3 days	Mon 29/03/21	Wed 31/03/21	13	JOHN LORDS
15		Internal building/ floor slab	14 days	Mon 29/03/21	Thu 15/04/21	33	RCF
16		External concrete yard slabs	35 days	Mon 19/04/21	Fri 04/06/21	34	RCF
17		Plinths to existing slab for DAF unit	10 days	Mon 01/02/21	Fri 12/02/21		RCF
18		**Steelwork**	**75 days**	**Mon 22/02/21**	**Fri 04/06/21**		
19		Steelwork Erection - main frame	15 days	Mon 22/02/21	Fri 12/03/21		AJ HODGSON
20		Handover - main frame	1 day	Mon 15/03/21	Mon 15/03/21	19	AJ HODGSON
21		DAF unit walkway and associated staircase	10 days	Mon 03/05/21	Fri 14/05/21		AJ HODGSON
22		MBBR tanks staircase/ platforms	20 days	Thu 06/04/21	Wed 05/05/21		AJ HODGSON
23		Access Platform to existing building	5 days	Mon 15/03/21	Fri 19/03/21		A J HODGSON
24		Installation of barriers and associated armco works	15 days	Mon 17/05/21	Fri 04/06/21	34	RCF
25		DAF Unit delivery to site	1 day	Tue 09/03/21	Tue 09/03/21	93	MAREL
26		Place DAF unit on plinths	1 day	Wed 10/03/21	Wed 10/03/21	25	CRANSWICK
27		**Roof and Wall Cladding**	**23 days**	**Mon 15/03/21**	**Wed 14/04/21**		
28		ERECTION OF HANDRAIL, STAIR TOWER & SAFETY NETS	3 days	Mon 15/03/21	Wed 17/03/21	18	JBC ROOFING
29		DELIVERY OF ROOF & WALL CLADDING MATERIALS	1 day	Wed 17/03/21	Wed 17/03/21		JBC ROOFING
30		LOAD OUT ROOF AREA - CONTRACT CRANE LIFT	1 day	Thu 18/03/21	Thu 18/03/21	28	JBC ROOFING
31		INSTALLATION OF ROOF CLADDING	3 days	Fri 19/03/21	Tue 23/03/21	30	JBC ROOFING
32		INSTALLATION OF ROOF FLASHINGS	1 day	Wed 24/03/21	Wed 24/03/21	31	JBC ROOFING
33		DISMANTLE HANDRAIL, STAIR TOWER & SAFETY NETS	2 days	Wed 24/03/21	Thu 25/03/21	31	JBC ROOFING
34		INSTALLATION OF WALL CLADDING ALONG GL 1	1 day	Thu 25/03/21	Thu 25/03/21		JBC ROOFING
35		INSTALLATION OF WALL CLADDING ALONG GL K	2 days	Fri 26/03/21	Mon 29/03/21	34	JBC ROOFING
36		INSTALLATION OF WALL CLADDING ALONG GL B	1 day	Tue 30/03/21	Tue 30/03/21	35	JBC ROOFING
37		INSTALLATION OF WALL CLADDING ALONG GL 02	2 days	Wed 31/03/21	Thu 01/04/21	36	JBC ROOFING
38		INSTALLATION OF WALL CLADDING ALONG GL 00	3 days	Fri 02/04/21	Tue 06/04/21	37	JBC ROOFING
39		INSTALLATION OF TRIMLINE GUTTER & FLASHINGS	6 days	Wed 07/04/21	Wed 14/04/21	38	JBC ROOFING
40		**Food safe**	**15 days**	**Mon 17/05/21**	**Fri 04/06/21**		
41		Installation of Food safe walls/ ceilings	15 days	Mon 17/05/21	Fri 04/06/21		ACM
42		**Door Installations**	**10 days**	**Mon 17/05/21**	**Fri 28/05/21**		
43		Installation of roller shutter acess door	5 days	Mon 17/05/21	Fri 21/05/21		COOKS
44		Installation of personnel doors	5 days	Mon 24/05/21	Fri 28/05/21		COOKS
45		**Electrical Services**	**17 days**	**Mon 03/05/21**	**Tue 25/05/21**		
46		Installation of lighting and associated power supplies	15 days	Mon 03/05/21	Fri 21/05/21		ELECREF
47		Testing and Commissioning	2 days	Mon 24/05/21	Tue 25/05/21	46	ELECREF
48		**Fire Alarm**	**10 days**	**Mon 03/05/21**	**Fri 14/05/21**		
49		Installation of fire alarm system	10 days	Mon 03/05/21	Fri 14/05/21		PHOTOPRO
50		**EFFLUENT TANKS**	**186 days?**	**Tue 15/09/20**	**Tue 15/06/21**		
51		Order Placed	1 day	Tue 15/09/20	Tue 15/09/20		TANK CONSULT
52		Designs and Drawings	13 days	Wed 20/01/21	Fri 05/02/21	51	TANK CONSULT
53		Comments and Approvals	10 days	Mon 08/02/21	Fri 19/02/21	52	TANK CONSULT
54		Re Bar Procurement	13 days	Mon 22/02/21	Wed 10/03/21	53	TANK CONSULT
55		Steel Tank Procurement	30 days	Mon 22/02/21	Fri 02/04/21		TANK CONSULT
56		EXISTING MBBR PIPEWORK CONNECTIONS	2 days	Mon 29/03/21	Tue 30/03/21		TANK CONSULT
57		**MBBR TANK CONSTRUCTION**	**37 days**	**Mon 12/04/21**	**Tue 04/05/21**		TANK CONSULT
58		Base Construction	5 days	Mon 12/04/21	Fri 16/04/21		TANK CONSULT
59		Wall Construction	17 days	Mon 22/03/21	Tue 13/04/21	58	TANK CONSULT
60		Clear Area	3 days	Wed 14/04/21	Fri 16/04/21	59	TANK CONSULT
61		Wall Cure	10 days	Wed 14/04/21	Tue 27/04/21	59	TANK CONSULT
62		Testing by Cranswick	5 days	Wed 28/04/21	Tue 04/05/21	61	CRANSWICK
63		**BUFFER TANK CONSTRUCTION**	**97 days?**	**Mon 01/02/21**	**Tue 15/06/21**		**TANK CONSULT**
64		Prep and blind buffer tank area	3 days	Wed 24/03/21	Fri 26/03/21		TANK CONSULT
65		Base Construction	15 days	Mon 29/03/21	Fri 16/04/21		TANK CONSULT
66		Erect Top ring	2 days	Mon 19/04/21	Tue 20/04/21	65	TANK CONSULT
67		Erect Tank	5 days	Wed 21/04/21	Tue 27/04/21	66	TANK CONSULT
68		Base seal	2 days	Wed 28/04/21	Thu 29/04/21	67	TANK CONSULT
69		Base seal cure	8 days	Fri 30/04/21	Tue 11/05/21	68	TANK CONSULT
70		Tank Testing (by others)	9 days	Wed 12/05/21	Mon 24/05/21	69	TANK CONSULT
71		**AERATION TANK WALKWAY WORKS**	**97 days**	**Mon 01/02/21**	**Tue 15/06/21**		**TANK CONSULT**
72		Designs and Drawings	15 days	Mon 01/02/21	Fri 19/02/21		TANK CONSULT
73		Comments and Approvals	5 days	Mon 22/02/21	Fri 26/02/21	72	TANK CONSULT
74		Manufacture and Partial Erect	40 days	Mon 05/04/21	Fri 28/05/21	73	TANK CONSULT
75		Deliver to Site and Install	12 days	Mon 31/05/21	Tue 15/06/21	74	TANK CONSULT
76		**BUFFER TANK STAIRCASE ALTE/ CATLADDRS**	**97 days?**	**Mon 01/02/21**	**Tue 15/06/21**		**TANK CONSULT**
77		Designs and Drawings	15 days	Mon 01/02/21	Fri 19/02/21		TANK CONSULT
78		Comments and Approvals	5 days	Mon 22/02/21	Fri 26/02/21	72	TANK CONSULT
79		Staircase Base Construction	5 days	Wed 10/03/21	Tue 16/03/21		TANK CONSULT
80		Manufacture and Partial Erect	40 days	Mon 05/04/21	Fri 28/05/21	78	TANK CONSULT
81		Deliver to Site and Install	12 days?	Mon 31/05/21	Tue 15/06/21	80	TANK CONSULT
82		**Wand Aqua Project Programme**	**158.5 days**	**Wed 11/11/20**	**Mon 21/06/21**		
83		Start project June	0 days	Wed 11/11/20	Wed 11/11/20		MAREL
84		**Installation of equipment sequence**	**76 days**	**Fri 05/02/21**	**Mon 07/06/21**		
85		DAF plinths ready	0 days	Fri 05/02/21	Fri 05/02/21		CRANSWICK
86		Building ready	0 days	Wed 21/04/21	Wed 21/04/21		CRANSWICK
87		Equalisation tank ready	0 days	Mon 03/05/21	Mon 03/05/21		TANK CONSULT
88		MBR tank ready	0 days	Wed 05/05/21	Wed 05/05/21	82	TANK CONSULT
89		Civil works ready	0 days	Mon 07/06/21	Mon 07/06/21		CRANSWICK
90		**Shipment**	**34 days**	**Tue 09/03/21**	**Mon 26/04/21**		
91		Delivery DAF	1 day	Tue 09/03/21	Tue 09/03/21		MAREL
92		Delivery of the membrane Expansion	1 day	Mon 22/03/21	Mon 22/03/21		MAREL
93		Delivery of the equipment	0 days	Mon 26/04/21	Mon 26/04/21		MAREL
94		Placing DAF	1 day	Tue 23/03/21	Tue 23/03/21	92	CRANSWICK
95		**Biobrane 1 and 2 upgrade**	**5 days**	**Tue 25/03/21**	**Mon 29/03/21**		
96		**Tank 3**	**3 days**	**Tue 25/03/21**	**Thu 25/03/21**		
97		take out membranes	1 day	Tue 25/03/21	Tue 25/03/21	92	MAREL
98		add extra membrane	1 day	Wed 24/03/21	Wed 24/03/21	97	MAREL
99		add extra drain to tan	1 day	Wed 24/03/21	Wed 24/03/21	97	MAREL
100		replace membrane	1 day	Thu 25/03/21	Thu 25/03/21	98	MAREL
101		**Tank 2**	**3 days**	**Thu 25/03/21**	**Mon 29/03/21**		
102		Take out membranes	1 day	Thu 25/03/21	Thu 25/03/21	99	MAREL
103		add extra membrane	1 day	Fri 26/03/21	Fri 26/03/21	102	MAREL
104		add extra drain to tan	1 day	Fri 26/03/21	Fri 26/03/21	102	MAREL
105		replace membrane	1 day	Mon 29/03/21	Mon 29/03/21	103	MAREL
106		**Pretreatment**	**22 days**	**Tue 27/04/21**	**Wed 26/05/21**		
107		Pretreatment delivery	1 day	Tue 27/04/21	Tue 27/04/21		MAREL
108		Filter, equalization equipment, chemical dosing	5 days	Wed 28/04/21	Tue 04/05/21	107	MAREL
109		pretreatment piping and cabling	15 days	Wed 05/05/21	Tue 25/05/21	108	MAREL
110		I/O check and dry run	1 day	Wed 26/05/21	Wed 26/05/21	109	MAREL
111		**Pump pit (Biobond lab)**	**4.5 days**	**Thu 27/05/21**	**Wed 02/06/21**		
112		Prepare piping and cabling	2 days	Thu 27/05/21	Fri 28/05/21	110	MAREL
113		STOP INCOMING WATER TO PLANT	0 days	Mon 31/05/21	Mon 31/05/21	112	CRANSWICK
114		Replace pumps and connect piping and cabling	1.5 days	Mon 31/05/21	Tue 01/06/21	113	MAREL
115		Start pretreatment without chemicals or wet sludge disposal	1 day	Tue 01/06/21	Wed 02/06/21	114	MAREL
116		**Selector (weekend job)**	**13 days**	**Wed 02/06/21**	**Mon 21/06/21**		
117		Prepare piping and cabling	10 days	Wed 02/06/21	Wed 16/06/21	115	MAREL
118		Start buffering in EQ	0 days	Wed 16/06/21	Wed 16/06/21	117	MAREL
119		stop return flows	0 days	Wed 16/06/21	Wed 16/06/21	118	MAREL
120		empty selector	1 day	Wed 16/06/21	Thu 17/06/21	119	MAREL
121		install pump	1 day	Thu 17/06/21	Fri 18/06/21	120	MAREL
122		Stop buffering and run EQ and selector	1 day	Fri 18/06/21	Mon 21/06/21	121	MAREL
123		**Pumpex 67**	**12 days**	**Wed 12/05/21**	**Thu 27/05/21**		
124		Prepare piping and cabling	10 days	Wed 12/05/21	Tue 25/05/21		MAREL
125		place pumps inside the tank	2 days	Wed 26/05/21	Thu 27/05/21	124	MAREL
126		**Biobrane**	**28 days**	**Tue 27/04/21**	**Thu 03/06/21**		
127		Remote Switch panel	10 days	Wed 28/04/21	Tue 11/05/21	133	MAREL
128		pump skids	3 days	Wed 28/04/21	Fri 30/04/21	133	MAREL
129		piping	10 days	Mon 03/05/21	Fri 14/05/21		MAREL
130		cabling	10 days	Wed 05/05/21	Tue 18/05/21		MAREL
131		Biobrane delivery	1 day	Tue 27/04/21	Tue 27/04/21		MAREL
132		membrane cassete	2 days	Wed 19/05/21	Thu 20/05/21	130	MAREL
133		Start-up	10 days	Fri 21/05/21	Thu 03/06/21	132	MAREL
134		**Decanter**	**15 days**	**Tue 25/05/21**	**Mon 14/06/21**		
135		Prepare piping and cabling	5 days	Tue 25/05/21	Mon 31/05/21		MAREL
136		Install pumps	2 days	Tue 01/06/21	Wed 02/06/21	135	MAREL
137		Install auger	2 days	Thu 03/06/21	Fri 04/06/21	136	MAREL
138		Delivery of the decanter and decanter switch panel	1 day	Mon 07/06/21	Mon 07/06/21		MAREL
139		Install decanter	5 days	Tue 08/06/21	Mon 14/06/21	138	MAREL
140		cabling decanter	5 days	Tue 08/06/21	Mon 14/06/21	138	MAREL

V1 - 22.05.2021 - INITIAL ISSUE
V2 - 25.05.2021 - TANK CONSULT DATES FOR BUFFER TANK AND MBBR CONFIRMED
V3 07.06.2021 - BIC PROGRAMME CONFIRMED AND TANK CONSULT PROGRAMME UPDATED