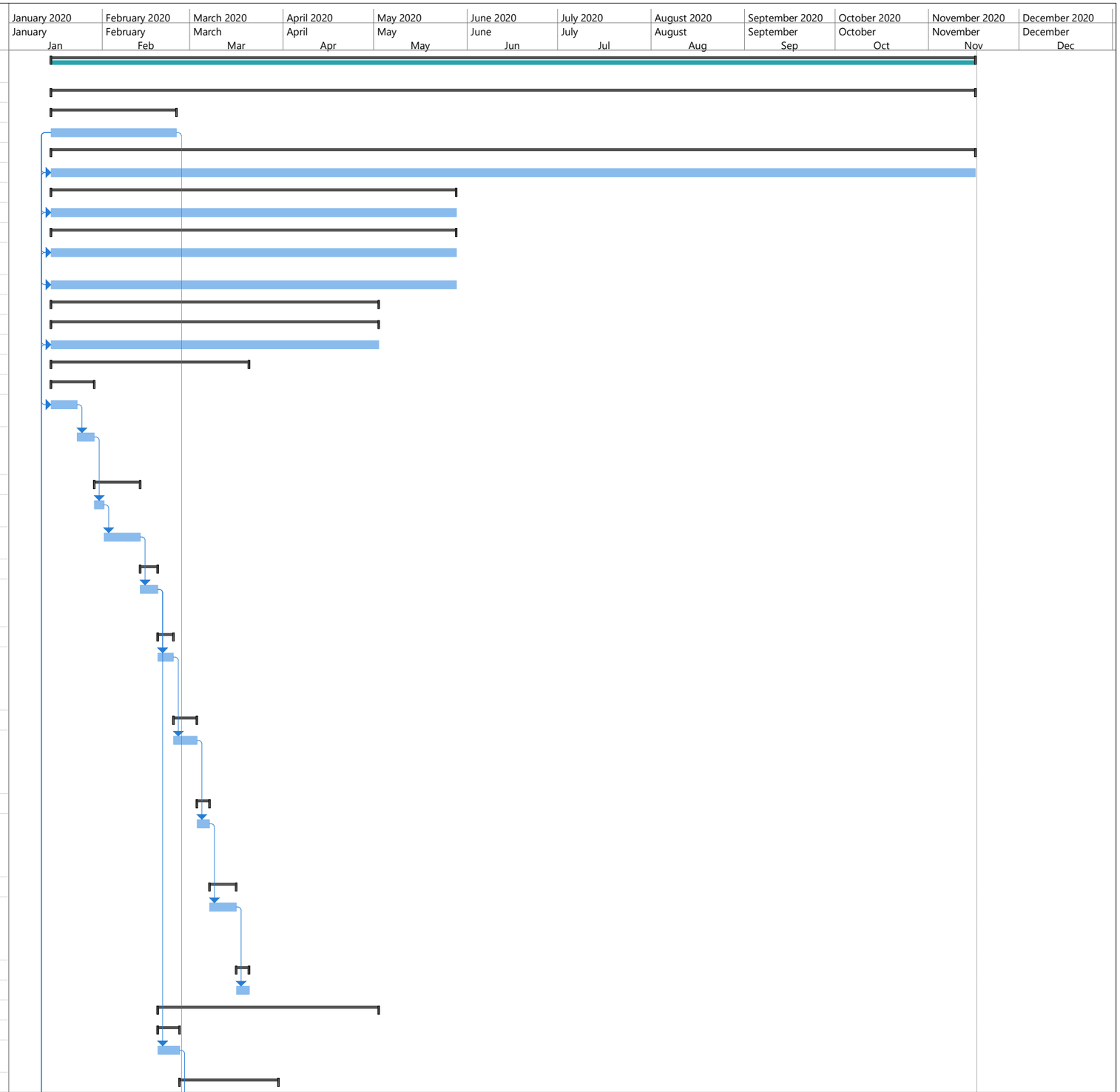
ID	Phase	Task Name	Duration	Start	Finish
1		**PRELIMINARY PROGRAMME - GARDEN ROUTE WASTE DISPOSAL FACILITY**	**212 days**	**15 01 20**	**16 11 20**
2		**PRELIMINARIES AND GENERAL**	**212 days**	**15 01 20**	**16 11 20**
3		**FIXED-CHARGE ITEMS**	**30 days**	**15 01 20**	**25 02 20**
4		Contractual Requirements and Establishment on site	30 days	15 01 20	25 02 20
5		**TIME-RELATED ITEMS**	**212 days**	**15 01 20**	**16 11 20**
6		Operate and maintain facilities on the Site:	212 days	15 01 20	16 11 20
7		**SUMS STATED PROVISIONALLY BY ENGINEER**	**90 days**	**15 01 20**	**28 05 20**
8		Cost as required by Engineer	90 days	15 01 20	28 05 20
9		**TEMPORARY WORKS**	**90 days**	**15 01 20**	**28 05 20**
10		Excavate by hand in soft material to expose any services as required by the Engineer	90 days	15 01 20	28 05 20
11		Temporary protection of services on site	90 days	15 01 20	28 05 20
12	**PH 1**	**ACCESS ROADS**	**71 days**	**15 01 20**	**02 05 20**
13	**PH 1**	**PRELIMINARIES AND GENERAL**	**71 days**	**15 01 20**	**02 05 20**
14	PH 1	Contractual Requirements and Establishment on site	71 days	15 01 20	02 05 20
15	**PH 1**	**EXTERNAL ACCESS ROADS**	**47 days**	**15 01 20**	**20 03 20**
16	**PH 1**	**Site Clearance**	**9 days**	**15 01 20**	**29 01 20**
17	PH 1	Remove topsoil to nominal depth of 150mm and stockpile on site	7 days	15 01 20	23 01 20
18	PH 1	Excavate and remove previously treated roadbed material to a nominal depth of 150mm and dispose of on landfill site	2 days	23 01 20	29 01 20
19	**PH 1**	**Earthworks**	**12 days**	**29 01 20**	**13 02 20**
20	PH 1	Excavate in all materials and stockpile for later use as layerworks for roadbed preperation	3 days	29 01 20	01 02 20
21	PH 1	Excavate in all materials and dispose of on landfill site	9 days	01 02 20	13 02 20
22	**PH 1**	**Road Bed**	**4 days**	**13 02 20**	**19 02 20**
23	PH 1	Road-bed preparation and compaction of material to 90% mod. AASHTO max density at OMC (rip and recompact 150mm layer)	4 days	13 02 20	19 02 20
24	**PH 1**	**Lower Selected Layer**	**4 days**	**19 02 20**	**24 02 20**
25	PH 1	Import material from commercial source and construct selected layer, compact to 93% mod AASHTO max. density (150mm lower selected layer G9 material)	4 days	19 02 20	24 02 20
26	**PH 1**	**Upper Selected Layer**	**4 days**	**24 02 20**	**03 03 20**
27	PH 1	Import material from commercial source and construct selected layer, compact to 93% mod AASHTO max. density (150mm lower selected layer G7 material)	4 days	24 02 20	03 03 20
28	**PH 1**	**Sub Base**	**4 days**	**03 03 20**	**07 03 20**
29	PH 1	Import and place from commercial source for selected layer and compact to 95% mod AASHTO max. density (150mm upper selected layer G5 material)	4 days	03 03 20	07 03 20
30	**PH 1**	**Base**	**6 days**	**07 03 20**	**16 03 20**
31	PH 1	Imporrt and place from commercial source for selected layer and compact to 97% mod AASHTO max. density (150mm gravel wearing course C3 Cement Stabilised)	6 days	07 03 20	16 03 20
32	**PH 1**	**Pavement Surface**	**4 days**	**16 03 20**	**20 03 20**
33	PH 1	50mm Ashpalt premix	4 days	16 03 20	20 03 20
34	**PH 1**	**INTERNAL ACCESS ROADS**	**46 days**	**19 02 20**	**02 05 20**
35	**PH 1**	**Site Clearance**	**6 days**	**19 02 20**	**26 02 20**
36	PH 1	Remove topsoil to nominal depth of 150mm and stockpile on site	6 days	19 02 20	26 02 20
37	**PH 1**	**Road Bed**	**20 days**	**26 02 20**	**30 03 20**



Project: EDEN PRELIM PROGRA
Date: 01 10 19

Task
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Manual Task
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Finish-only
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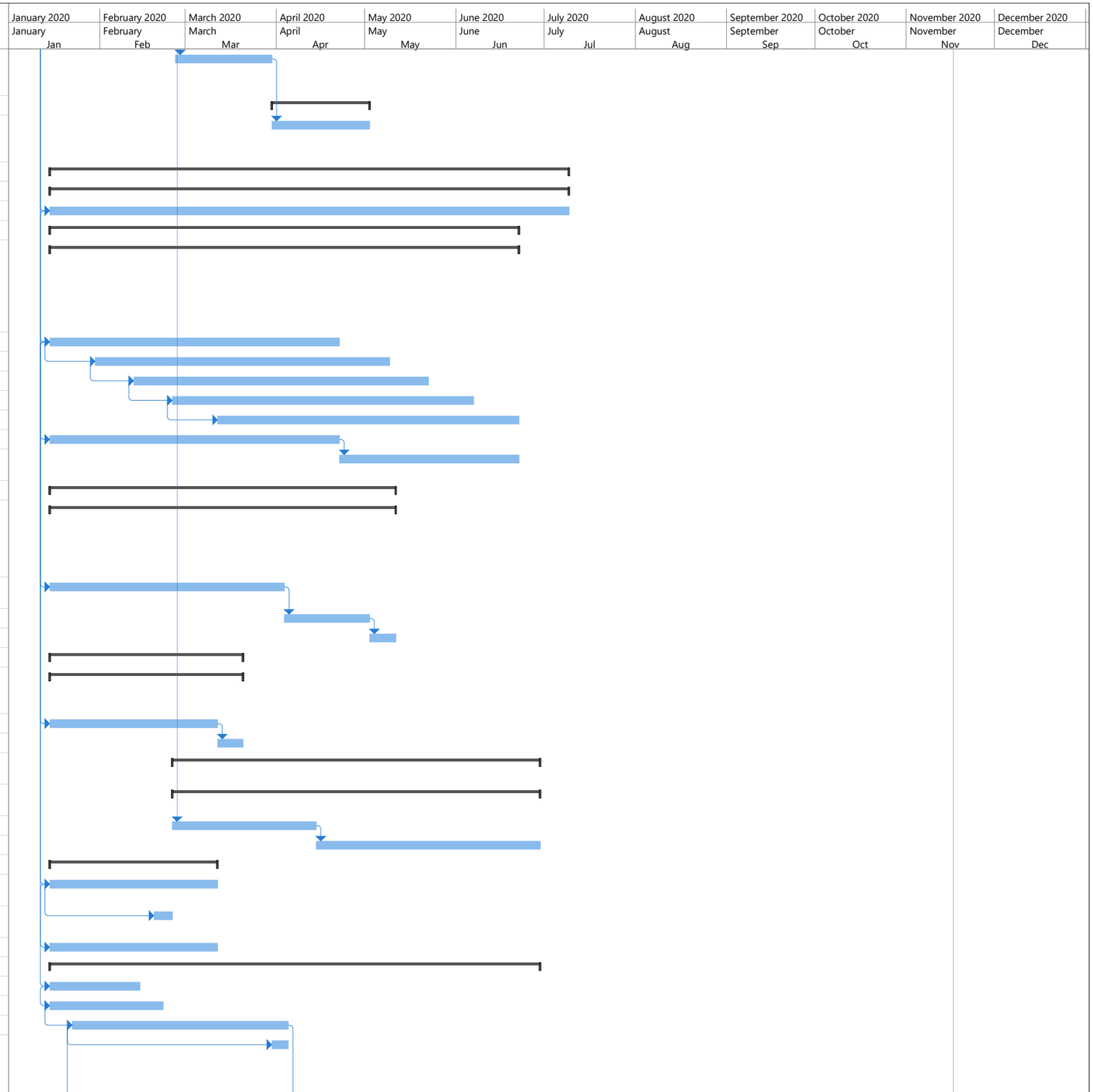
External Milestone
Deadline
Progress
Manual Progress

ID	Phase	Task Name	Duration	Start	Finish
38	PH 1	Road-bed preparation and compaction of material to 90% mod. AASHTO max density at OMC (rip and recompact 150mm layer)	20 days	26 02 20	30 03 20
39	**PH 1**	**Subbase and Wearing Course**	**20 days**	**30 03 20**	**02 05 20**
40	PH 1	G5 quality material subbase and gravel wearing course compacted to 96% of mod AASHTO density (150mm thick) to access roads	20 days	30 03 20	02 05 20
41	**PH 1**	**BUILDINGS AND ASSOCIATED INFRASTRUCTURE**	**117.56 days**	**15 01 20**	**09 07 20**
42	**PH 1**	**PRELIMINARIES AND GENERAL**	**117.56 days**	**15 01 20**	**09 07 20**
43	PH 1	Contractual Requirements and Establishment on site	117.56 days	15 01 20	09 07 20
44	**PH 1**	**BUILDINGS AND ANCILLARY WORKS**	**106 days**	**15 01 20**	**22 06 20**
45	**PH 1**	**Standard brick and mortar construction, concrete floors with suitable floor covering, plastered and painted walls, ceilings, glazed windows and Chromadek or similar corrugated iron roofing. Buildings to be designed with appropriate electrical reticulati**	**106 days**	**15 01 20**	**22 06 20**
46	PH 1	Guard house and Weighbridge office	66 days	15 01 20	22 04 20
47	PH 1	Offices and Ablution facilities	66 days	30 01 20	09 05 20
48	PH 1	Meeting Room	66 days	12 02 20	22 05 20
49	PH 1	Lecture Room	66 days	25 02 20	06 06 20
50	PH 1	Laboratory	66 days	12 03 20	22 06 20
51	PH 1	WWTP	66 days	15 01 20	22 04 20
52	PH 1	Allowance to pave the surrounding of buildings with interlocking paving blocks	40 days	22 04 20	22 06 20
53	**PH 1**	**WORKSHOPS AND CARPORTS**	**77 days**	**15 01 20**	**11 05 20**
54	PH 1	The maintenance shed to have a concrete floor with a steel superstructure roofed and cladded on at least three sides with Chromadek or similar steel sheeting. All steel used in the construction of Landfill Site buildings should be treated for rust, beari	77 days	15 01 20	11 05 20
55	PH 1	Workshop Structure (Structure, cladding and one roller shutter door)	55 days	15 01 20	03 04 20
56	PH 1	Concrete slab 150mm thick to Workshop floor	16 days	03 04 20	02 05 20
57	PH 1	Carport	6 days	02 05 20	11 05 20
58	**PH 1**	**WEIGHBRIDGE AND ASSOCIATED SOFTWARE**	**47 days**	**15 01 20**	**20 03 20**
59	PH 1	The supply and installation of all weighbridge components that include the civil work, hardware components as well as software components	47 days	15 01 20	20 03 20
60	PH 1	Installation of 24m Weighbridge complete	40 days	15 01 20	11 03 20
61	PH 1	Associated weighbridge software operating sytem	7 days	12 03 20	20 03 20
62	**PH 1**	**BOREHOLES FOR MONITORING AND WATER SUPPLY PURPOSES**	**80 days**	**25 02 20**	**29 06 20**
63	PH 1	Installation of boreholes complete with couplings, fittings and pipes	80 days	25 02 20	29 06 20
64	PH 1	Boreholes	30 days	25 02 20	14 04 20
65	PH 1	Distribution and storage systems	50 days	14 04 20	29 06 20
66	**PH 1**	**PERIMETER FENCING**	**40 days**	**15 01 20**	**11 03 20**
67	PH 1	Install 2.4m concrete palisade fence according to manufacturers specifications	40 days	15 01 20	11 03 20
68	PH 1	Install steel gates 7m wide, complete with all fittings and sliding rails	5 days	19 02 20	25 02 20
69	PH 1	Install 1.2m (H) diamond mesh fence	40 days	15 01 20	11 03 20
70	**PH 1**	**GENERAL WASTE CELL - CELL 1**	**110 days**	**15 01 20**	**29 06 20**
71	PH 1	Clear and strip the site	22 days	15 01 20	14 02 20
72	PH 1	Remove topsoil and stockpile on site	28 days	15 01 20	22 02 20
73	PH 1	Excavate to all levels and stockpile on site	50 days	22 01 20	04 04 20
74	PH 1	Construct cell control/starter berm in G7 material from previosuly excavated material with compaction to 90% of modified AASHTO maximum density at OMC. No layer shall exceed 150mm thickness after compaction	5 days	30 03 20	04 04 20



Project: EDEN PRELIM PROGRA
Date: 01 10 19

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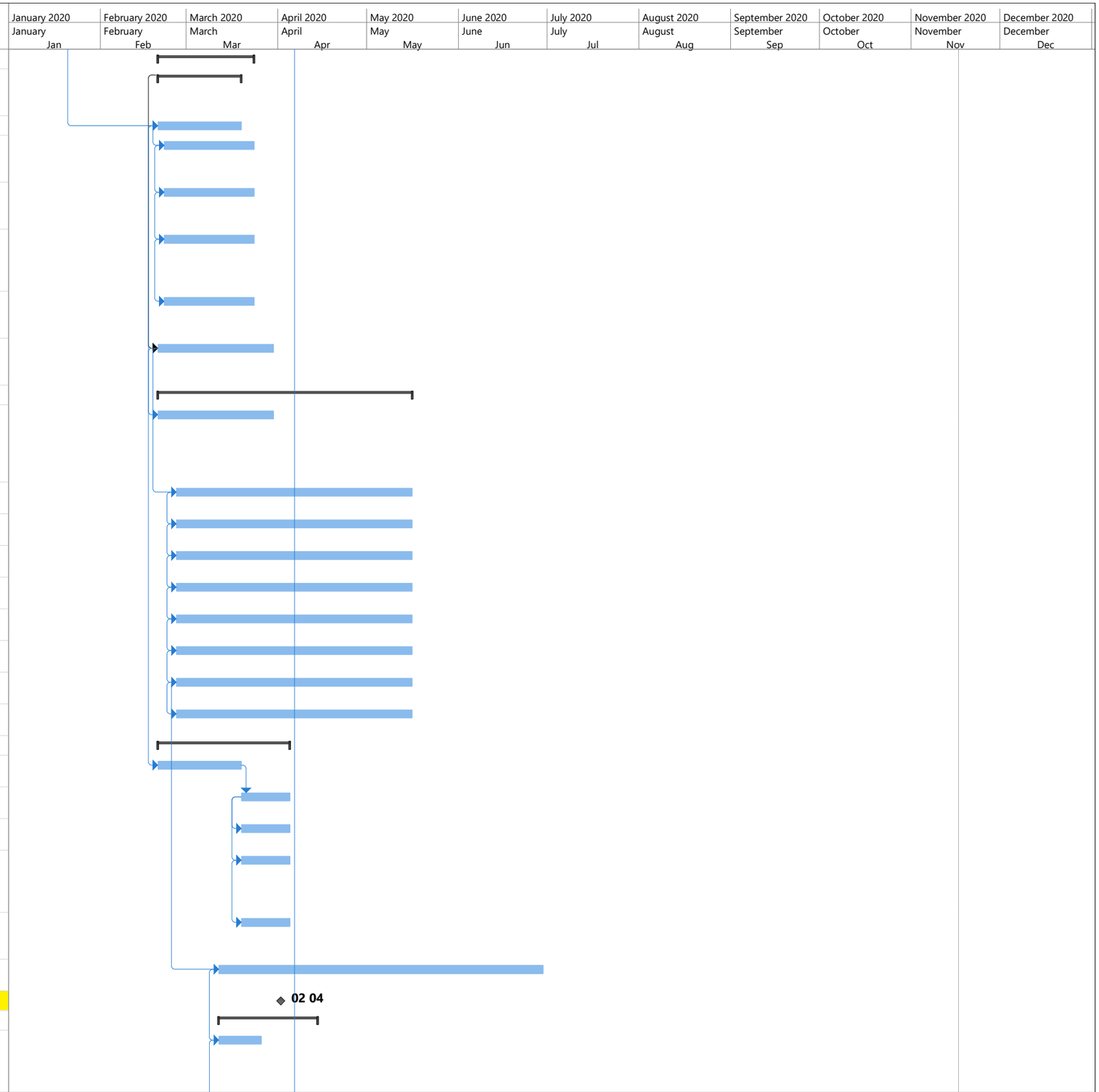
ID	Phase	Task Name	Duration	Start	Finish
75	**PH 1**	**Underdrainage and monitoring system**	**22 days**	**20 02 20**	**23 03 20**
76	PH 1	Excavate in all materials for HDPE underdrainage collection pipe trenches, backfill, compact, and stockpile surplus material on site for depths:	20 days	20 02 20	19 03 20
77	PH 1	0-3m	20 days	20 02 20	19 03 20
78	PH 1	Woven Polytex PT515 (or similar approved polyester material) to underdrainage collection and monitoring system	20 days	22 02 20	23 03 20
79	PH 1	Import, supply and place 19mm crushed stone or simular approved for Underdrainage network in the underdrainage and monitoring system	20 days	22 02 20	23 03 20
80	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone underdrainage detection and monitoring systems	20 days	22 02 20	23 03 20
81	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	20 days	22 02 20	23 03 20
82	PH 1	Rip in-situ material to a depth of 150mm and compact to 95% modified AASHTO max density at OMC for base preparation (side slopes included)	25 days	20 02 20	30 03 20
83	**PH 1**	**Liners**	**55 days**	**20 02 20**	**16 05 20**
84	PH 1	Excavate in all material up to 0,6m deep for anchor trench and backfill and compact to 90% modified AASHTO max density in layers not exceeding 150mm after liners and Geosynthetics have been placed/anchored in trench	25 days	20 02 20	30 03 20
85	PH 1	Supply and install XP 4.2\420 Geo-synthetic Clay Liner (GCL), in bases as per drawing	50 days	26 02 20	16 05 20
86	PH 1	Supply and Install XP 4.2\420 Geo-synthetic Clay Liner (GCL), to side slopes as per drawing	50 days	26 02 20	16 05 20
87	PH 1	Supply and install 1.5 mm thick HDPE smooth geomembrane, in bases as per drawing	50 days	26 02 20	16 05 20
88	PH 1	Supply and install 1.5 mm thick mono textured HDPE geomembrane, to side slopes as per drawing	50 days	26 02 20	16 05 20
89	PH 1	Import and place 200mm thick sand on top of A5 geotextile	50 days	26 02 20	16 05 20
90	PH 1	Supply and place A5 Non Woven Geotextile above the 200mm base sand protection layer	50 days	26 02 20	16 05 20
91	PH 1	Supply and place A10 Non Woven geotextile above HDPE membrane on side slopes only	50 days	26 02 20	16 05 20
92	PH 1	Supply and place A4 Non Woven geotextile above leachate drainage system	50 days	26 02 20	16 05 20
93	**PH 1**	**Leachate Collection Network**	**30 days**	**20 02 20**	**04 04 20**
94	PH 1	Cut V-dains to a depth of 300mm to accommodate leachate collection network	20 days	20 02 20	19 03 20
95	PH 1	Woven Polytex PT515 (or similar approved) to leachate collection system	10 days	19 03 20	04 04 20
96	PH 1	Import, supply and place 19mm crushed stone or simular approved for leachate network	10 days	19 03 20	04 04 20
97	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone leachate collection and monitoring systems	10 days	19 03 20	04 04 20
98	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	10 days	19 03 20	04 04 20
99	PH 1	Supply and place 38mm crushed stone material for leachate collection layer (minimum thickness of 150mm)	70 days	12 03 20	29 06 20
100	**PH 1**	**Service Commencement Date**	**0 days**	**02 04 20**	**02 04 20**
101	**PH 1**	**Miscellaneous**	**20 days**	**12 03 20**	**14 04 20**
102	PH 1	Cut into existing HDPE liners, cuspated drainage layer and Geosynthetic clay liner of leachate Dam, install new Phase 1 leachate disposal pipes to detail and seal HDPE and GCL liners around newly installed pipes	10 days	12 03 20	26 03 20



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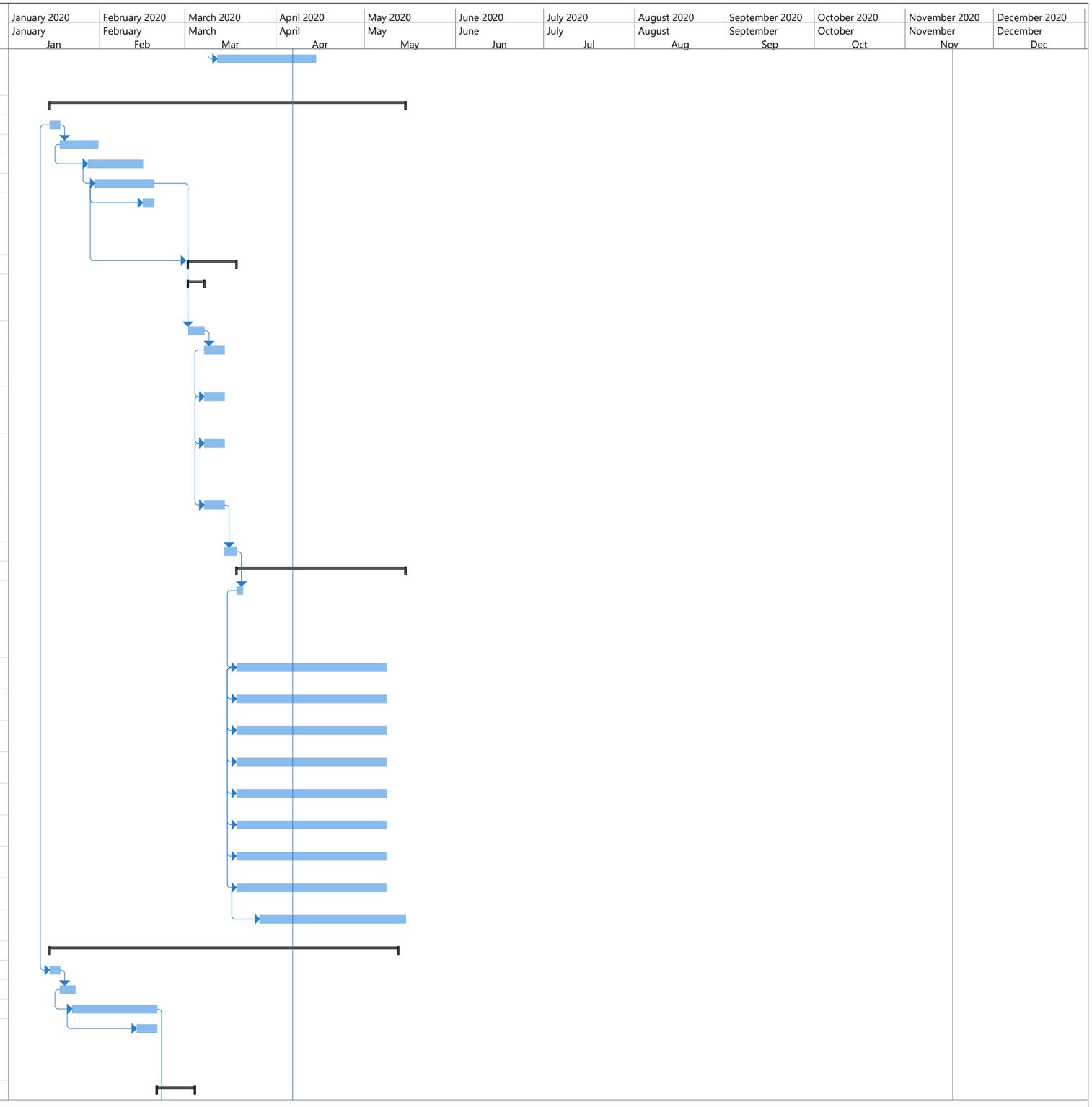
ID	Phase	Task Name	Duration	Start	Finish
103	PH 1	Reinstate stockpile grassed topsoil to leachate dam side slope and regularly water topsoil until vegitation is established	20 days	12 03 20	14 04 20
104	**PH 1**	**LEACHATE DAM**	**80 days**	**15 01 20**	**14 05 20**
105	PH 1	Clear and strip the site	3 days	15 01 20	18 01 20
106	PH 1	Remove topsoil and stockpile on site	8 days	18 01 20	31 01 20
107	PH 1	Excavate to all levels and stockpile on site	15 days	28 01 20	15 02 20
108	PH 1	Cut to fill	15 days	30 01 20	19 02 20
109	PH 1	Construct cell control/starter berm in G7 material from previosuly excavated material with compaction to 90% of modified AASHTO maximum density at OMC. No layer shall exceed 150mm thickness after compaction	2 days	15 02 20	19 02 20
110	**PH 1**	**Underdrainage and monitoring system**	**13 days**	**02 03 20**	**18 03 20**
111	PH 1	Excavate in all materials for HDPE underdrainage collection pipe trenches, backfill, compact, and stockpile surplus material on site for depths:	5 days	02 03 20	07 03 20
112	PH 1	0-1,5m	5 days	02 03 20	07 03 20
113	PH 1	Woven Polytex PT515 (or simular approved polyester material) to underdrainage collection and monitoring system	5 days	07 03 20	14 03 20
114	PH 1	Import, supply and place 19mm crushed stone or simular approved for Underdrainage network in the underdrainage and monitoring system	5 days	07 03 20	14 03 20
115	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone underdrainage detection and monitoring systems	5 days	07 03 20	14 03 20
116	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	5 days	07 03 20	14 03 20
117	PH 1	Rip in-situ material to a depth 0f 150mm and compact	3 days	14 03 20	18 03 20
118	**PH 1**	**Liners**	**35 days**	**18 03 20**	**14 05 20**
119	PH 1	Excavate in all material up to 0,6m deep for anchor trench and backfill and compact to 90% modified AASHTO max density in layers not exceeding 150mm after liners and Geosynthetics have been placed/anchored in trench	2 days	18 03 20	20 03 20
120	PH 1	Supply and install XP 4.2\420 Geo-synthetic Clay Liner (GCL), in bases as per drawing	30 days	18 03 20	08 05 20
121	PH 1	Supply and Install XP 4.2\420 Geo-synthetic Clay Liner (GCL), to side slopes as per drawing	30 days	18 03 20	08 05 20
122	PH 1	Supply and install 1.5 mm thick HDPE smooth geomembrane, in bases as per drawing	30 days	18 03 20	08 05 20
123	PH 1	Supply and install 1.5 mm thick mono textured HDPE geomembrane, to side slopes as per drawing	30 days	18 03 20	08 05 20
124	PH 1	Supply and install 2.0 mm thick HDPE smooth geomembrane, in bases as per drawing	30 days	18 03 20	08 05 20
125	PH 1	Supply and install 2.0 mm thick mono textured HDPE geomembrane, to side slopes as per drawing	30 days	18 03 20	08 05 20
126	PH 1	Supply and install HDPE cuspated geomembrane to base and leachate trenches as per drawing	30 days	18 03 20	08 05 20
127	PH 1	Supply and install A10 Geotextile protection layer HDPE membrane on side slopes	30 days	18 03 20	08 05 20
128	PH 1	Supply and install Armorflex or other approved protection to leachate dam base and slope	30 days	26 03 20	14 05 20
129	**PH 1**	**HAZARDOUS WASTE CELL**	**78 days**	**15 01 20**	**12 05 20**
130	PH 1	Clear and strip the site	3 days	15 01 20	18 01 20
131	PH 1	Remove topsoil and stockpile on site	4 days	18 01 20	23 01 20
132	PH 1	Excavate to all levels and stockpile on site	20 days	22 01 20	20 02 20
133	PH 1	Construct cell control/starter berm in G7 material from previosuly excavated material with compaction to 90% of modified AASHTO maximum density at OMC. No layer shall exceed 150mm thickness after compaction	5 days	13 02 20	20 02 20
134	**PH 1**	**Underdrainage and monitoring system**	**8 days**	**20 02 20**	**04 03 20**



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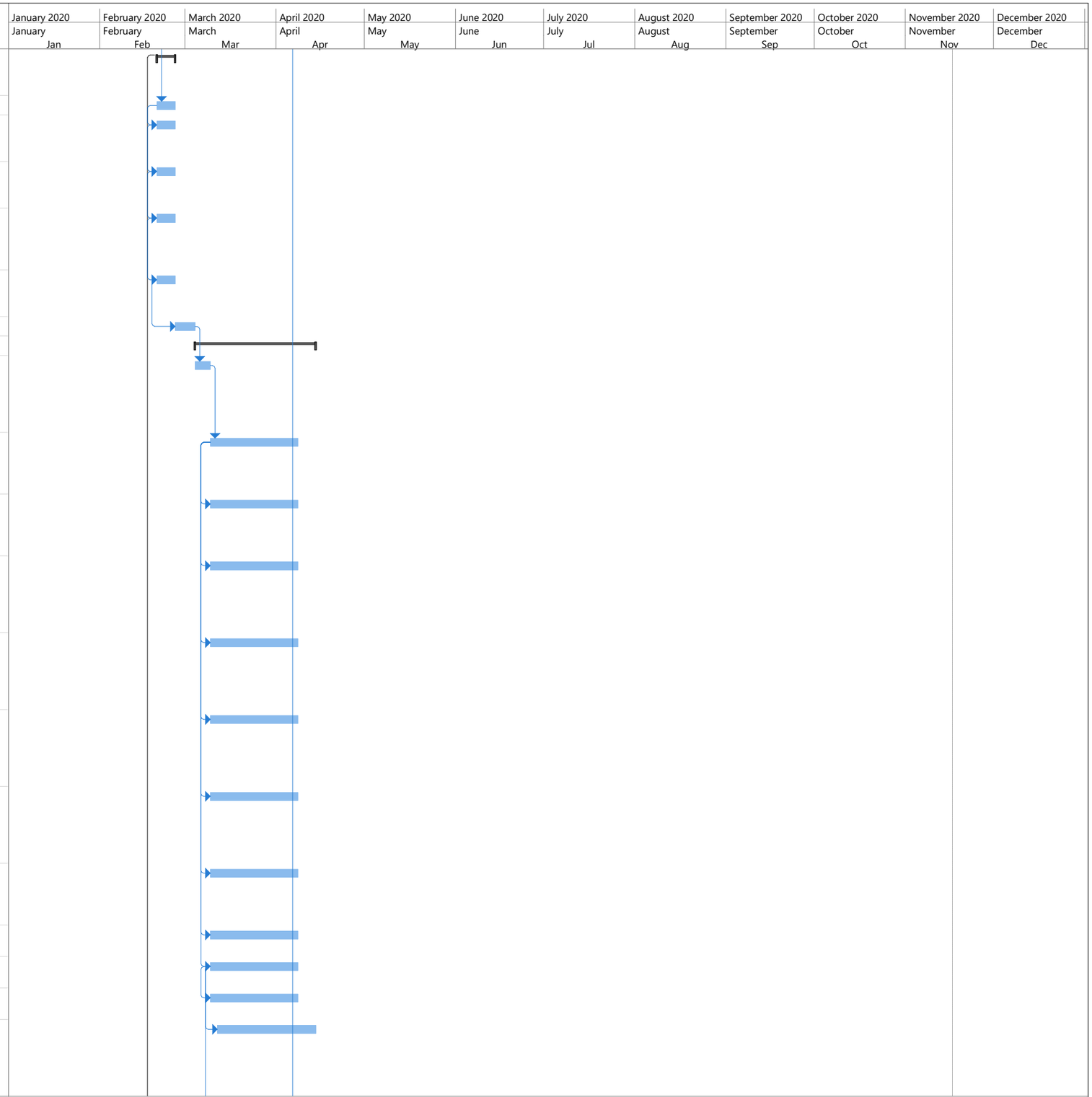
135	PH 1	Excavate in all materials for HDPE underdrainage collection pipe trenches, backfill, compact, and stockpile surplus material on site for depths:	5 days	20 02 20	26 02 20
136	PH 1	0-1,5m	5 days	20 02 20	26 02 20
137	PH 1	Woven Polytex PT515 (or simular approved polyester material) to underdrainage collection and monitoring system	5 days	20 02 20	26 02 20
138	PH 1	Import, supply and place 19mm crushed stone or simular approved for Underdrainage network in the underdrainage and monitoring system	5 days	20 02 20	26 02 20
139	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone underdrainage detection and monitoring systems	5 days	20 02 20	26 02 20
140	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	5 days	20 02 20	26 02 20
141	PH 1	Rip in-situ material to a depth 0f 150mm an compact	3 days	26 02 20	04 03 20
142	**PH 1**	**Liners**	**26 days**	**04 03 20**	**14 04 20**
143	PH 1	Excavate in all material up to 0,6m deep for anchor trench and backfill and compact to 90% modified AASHTO max density in layers not exceeding 150mm after liners and Geosynthetics have been placed/anchored in trench	4 days	04 03 20	09 03 20
144	PH 1	Supply and lay Geosynthetic Clay Liner XP 4.2/420 GCL (or similar approved) in base of excavation and leachate trenches to comply with the requirements as indicated on the drawings	20 days	09 03 20	08 04 20
145	PH 1	Supply and lay Geosynthetic Clay Liner XP 4.2/420 GCL (or similar approved) to side slopes and anchor trench to comply with the requirements as indicated on the drawings	20 days	09 03 20	08 04 20
146	PH 1	Supply and place 1.5mm thick HDPE 406 OIT smooth geomebrane (or similar approved) to base and leachate collection trenches of phase to comply with the requirements as specified on the drawings and in the document	20 days	09 03 20	08 04 20
147	PH 1	Supply and place 1.5mm thick HDPE 406 GM 13 Mono-textured geomebrane (or simular approved) to side slopes and leachate trenches of phase to comply with the requirements as specified on the drawings and in the document	20 days	09 03 20	08 04 20
148	PH 1	Supply and place 2.0mm thick HDPE 406 OIT smooth geomebrane (or similar approved) to base and leachate collection trenches of phase to comply with the requirements as specified on the drawings and in the document	20 days	09 03 20	08 04 20
149	PH 1	Supply and place 2.0mm thick HDPE 406 GM 13 Mono-textured geomebrane (or simular approved) to side slopes and leachate trenches of phase to comply with the requirements as specified on the drawings and in the document	20 days	09 03 20	08 04 20
150	PH 1	Supply and place HDPE Cuspated drainage geomebrane (or simular approved) to the base and leachate trenches of phase to comply with the requirements as specified on the drawings and in the document	20 days	09 03 20	08 04 20
151	PH 1	Supply and place A5 Non Woven Geotextile above the 200mm base sand protection layer	20 days	09 03 20	08 04 20
152	PH 1	Supply and place A10 Non Woven geotextile above HDPE membrane on side slopes only	20 days	09 03 20	08 04 20
153	PH 1	Supply and place A4 Non Woven geotextile above leachate drainage system	20 days	09 03 20	08 04 20
154	PH 1	(a) place in cell floor to designed shape and levels with compaction to 100% of modified AASHTO maximum density at OMC. No layer shall exceed 200mm thickness after compaction. (suitable inert material to be used)	20 days	12 03 20	14 04 20



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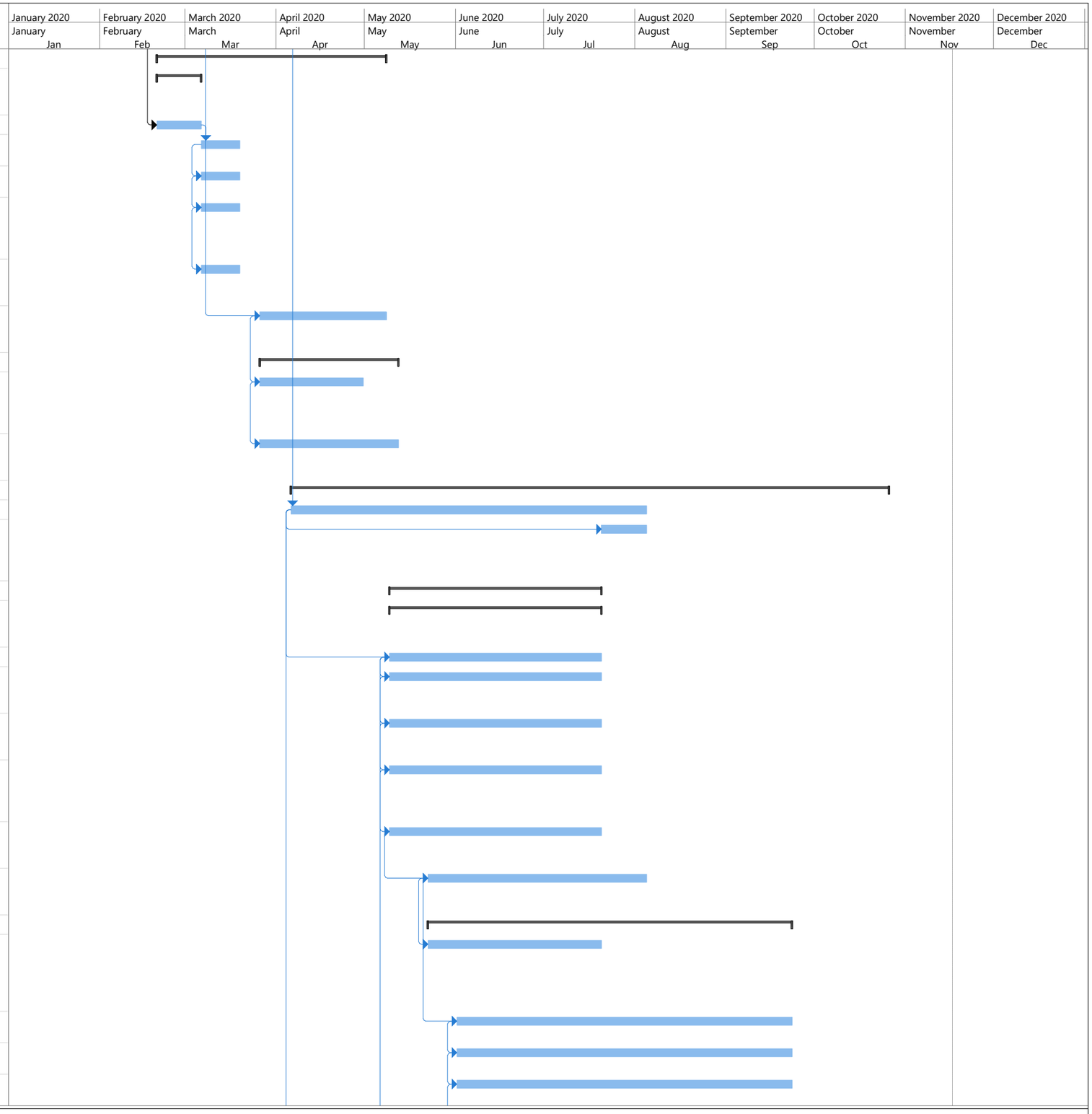
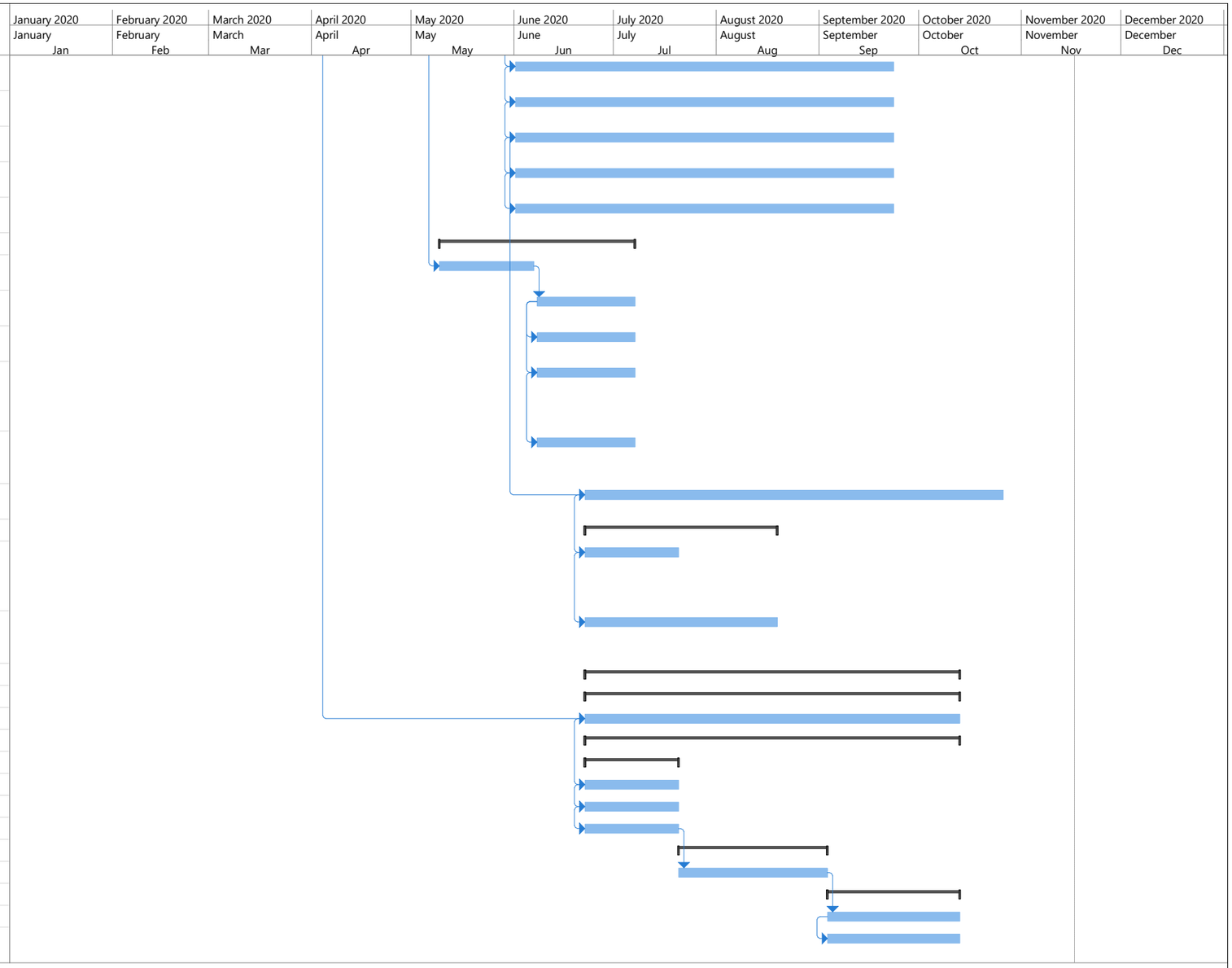
155	**PH 1**	**Leachate collection network**	**49 days**	**20 02 20**	**08 05 20**
156	PH 1	Excavate in all materials for HDPE leachate collection pipe trenches, backfill, compact, and stockpile surplus material on site for depths:	10 days	20 02 20	06 03 20
157	PH 1	0-1,5m	10 days	20 02 20	06 03 20
158	PH 1	Import, supply and place 19mm crushed stone or simular approved for leachate network	10 days	06 03 20	19 03 20
159	PH 1	Woven Polytex PT515 (or simular approved) to leachate collection system	10 days	06 03 20	19 03 20
160	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone leachate collection and monitoring systems	10 days	06 03 20	19 03 20
161	PH 1	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	10 days	06 03 20	19 03 20
162	PH 1	Supply and place 38mm crushed stone material for leachate collection layer (minimum thickness of 150mm)	25 days	26 03 20	08 05 20
163	**PH 1**	**Miscellaneous**	**28 days**	**26 03 20**	**12 05 20**
164	PH 1	Cut into existing HDPE liners, cuspated drainage layer and Geosynthetic clay liner of leachate Dam, install new Phase 1 leachate disposal pipes to detail and seal HDPE and GCL liners around newly installed pipes	20 days	26 03 20	30 04 20
165	PH 1	Reinstate stockpile grassed topsoil to leachate dam side slope and regularly water topsoil until vegitation is established	28 days	26 03 20	12 05 20
166	**PH2**	**GENERAL WASTE CELL - CELL 2**	**140 days**	**06 04 20**	**26 10 20**
167	PH2	Excavate to all levels and stockpile on site	80 days	06 04 20	04 08 20
168	PH2	Construct cell control/starter berm in G7 material from previosuly excavated material with compaction to 90% of modified AASHTO maximum density at OMC. No layer shall exceed 150mm thickness after compaction	10 days	20 07 20	04 08 20
169	**PH2**	**Underdrainage and monitoring system**	**50 days**	**09 05 20**	**20 07 20**
170	PH2	Excavate in all materials for HDPE underdrainage collection pipe trenches, backfill, compact, and stockpile surplus material on site for depths:	50 days	09 05 20	20 07 20
171	PH2	0-1,5m	50 days	09 05 20	20 07 20
172	PH2	Woven Polytex PT515 (or similar approved polyester material) to underdrainage collection and monitoring system	50 days	09 05 20	20 07 20
173	PH2	Import, supply and place 19mm crushed stone or simular approved for Underdrainage network in the underdrainage and monitoring system	50 days	09 05 20	20 07 20
174	PH2	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone underdrainage detection and monitoring systems	50 days	09 05 20	20 07 20
175	PH2	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	50 days	09 05 20	20 07 20
176	PH2	Rip in-situ material to a depth of 150mm and compact to 95% modified AASHTO max density at OMC for base preparation (side slopes included)	50 days	22 05 20	04 08 20
177	**PH2**	**Liners**	**85 days**	**22 05 20**	**23 09 20**
178	PH2	Excavate in all material up to 0,6m deep for anchor trench and backfill and compact to 90% modified AASHTO max density in layers not exceeding 150mm after liners and Geosynthetics have been placed/anchored in trench	40 days	22 05 20	20 07 20
179	PH2	Supply and install XP 4.2\420 Geo-synthetic Clay Liner (GCL), in bases as per drawing	80 days	01 06 20	23 09 20
180	PH2	Supply and Install XP 4.2\420 Geo-synthetic Clay Liner (GCL), to side slopes as per drawing	80 days	01 06 20	23 09 20
181	PH2	Supply and install 1.5 mm thick HDPE smooth geomembrane, in bases as per drawing	80 days	01 06 20	23 09 20



Project: EDEN PRELIM PROGRA
Date: 01 10 19

Task
Split
Milestone
Summary
Project Summary
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
External Tasks
External Milestone
Deadline
Progress
Manual Progress

ID	Phase	Task Name	Duration	Start	Finish
182	PH2	Supply and install 1.5 mm thick mono textured HDPE geomembrane, to side slopes as per drawing	80 days	01 06 20	23 09 20
183	PH2	Import and place 200mm thick sand on top of A5 geotextile	80 days	01 06 20	23 09 20
184	PH2	Supply and place A5 Non Woven Geotextile above the 200mm base sand protection layer	80 days	01 06 20	23 09 20
185	PH2	Supply and place A10 Non Woven geotextile above HDPE membrane on side slopes only	80 days	01 06 20	23 09 20
186	PH2	Supply and place A4 Non Woven geotextile above leachate drainage system	80 days	01 06 20	23 09 20
187	**PH2**	**Leachate Collection Network**	**40 days**	**09 05 20**	**07 07 20**
188	PH2	Cut V-dains to a depth of 300mm to accommodate leachate collection network	20 days	09 05 20	06 06 20
189	PH2	Woven Polytex PT515 (or similar approved) to leachate collection system	20 days	08 06 20	07 07 20
190	PH2	Import, supply and place 19mm crushed stone or simular approved for leachate network	20 days	08 06 20	07 07 20
191	PH2	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE perforated pipe or similar approved in 19mm stone leachate collection and monitoring systems	20 days	08 06 20	07 07 20
192	PH2	Supply, lay and bed complete with all couplings and fittings, pipes with sizes:160mm Ø class 12 HDPE non-perforated pipe or similar approved	20 days	08 06 20	07 07 20
193	PH2	Supply and place 38mm crushed stone material for leachate collection layer (minimum thickness of 150mm)	90 days	22 06 20	26 10 20
194	**PH2**	**Miscellaneous**	**40 days**	**22 06 20**	**19 08 20**
195	PH2	Cut into existing HDPE liners, cuspated drainage layer and Geosynthetic clay liner of leachate Dam, install new Phase 1 leachate disposal pipes to detail and seal HDPE and GCL liners around newly installed pipes	20 days	22 06 20	20 07 20
196	PH2	Reinstate stockpile grassed topsoil to leachate dam side slope and regularly water topsoil until vegitation is established	40 days	22 06 20	19 08 20
197	**PH2**	**STORMWATER**	**80 days**	**22 06 20**	**13 10 20**
198	**PH2**	**PRELIMINARIES AND GENERAL**	**80 days**	**22 06 20**	**13 10 20**
199	PH2	Contractual Requirements and Establishment on site	80 days	22 06 20	13 10 20
200	**PH2**	**EARTHWORKS AND PAVING**	**80 days**	**22 06 20**	**13 10 20**
201	**PH2**	**EARTHWORKS**	**20 days**	**22 06 20**	**20 07 20**
202	PH2	Cut drain to profile	20 days	22 06 20	20 07 20
203	PH2	Shape excavated material and compact to berm	20 days	22 06 20	20 07 20
204	PH2	Shape and trim drain to prepare for greencells	20 days	22 06 20	20 07 20
205	**PH2**	**GREENCELLS**	**30 days**	**20 07 20**	**03 09 20**
206	PH2	Install greencells complete with steel pegs	30 days	20 07 20	03 09 20
207	**PH2**	**CONCRETE LINING**	**30 days**	**03 09 20**	**13 10 20**
208	PH2	Supply 25MPa concrete	30 days	03 09 20	13 10 20
209	PH2	Fill geocell voids with 25MPa concrete to wood float finish	30 days	03 09 20	13 10 20



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