

ID		Task	Task Name	Duration	Start	Finish	Predecessors	March	April	May	June	July	August	September	October	November	December
1			Project Life	127 days	Tue 4/10/18	Fri 11/9/18											
2			Project Management	46 days	Mon 4/23/18	Mon 7/9/18											
3			Kickoff	46 days	Mon 4/23/18	Mon 7/9/18											
4			Develop Schedule, Task List and Cost Estimate	20 days	Mon 4/23/18	Mon 5/21/18											
5			Project task list to CLL	1 day	Tue 5/22/18	Tue 5/22/18	4										
6			Negotiations with Kessler	1 day	Wed 5/23/18	Wed 5/23/18	5										
7			Project cost estimate to CLL	1 day	Tue 5/22/18	Tue 5/22/18	4										
8			Internal review and approval	2 days	Wed 5/23/18	Thu 5/24/18	7										
9			Present to DRMS	1 day	Fri 5/25/18	Fri 5/25/18	8										
10			End of run off	0 days	Mon 7/9/18	Mon 7/9/18											
11			Black Forest	44 days	Fri 5/25/18	Mon 8/13/18											
12			Decision on future use	28 days	Fri 5/25/18	Mon 7/16/18	8										
13			Document closure	5 days	Tue 7/17/18	Tue 7/24/18	12										
14			Transition permit items to the Schwartz permit (pum	10 days	Tue 7/17/18	Wed 8/1/18	12										
15			Set it up for storage	6 days	Thu 8/2/18	Mon 8/13/18											
16			Curtain	1 day	Thu 8/2/18	Thu 8/2/18	14										
17			Gravel	4 days	Thu 8/2/18	Wed 8/8/18	14										
18			Install Shelves and Pallets	2 days	Thu 8/9/18	Mon 8/13/18	17										
19			5400 - Mine Dewatering	66.5 days	Fri 5/25/18	Mon 9/24/18											
20			Mine Pump	66.5 days	Fri 5/25/18	Mon 9/24/18											
21			Engineer the pump and piping	10 days	Fri 5/25/18	Tue 6/12/18											
22			Develop cost estimate and work plan	10 days	Fri 5/25/18	Tue 6/12/18											
23			Risk assessment	1 day	Tue 7/17/18	Wed 7/18/18	22,24										
24			Downhole inspection	1 day	Mon 7/16/18	Tue 7/17/18	44FS+22 days										
25			Order pump	1 day	Wed 7/18/18	Thu 7/19/18	23										
26			Order pipe and fittings	1 day	Wed 7/18/18	Thu 7/19/18	23										
27			Lead time	20 days	Thu 7/19/18	Thu 8/23/18	25,26										
28			Design energy dissipation	10 days	Fri 5/25/18	Tue 6/12/18											
29			Install pump	66.5 days	Fri 5/25/18	Mon 9/24/18											
30			Water well contractor selection	1 day	Fri 5/25/18	Fri 5/25/18											
31			Site-specific training	0.5 days	Thu 8/23/18	Thu 8/23/18	27										
32			Site prep for rig access	1 day	Mon 6/4/18	Tue 6/5/18	43										
33			Staging pipe	1 day	Thu 8/23/18	Mon 8/27/18	27										
34			Pipe support surface completion	3 days	Tue 6/5/18	Mon 6/11/18	44										
35			Install pump and power cabling	3 days	Mon 8/27/18	Thu 8/30/18	31,32,33										
36			Relocate tuff shed	2 days	Thu 8/30/18	Wed 9/5/18	35										
37			Tie in to power	3 days	Wed 9/5/18	Tue 9/11/18	36										
38			Install piping	5 days	Thu 8/23/18	Tue 9/4/18	27										
39			Tie in to automation	2 days	Tue 9/4/18	Thu 9/6/18	38										
Project: Schwartz 6000 Mine Re Date: Tue 7/3/18																	
Task				Project Summary		Manual Task		Start-only		Deadline							
Split				Inactive Task		Duration-only		Finish-only		Progress							
Milestone				Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress							
Summary				Inactive Summary		Manual Summary		External Milestone									
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ID		Task	Task Name	Duration	Start	Finish	Predecessors	March	April	May	June	July	August	September	October	November	December
40		➡	Test and commission	8 days	Thu 9/6/18	Thu 9/20/18	39										
41		➡	Decommission existing pumps	1 day	Thu 9/20/18	Mon 9/24/18	40										
42		➡	Calvin bid Item #7 - 2 days 1 Mob	2 days	Thu 5/31/18	Tue 6/5/18											
43	👤	➡	Expose foam and cover - CB # 7	1 day	Thu 5/31/18	Mon 6/4/18	61										
44	👤	➡	Penetrate the cover - CB #7	1 day	Mon 6/4/18	Tue 6/5/18	43										
45		📌	6200 - Preparation and Demolition	115 days	Tue 4/10/18	Mon 10/22/18											
46		📌	Preparation	115 days	Tue 4/10/18	Mon 10/22/18											
47		➡	Asbestos survey	73 days	Fri 4/20/18	Tue 8/21/18											
48	✓	➡	Site visit and sampling (Engineering Analytics)	1 day	Fri 4/20/18	Fri 4/20/18											
49	✓	➡	Lab analysis	10 days	Fri 4/20/18	Thu 5/3/18	48										
50	📅	➡	Reporting	7 days	Fri 5/4/18	Mon 5/14/18	49										
51	👤	➡	Review report	5 days	Tue 5/15/18	Tue 5/22/18	50										
52	👤	➡	Develop abatement plan	5 days	Tue 5/15/18	Tue 5/22/18	50										
53	👤	➡	Select abatement contractor	10 days	Wed 5/23/18	Thu 6/7/18	52										
54		➡	Abatement	2 days	Tue 7/31/18	Wed 8/1/18	53FS+28 days										
55		➡	Reinspection	1 day	Thu 8/2/18	Thu 8/2/18	54										
56		➡	Permit application and approval	10 days	Mon 8/6/18	Tue 8/21/18	55										
57		➡	Contractor Setup and Mobilization	2.5 days	Tue 5/29/18	Thu 5/31/18											
58		➡	Calvin bid Item #1 - 2 days 1 MoB	2.5 days	Tue 5/29/18	Thu 5/31/18											
59	👤	➡	JSA and Kickoff	0.5 days	Tue 5/29/18	Tue 5/29/18	8FS+1 day										
60		➡	Personnel mobilization - CB #1	0.5 days	Tue 5/29/18	Tue 5/29/18	59										
61	👤	➡	Stored equipment maintenance - CB #1	1.5 days	Wed 5/30/18	Thu 5/31/18	8,60										
62		➡	Minnesota Improvements	5 days	Thu 5/31/18	Mon 6/11/18											
63		➡	Underground improvements	5 days	Thu 5/31/18	Mon 6/11/18											
64	👤	➡	Lighting improvements and bumper berm	5 days	Thu 5/31/18	Mon 6/11/18	61										
65		📌	RO Plant Modifications	115 days	Tue 4/10/18	Mon 10/22/18											
66		📌	Remove one clarifier	115 days	Tue 4/10/18	Mon 10/22/18											
67	📅	➡	Update PFD	1 day	Fri 5/25/18	Fri 5/25/18	8										
68	📅	➡	Risk assessment - impact of the change	1 day	Wed 6/6/18	Wed 6/6/18	67										
69		➡	Repurpose two storage tanks (Backfill Slurry)	2 days	Thu 6/7/18	Mon 6/11/18	68										
70		➡	Repurpose Clean Water Shed as the new chemical storage	2 days	Tue 6/12/18	Wed 6/13/18	69										
71		➡	Plumbing changes	2 days	Thu 6/14/18	Mon 6/18/18	70										
72		➡	Membranes	62 days	Tue 4/10/18	Wed 7/18/18											
73	✓	➡	Dispose of cartridge filters and membranes	3 days	Tue 4/10/18	Thu 4/12/18											
74	✓	➡	Dispose of cartridge filters and membranes	3 days	Tue 4/10/18	Thu 4/12/18											
75	✓	➡	Prepare TR 26	14 days	Tue 4/10/18	Fri 4/27/18											
76		➡	Regulatory Approval	43 days	Mon 4/30/18	Tue 7/10/18	75										
77	👤	➡	Dispose of cartridge filters and membranes	5 days	Wed 7/11/18	Wed 7/18/18	76										
78		➡	Limestone Treatability	67 days	Wed 8/1/18	Wed 11/28/18											

Project: Schwartz 6000 Mine Re

Date: Tue 7/3/18

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

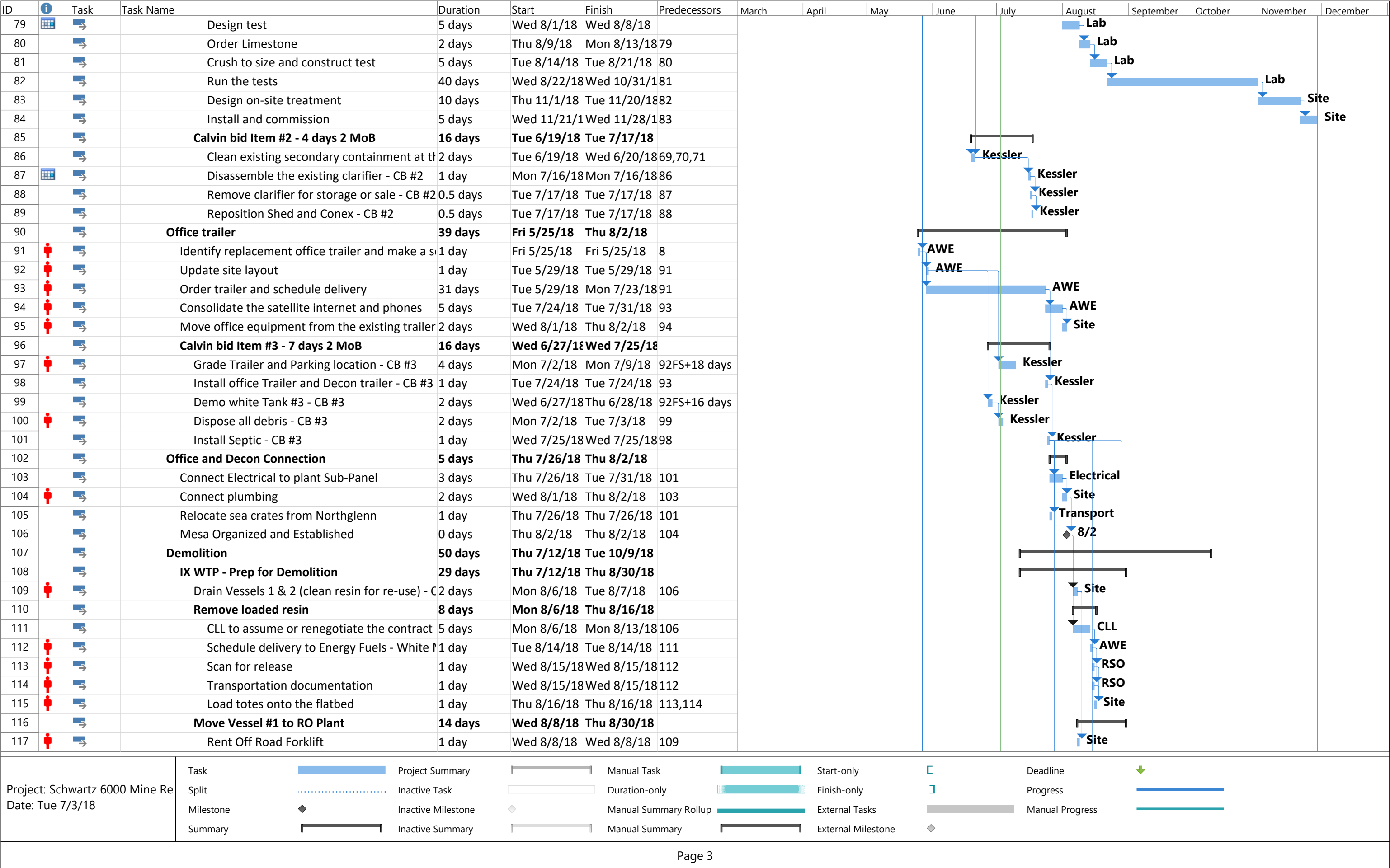
External Milestone

Deadline

Progress

Manual Progress

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ID		Task	Task Name	Duration	Start	Finish	Predecessors	March	April	May	June	July	August	September	October	November	December
118			Disconnect plumbing and install blanks	1 day	Wed 8/8/18	Wed 8/8/18	109										
119			Transport to RO plant	1 day	Thu 8/9/18	Thu 8/9/18	118										
120			Confined Space inspection	0 days	Wed 8/8/18	Wed 8/8/18	118										
121			Anchor	0 days	Wed 8/8/18	Wed 8/8/18	118										
122			Plumb	1 day	Thu 8/9/18	Thu 8/9/18	118										
123			Refill Vessel	2 days	Mon 8/13/18	Tue 8/14/18	122										
124			Test and Commission	10 days	Wed 8/15/18	Thu 8/30/18	123										
125			Move Vessel #2 to Black Forest	2 days	Wed 8/8/18	Thu 8/9/18											
126			Disconnect plumbing and install blanks	1 day	Wed 8/8/18	Wed 8/8/18	109										
127			Transport to Black Forest	1 day	Thu 8/9/18	Thu 8/9/18	126										
128			Cover and Store	0 days	Thu 8/9/18	Thu 8/9/18	127										
129			Inventory of Useful Equipment	11 days	Thu 7/12/18	Tue 7/31/18											
130			Mark pieces to be saved/stored/salvaged	10 days	Thu 7/12/18	Mon 7/30/18	8FS+26 days										
131			Identify storage locations	1 day	Tue 7/31/18	Tue 7/31/18	130										
132			Identify items to be used at the Mill	1 day	Tue 7/31/18	Tue 7/31/18	130										
133			Items to be salvaged for re-use	10 days	Wed 8/1/18	Thu 8/16/18											
134			Move items to RO Plant	10 days	Wed 8/1/18	Thu 8/16/18	131										
135			Move items to the Black Forest - cover and	10 days	Wed 8/1/18	Thu 8/16/18	131										
136			Move items to the Mill	10 days	Wed 8/1/18	Thu 8/16/18	132										
137			Items to be salvaged to be recycled/donated	14 days	Tue 7/31/18	Wed 8/22/18											
138			Scan for release	10 days	Tue 7/31/18	Wed 8/15/18	130										
139			Relocate Wall Heater to RO Plant	3 days	Mon 8/20/18	Wed 8/22/18											
140			Move Propane Tank - SE of secondary cc	1 day	Mon 8/20/18	Mon 8/20/18	134,135,136										
141			Remove wall heater	1 day	Tue 8/21/18	Tue 8/21/18	140										
142			Install in RO Plant	2 days	Tue 8/21/18	Wed 8/22/18	140										
143			Storage Containers at the RO Plant	5 days	Wed 8/1/18	Wed 8/8/18											
144			Tools - cold storage	5 days	Wed 8/1/18	Wed 8/8/18	131										
145			Relocate chemical seacrate for future chen	1 day	Wed 8/1/18	Wed 8/1/18	131										
146			Stack totes in seacrate	2 days	Thu 8/2/18	Mon 8/6/18	145										
147			Office Trailer and IX - Demolition	42 days	Thu 7/26/18	Tue 10/9/18											
148			Sort and stack debris	5 days	Tue 8/7/18	Tue 8/14/18	146										
149			Scan for release	5 days	Wed 8/15/18	Wed 8/22/18	148										
150			Load and haul off-site	10 days	Thu 8/23/18	Tue 9/11/18	149										
151			Calvin Bid Item # 4- 22 days 6 Mob	42 days	Thu 7/26/18	Tue 10/9/18											
152			Demo IX and Office Trailers - CB # 4	3 days	Thu 7/26/18	Tue 7/31/18	101										
153			Dispose in Minnesota - CB # 4	2 days	Thu 9/6/18	Mon 9/10/18	152,163										
154			Demo foundations - CB # 4	5 days	Tue 9/11/18	Tue 9/18/18	153										
155			Demo out-buildings - CB # 4	2 days	Wed 9/19/18	Thu 9/20/18	154										
156			Demo creek tank - CB # 4	2 days	Mon 9/24/18	Tue 9/25/18	155										
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