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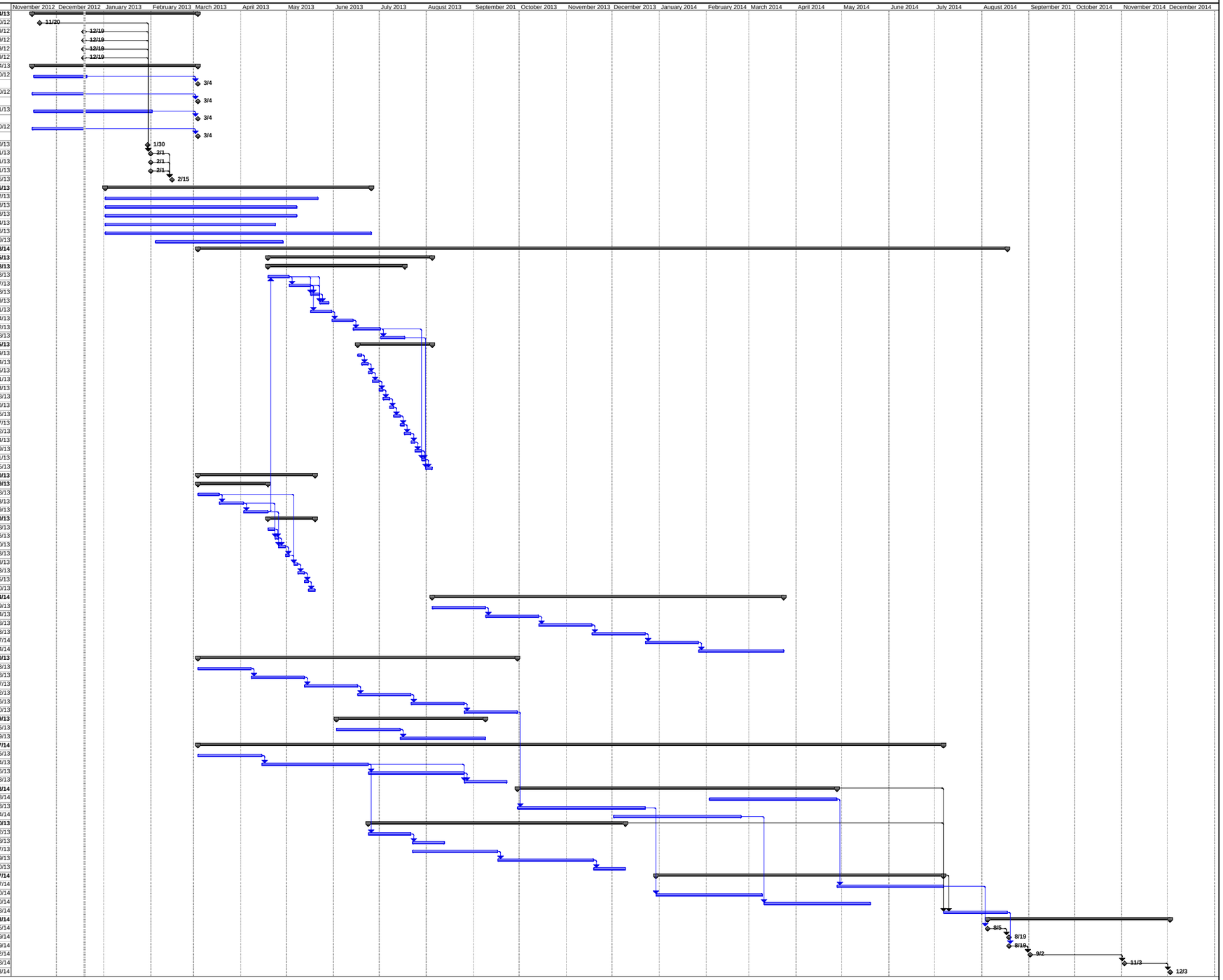
Construction Schedule
Torrance Groundwater Remediation System (TGRS)
Montrose Superfund Site, Los Angeles, California

ID	Task Name	Duration	Start	Finish
1	**Consent Decree Deliverables - Part I**	**15.4 wks**	**Thu 11/15/12**	**Mon 3/4/13**
2	Updated Health and Safety Plan	0 wks	Tue 11/20/12	Tue 11/20/12
3	Site Management Plan	0 wks	Wed 12/19/12	Wed 12/19/12
4	Construction Schedule	0 wks	Wed 12/19/12	Wed 12/19/12
5	Construction Quality Assurance Plan	0 wks	Wed 12/19/12	Wed 12/19/12
6	Remedial Wellfield and Treatment System Performance Evaluation Test Plan	0 wks	Wed 12/19/12	Wed 12/19/12
7	Property Access	15.4 wks	Thu 11/15/12	Mon 3/4/13
8	City of Los Angeles	5 wks	Thu 11/15/12	Thu 12/20/12
9				
10	County of Los Angeles	5 wks	Thu 11/15/12	Thu 12/20/12
11				
12	Triton	11.2 wks	Thu 11/15/12	Fri 2/1/13
13				
14	Los Angeles Department of Water and Power	5 wks	Thu 11/15/12	Thu 12/20/12
15				
16	**Community Meeting (estimated date)**	0 wks	Wed 1/30/13	Wed 1/30/13
17	**EPA Approval of Workplans**	0 wks	Fri 2/1/13	Fri 2/1/13
18	**EPA Approval of AOC Letter**	0 wks	Fri 2/1/13	Fri 2/1/13
19	**EPA Approval of Arsenic Letter**	0 wks	Fri 2/1/13	Fri 2/1/13
20	**Pre-Construction Meeting**	0 wks	Fri 2/15/13	Fri 2/15/13
21	**Procurement**	**25 wks**	**Wed 1/2/13**	**Wed 6/26/13**
22	Steel Tank Equipment Purchase	20 wks	Wed 1/2/13	Wed 5/22/13
23	LGAC Vessels Equipment Purchase	18 wks	Wed 1/2/13	Wed 5/8/13
24	VGAC Vessels Equipment Purchase	18 wks	Wed 1/2/13	Wed 5/8/13
25	Air Stripper System Equipment Purchase	16 wks	Wed 1/2/13	Wed 4/24/13
26	Advanced Oxidation (HiPOx) System Purchase	25 wks	Wed 1/2/13	Wed 6/26/13
27	All Remaining Equipment Purchase	12 wks	Mon 2/4/13	Mon 4/29/13
28	**TGRS System Construction**	**76 wks**	**Mon 3/4/13**	**Mon 8/18/14**
29	**Task 1 - Extraction Well, Vault, and Piping Installation**	**15.2 wks**	**Fri 4/19/13**	**Mon 8/5/13**
30	**Extraction Well Installation**	**12.8 wks**	**Fri 4/19/13**	**Thu 7/18/13**
31	BF-EW-5	2 wks	Fri 4/19/13	Fri 5/3/13
32	BF-EW-6	2 wks	Fri 5/3/13	Fri 5/17/13
33	UBA-EW-1	0.8 wks	Fri 5/17/13	Thu 5/23/13
34	UBA-EW-2	0.8 wks	Thu 5/23/13	Wed 5/29/13
35	BF-EW-3	2 wks	Fri 5/17/13	Fri 5/31/13
36	BF-EW-4	2 wks	Fri 5/31/13	Fri 6/14/13
37	G-EW-5	2.4 wks	Fri 6/14/13	Tue 7/2/13
38	G-EW-4	2.4 wks	Tue 7/2/13	Thu 7/18/13
39	**Extraction Vault and Piping Installation Only**	**7 wks**	**Mon 6/17/13**	**Mon 8/5/13**
40	UBA-EW-1	0.5 wks	Mon 6/17/13	Wed 6/19/13
41	BF-EW-5	0.5 wks	Wed 6/19/13	Mon 6/24/13
42	UBA-EW-2	0.5 wks	Mon 6/24/13	Wed 6/26/13
43	BF-EW-6	0.5 wks	Wed 6/26/13	Mon 7/1/13
44	MBFB-EW-1	0.5 wks	Mon 7/1/13	Wed 7/3/13
45	BF-EW-1	0.5 wks	Wed 7/3/13	Mon 7/8/13
46	G-EW-1	0.5 wks	Mon 7/8/13	Wed 7/10/13
47	BF-EW-2	0.5 wks	Wed 7/10/13	Mon 7/15/13
48	G-EW-2	0.5 wks	Mon 7/15/13	Wed 7/17/13
49	G-EW-3	0.5 wks	Wed 7/17/13	Mon 7/22/13
50	BF-EW-3	0.5 wks	Mon 7/22/13	Wed 7/24/13
51	BF-EW-4	0.5 wks	Wed 7/24/13	Mon 7/29/13
52	G-EW-4	0.5 wks	Mon 7/29/13	Wed 7/31/13
53	G-EW-5	0.5 wks	Wed 7/31/13	Mon 8/5/13
54	**Task 2 - Injection Well, Vault, and Piping Installation**	**11 wks**	**Mon 3/4/13**	**Mon 5/20/13**
55	**Injection Well Installation**	**6.8 wks**	**Mon 3/4/13**	**Fri 4/19/13**
56	BF-IW-3	2 wks	Mon 3/4/13	Mon 3/18/13
57	G-IW-4	2.4 wks	Mon 3/18/13	Wed 4/3/13
58	G-IW-5	2.4 wks	Wed 4/3/13	Fri 4/19/13
59	**Injection Vault and Piping Installation Only**	**4.2 wks**	**Fri 4/19/13**	**Mon 5/20/13**
60	G-IW-2	0.5 wks	Fri 4/19/13	Tue 4/23/13
61	G-IW-4	0.5 wks	Tue 4/23/13	Fri 4/26/13
62	G-IW-5	0.5 wks	Fri 4/26/13	Tue 4/30/13
63	BF-IW-1	0.5 wks	Tue 4/30/13	Fri 5/3/13
64	BF-IW-3	0.5 wks	Mon 5/6/13	Wed 5/8/13
65	G-IW-1	0.5 wks	Wed 5/8/13	Mon 5/13/13
66	G-IW-3	0.5 wks	Mon 5/13/13	Wed 5/15/13
67	BF-IW-2	0.5 wks	Wed 5/15/13	Mon 5/20/13
68	**Task 3 - Extraction Pipeline and Conduit Installation**	**33 wks**	**Mon 8/5/13**	**Mon 3/24/14**
69	2000 Feet of Pipe	5 wks	Mon 8/5/13	Mon 9/9/13
70	2000 Feet of Pipe	5 wks	Mon 9/9/13	Mon 10/14/13
71	2000 Feet of Pipe	5 wks	Mon 10/14/13	Mon 11/18/13
72	2000 Feet of Pipe	5 wks	Mon 11/18/13	Mon 12/23/13
73	2000 Feet of Pipe	5 wks	Mon 12/23/13	Mon 1/27/14
74	All Remaining Feet of Pipe	8 wks	Mon 1/27/14	Mon 3/24/14
75	**Task 4 - Injection Pipeline and Conduit Installation**	**30 wks**	**Mon 3/4/13**	**Mon 9/30/13**
76	4000 Feet of Pipe	5 wks	Mon 3/4/13	Mon 4/8/13
77	4000 Feet of Pipe	5 wks	Mon 4/8/13	Mon 5/13/13
78	4000 Feet of Pipe	5 wks	Mon 5/13/13	Mon 6/17/13
79	4000 Feet of Pipe	5 wks	Mon 6/17/13	Mon 7/22/13
80	4000 Feet of Pipe	5 wks	Mon 7/22/13	Mon 8/26/13
81	All Remaining Feet of Pipe	5 wks	Mon 8/26/13	Mon 9/30/13
82	**Task 5 - Pipe Jacking**	**14 wks**	**Mon 6/3/13**	**Mon 9/9/13**
83	Crossing near Treatment Facility (UPRR Crossing #1)	6 wks	Mon 6/3/13	Mon 7/15/13
84	Crossing near Del Amo Blvd (UPRR Crossing #2)	8 wks	Mon 7/15/13	Mon 9/9/13
85	**Task 6 - Treatment Facility Construction**	**70 wks**	**Mon 3/4/13**	**Mon 7/7/14**
86	Grading and Resurfacing on Montrose Superfund Site	6 wks	Mon 3/4/13	Mon 4/15/13
87	Pad Construction on Montrose Superfund Site	10 wks	Mon 4/15/13	Mon 6/24/13
88	Control Building Construction	9 wks	Mon 6/24/13	Mon 8/26/13
89	On-Site Security Fence Installation	4 wks	Mon 8/26/13	Mon 9/23/13
90	**Electrical Contractor**	**30 wks**	**Mon 9/30/13**	**Mon 4/28/14**
91	Electrical Installation on Extraction Side	12 wks	Mon 2/3/14	Mon 4/28/14
92	Electrical Installation on Injection Side	12 wks	Mon 9/30/13	Mon 12/23/13
93	Electrical Installation in Treatment Compound	12 wks	Mon 12/2/13	Mon 2/24/14
94	**Mechanical Contractor**	**24.2 wks**	**Mon 6/24/13**	**Tue 12/10/13**
95	Installation of Sump Grates	4 wks	Mon 6/24/13	Mon 7/22/13
96	Equipment Installation and Anchoring	3 wks	Tue 7/23/13	Tue 8/13/13
97	Installation of Pipe Racks and VGAC Discharge Stack	8 wks	Tue 7/23/13	Tue 9/17/13
98	Mechanical Pipe Installation inside Treatment Compound	9 wks	Tue 9/17/13	Tue 11/19/13
99	Instrumentation Installation	3 wks	Tue 11/19/13	Tue 12/10/13
100	**PLC Contractor**	**27 wks**	**Mon 12/30/13**	**Mon 7/7/14**
101	Procure, Install and Program Remote PLCs at Satellite Locations - Extraction Side	10 wks	Mon 4/28/14	Mon 7/7/14
102	Procure and Install Remote PLCs at Satellite Locations - Injection Side	10 wks	Mon 12/30/13	Mon 3/10/14
103	Procure and Install Panels and Programming - Treatment Compound	10 wks	Tue 3/11/14	Tue 5/20/14
104	**Treatment Testing and Certification Inspections (periodic throughout construction)**	6 wks	Mon 7/7/14	Mon 8/18/14
105	**Consent Decree Deliverables - Part II**	**17.2 wks**	**Tue 8/5/14**	**Wed 12/3/14**
106	Conduction Pre-Final Inspection	0 wks	Tue 8/5/14	Tue 8/5/14
107	Submit Pre-Final Inspection Report	0 wks	Tue 8/19/14	Tue 8/19/14
108	Conduct Final Construction Inspection	0 wks	Tue 8/19/14	Tue 8/19/14
109	Submit Final Construction Inspection Report	0 wks	Tue 9/2/14	Tue 9/2/14
110	Submit Construction Completion Report	0 wks	Mon 11/3/14	Mon 11/3/14
111	Submit Certification Completion Report	0 wks	Wed 12/3/14	Wed 12/3/14



Project: Montrose Superfund Site - TGRS Construction
Date: Wed 12/19/12

Task | Milestone | Summary | Progress

Note: This schedule assumes that all access and permitting issues are resolved prior to the start of construction; the schedule may be delayed if access and permitting issues are not resolved.

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