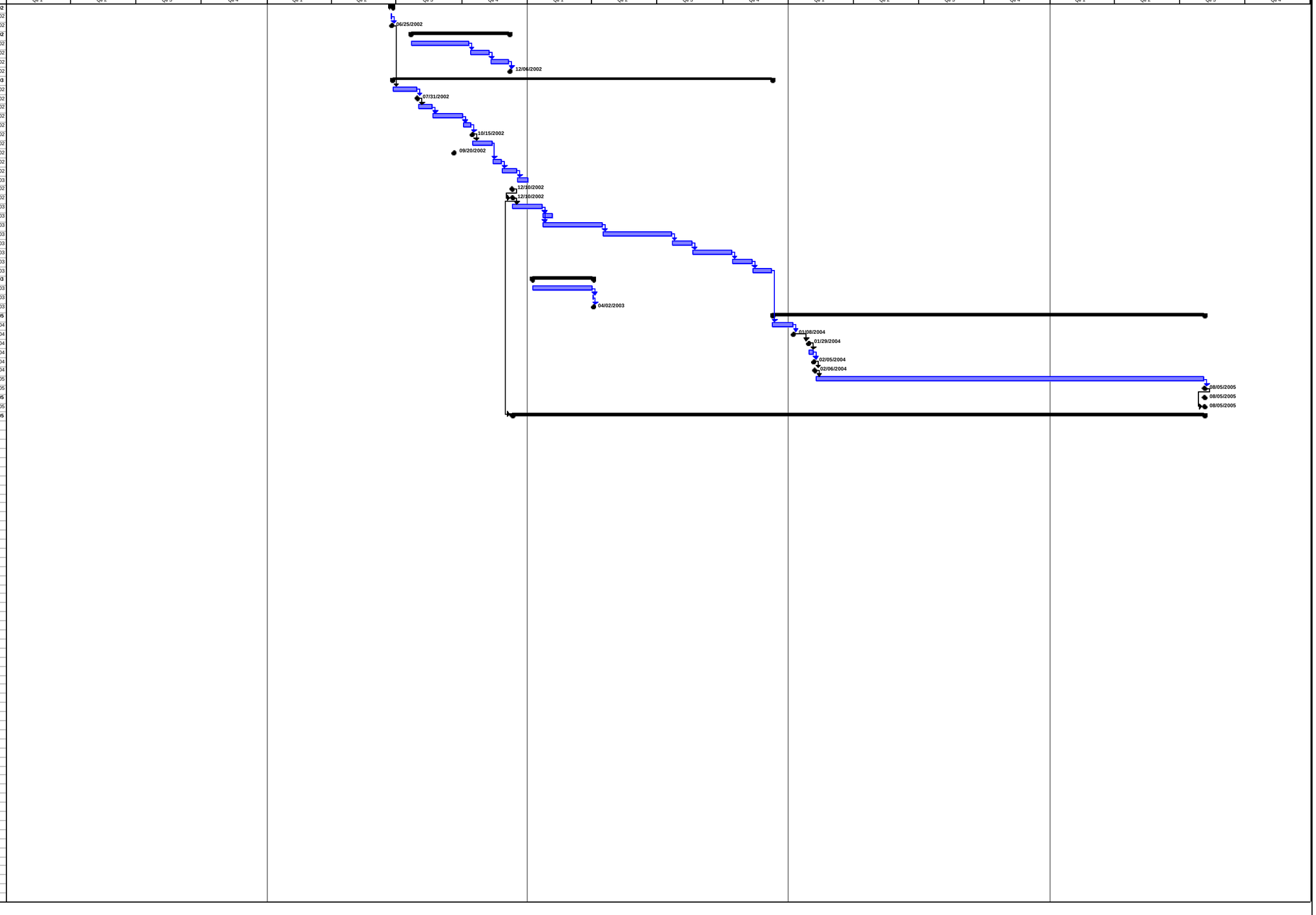
Lopez WTP Upgrade Timeline-Membranes

ID	Task Name	Duration	Start	Finish
1	**Preliminary Engineering**	**2 days**	**Mon 06/24/02**	**Tue 06/25/02**
2	Scoping Meeting	1 day	Mon 06/24/02	Mon 06/24/02
3	Prepare TDM	1 day	Tue 06/25/02	Tue 06/25/02
4	**Environmental**	**100 days**	**Mon 07/22/02**	**Fri 12/06/02**
5	Environmental Studies	60 days	Mon 07/22/02	Fri 10/11/02
6	Environmental Determination	20 days	Mon 10/14/02	Fri 11/08/02
7	Permit Processing	20 days	Mon 11/11/02	Fri 12/06/02
8	Environmental Complete	0 days	Fri 12/06/02	Fri 12/06/02
9	**Design**	**380 days**	**Wed 06/26/02**	**Tue 12/09/03**
10	Prepare RFQ	25 days	Wed 06/26/02	Tue 07/30/02
11	Send RFQ	1 day	Wed 07/31/02	Wed 07/31/02
12	Receive Consultant Qualifications	15 days	Thu 08/01/02	Wed 08/21/02
13	Prepare Design RFP	30 days	Thu 08/22/02	Wed 10/02/02
14	Final RFP/BOS Letter	8 days	Thu 10/03/02	Mon 10/14/02
15	BOS Item/Send RFP	1 day	Tue 10/15/02	Tue 10/15/02
16	Consultants prepare proposals	20 days	Wed 10/16/02	Tue 11/12/02
17	Preproposal Meeting/Plant Tour	1 day	Fri 09/20/02	Fri 09/20/02
18	Review Proposals	10 days	Wed 11/13/02	Tue 11/26/02
19	Select Consultant	15 days	Wed 11/27/02	Tue 12/17/02
20	Prepare BOS Letter/Contract	12 days	Wed 12/18/02	Thu 01/02/03
21	BOS Item	1 day	Tue 12/10/02	Tue 12/10/02
22	Notice to Proceed	0 days	Tue 12/10/02	Tue 12/10/02
23	Consultant prepares 10% Design	30 days	Wed 12/11/02	Tue 01/21/03
24	Review Design	10 days	Wed 01/22/03	Tue 02/04/03
25	Select Equipment/Pilot proofing	60 days	Wed 01/22/03	Tue 04/15/03
26	Consultant prepares 65% Design	70 days	Wed 04/16/03	Tue 07/22/03
27	Review Design	20 days	Wed 07/23/03	Tue 08/19/03
28	Consultant prepares 90% Design	40 days	Wed 08/20/03	Tue 10/14/03
29	Review Design	20 days	Wed 10/15/03	Tue 11/11/03
30	Final 100% Design	20 days	Wed 11/12/03	Tue 12/09/03
31	**R/W & Utilities**	**61 days**	**Wed 01/08/03**	**Wed 04/02/03**
32	Relocate Utilities	60 days	Wed 01/08/03	Tue 04/01/03
33	R/W Certification	1 day	Wed 04/02/03	Wed 04/02/03
34	R/W & Utilities Complete	0 days	Wed 04/02/03	Wed 04/02/03
35	**Construct**	**433 days**	**Wed 12/10/03**	**Fri 08/05/05**
36	Prepare Bid Package/BOS letter	22 days	Wed 12/10/03	Thu 01/08/04
37	BOS Item/send Bid Package	0 days	Thu 01/08/04	Thu 01/08/04
38	Bids due	0 days	Thu 01/29/04	Thu 01/29/04
39	Contract/BOS Letter	5 days	Fri 01/30/04	Thu 02/05/04
40	BOS Item/Contract Award	0 days	Thu 02/05/04	Thu 02/05/04
41	Notice to Proceed	0 days	Fri 02/06/04	Fri 02/06/04
42	Construction	390 days	Mon 02/09/04	Fri 08/05/05
43	Construction Complete	0 days	Fri 08/05/05	Fri 08/05/05
44	**Environmental Mitigation**	**0 days**	**Fri 08/05/05**	**Fri 08/05/05**
45	Environmental Mitigation Complete	0 days	Fri 08/05/05	Fri 08/05/05
46	**Design and Construction Items Included Above**	**693 days**	**Tue 12/10/02**	**Fri 08/05/05**
47	**Lopez Lake Intake**			
48	Gate Operation			
49	**Raw Water Pipeline**			
50	Replace Air-Vacuum Relief Valves			
51	Provide Flexible Connections			
52	**Terminal Reservoir (TR)**			
53	Aquatic Weed Removal			
54	**Raw Water Influent Vault**			
55	Re-Coat Vault Hatch Covers			
56	Replace Mechanical Coupling			
57	**Install Rapid Mix**			
58	**New Pretreatment**			
59	**New Filtration**			
60	**Bypass Vault**			
61	Install Static Mixer			
62	Access Hatches			
63	**Clearwater Reservoir**			
64	Replace cover			
65	Foundation Inspection / Extension			
66	Carbon Fiber Sheet Wrapping			
67	Flexible Expansion Connections			
68	Seismic Actuated Vales / Grating			
69	**Ammonia Building**			
70	ADA Compliance			
71	Shear Wall Anchorage			
72	Secondary Containment			
73	Redundant Pump			
74	New Flow Controls			
75	**Finished Water Meter Vault**			
76	Install Second Manhole			
77	Replace Flow Meter			
78	**Domestic Water Tank**			
79	Re-Coat Exterior			
80	**Administration Building**			
81	ADA Compliance			
82	Repair / Replace Roof			
83	Structural Upgrades			
84	Electrical Upgrades			
85	**Sludge Pump Room**			
86	Electrical Upgrades			
87	**Pipe Gallery**			
88	Electrical Upgrades			
89	**Chemical Building**			
90	Ventilation, Alarms, Strobes			
91	Secondary Containment			
92	Redundant Chemical Pumps			
93	Replace Potable Water Pump			
94	Remove Old Chemicals			
95	Replace Roof			
96	ADA Compliance			
97	Structural Upgrades			
98	Electrical Upgrades			
99	**Fire Alarm System**