

# HANDOUT 11A - TOPOCK REMEDIATION PROJECT SCHEDULE (REV. 45) OCTOBER 7, 2020 CWG MEETING

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish	2018				2019				2020				2021				2022				2023			
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	IM Installation (Note that IM3 is currently in operation and will remain in operation until directed otherwise by agencies)	512 days	Thu 1/22/04	Tue 12/20/05	Thu 1/22/04	Tue 12/20/05																								
32	IM3 Cultural Resources Management Plan (IM3 CRMP)	986 days	Thu 7/1/04	Mon 3/10/08	Thu 7/1/04	Mon 3/10/08																								
37	Extraction Well PE-1/Facilities	230 days	Mon 3/21/05	Fri 1/27/06	Mon 3/21/05	Fri 1/27/06																								
47	Supplemental Extraction Well and Facilities	127 days	Fri 7/29/05	Thu 1/19/06	Fri 7/29/05	Thu 1/19/06																								
55	Decommissioning of IM2 Batch Treatment	1182 days	Fri 8/5/05	Fri 1/29/10	Fri 8/5/05	Fri 1/29/10																								
66	Interim Measures and Treated Water Management	751 days	Mon 5/3/04	Fri 2/16/07	Mon 5/3/04	Fri 2/16/07																								
210	Public Participation Plan	578 days	Mon 12/20/04	Fri 2/9/07	Mon 12/20/04	Fri 2/9/07																								
219	Baseline Resources Assessments	897 days	Mon 11/1/04	Mon 3/10/08	Mon 11/1/04	Mon 3/10/08																								
233	Sitewide CEQA Documentation	586 days	Wed 5/17/06	Fri 8/1/08	Wed 5/17/06	Fri 8/1/08																								
237	Programmatic Biological Assessment (PBA)	1920 days	Tue 12/19/06	Tue 4/15/14	Tue 12/19/06	Tue 4/15/14																								
250	REMEDIAL FACILITY INVESTIGATION/REMEDIAL INVESTIGATION (RFI/RI)	6733.5 days	Sat 2/24/96	Wed 11/3/21	Sat 2/24/96	NA																								
251	Historical RFI/RI Reports (Feb. 2005 and Prior Versions)	2455 days	Sat 2/24/96	Fri 7/8/05	Sat 2/24/96	Fri 7/8/05																								
269	Prepare Site History Report (Vol 1)	466 days	Tue 11/15/05	Wed 8/15/07	Tue 11/15/05	Wed 8/15/07																								
284	Prepare RFI/RI Vol 1 Addendum	1829 days	Wed 7/11/07	Tue 7/8/14	Wed 7/11/07	Tue 7/8/14																								
306	Prepare Final Groundwater RFI/RI (Vol 2 )	1948 days	Mon 6/27/05	Fri 11/16/12	Mon 6/27/05	Fri 11/16/12																								
616	ADEQ Topock Groundwater Study	475 days	Thu 11/18/04	Wed 8/23/06	Thu 11/18/04	Wed 8/23/06																								
620	Prepare Final Soil RFI/RI (Vol 3)	4006.5 days	Sat 7/15/06	Wed 11/3/21	Sat 7/15/06	NA																								
621	Implementation of Off-site Soil Sampling (Part A Phase 1) and Data Gaps Evaluation	1215 days	Sat 7/15/06	Fri 2/25/11	Sat 7/15/06	Fri 2/25/11																								
770	Draft On-site Soil Sampling (Part B) DQOs	1122 days	Wed 12/6/06	Fri 3/11/11	Wed 12/6/06	Fri 3/11/11																								
825	Soil RFI/RI Work Plan	1211 days	Tue 1/4/11	Mon 8/24/15	Tue 1/4/11	Mon 8/24/15																								
922	Work Plan Implementation/Data Gaps Analysis	594 days	Tue 8/25/15	Thu 11/30/17	Tue 8/25/15	Thu 11/30/17																								
978	Reporting	1143.5 days	Tue 6/20/17	Wed 11/3/21	Tue 6/20/17	NA																								
979	Soil Risk Assessment	770 days	Tue 6/20/17	Fri 5/29/20	Tue 6/20/17	Fri 5/29/20																								
980	Agency Direction to Move Forward with Soil Risk Assessment	1 day	Tue 6/20/17	Tue 6/20/17	Tue 6/20/17	Tue 6/20/17																								
981	Data Summary for EPCs Calculation	5.4 wks	Wed 6/21/17	Fri 7/28/17	Wed 6/21/17	Fri 7/28/17																								
982	Prepare/Submit Draft Soil Risk Assessment Report	58.2 wks	Mon 7/31/17	Mon 9/10/18	Mon 7/31/17	Mon 9/10/18																								
983	Calculate Exposure Point Concentrations (EPCs)	4.05 mons	Mon 7/31/17	Fri 11/24/17	Mon 7/31/17	Fri 11/24/17																								
984	Meeting to discuss EPCs	1 day	Wed 8/16/17	Wed 8/16/17	Wed 8/16/17	Wed 8/16/17																								
985	DTSC send Soil Risk Evaluation to CWG/TWG	1 day	Tue 9/11/18	Tue 9/11/18	Tue 9/11/18	Tue 9/11/18																								
986	DTSC review/comment	118.38 edays	Wed 9/12/18	Tue 1/8/19	Wed 9/12/18	Tue 1/8/19																								
987	DOI review/comment	118.38 edays	Wed 9/12/18	Tue 1/8/19	Wed 9/12/18	Tue 1/8/19																								
988	CWG/TWG review/comment	99.38 edays	Wed 9/12/18	Thu 12/20/18	Wed 9/12/18	Thu 12/20/18																								
989	Tribes review/comment	99.38 edays	Wed 9/12/18	Thu 12/20/18	Wed 9/12/18	Thu 12/20/18																								
990	Review/compile Comment Table	2 wks	Fri 12/21/18	Tue 1/22/19	Fri 12/21/18	Tue 1/22/19																								
991	Prepare/send RTC Table	16.6 wks	Wed 1/23/19	Fri 5/17/19	Wed 1/23/19	Fri 5/17/19																								
992	RTC Meeting	13 days	Wed 6/5/19	Fri 6/21/19	Wed 6/5/19	Fri 6/21/19																								
993	Send agenda (2 wks prior to meeting)	1 day	Wed 6/5/19	Wed 6/5/19	Wed 6/5/19	Wed 6/5/19																								
994	Hold Meeting	2 days	Thu 6/20/19	Fri 6/21/19	Thu 6/20/19	Fri 6/21/19																								
995	Finalize/Submit Final Soil Risk Assessment Report with RTC Table	2.86 mons	Mon 7/29/19	Fri 10/18/19	Mon 7/29/19	Fri 10/18/19																								
996	Prepare errata	58 days	Mon 12/2/19	Wed 2/19/20	Mon 12/2/19	Wed 2/19/20																								
997	Tribes review/comment	49 edays	Thu 2/20/20	Thu 4/9/20	Thu 2/20/20	Thu 4/9/20																								
998	DOI respond to Tribes' comment on errata	0 days	Fri 4/17/20	Fri 4/17/20	Fri 4/17/20	Fri 4/17/20																								

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Date: Tue 9/29/20

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Tasks Not Started/In Progress		Overall Task Duration		Manual Task		Start-only	
Tasks Finished		Inactive Task		Duration-only		Finish-only	
Baseline Schedule		Inactive Milestone		Manual Summary Rollup			
Milestone		Inactive Summary		Manual Summary			

edays = calendar days; days = work days  
Baseline Schedule is the 8/15/07 CWG Schedule (rev 1, 12/12/07).  
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Color Coding:  
PG&E Federal Agencies CWG/TWG Public  
DTSC Tribes/SHPO Other CA Agencies AZ Agencies

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999	DTSC respond to Tribes' comment on errata	0 days	Thu 5/7/20	Thu 5/7/20	Thu 5/7/20	Thu 5/7/20																								
1000	DTSC review/accept	7.57 mons	Tue 10/22/19	Fri 5/29/20	Tue 10/22/19	Fri 5/29/20																								
1001	DOI review/accept	7.57 mons	Tue 10/22/19	Fri 5/29/20	Tue 10/22/19	Fri 5/29/20																								
1002	<b>RFI/RI Volume 3</b>	<b>1115.5 days</b>	<b>Fri 7/28/17</b>	<b>Wed 11/3/21</b>	<b>Fri 7/28/17</b>	<b>NA</b>																								
1003	Prepare Draft RFI/RI Vol 3 Report	29.43 mons	Fri 7/28/17	Mon 12/9/19	Fri 7/28/17	Mon 12/9/19																								
1004	DTSC sends report to CWG/TWG and Tribes	0 days	Tue 12/10/19	Tue 12/10/19	Tue 12/10/19	Tue 12/10/19																								
1005	CWG/TWG review/comment	101 edays	Tue 12/10/19	Fri 3/20/20	Tue 12/10/19	Fri 3/20/20																								
1006	Tribes review/comment	101 edays	Tue 12/10/19	Fri 3/20/20	Tue 12/10/19	Fri 3/20/20																								
1007	DTSC review/comment	115 edays	Tue 12/10/19	Fri 4/3/20	Tue 12/10/19	Fri 4/3/20																								
1008	DOI review/comment	115 edays	Tue 12/10/19	Fri 4/3/20	Tue 12/10/19	Fri 4/3/20																								
1009	Review/compile Comment Table	79.38 edays	Mon 4/6/20	Wed 6/24/20	Mon 4/6/20	Wed 6/24/20																								
1010	Comment clarification meeting (date shown is a placeholder only)	1 day	Thu 7/9/20	Thu 7/9/20	Thu 7/9/20	Thu 7/9/20																								
1011	Prepare/send RTC Table	18.1 wks	Thu 6/25/20	Fri 10/30/20	Thu 6/25/20	NA																								
1012	<b>RTC Meeting</b>	<b>7.5 days</b>	<b>Fri 11/6/20</b>	<b>Tue 11/17/20</b>	<b>NA</b>	<b>NA</b>																								
1013	Send agenda (2 wks prior to meeting)	0 days	Fri 11/6/20	Fri 11/6/20	NA	NA																								
1014	Hold Meeting	0 days	Tue 11/17/20	Tue 11/17/20	NA	NA																								
1015	Prepare Revised RFI Volume 3 with RTC Table	4 mons	Wed 11/18/20	Fri 3/12/21	NA	NA																								
1016	DTSC sends report to CWG/TWG and Tribes	0 days	Fri 3/12/21	Fri 3/12/21	NA	NA																								
1017	CWG/TWG review/comment	60 edays	Mon 3/15/21	Fri 5/14/21	NA	NA																								
1018	Tribes review/comment	60 edays	Mon 3/15/21	Fri 5/14/21	NA	NA																								
1019	DTSC review/comment	75 edays	Fri 3/12/21	Wed 5/26/21	NA	NA																								
1020	DOI review/comment	75 edays	Fri 3/12/21	Wed 5/26/21	NA	NA																								
1021	Review/compile Comment Table	1 mon	Thu 5/27/21	Thu 6/24/21	NA	NA																								
1022	Comment clarification meeting (date shown is a placeholder only)	0 days	Wed 6/2/21	Wed 6/2/21	NA	NA																								
1023	Prepare/send RTC Table (date to be verified after receipt of comments)	1 mon	Thu 6/3/21	Thu 7/1/21	NA	NA																								
1024	<b>RTC Meeting</b>	<b>10 days</b>	<b>Thu 7/8/21</b>	<b>Thu 7/22/21</b>	<b>NA</b>	<b>NA</b>																								
1025	Send agenda (2 wks prior to meeting)	0 days	Thu 7/8/21	Thu 7/8/21	NA	NA																								
1026	Hold Meeting	0 days	Thu 7/22/21	Thu 7/22/21	NA	NA																								
1027	Finalize report (place holder only, nature and duration of task to be verified after RTC)	2.5 mons	Fri 7/23/21	Tue 10/5/21	NA	NA																								
1028	DTSC review/approve	1 mon	Tue 10/5/21	Wed 11/3/21	NA	NA																								
1029	DOI review/approve	1 mon	Tue 10/5/21	Wed 11/3/21	NA	NA																								
1030	<b>GROUNDWATER CORRECTIVE MEASURES/REMEDIAL ALTERNATIVE DEVELOPMENT</b>	<b>2835 days</b>	<b>Mon 3/29/04</b>	<b>Wed 12/31/14</b>	<b>Mon 3/29/04</b>	<b>Wed 12/31/14</b>																								
1178	<b>CORRECTIVE MEASURE STUDY/FEASIBILITY STUDY (CMS/FS) AND RISK ASSESSMENT</b>	<b>5265.5 days</b>	<b>Mon 12/16/02</b>	<b>Mon 1/9/23</b>	<b>Mon 12/16/02</b>	<b>NA</b>																								
1179	<b>CMS Work Plan</b>	<b>1465 days</b>	<b>Mon 12/16/02</b>	<b>Tue 6/24/08</b>	<b>Mon 12/16/02</b>	<b>Tue 6/24/08</b>																								
1198	<b>Risk Evaluation - Scoping and CSM</b>	<b>2326 days</b>	<b>Tue 10/31/06</b>	<b>Tue 9/15/15</b>	<b>Tue 10/31/06</b>	<b>Tue 9/15/15</b>																								
1282	<b>CMS/FS Report</b>	<b>3762.5 days</b>	<b>Mon 8/18/08</b>	<b>Mon 1/9/23</b>	<b>Mon 8/18/08</b>	<b>NA</b>																								
1283	<b>Groundwater</b>	<b>350 days</b>	<b>Mon 8/18/08</b>	<b>Fri 12/18/09</b>	<b>Mon 8/18/08</b>	<b>Fri 12/18/09</b>																								
1342	<b>Soil CMS/FS (duration to be verified after completion of RFI/RI)</b>	<b>308 days</b>	<b>Wed 11/3/21</b>	<b>Mon 1/9/23</b>	<b>NA</b>	<b>NA</b>																								
1343	<b>Prepare Draft Soil CMS/FS Report</b>	<b>151 days</b>	<b>Wed 11/3/21</b>	<b>Thu 6/2/22</b>	<b>NA</b>	<b>NA</b>																								
1344	Prepare Discussion Draft Soil CMS/FS Report	4 mons	Wed 11/3/21	Tue 3/1/22	NA	NA																								
1345	PG&E outreach with Tribes	1 mon	Tue 3/1/22	Wed 3/30/22	NA	NA																								
1346	PG&E submits Draft Soil CMS/FS	2 wks	Wed 3/30/22	Wed 4/13/22	NA	NA																								
1347	DTSC send Draft Soil CMS/FS to CWG/TWG	0 days	Wed 4/13/22	Wed 4/13/22	NA	NA																								

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1407	Public Review	63.38 edays	Wed 6/3/20	Wed 8/5/20	Wed 6/3/20	Wed 8/5/20																								
1408	DOI reviews comments/prepares Responsiveness Summary	30 edays	Mon 8/24/20	Wed 9/23/20	NA	NA																								
1409	PG&E Finalizes EE/CA (duration to be verified after receipt of comments)	30 edays	Fri 8/21/20	Sun 9/20/20	NA	NA																								
1410	DOI makes decision, prepares, and approves Action Memorandum	150 edays	Wed 9/23/20	Sat 2/20/21	NA	NA																								
1411	<b>Section 106 Programmatic Agreement (PA)</b>	<b>1858 days</b>	<b>Fri 10/10/08</b>	<b>Wed 11/18/15</b>	<b>Fri 10/10/08</b>	<b>NA</b>																								
1444	<b>EIR DOCUMENTATION</b>	<b>1449 days</b>	<b>Thu 9/1/05</b>	<b>Wed 3/2/11</b>	<b>Thu 9/1/05</b>	<b>Wed 3/2/11</b>																								
1517	<b>DESIGN, PERMITTING, AND CONSTRUCTION OF GROUNDWATER REMEDY</b>	<b>1889 days</b>	<b>Mon 1/31/11</b>	<b>Tue 4/24/18</b>	<b>Mon 1/31/11</b>	<b>Tue 4/24/18</b>																								
1518	Corrective Measure Implementation/Remedial Design (CMI/RD) Workplan	199 days	Mon 1/31/11	Thu 11/3/11	Mon 1/31/11	Thu 11/3/11																								
1532	Remedial Design (Preliminary, Intermediate, and Pre-Final/Final)	1723 days	Tue 9/20/11	Tue 4/24/18	Tue 9/20/11	Tue 4/24/18																								
1705	Community Outreach	1710 days	Fri 10/7/11	Tue 4/24/18	Fri 10/7/11	Tue 4/24/18																								
1715	Project Contracting	2.9 mons	Wed 4/4/18	Wed 6/27/18	Wed 4/4/18	NA																								
1716	<b>Construction (this is a preliminary construction schedule for planning purposes)</b>	<b>1836.9 days</b>	<b>Wed 6/27/18</b>	<b>Tue 7/8/25</b>	<b>Wed 6/27/18</b>	<b>NA</b>																								
1717	<b>Pre-Construction</b>	<b>68 days</b>	<b>Wed 6/27/18</b>	<b>Sun 9/30/18</b>	<b>Wed 6/27/18</b>	<b>Sun 9/30/18</b>																								
1724	<b>Construction and Start-up Activities</b>	<b>1767.9 days</b>	<b>Tue 10/2/18</b>	<b>Tue 7/8/25</b>	<b>Tue 10/2/18</b>	<b>NA</b>																								
1725	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1726	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1727	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1728	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1729	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1730	<b>Major Phase 1 Construction Activities</b>	<b>717 days</b>	<b>Thu 10/4/18</b>	<b>Wed 6/30/21</b>	<b>Thu 10/4/18</b>	<b>NA</b>																								
1731	Build Construction Headquarters	9.67 mons	Thu 10/4/18	Fri 7/12/19	Thu 10/4/18	Fri 7/12/19																								
1732	Build Soil Processing Yard	11.1 mons	Mon 11/12/18	Tue 10/1/19	Mon 11/12/18	Tue 10/1/19																								
1733	Install Pilot Borings, Monitoring Wells, and Remediation Wells	26.95 mons	Fri 11/2/18	Thu 12/31/20	Fri 11/2/18	NA																								
1734	Build IRZ Ring Road	624.38 edays	Wed 4/17/19	Thu 12/31/20	Wed 4/17/19	NA																								
1735	Install Remedy Pipelines	23.76 mons	Mon 2/4/19	Thu 12/31/20	Mon 2/4/19	NA																								
1736	Install Remedy Facilities at MW-20 Bench	13.05 mons	Mon 12/16/19	Thu 12/31/20	Mon 12/16/19	NA																								
1737	Install Electrical and Control System	23.9 mons	Wed 1/30/19	Thu 12/31/20	Wed 1/30/19	NA																								
1738	Site Stabilization/Revegetation	29.38 mons	Fri 11/23/18	Thu 4/1/21	Fri 11/23/18	NA																								
1739	System Integration and Functional Testing	177.38 edays	Mon 1/4/21	Wed 6/30/21	NA	NA																								
1740	Shut down IM and Start-up IRZ	24.8 mons	Fri 7/2/21	Fri 6/30/23	NA	NA																								
1741	Construct Phase 2 Components Construction (Freshwater Injection System, Inner Recirculation Loop, and TCS Recirculation Loop, Wells)	12.5 mons	Fri 6/30/23	Wed 7/3/24	NA	NA																								
1742	Commissioning and Start-up Freshwater Injection	6 mons	Wed 7/3/24	Thu 12/26/24	NA	NA																								
1743	Start-up Inner Recirculation/TCS Loop	6 mons	Thu 12/26/24	Fri 6/20/25	NA	NA																								
1744	Start-up Complete/Start Full Remedy Operations	0 days	Mon 6/23/25	Mon 6/23/25	NA	NA																								
1745	Construction Close-out	12.6 mons	Wed 7/3/24	Tue 7/8/25	NA	NA																								
1746	<b>Reporting</b>	<b>1512 days</b>	<b>Mon 11/19/18</b>	<b>Fri 8/30/24</b>	<b>NA</b>	<b>NA</b>																								
1747	Prepare/submit monthly construction progress reports	72 mons	Mon 11/19/18	Fri 8/30/24	NA	NA																								
1748	Start Operation and Maintenance	0 days	Tue 6/24/25	Tue 6/24/25	NA	NA																								

Tasks Not Started/In Progress Overall Task Duration Manual Task Start-only [

Tasks Finished Inactive Task Duration-only Finish-only ]

Baseline Schedule Inactive Milestone Manual Summary Rollup Manual Summary

Milestone

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