

HANDOUT 9A - TOPOCK REMEDIATION PROJECT SCHEDULE (REV. 43) FEBRUARY 5, 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)	6431 days	Sat 2/24/96	Mon 9/7/20	Sat 2/24/96	NA	[Solid black bar]																												
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)	3704 days	Sat 7/15/06	Mon 9/7/20	Sat 7/15/06	NA	[Solid black bar]																												
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	841 days	Tue 6/20/17	Mon 9/7/20	Tue 6/20/17	NA	[Solid black bar]																												
979	Soil Risk Assessment	704.45 days	Tue 6/20/17	Fri 2/28/20	Tue 6/20/17	NA	[Solid black bar]																												
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	55 days	Mon 12/2/19	Fri 2/14/20	Mon 12/2/19	NA																													
997	DTSC review/approve	4.45 mons	Tue 10/22/19	Fri 2/28/20	Tue 10/22/19	NA																													
998	DOI review/approve	4.45 mons	Tue 10/22/19	Fri 2/28/20	Tue 10/22/19	NA																													

Project: PG&E Topock Remediation Project Date: Wed 1/29/20	Page 1 of 3	Tasks Not Started/In Progress	Overall Task Duration	Manual Task	Start-only
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		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).
 *Timeframes shown are for planning purpose. Actual timeframes may vary.

Color Coding:
 PG&E Federal Agencies CWG/TWG Public
 DTSC Tribes/SHPO Other CA Agencies AZ Agencies

Major Assumptions
 - Permits, CWG/ stakeholder review, and DTSC review & approvals are estimated.
 - Actual dates may vary depending on field conditions.

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							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
999	RFI/RI Volume 3	813 days	Fri 7/28/17	Mon 9/7/20	Fri 7/28/17	NA																								
1000	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																								
1001	DTSC sends report to CWG/TWG and Tribes	1 day	Tue 12/10/19	Tue 12/10/19	Tue 12/10/19	Tue 12/10/19																								
1002	CWG/TWG review/comment	80.38 edays	Tue 12/10/19	Fri 2/28/20	Tue 12/10/19	NA																								
1003	Tribes review/comment	80.38 edays	Tue 12/10/19	Fri 2/28/20	Tue 12/10/19	NA																								
1004	DTSC review/comment	97.38 edays	Tue 12/10/19	Mon 3/16/20	Tue 12/10/19	NA																								
1005	DOI review/comment	97.38 edays	Tue 12/10/19	Mon 3/16/20	Tue 12/10/19	NA																								
1006	Review/compile Comment Table (duration will be verified after receipt of comments and directives)	31 edays	Tue 3/17/20	Fri 4/17/20	NA	NA																								
1007	DTSC/DOI/PG&E hold comment clarification meeting (date is tentative)	0 days	Wed 3/18/20	Wed 3/18/20	NA	NA																								
1008	Prepare/send RTC Table (duration will be verified after receipt of comments)	4 wks	Tue 4/21/20	Mon 5/18/20	NA	NA																								
1009	RTC Meeting	10 days	Mon 5/25/20	Mon 6/8/20	NA	NA																								
1010	Send agenda (2 wks prior to meeting)	0 days	Mon 5/25/20	Mon 5/25/20	NA	NA																								
1011	Hold Meeting	0 days	Mon 6/8/20	Mon 6/8/20	NA	NA																								
1012	Prepare Revised RFI Volume 3 with RTC Table (duration is estimated, to be verified after completion of RTCs)	2 mons	Wed 6/10/20	Thu 8/6/20	NA	NA																								
1013	DTSC review/approve Revised RFI/RI Vol. 3 Report	1 mon	Mon 8/10/20	Mon 9/7/20	NA	NA																								
1014	DOI review/approve Revised RFI/RI Vol. 3 Report	1 mon	Mon 8/10/20	Mon 9/7/20	NA	NA																								
1015	GROUNDWATER CORRECTIVE MEASURES/REMEDIAL ALTERNATIVE DEVELOPMENT	2835 days	Mon 3/29/04	Wed 12/31/14	Mon 3/29/04	Wed 12/31/14																								
1163	CORRECTIVE MEASURE STUDY/FEASIBILITY STUDY (CMS/FS) AND RISK ASSESSMENT	4885 days	Mon 12/16/02	Fri 7/23/21	Mon 12/16/02	NA																								
1345	STATEMENT OF BASIS	3130.6 days	Mon 1/4/10	Thu 12/23/21	Mon 1/4/10	NA																								
1360	RECORD OF DECISION	3231 days	Fri 12/18/09	Wed 4/27/22	Fri 12/18/09	NA																								
1383	Section 106 Programmatic Agreement (PA)	1858 days	Fri 10/10/08	Wed 11/18/15	Fri 10/10/08	NA																								
1416	EIR DOCUMENTATION	1449 days	Thu 9/1/05	Wed 3/2/11	Thu 9/1/05	Wed 3/2/11																								
1489	DESIGN, PERMITTING, AND CONSTRUCTION OF GROUNDWATER REMEDY	1889 days	Mon 1/31/11	Tue 4/24/18	Mon 1/31/11	Tue 4/24/18																								
1490	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																								
1504	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																								
1677	Community Outreach	1710 days	Fri 10/7/11	Tue 4/24/18	Fri 10/7/11	Tue 4/24/18																								
1687	Project Contracting	2.9 mons	Wed 4/4/18	Wed 6/27/18	Wed 4/4/18	NA																								
1688	Construction (this is a preliminary construction schedule for planning purposes)	1836.9 days	Wed 6/27/18	Tue 7/8/25	Wed 6/27/18	NA																								
1689	Pre-Construction	68 days	Wed 6/27/18	Sun 9/30/18	Wed 6/27/18	Sun 9/30/18																								
1696	Construction and Start-up Activities	1767.9 days	Tue 10/2/18	Tue 7/8/25	Tue 10/2/18	NA																								
1697	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																								
1698	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																								
1699	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																								
1700	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																								
1701	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																								
1702	Major Phase 1 Construction Activities	717 days	Thu 10/4/18	Wed 6/30/21	Thu 10/4/18	NA																								
1703	Build Construction Headquarters	9.67 mons	Thu 10/4/18	Fri 7/12/19	Thu 10/4/18	Fri 7/12/19																								
1704	Build Soil Processing Yard	11.1 mons	Mon 11/12/18	Tue 10/1/19	Mon 11/12/18	Tue 10/1/19																								
1705	Install Pilot Borings, Monitoring Wells, and Remediation Wells	26.95 mons	Fri 11/2/18	Thu 12/31/20	Fri 11/2/18	NA																								
1706	Build IRZ Ring Road	624.38 edays	Wed 4/17/19	Thu 12/31/20	Wed 4/17/19	NA																								
1707	Install Remedy Pipelines	23.76 mons	Mon 2/4/19	Thu 12/31/20	Mon 2/4/19	NA																								
1708	Install Remedy Facilities at MW-20 Bench	7 mons	Mon 12/16/19	Tue 7/7/20	Mon 12/16/19	NA																								

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1709	Install Electrical and Control System	23.9 mons	Wed 1/30/19	Thu 12/31/20	Wed 1/30/19	NA																															
1710	Site Stabilization/Revegetation	29.38 mons	Fri 11/23/18	Thu 4/1/21	Fri 11/23/18	NA																															
1711	System Integration and Functional Testing	177.38 edays	Mon 1/4/21	Wed 6/30/21	NA	NA																															
1712	Shut down IM and Start-up IRZ	24.8 mons	Fri 7/2/21	Fri 6/30/23	NA	NA																															
1713	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																															
1714	Commissioning and Start-up Freshwater Injection	6 mons	Wed 7/3/24	Thu 12/26/24	NA	NA																															
1715	Start-up Inner Recirculation/TCS Loop	6 mons	Thu 12/26/24	Fri 6/20/25	NA	NA																															
1716	Start-up Complete/Start Full Remedy Operations	0 days	Mon 6/23/25	Mon 6/23/25	NA	NA																															
1717	Construction Close-out	12.6 mons	Wed 7/3/24	Tue 7/8/25	NA	NA																															
1718	Reporting	1512 days	Mon 11/19/18	Fri 8/30/24	NA	NA																															
1719	Prepare/submit monthly construction progress reports	72 mons	Mon 11/19/18	Fri 8/30/24	NA	NA																															
1720	Start Operation and Maintenance	0 days	Tue 6/24/25	Tue 6/24/25	NA	NA																															

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