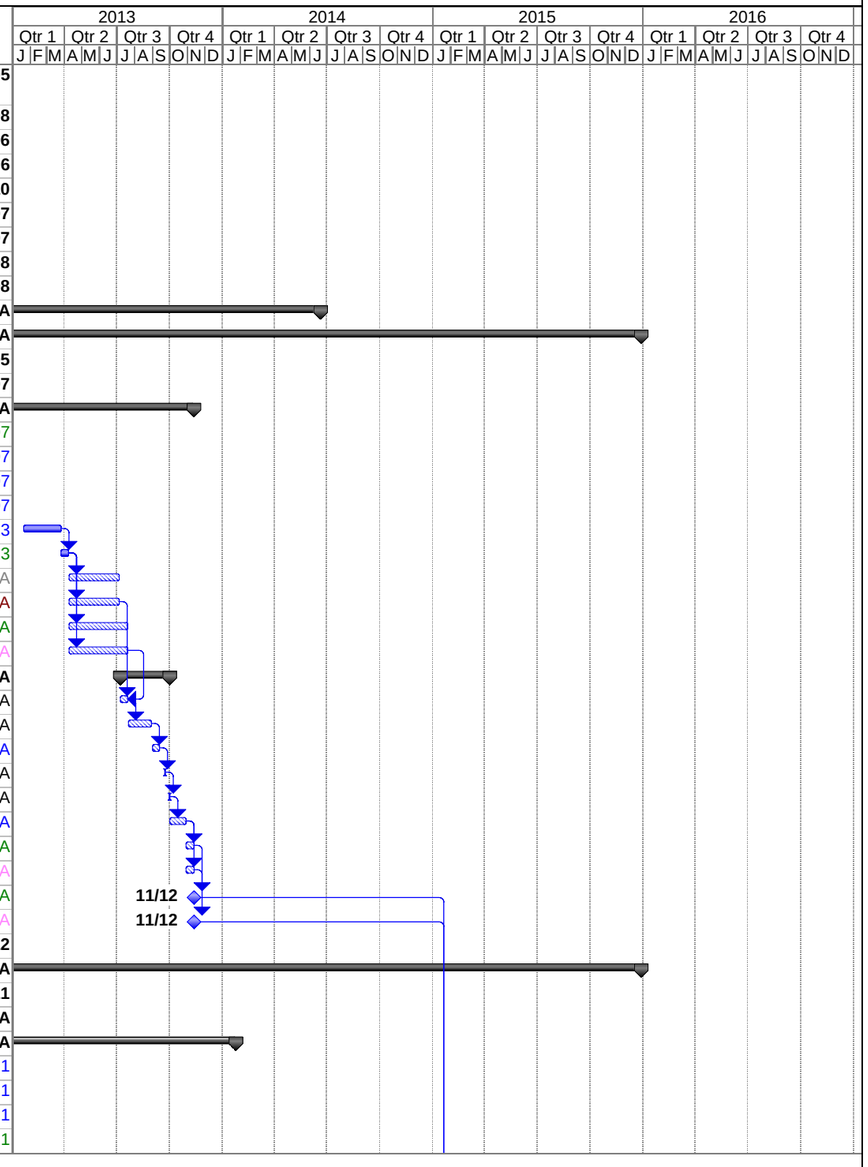
HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
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)**	**1968 days**	**Tue 12/19/06**	**Fri 6/20/14**	**Tue 12/19/06**	**NA**
253	**REMEDIAL FACILITY INVESTIGATION/REMEDIAL INVESTIGATION (RFI/RI)**	**5205 days**	**Sat 2/24/96**	**Tue 12/29/15**	**Sat 2/24/96**	**NA**
254	**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**
272	**Prepare Site History Report (Vol 1)**	**466 days**	**Tue 11/15/05**	**Wed 8/15/07**	**Tue 11/15/05**	**Wed 8/15/07**
287	**Prepare RFI/RI Vol 1 Addendum**	**1660 days**	**Wed 7/11/07**	**Tue 11/12/13**	**Wed 7/11/07**	**NA**
288	Requirement to include MW-20 bench/IM3 Treatment Plant into RCRA process	1 day	Wed 7/11/07	Wed 7/11/07	Wed 7/11/07	Wed 7/11/07
289	Conference call to discuss RFI/RI Vol 1 Addendum for inclusion of MW-20/IM3	1 day	Wed 7/18/07	Wed 7/18/07	Wed 7/18/07	Wed 7/18/07
290	PG&E proposed a timeline schedule for RFI Vol 1 Addendum	1 day	Fri 8/17/07	Fri 8/17/07	Fri 8/17/07	Fri 8/17/07
291	Received concurrence from DTSC	1 day	Wed 12/5/07	Wed 12/5/07	Wed 12/5/07	Wed 12/5/07
292	Prepare RFI/RI Vol 1 Addendum	2.24 mons	Mon 1/21/13	Tue 3/26/13	Mon 1/21/13	Tue 3/26/13
293	DTSC sends Addendum to CWG/TWG	9 days	Wed 3/27/13	Mon 4/8/13	Wed 3/27/13	Mon 4/8/13
294	CWG/TWG review/comment	87.38 edays	Tue 4/9/13	Fri 7/5/13	Tue 4/9/13	NA
295	Tribes review/comment	87.38 edays	Tue 4/9/13	Fri 7/5/13	Tue 4/9/13	NA
296	DTSC review/comment	102.38 edays	Tue 4/9/13	Sat 7/20/13	Tue 4/9/13	NA
297	DOI review/comment	102.38 edays	Tue 4/9/13	Sat 7/20/13	Tue 4/9/13	NA
298	**Response to Comments (RTCs)/Comment Resolution**	**62 days**	**Mon 7/8/13**	**Tue 10/1/13**	**NA**	**NA**
299	Agencies meet with Tribes to discuss comments	10 days	Mon 7/8/13	Sat 7/20/13	NA	NA
300	Agencies and PG&E resolve comments/finalize RTCs (duration is approximate, will verify after receipt	6 wks	Mon 7/22/13	Fri 8/30/13	NA	NA
301	Submit RTCs to Agencies, Stakeholders, and Tribes	2 wks	Mon 9/2/13	Fri 9/13/13	NA	NA
302	Meeting to discuss RTCs (1 wk after submit RTCs, subject to availability)	1 day	Mon 9/23/13	Mon 9/23/13	NA	NA
303	Comment resolution complete (1 wk after RTCs meeting)	1 day	Tue 10/1/13	Tue 10/1/13	NA	NA
304	Prepare/submit Final RFI/RI Vol 1 Addendum (duration is approximate, will verify after comment resolution	4 wks	Wed 10/2/13	Tue 10/29/13	NA	NA
305	DTSC reviews Final RFI/RI Vol 1 Addendum	10 days	Wed 10/30/13	Tue 11/12/13	NA	NA
306	DOI reviews Final RFI/RI Vol 1 Addendum	10 days	Wed 10/30/13	Tue 11/12/13	NA	NA
307	DTSC review/issue approval letter for RFI/RI Vol 1 Addendum	0 days	Tue 11/12/13	Tue 11/12/13	NA	NA
308	DOI review/issue approval letter for RFI/RI Vol 1 Addendum	0 days	Tue 11/12/13	Tue 11/12/13	NA	NA
309	**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**
619	**Prepare Final Soil RFI/RI (Vol 3)**	**2478 days**	**Sat 7/15/06**	**Tue 12/29/15**	**Sat 7/15/06**	**NA**
620	**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**
769	**Draft On-site Soil Sampling (Part B) DQOs**	**1122 days**	**Wed 12/6/06**	**Fri 3/11/11**	**Wed 12/6/06**	**NA**
824	**Soil RFI/RI Work Plan**	**800 days**	**Tue 1/4/11**	**Fri 1/24/14**	**Tue 1/4/11**	**NA**
825	Receive DTSC's direction to combine Soil Part A and Part B into one Work Plan	1 day	Tue 1/4/11	Tue 1/4/11	Tue 1/4/11	Tue 1/4/11
826	Receive additional directions from agencies on Part A data gaps evaluation	1 day	Fri 2/25/11	Fri 2/25/11	Fri 2/25/11	Fri 2/25/11
827	Prepare/submit Soil Work Plan (assumes no pre-meeting with agencies/Tribes)	50 days	Mon 2/28/11	Fri 5/6/11	Mon 2/28/11	Fri 5/6/11
828	DTSC forward to CWG/TWG	2 days	Mon 5/9/11	Tue 5/10/11	Mon 5/9/11	Tue 5/10/11



Project: PG&E Topock Remediation Project
Date: Fri 4/12/13

Tasks Not Started/In Progess
Tasks Finished
Baseline Schedule
Milestone
Overall Task Duration

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

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

HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

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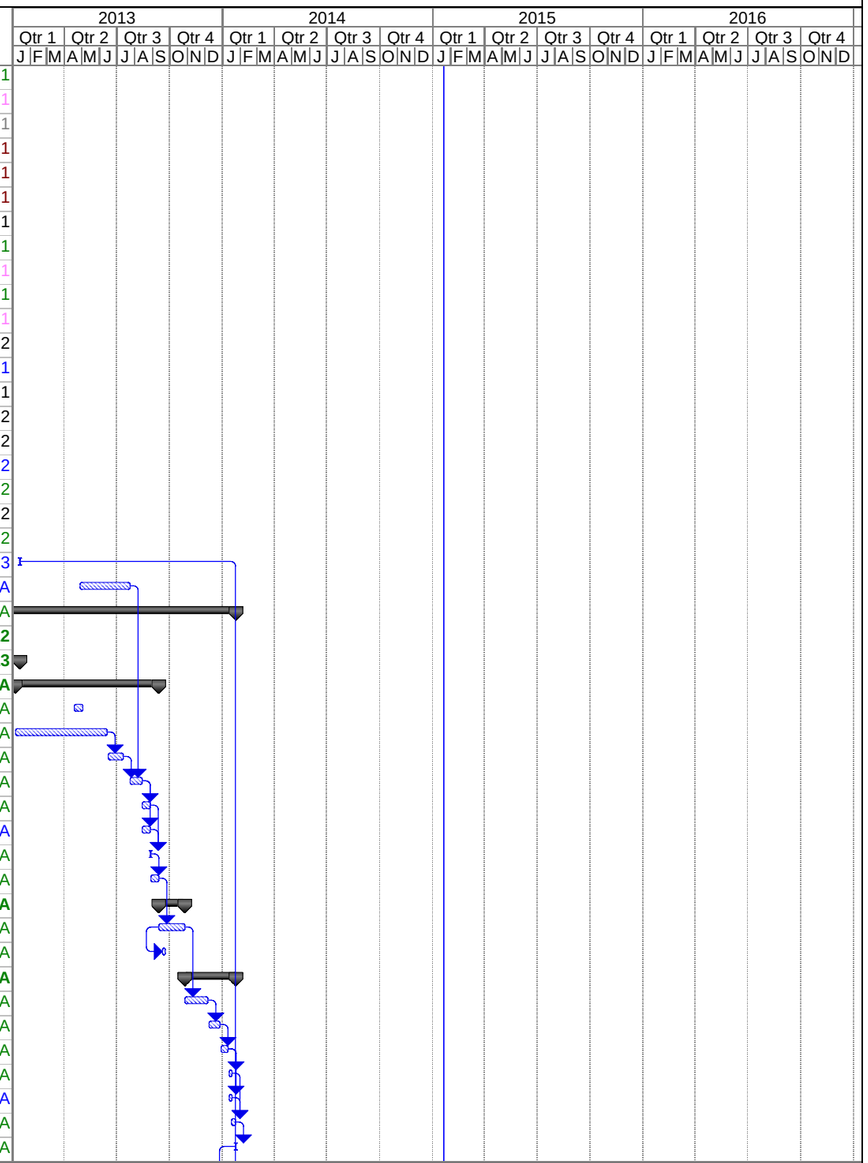
829	DTSC review/comment on Soil Work Plan	101.38 edays	Tue 5/10/11	Fri 8/19/11	Tue 5/10/11	Fri 8/19/11
830	DOI review/comment on Soil Work Plan	98.38 edays	Tue 5/10/11	Tue 8/16/11	Tue 5/10/11	Tue 8/16/11
831	CWG/TWG review/comment on Soil Work Plan	83.38 edays	Tue 5/10/11	Mon 8/1/11	Tue 5/10/11	Mon 8/1/11
832	Tribal Consultation	66.38 edays	Fri 5/27/11	Mon 8/1/11	Fri 5/27/11	Mon 8/1/11
833	SHPO Consultation	66.38 edays	Fri 5/27/11	Mon 8/1/11	Fri 5/27/11	Mon 8/1/11
834	FMIT comment on DTSC's/DOI's comments	0 days	Fri 9/9/11	Fri 9/9/11	Fri 9/9/11	Fri 9/9/11
835	FMIT, Hualapai, DTSC and DOI discuss FMIT's comments on Agencies' comments	1 day	Thu 9/15/11	Thu 9/15/11	Thu 9/15/11	Thu 9/15/11
836	DTSC respond to FMIT's comment on DTSC's comments	1 day	Thu 10/6/11	Thu 10/6/11	Thu 10/6/11	Thu 10/6/11
837	DOI respond to FMIT's comment on DOI's comments	1 day	Thu 10/6/11	Thu 10/6/11	Thu 10/6/11	Thu 10/6/11
838	DTSC provides additional direction to PGE	1 day	Fri 10/7/11	Fri 10/7/11	Fri 10/7/11	Fri 10/7/11
839	DOI provides additional direction to PG&E	1 day	Fri 10/7/11	Fri 10/7/11	Fri 10/7/11	Fri 10/7/11
840	Comment resolution	42.2 wks	Mon 8/22/11	Fri 6/15/12	Mon 8/22/11	Fri 6/15/12
841	Draft response to comments to Tribes	1 day	Wed 12/14/11	Wed 12/14/11	Wed 12/14/11	Wed 12/14/11
842	Sitewalk to review soil sample locations	1 day	Thu 12/15/11	Thu 12/15/11	Thu 12/15/11	Thu 12/15/11
843	Final response to comments (RTCs) to CWG/TWG/Agencies/Tribes	0 days	Fri 5/11/12	Fri 5/11/12	Fri 5/11/12	Fri 5/11/12
844	Meeting to discuss RTCs (after 2weeks review of RTCs by CWG/ TWG/Tribes)	0 days	Fri 6/15/12	Fri 6/15/12	Fri 6/15/12	Fri 6/15/12
845	PG&E submits Revised Work Plan including RTCs	16.4 wks	Fri 5/11/12	Wed 9/5/12	Fri 5/11/12	Wed 9/5/12
846	DTSC forward to CWG/TWG	0 days	Mon 9/17/12	Mon 9/17/12	Mon 9/17/12	Mon 9/17/12
847	DOI, DTSC, and Tribes met to discuss Soil RTC process	1 day	Tue 10/16/12	Tue 10/16/12	Tue 10/16/12	Tue 10/16/12
848	DTSC reviews/comments on Revised Work Plan	24 days	Tue 9/18/12	Fri 10/19/12	Tue 9/18/12	Fri 10/19/12
849	PG&E submits Final Work Plan (clean and redline versions)	1 day	Mon 1/14/13	Mon 1/14/13	Mon 1/14/13	Mon 1/14/13
850	Historical/Archaeological Sites Survey of Soil EIR Project Area and Reporting	3 mons	Mon 4/29/13	Wed 7/24/13	NA	NA
851	State CEQA evaluation	315 days	Mon 11/12/12	Fri 1/24/14	Mon 11/12/12	NA
852	**Prepare Notice of Preparation**	**13 days**	**Mon 11/12/12**	**Wed 11/28/12**	**Mon 11/12/12**	**Wed 11/28/12**
860	**NOP Public Review**	**34 days**	**Wed 11/28/12**	**Mon 1/14/13**	**Wed 11/28/12**	**Mon 1/14/13**
863	**Prepare Draft EIR**	**179 days**	**Mon 1/7/13**	**Thu 9/12/13**	**Mon 1/7/13**	**NA**
864	Tribal Cultural Input and Mitigation Measure	11 days	Fri 4/19/13	Fri 5/3/13	NA	NA
865	ESA Prepare Admin Draft EIR (without full cultural resources section)	23 wks	Mon 1/7/13	Fri 6/14/13	Mon 1/7/13	NA
866	DTSC Review Admin Draft EIR (without full cultural resources section)	4 wks	Mon 6/17/13	Fri 7/12/13	NA	NA
867	ESA Prepare Screencheck Draft EIR (with cultural resources section)	3 wks	Thu 7/25/13	Wed 8/14/13	NA	NA
868	DTSC Review Screencheck Draft EIR	2 wks	Thu 8/15/13	Wed 8/28/13	NA	NA
869	PG&E Review Screencheck Draft EIR	2 wks	Thu 8/15/13	Wed 8/28/13	NA	NA
870	Comment Resolution Meeting	1 day	Thu 8/29/13	Thu 8/29/13	NA	NA
871	ESA Revise/Finalize Draft EIR	2 wks	Fri 8/30/13	Thu 9/12/13	NA	NA
872	**Draft EIR Public Review**	**31 days**	**Thu 9/12/13**	**Sun 10/27/13**	**NA**	**NA**
873	Public Review	45 edays	Thu 9/12/13	Sun 10/27/13	NA	NA
874	Public Meetings	3 days	Thu 9/19/13	Mon 9/23/13	NA	NA
875	**Final EIR**	**65 days**	**Mon 10/28/13**	**Fri 1/24/14**	**NA**	**NA**
876	ESA Prepare Admin Draft Response to Comments (RTC)/EIR Revisions	6 wks	Mon 10/28/13	Fri 12/6/13	NA	NA
877	DTSC Review Admin Draft RTC/EIR/Findings/Mitigation Measures Monitoring and Reporting	3 wks	Mon 12/9/13	Fri 12/27/13	NA	NA
878	ESA Prepare Screencheck RTC/FEIR/Findings/MMRP	2 wks	Mon 12/30/13	Fri 1/10/14	NA	NA
879	DTSC Review of Screencheck RTC/FEIR/Findings	1 wk	Mon 1/13/14	Fri 1/17/14	NA	NA
880	PG&E Review of Screencheck RTC/FEIR/Findings	1 wk	Mon 1/13/14	Fri 1/17/14	NA	NA
881	ESA Prepare Final RTC/FEIR/Findings/MMRP	1 wk	Fri 1/17/14	Thu 1/23/14	NA	NA
882	DTSC certifies Final EIR/files Notice of Determination (NOD)	1 day	Fri 1/24/14	Fri 1/24/14	NA	NA



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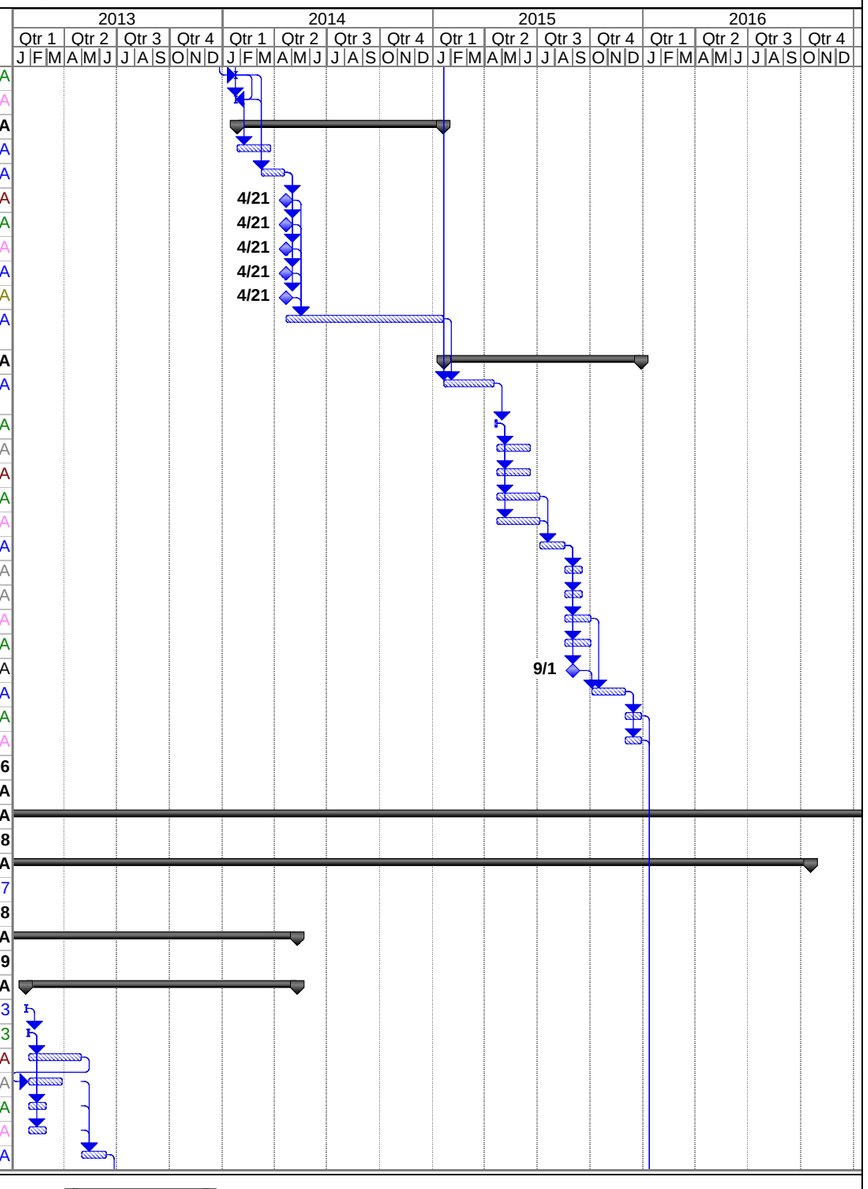
HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
883	DTSC approve Final Work Plan	1 day	Fri 1/24/14	Fri 1/24/14	NA	NA
884	DOI approve Final Work Plan	1 day	Fri 1/24/14	Fri 1/24/14	NA	NA
885	**Work Plan Implementation/Data Analysis**	**256 days**	**Mon 1/27/14**	**Mon 1/19/15**	**NA**	**NA**
886	Permitting/Planning for Field Work	2 mons	Mon 1/27/14	Tue 3/25/14	NA	NA
887	Field mobilization	30 days	Mon 3/10/14	Fri 4/18/14	NA	NA
888	Stakeholder Attending Kick-Off Meeting at Site*	0 days	Mon 4/21/14	Mon 4/21/14	NA	NA
889	Stakeholder Attending Kick-Off Meeting at Site*	0 days	Mon 4/21/14	Mon 4/21/14	NA	NA
890	Stakeholder Attending Kick-Off Meeting at Site*	0 days	Mon 4/21/14	Mon 4/21/14	NA	NA
891	Stakeholder Attending Kick-Off Meeting at Site*	0 days	Mon 4/21/14	Mon 4/21/14	NA	NA
892	Stakeholder Attending Kick-Off Meeting at Site*	0 days	Mon 4/21/14	Mon 4/21/14	NA	NA
893	Field Implementation (field duration will depend on field conditions, ability to perform field work concurrently, and ability to reach timely decisions on additional sampling needs)	273 edays	Mon 4/21/14	Mon 1/19/15	NA	NA
894	**Reporting (RFI/RI Volume 3)**	**245 days**	**Wed 1/21/15**	**Tue 12/29/15**	**NA**	**NA**
895	Prepare Draft RFI/RI Vol 3 report (duration is estimated and will be verified/adjusted after completion of Soil RFI/RI Field Implementation)	3 mons	Wed 1/21/15	Fri 4/17/15	NA	NA
896	DTSC sends report to CWG/TWG and Tribes	3 days	Mon 4/20/15	Wed 4/22/15	NA	NA
897	CWG/TWG review/comment	2 mons	Thu 4/23/15	Fri 6/19/15	NA	NA
898	Tribes review/comment	2 mons	Thu 4/23/15	Fri 6/19/15	NA	NA
899	DTSC review/comment/provide direction to PG&E	2.5 mons	Thu 4/23/15	Mon 7/6/15	NA	NA
900	DOI review/comment/provide direction to PG&E	2.5 mons	Thu 4/23/15	Mon 7/6/15	NA	NA
901	Prepare RTCs (duration is estimated, to be verified after receipt of comments and direction)	1.5 mons	Mon 7/6/15	Tue 8/18/15	NA	NA
902	CWG/TWG review/comment	30 edays	Tue 8/18/15	Thu 9/17/15	NA	NA
903	Tribes review/comemnt	30 edays	Tue 8/18/15	Thu 9/17/15	NA	NA
904	DOI review/comment	45 edays	Tue 8/18/15	Fri 10/2/15	NA	NA
905	DTSC review/comment	45 edays	Tue 8/18/15	Fri 10/2/15	NA	NA
906	Meeting to discuss RTCs (approx. 2 wks after review by CWG/ TWG/Tribes/ Agencies)	0 days	Tue 9/1/15	Tue 9/1/15	NA	NA
907	Prepare Revised RFI Volume 3 (duration is estimated, to be verified after completion of RTCs)	2 mons	Mon 10/5/15	Tue 12/1/15	NA	NA
908	DTSC review/approve Revised RFI/RI Vol. 3	4 wks	Wed 12/2/15	Tue 12/29/15	NA	NA
909	DOI review/approve Revised RFI/RI Vol. 3 Report	4 wks	Wed 12/2/15	Tue 12/29/15	NA	NA
910	**ADEQ Topock Groundwater Study**	**475 days**	**Thu 11/18/04**	**Wed 8/23/06**	**Thu 11/18/04**	**Wed 8/23/06**
914	**CORRECTIVE MEASURES/REMEDIAL ALTERNATIVE DEVELOPMENT**	**1527 days**	**Mon 3/29/04**	**Thu 12/31/09**	**Mon 3/29/04**	**NA**
1062	**CORRECTIVE MEASURE STUDY/FEASIBILITY STUDY (CMS/FS) AND RISK ASSESSMENT**	**3870 days**	**Mon 12/16/02**	**Wed 9/6/17**	**Mon 12/16/02**	**NA**
1063	**CMS Work Plan**	**1465 days**	**Mon 12/16/02**	**Tue 6/24/08**	**Mon 12/16/02**	**Tue 6/24/08**
1082	**Risk Evaluation - Scoping and CSM**	**2611 days**	**Tue 10/31/06**	**Tue 10/18/16**	**Tue 10/31/06**	**NA**
1083	Soil Land Use and Pathway Analysis before Nov. 2007 Group Meeting	265 days	Tue 10/31/06	Fri 10/26/07	Tue 10/31/06	Fri 10/26/07
1084	**Scoping for Ecological Risk Assessment Work Plan**	**282 days**	**Mon 1/22/07**	**Fri 2/15/08**	**Mon 1/22/07**	**Fri 2/15/08**
1094	**Soil/Groundwater Risk Assessment Workplan (RAWP)**	**1709 days**	**Mon 10/29/07**	**Sun 5/11/14**	**Mon 10/29/07**	**NA**
1095	**RAWP**	**334 days**	**Mon 10/29/07**	**Thu 2/5/09**	**Mon 10/29/07**	**Thu 2/5/09**
1121	**RAWP Addendum II**	**336 days**	**Fri 1/25/13**	**Sun 5/11/14**	**Fri 1/25/13**	**NA**
1122	PG&E submits Revised Arrowweed TM and RAWP Addendum II TM (Proposed Changes to RAW	1 day	Fri 1/25/13	Fri 1/25/13	Fri 1/25/13	Fri 1/25/13
1123	DTSC forward to CWG/TWG	2 days	Mon 1/28/13	Tue 1/29/13	Mon 1/28/13	Tue 1/29/13
1124	Tribal review/comment	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	NA
1125	CWG/TWG review on TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	NA
1126	DTSC review/comment on the TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	NA
1127	DOI review/comment on the TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	NA
1128	Scoping Meetings for RAWP Addendum II	1.45 mons	Thu 5/2/13	Thu 6/13/13	NA	NA



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DTSC Tribes/SHPO Other CA Agencies AZ Agencies

Major Assumptions
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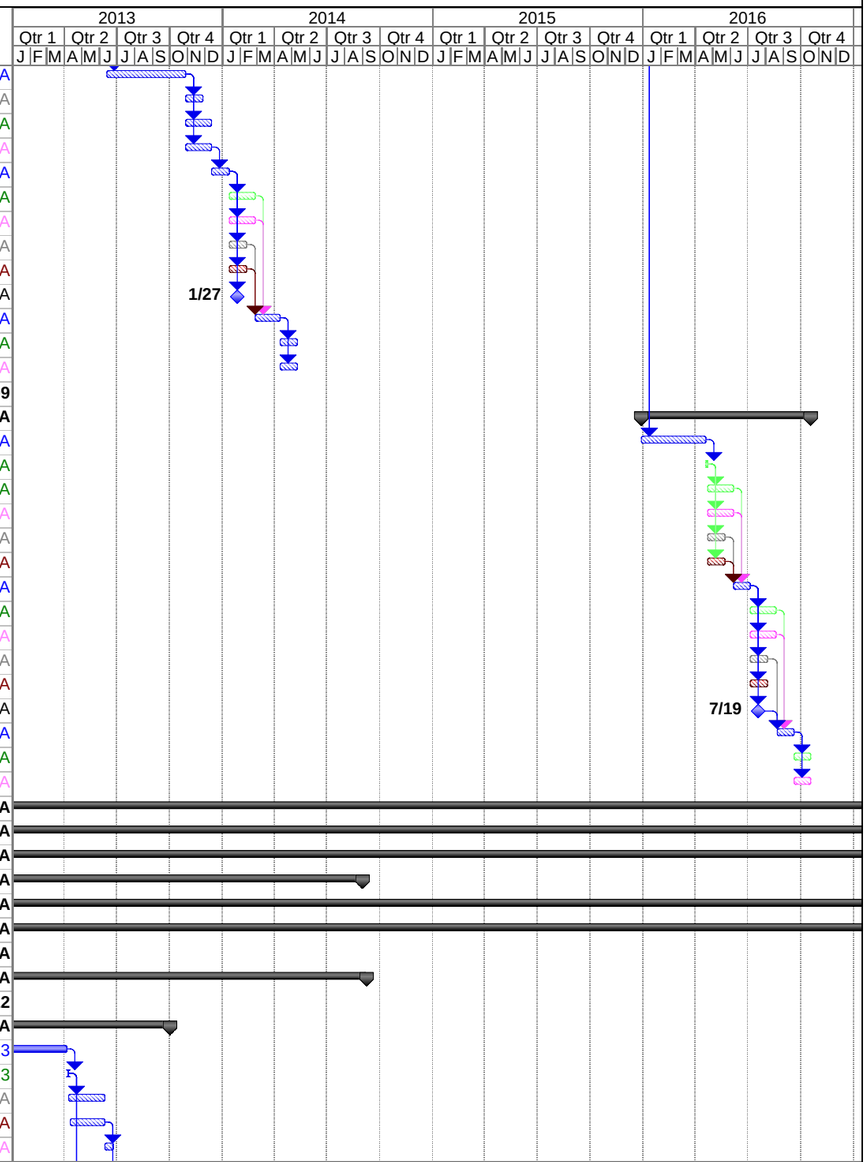
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
1129	Prepare/submit RAWP Addendum II	4.6 mons	Fri 6/14/13	Tue 10/29/13	NA	NA
1130	CWG/TWG review	30 edays	Tue 10/29/13	Thu 11/28/13	NA	NA
1131	DTSC review/comment	45 edays	Tue 10/29/13	Fri 12/13/13	NA	NA
1132	DOI review/comment	45 edays	Tue 10/29/13	Fri 12/13/13	NA	NA
1133	Prepare Response to Comments	1 mon	Fri 12/13/13	Mon 1/13/14	NA	NA
1134	DTSC review/comment	45 edays	Mon 1/13/14	Thu 2/27/14	NA	NA
1135	DOI review/comment	45 edays	Mon 1/13/14	Thu 2/27/14	NA	NA
1136	CWG/TWG review/comment	30 edays	Mon 1/13/14	Wed 2/12/14	NA	NA
1137	Tribal review/comment	30 edays	Mon 1/13/14	Wed 2/12/14	NA	NA
1138	Meeting to discuss response to comments (approx. 2 wks after review by CWG/TWG/Tribes/ Age	0 days	Mon 1/27/14	Mon 1/27/14	NA	NA
1139	Submit Final RAWP Addendum II	1.5 mons	Thu 2/27/14	Fri 4/11/14	NA	NA
1140	DTSC review/approve	30 edays	Fri 4/11/14	Sun 5/11/14	NA	NA
1141	DOI review/approve	30 edays	Fri 4/11/14	Sun 5/11/14	NA	NA
1142	**Groundwater Evaluation**	**330 days**	**Wed 9/10/08**	**Tue 12/15/09**	**Wed 9/10/08**	**Tue 12/15/09**
1159	**Soil Evaluation**	**210 days**	**Wed 12/30/15**	**Tue 10/18/16**	**NA**	**NA**
1160	Prepare and submit HH and Eco Soil risk evaluation	16 wks	Wed 12/30/15	Tue 4/19/16	NA	NA
1161	DTSC send Soil Risk Evaluation to CWG/TWG	3 days	Wed 4/20/16	Fri 4/22/16	NA	NA
1162	DTSC review/comment	45 edays	Fri 4/22/16	Mon 6/6/16	NA	NA
1163	DOI review/comment	45 edays	Fri 4/22/16	Mon 6/6/16	NA	NA
1164	CWG/TWG review/comment	30 edays	Fri 4/22/16	Sun 5/22/16	NA	NA
1165	Tribes review/comment	30 edays	Fri 4/22/16	Sun 5/22/16	NA	NA
1166	Prepare Response to Comments	1 mon	Tue 6/7/16	Tue 7/5/16	NA	NA
1167	DTSC review/comment	45 edays	Tue 7/5/16	Fri 8/19/16	NA	NA
1168	DOI review/comment	45 edays	Tue 7/5/16	Fri 8/19/16	NA	NA
1169	CWG/TWG review/comment	30 edays	Tue 7/5/16	Thu 8/4/16	NA	NA
1170	Tribal review/comment	30 edays	Tue 7/5/16	Thu 8/4/16	NA	NA
1171	Meeting to discuss response to comments (approx. 2 wks after review by CWG/TWG/Tribes/ Agencies	0 days	Tue 7/19/16	Tue 7/19/16	NA	NA
1172	Finalize risk evaluation	1 mon	Mon 8/22/16	Mon 9/19/16	NA	NA
1173	DTSC review/approve	1 mon	Tue 9/20/16	Tue 10/18/16	NA	NA
1174	DOI review/approve	1 mon	Tue 9/20/16	Tue 10/18/16	NA	NA
1175	**CMS/FS Report**	**2367 days**	**Mon 8/18/08**	**Wed 9/6/17**	**Mon 8/18/08**	**NA**
1253	**STATEMENT OF BASIS**	**2115.6 days**	**Mon 1/4/10**	**Tue 2/6/18**	**Mon 1/4/10**	**NA**
1268	**RECORD OF DECISION**	**2216 days**	**Fri 12/18/09**	**Mon 6/11/18**	**Fri 12/18/09**	**NA**
1291	**Section 106 Programmatic Agreement (PA)**	**1541 days**	**Fri 10/10/08**	**Mon 9/1/14**	**Fri 10/10/08**	**NA**
1324	**EIR DOCUMENTATION**	**3267 days**	**Thu 9/1/05**	**Sun 2/18/18**	**Thu 9/1/05**	**NA**
1410	**DESIGN, PERMITTING, AND CONSTRUCTION OF GROUNDWATER REMEDY**	**1850 days**	**Mon 1/31/11**	**Thu 3/1/18**	**Mon 1/31/11**	**NA**
1411	**Corrective Measure Implementation/Remedial Design (CMI/RD) Workplan**	**199 days**	**Mon 1/31/11**	**Thu 11/3/11**	**Mon 1/31/11**	**NA**
1425	**Remedial Design (Preliminary, Intermediate, and Pre-Final/Final)**	**776 days**	**Tue 9/20/11**	**Mon 9/8/14**	**Tue 9/20/11**	**NA**
1426	**Preliminary Design**	**174 days**	**Tue 9/20/11**	**Thu 5/17/12**	**Tue 9/20/11**	**Thu 5/17/12**
1438	**Intermediate Design**	**358.5 days**	**Fri 5/18/12**	**Wed 10/2/13**	**Fri 5/18/12**	**NA**
1439	Prepare/submit Intermediate Design Package	11 mons	Fri 5/18/12	Fri 4/5/13	Fri 5/18/12	Fri 4/5/13
1440	DTSC forward to CWG/TWG	1 day	Mon 4/8/13	Mon 4/8/13	Mon 4/8/13	Mon 4/8/13
1441	CWG/TWG review/comment on Intermediate Design Package	64 edays	Mon 4/8/13	Tue 6/11/13	Mon 4/8/13	NA
1442	Tribes Consultation	60 edays	Fri 4/12/13	Tue 6/11/13	Fri 4/12/13	NA
1443	BLM process after close of comment period	15 edays	Tue 6/11/13	Wed 6/26/13	NA	NA



Project: PG&E Topock Remediation Project
Date: Fri 4/12/13

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

Major Assumptions
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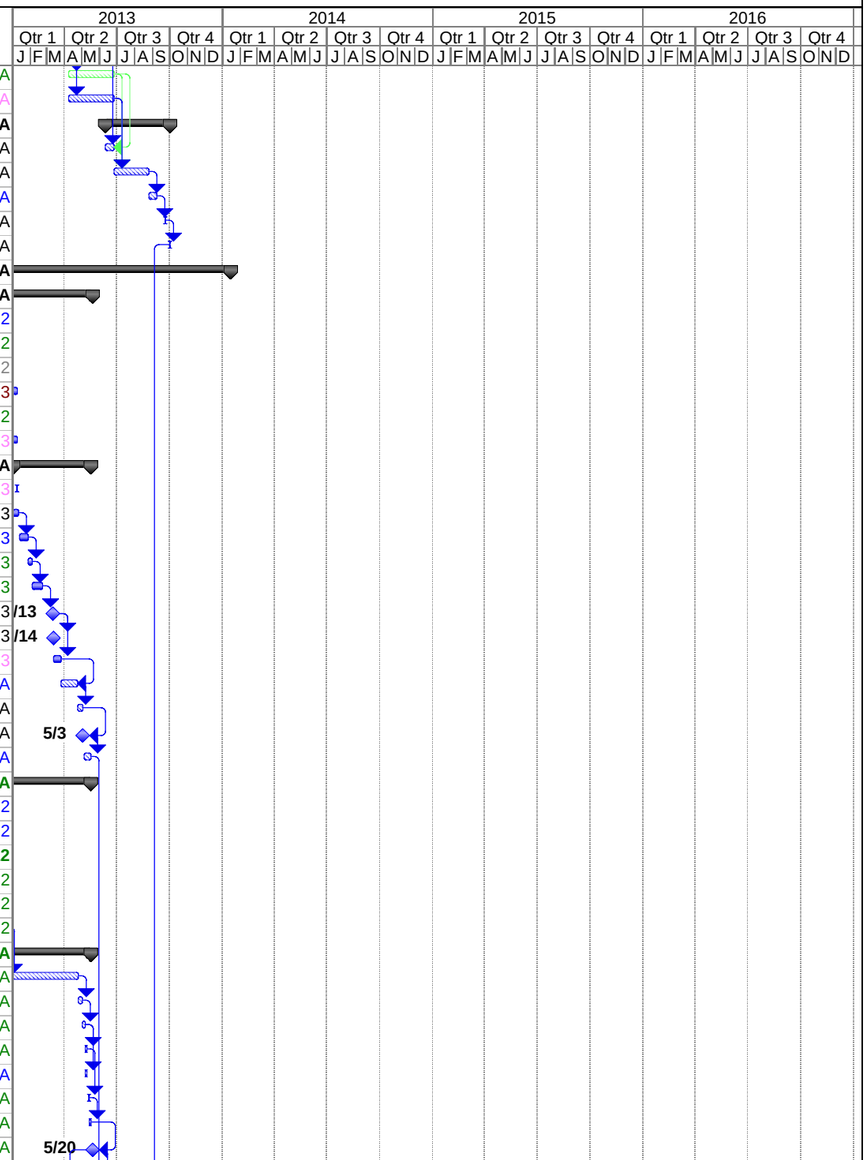
HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
1444	DTSC review/comment on Intermediate Design Package	79.38 edays	Mon 4/8/13	Wed 6/26/13	Mon 4/8/13	NA
1445	DOI review/comment on Intermediate Design Package	79.38 edays	Mon 4/8/13	Wed 6/26/13	Mon 4/8/13	NA
1446	**Response to Comments (RTCs)/Comments Resolution**	**80.5 days**	**Wed 6/12/13**	**Wed 10/2/13**	**NA**	**NA**
1447	Agencies meet with Tribes to discuss comments (timing is approximate, subject to availability)	11 days	Wed 6/12/13	Wed 6/26/13	NA	NA
1448	Agencies and PG&E resolve comments (duration is approximate, will verify after receipt of comme	8.5 wks	Thu 6/27/13	Mon 8/26/13	NA	NA
1449	Submit RTCs to Agencies, Tribes and Stakeholders (duration is approximate, will verify after Ager	2 wks	Mon 8/26/13	Mon 9/9/13	NA	NA
1450	Meeting to discuss RTCs (2 weeks after submit RTCs)	1 day	Mon 9/23/13	Tue 9/24/13	NA	NA
1451	Comment resolution complete (1 wk after RTCs meeting)	1 day	Tue 10/1/13	Wed 10/2/13	NA	NA
1452	**Intermediate Design Addendum**	**304 days**	**Fri 11/16/12**	**Wed 1/15/14**	**Fri 11/16/12**	**NA**
1453	**Implementation Plan for Evaluation of Alternative Freshwater Sources**	**132 days**	**Fri 11/16/12**	**Mon 5/20/13**	**Fri 11/16/12**	**NA**
1454	Prepare/submit Fresh Water Implementation Plan	1 day	Tue 11/20/12	Tue 11/20/12	Tue 11/20/12	Tue 11/20/12
1455	DTSC forward to CWG/TWG	0 days	Wed 11/21/12	Wed 11/21/12	Wed 11/21/12	Wed 11/21/12
1456	CWG/TWG review/comment on the Implementation Plan	19 days	Wed 11/21/12	Mon 12/17/12	Wed 11/21/12	Mon 12/17/12
1457	Tribal Consultation	49.38 edays	Wed 11/21/12	Wed 1/9/13	Wed 11/21/12	Wed 1/9/13
1458	DTSC review/comment on the Implementation Plan	23 days	Wed 11/21/12	Fri 12/21/12	Wed 11/21/12	Fri 12/21/12
1459	DOI review/comment on the Implementation Plan	36 days	Wed 11/21/12	Wed 1/9/13	Wed 11/21/12	Wed 1/9/13
1460	**Response to Comments (RTCs)/Comment Resolution**	**97 days**	**Thu 1/3/13**	**Fri 5/17/13**	**Thu 1/3/13**	**NA**
1461	DOI met with Tribes to discuss comments	1 day	Wed 1/9/13	Wed 1/9/13	Wed 1/9/13	Wed 1/9/13
1462	Agencies and PG&E resolve comments	7 days	Thu 1/3/13	Fri 1/11/13	Thu 1/3/13	Fri 1/11/13
1463	Prepare/submit Revised Implementation Plan including RTCs	2.2 wks	Mon 1/14/13	Mon 1/28/13	Mon 1/14/13	Mon 1/28/13
1464	DTSC sent Revised Implementation Plan to CWG/TWG	5 days	Tue 1/29/13	Mon 2/4/13	Tue 1/29/13	Mon 2/4/13
1465	DTSC/ESA review/comment on the Revised Plan	14 days	Tue 2/5/13	Fri 2/22/13	Tue 2/5/13	Fri 2/22/13
1466	Consultation meeting with Interested Tribes	0 days	Wed 3/13/13	Wed 3/13/13	Wed 3/13/13	Wed 3/13/13
1467	Site visit following consultation meeting	0 days	Thu 3/14/13	Thu 3/14/13	Thu 3/14/13	Thu 3/14/13
1468	DOI issued direction to PG&E (based on consultation meeting	9 days	Thu 3/14/13	Tue 3/26/13	Thu 3/14/13	Tue 3/26/13
1469	Prepare/submit RTCs	21 days	Wed 3/27/13	Wed 4/24/13	Wed 3/27/13	NA
1470	Comment resolution meeting (1 wk after submit RTCs, subject to availability)	7 days	Thu 4/25/13	Fri 5/3/13	NA	NA
1471	Comment resolution complete	0 days	Fri 5/3/13	Fri 5/3/13	NA	NA
1472	Prepare/submit Final Implementation Plan	2 wks	Mon 5/6/13	Fri 5/17/13	NA	NA
1473	**State CEQA Evaluation**	**131 days**	**Fri 11/16/12**	**Fri 5/17/13**	**Fri 11/16/12**	**NA**
1474	PG&E provide bio and cultural surveys	1 day	Mon 11/19/12	Mon 11/19/12	Mon 11/19/12	Mon 11/19/12
1475	PG&E provides Draft Project Description	1 day	Fri 11/16/12	Fri 11/16/12	Fri 11/16/12	Fri 11/16/12
1476	**Project Description**	**25 days**	**Mon 11/19/12**	**Fri 12/21/12**	**Mon 11/19/12**	**Fri 12/21/12**
1477	DTSC/ESA review draft project description	3 days	Mon 11/19/12	Wed 11/21/12	Mon 11/19/12	Wed 11/21/12
1478	Comment Resolution Meeting	1 day	Mon 11/26/12	Mon 11/26/12	Mon 11/26/12	Mon 11/26/12
1479	Comment Resolution Period	19 days	Tue 11/27/12	Fri 12/21/12	Tue 11/27/12	Fri 12/21/12
1480	**Groundwater EIR Addendum**	**105 days**	**Mon 12/24/12**	**Fri 5/17/13**	**Mon 12/24/12**	**NA**
1481	ESA prepare Admin Draft Addendum	89 days	Mon 12/24/12	Thu 4/25/13	Mon 12/24/12	NA
1482	DTSC review Admin Draft Addendum	5 days	Fri 4/26/13	Thu 5/2/13	NA	NA
1483	ESA prepare Screencheck Draft Addendum	3 days	Fri 5/3/13	Tue 5/7/13	NA	NA
1484	DTSC review Screencheck Draft Addendum	3 days	Wed 5/8/13	Fri 5/10/13	NA	NA
1485	PG&E review Screencheck Draft Addendum	3 days	Wed 5/8/13	Fri 5/10/13	NA	NA
1486	Comment Resolution Meeting	1 day	Tue 5/14/13	Tue 5/14/13	NA	NA
1487	ESA finalize Addendum	3 days	Wed 5/15/13	Fri 5/17/13	NA	NA
1488	DTSC review/approve Final Implementation Plan	0 days	Mon 5/20/13	Mon 5/20/13	NA	NA



Project: PG&E Topock Remediation Project
Date: Fri 4/12/13

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DTSC Tribes/SHPO Other CA Agencies AZ Agencies

Major Assumptions
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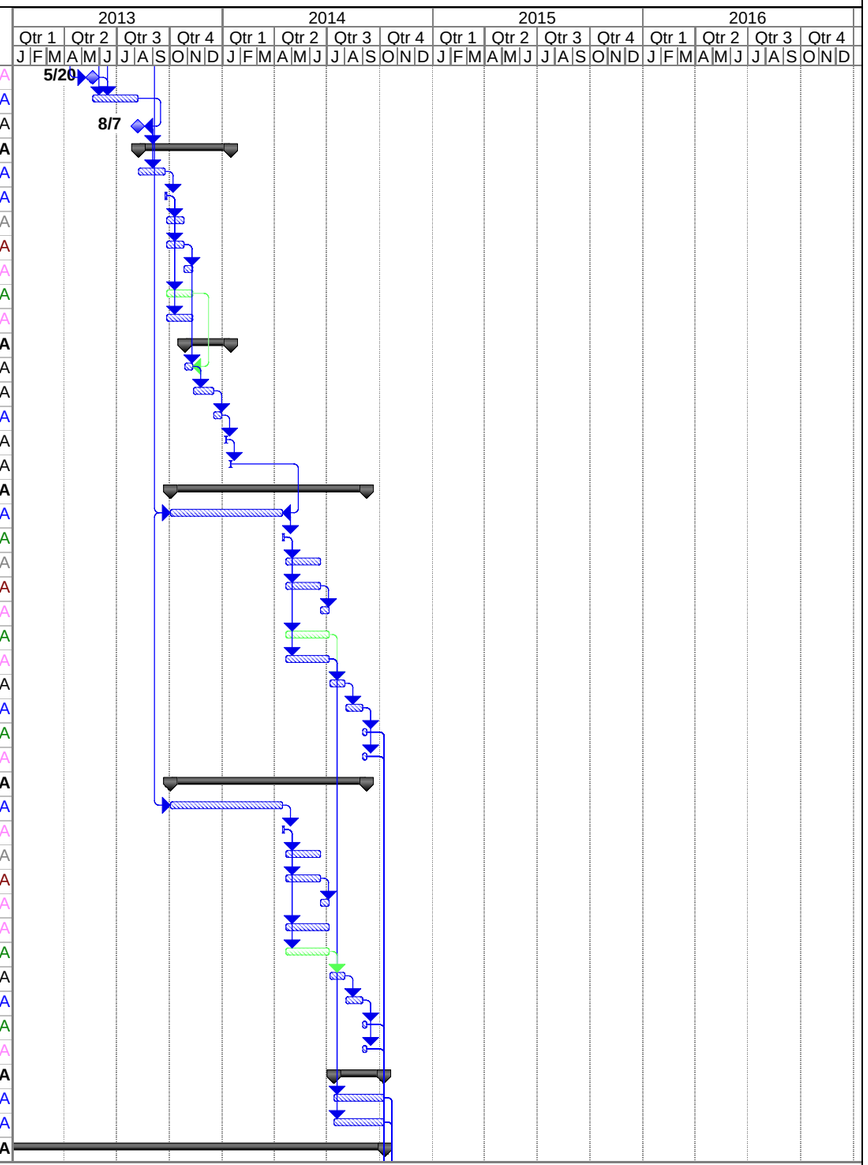
HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
1489	DOI review/approve Final Implementation Plan	0 days	Mon 5/20/13	Mon 5/20/13	NA	NA
1490	Implementation of Fresh Water Implementation Plan	2.7 mons	Tue 5/21/13	Wed 8/7/13	NA	NA
1491	Freshwater Evaluation Data Call/Path Forward	0 days	Wed 8/7/13	Wed 8/7/13	NA	NA
1492	**Intermediate Design Addendum**	**114.3 days**	**Thu 8/8/13**	**Wed 1/15/14**	**NA**	**NA**
1493	Prepare/submit Intermediate Design Addendum Package	46 edays	Thu 8/8/13	Mon 9/23/13	NA	NA
1494	DTSC forward Intermediate Design Addendum Package	3 days	Mon 9/23/13	Thu 9/26/13	NA	NA
1495	CWG/TWG review/comment	30 edays	Thu 9/26/13	Sat 10/26/13	NA	NA
1496	Tribes Consultation	30 edays	Thu 9/26/13	Sat 10/26/13	NA	NA
1497	BLM process after close of comment period	15 edays	Sat 10/26/13	Sun 11/10/13	NA	NA
1498	DTSC review/comment	45 edays	Thu 9/26/13	Sun 11/10/13	NA	NA
1499	DOI review/comment	45 edays	Thu 9/26/13	Sun 11/10/13	NA	NA
1500	**Response to Comments (RTCs)/Comment Resolution**	**58 days**	**Mon 10/28/13**	**Wed 1/15/14**	**NA**	**NA**
1501	Agencies meet with Tribes to discuss comments	10 days	Mon 10/28/13	Sun 11/10/13	NA	NA
1502	Agencies and PG&E resolve comments/finalize RTCs (duration is approximate, will verify aft	5 wks	Tue 11/12/13	Mon 12/16/13	NA	NA
1503	Submit RTCs to Tribes, Agencies, Stakeholders	2 wks	Tue 12/17/13	Mon 12/30/13	NA	NA
1504	Meeting to discuss RTCs (1 wk after submit RTCs, subject to availability)	1 day	Tue 1/7/14	Tue 1/7/14	NA	NA
1505	Comment resolution complete (1 wk after RTCs meeting)	1 day	Wed 1/15/14	Wed 1/15/14	NA	NA
1506	**Pre-Final/Final Design (include plan for decommissioning, removal, and restoration of IM3 facility)**	**243 days**	**Thu 10/3/13**	**Mon 9/8/14**	**NA**	**NA**
1507	Prepare/submit Pre-Final Design Package (verify duration after completion of comment resolution for 6	6.6 mons	Thu 10/3/13	Tue 4/15/14	NA	NA
1508	DTSC forward to CWG/TWG	3 days	Tue 4/15/14	Fri 4/18/14	NA	NA
1509	CWG/TWG review/comment on Final Design Package	60 edays	Mon 4/21/14	Fri 6/20/14	NA	NA
1510	Tribal Consultation	60 edays	Mon 4/21/14	Fri 6/20/14	NA	NA
1511	BLM process after close of comment period	15 edays	Fri 6/20/14	Sat 7/5/14	NA	NA
1512	DTSC review/comment on Final Design Package	75 edays	Mon 4/21/14	Sat 7/5/14	NA	NA
1513	DOI review/comment on Final Design Package	75 edays	Mon 4/21/14	Sat 7/5/14	NA	NA
1514	Comments resolution	4 wks	Mon 7/7/14	Fri 8/1/14	NA	NA
1515	Prepare/submit Final Design Package (duration to be confirmed after receipt of comments)	1 mon	Mon 8/4/14	Mon 9/1/14	NA	NA
1516	DTSC approves design	5 days	Tue 9/2/14	Mon 9/8/14	NA	NA
1517	DOI approves design	5 days	Tue 9/2/14	Mon 9/8/14	NA	NA
1518	**Construction/Remedial Action Work Plan**	**243 days**	**Thu 10/3/13**	**Mon 9/8/14**	**NA**	**NA**
1519	Prepare/submit Draft Work Plan	6.6 mons	Thu 10/3/13	Tue 4/15/14	NA	NA
1520	DOI forward to DTSC/CWG/TWG	3 days	Tue 4/15/14	Fri 4/18/14	NA	NA
1521	CWG/TWG review/comment on Draft Work Plan	60 edays	Mon 4/21/14	Fri 6/20/14	NA	NA
1522	Tribal Consultation on Draft Work Plan	60 edays	Mon 4/21/14	Fri 6/20/14	NA	NA
1523	BLM process after close of comment period	15 edays	Fri 6/20/14	Sat 7/5/14	NA	NA
1524	DOI review/comment on Draft Work Plan	75 edays	Mon 4/21/14	Sat 7/5/14	NA	NA
1525	DTSC review/comment on Draft Work Plan	75 edays	Mon 4/21/14	Sat 7/5/14	NA	NA
1526	Comments resolution	4 wks	Mon 7/7/14	Fri 8/1/14	NA	NA
1527	Prepare/submit Final Work Plan (duration to be confirmed after receipt of comments)	1 mon	Mon 8/4/14	Mon 9/1/14	NA	NA
1528	DTSC approves Final Work Plan	5 days	Tue 9/2/14	Mon 9/8/14	NA	NA
1529	DOI approves Final Work Plan	5 days	Tue 9/2/14	Mon 9/8/14	NA	NA
1530	**ROWs/Easements/Landowner Agreements/Approvals/Compliance**	**63 days**	**Mon 7/14/14**	**Wed 10/8/14**	**NA**	**NA**
1531	Other Approvals and Compliance	3 mons	Mon 7/14/14	Wed 10/8/14	NA	NA
1532	Landowner Agreements/Leasing/ROW Agreements	3 mons	Mon 7/14/14	Wed 10/8/14	NA	NA
1533	**Community Outreach**	**787 days**	**Fri 10/7/11**	**Fri 10/10/14**	**Fri 10/7/11**	**NA**



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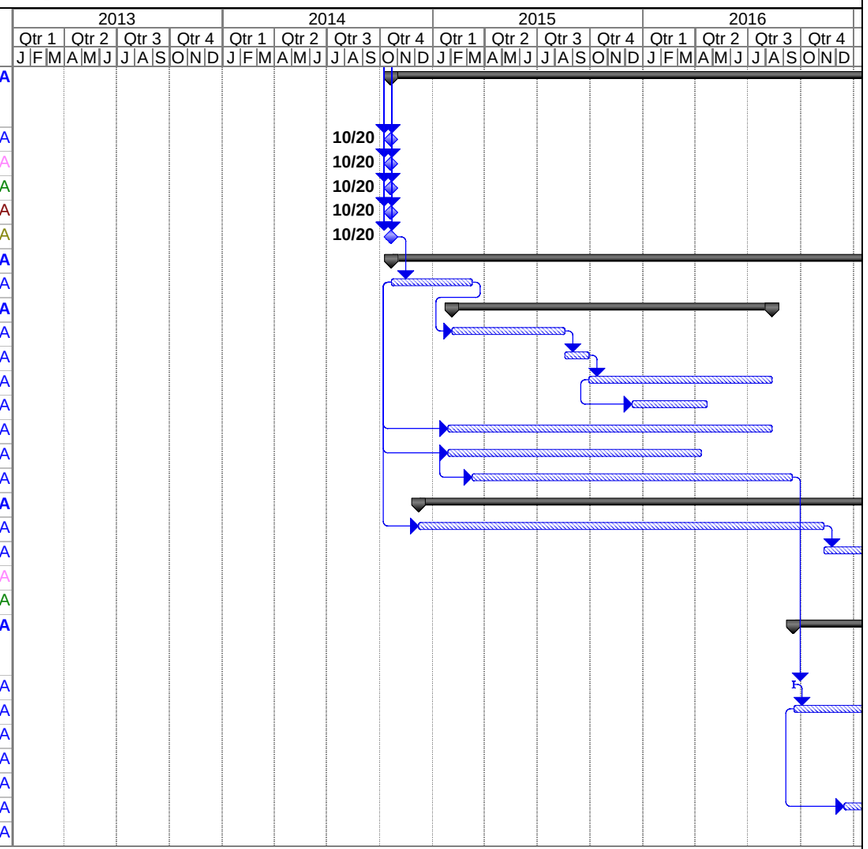
HANDOUT 5A
TOPOCK REMEDIATION PROJECT SCHEDULE
APRIL 17, 2013 CWG MEETING (REV. 18)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish
1547	**Construction (the duration shown below is preliminary and will be adjusted as the design progresses; a detailed construction/remedial action implementation schedule will be included in the Construction/Remedial Action Work Plan)**	**628 days**	**Mon 10/20/14**	**Thu 3/16/17**	**NA**	**NA**
1548	Stakeholder Attending Kick-Off Meeting at Site	0 days	Mon 10/20/14	Mon 10/20/14	NA	NA
1549	Stakeholder Attending Kick-Off Meeting at Site	0 days	Mon 10/20/14	Mon 10/20/14	NA	NA
1550	Stakeholder Attending Kick-Off Meeting at Site	0 days	Mon 10/20/14	Mon 10/20/14	NA	NA
1551	Stakeholder Attending Kick-Off Meeting at Site	0 days	Mon 10/20/14	Mon 10/20/14	NA	NA
1552	Stakeholder Attending Kick-Off Meeting at Site	0 days	Mon 10/20/14	Mon 10/20/14	NA	NA
1553	**Construction Activities**	**627 days**	**Wed 10/22/14**	**Thu 3/16/17**	**NA**	**NA**
1554	Field Preparation (including new well survey)	100 days	Wed 10/22/14	Tue 3/10/15	NA	NA
1555	**Well Installation/Development/Testing**	**398 days**	**Wed 2/4/15**	**Fri 8/12/16**	**NA**	**NA**
1556	Pilot Boring Data Collection	140 days	Wed 2/4/15	Tue 8/18/15	NA	NA
1557	Refine Well Design and Installation Program	30 days	Wed 8/19/15	Tue 9/29/15	NA	NA
1558	Remediation Wells Installation/Development/Testing	228 days	Wed 9/30/15	Fri 8/12/16	NA	NA
1559	Monitoring Wells Installation/Development	94 days	Mon 12/14/15	Thu 4/21/16	NA	NA
1560	Install New Pipeline	403 days	Wed 1/28/15	Fri 8/12/16	NA	NA
1561	Carbon Amendment/Supporting Facilities	314 days	Wed 1/28/15	Mon 4/11/16	NA	NA
1562	Commissioning/Shakedown	398 days	Wed 3/11/15	Fri 9/16/16	NA	NA
1563	**Reporting**	**594 days**	**Mon 12/8/14**	**Thu 3/16/17**	**NA**	**NA**
1564	Prepare/submit monthly construction progress reports	24 mons	Mon 12/8/14	Thu 11/10/16	NA	NA
1565	Prepare/submit Construction Completion Report	60 days	Fri 11/11/16	Thu 2/2/17	NA	NA
1566	DOI review and approval of Construction Completion Report	30 days	Fri 2/3/17	Thu 3/16/17	NA	NA
1567	DTSC review and approval of Construction Completion Report	30 days	Fri 2/3/17	Thu 3/16/17	NA	NA
1568	**Startup (the sequence/duration shown below is preliminary and will be adjusted as the design progresses; a detailed construction/remedial action implementation schedule will be included in the Construction/Remedial Action Work Plan)**	**379 days**	**Mon 9/19/16**	**Thu 3/1/18**	**NA**	**NA**
1569	Shutdown IM extraction/treatment/injection	1 day	Mon 9/19/16	Mon 9/19/16	NA	NA
1570	Inject carbon/build NTH IRZ (6-12mons)	12 mons	Tue 9/20/16	Wed 9/6/17	NA	NA
1571	Inject freshwater(3-6mons)	6 mons	Wed 3/15/17	Wed 9/6/17	NA	NA
1572	Activate Inner recirculation loop (3-6mons)	6 mons	Mon 6/12/17	Mon 12/4/17	NA	NA
1573	Activate TCS recirculation loop (3-6mons)	6 mons	Mon 6/12/17	Mon 12/4/17	NA	NA
1574	Prepare/submit quarterly progress reports	15 mons	Fri 12/16/16	Thu 3/1/18	NA	NA
1575	Startup complete/start full remedy operations	0 days	Mon 12/4/17	Mon 12/4/17	NA	NA



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