

Handout 10B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
April 16, 2014

Schedule Highlights

Groundwater Remedy Design

- Intermediate (60%) Design
 - ✓ Comments resolution meetings with Tribes/Stakeholders
 - ✓ September – 9/5 (web conf.), 9/17-18 (face-to-face)
 - ✓ October – 10/4 (web conf.), 10/16-17 (face-to-face)
 - ✓ November – 11/5 (web conf.), 11/19-20 (face-to-face)
 - ✓ December – 12/12 (web conf.), 12/17-18 (face-to-face)
 - ✓ January – 1/23 (face-to-face)
 - ✓ February – 2/11 (face-to-face)
 - ✓ PG&E sent RTCs to Agencies/Tribes/Stakeholders – 12/31
 - ✓ DTSC/DOI direction on remaining 60% issues - 4/4
 - ✓ PG&E sends Final RTCs – 4/18/14
- Pre-final (90%) Design
 - ✓ PG&E submits design – 9/8/14 (target)

Groundwater Remedy Design

- Implementation of Alternative Fresh Water Source Evaluation
 - ✓ Field Implementation – 10/2/13 through 2/14/14
 - ✓ Data Call #1 to discuss exploratory data – 11/4/13
 - ✓ Data Call #2 to discuss field update – 1/29/14
 - ✓ Data Call #3 to discuss data summary/path forward – 2/28/14
 - ✓ Discuss freshwater pipeline alignment in AZ – 3/19/14 TWG
 - ✓ Summary Tech Memo – 4/2/14
 - ✓ DTSC/DOI provide direction on freshwater source – 4/4/14
 - ✓ Continuation of FWIP – Target completion end of June (schedule will be confirmed after receipt of information re: drill rig availability)

Soil Activities

- Soil RFI/RI work plan
 - ✓ PG&E submitted final work plan – 1/14/13
 - ✓ CEQA review – 11/12/12 to 11/20/14
 - ✓ Agencies approve Soil Work Plan – anticipated 11/21/14
- Work Plan Implementation
 - ✓ Field Implementation/Data Analysis – November 2014 through November 2015
- Reporting
 - ✓ RFI/RI Volume 3 - Target start November 2015
 - ✓ Soil Risk Assessment – Target start October 2016

Addendum to RFI/RI Volume 1

- Addendum to RFI/RI Volume 1 Report
 - ✓ PG&E submitted draft report - 3/26/13
 - ✓ CWG/TWG/Tribes review – 4/9 to 9/9/13
 - ✓ Agencies review – 4/9 to 9/10/13
 - ✓ RTCs/Comment Resolution – 10/16/13 to 4/18/14
 - ✓ RTCs table to Tribes and Stakeholders – 1/13/14
 - ✓ Comment resolution meeting – 3/19/14
 - ✓ Revised RTCs table to Tribes and Stakeholders – 4/2/14
 - ✓ Submit final report – target 4/25/14
 - ✓ Agencies approval – anticipated early May 2014

Risk Assessment Work Plan (RAWP) Addendum II

- Submitted RAWP Addendum II TM: 1/25/13
 - ✓ CWG/TWG/Tribes/Agencies review TMs: 1/30 – 4/30/13
 - ✓ Prepare/submit RTCs: 5/1 – 6/12/13
 - ✓ DTSC send RTCs to Tribes – 6/24/13
 - ✓ Scoping meetings to finalize scope for RAWP Addendum II: 9/19-20
- Submit Draft RAWP Addendum II: Target May 2014
- Submit Final RAWP Addendum II: Target November 2014
 - ✓ Agencies approval – anticipated December 2014

Summary of Key Schedule Changes

Handout 10B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 22)

April 16, 2014 changes highlighted in Yellow – changes are from February 12, 2014

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
Intermediate (60%) Design (through Comment Resolution) (Lines 1451-1478)	<ul style="list-style-type: none"> • FF 3/30/2011 (Rev. 11) • FF 4/9/2011 (Rev. 12) • FF 6/14/2012 (Rev. 13) • FF 8/9/2012 (Rev. 14) • FF 12/11/12 (Rev. 15) • FF 06/28/2013 (Rev. 16) • FF 10/1/2013 (Rev. 17) • FF 12/18/2013 (Rev. 19) • FF 1/10/2014 (Rev. 20) • FF 3/14/2014 (Rev. 21) • AF 4/4/2014 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Additional time to incorporate comments and prepare 60% Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Adjusted schedule to allow for additional time to evaluate freshwater options that do not require arsenic treatment. • Schedule reflected DTSC's directive in the 12/31/2012 letter. • Updated the RTC process per the 10/16/12 meeting. • Extend duration to reflect: a) a request for a 45-day extension for review and comment on the 60% design, b) additional time for meetings to discuss response to comments from 1 day to 1 week, and c) additional step for PG&E to finalize and resubmit RTCs. • Additional time required to resolve comments.
Implementation of Alternative Freshwater Source Evaluation including CEQA Review (Lines 1480-1518)	<ul style="list-style-type: none"> • FF 6/7/2013 (Rev. 17) • FF 8/7/2013 (Rev. 18) • FF 11/12/2013 (Rev. 19) • FF 12/20/2013 (Rev. 20) • FF 2/14/2014 (Rev. 21) • FF 6/30/2014 (Rev. 22) 	<ul style="list-style-type: none"> • Schedule reflected additional time for consultation, response to comments, and finalizing the Implementation Plan. • Extend duration to reflect timing for responding to comments, finalizing the Final Implementation Plan, State CEQA review, and Agencies approval. • Schedule reflected additional time for Tribe's review and comment as well as agencies evaluation of Final Work Plan, RTCs and CEQA compliance. • Extension of field schedule due to time required to repair drilling equipment and work scheduling over end-of-year holidays. • Additional time required for continuation of field work.
Pre-Final (90%)/Final (100%) Design (through Approvals) (Lines 1519-1530)	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) • FF 10/2/2012 (Rev. 12) • FF 11/30/2012 (Rev. 13) • FF 1/29/2013 (Rev. 14) • FF 7/2/2013 (Rev. 15) • FF 1/20/2014 (Rev. 16) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum.

	<ul style="list-style-type: none"> • FF 5/22/2014 (Rev. 17) • FF 9/8/2014 (Rev. 18) • FF 10/7/2014 (Rev. 19) • FF 10/29/2014 (Rev. 20) • FF 12/31/2014 (Rev. 21) • FF 3/26/2015 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Extension of schedule reflected a) the additional time required to complete resolution of 60% comments and b) the added time anticipated for resolution of 90% (from 1 month to 3 months).
<p>Construction/Remedial Action Work Plan (through Approvals)</p> <p>(Lines 1531-1543)</p>	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) • FF 10/2/2012 (Rev. 12) • FF 11/30/2012 (Rev. 13) • FF 1/29/2013 (Rev. 14) • FF 7/2/2013 (Rev. 15) • FF 1/20/2014 (Rev. 16) • FF 5/22/2014 (Rev. 17) • FF 9/8/2014 (Rev. 18) • FF 10/7/2014 (Rev. 19) • FF 10/29/2014 (Rev. 20) • FF 12/31/2014 (Rev. 21) • FF 3/26/2015 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Cascading changes from Pre-Final (90%) Design. • Addition of CEQA review of final design step.
<p>Right of Ways/Easements/Landowner Agreements/Other Approvals/Compliance/Community Outreach</p> <p>(Lines 1544-1560)</p>	<ul style="list-style-type: none"> • FF 12/28/2012 (Rev. 11) • FF 1/7/2013 (Rev. 12) • FF 2/27/2013 (Rev. 13) • FF 4/15/2013 (Rev. 14) • FF 9/13/2013 (Rev. 15) • FF 2/21/2014 (Rev. 16) • FF 6/23/2014 (Rev. 17) • FF 10/10/2014 (Rev. 18) • FF 11/10/2014 (Rev. 19) • FF 12/1/2014 (Rev. 20) • FF 2/2/2015 (Rev. 21) • FF 4/27/2015 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design. • Added details on community outreach activities – State/Federal. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Cascading changes from Pre-Final (90%) Design.
<p>Construction</p> <p>(Lines 1561-1576)</p>	<p>FF for completion of construction</p> <ul style="list-style-type: none"> • 6/18/2014 (Rev. 11) • 6/26/2014 (Rev. 12) • 8/18/2014 (Rev. 13) • 9/29/2014 (Rev. 14) • 2/26/2015 (Rev. 15) • 9/17/2015 (Rev. 16) • 12/4/2015 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design Addendum. • Added high level details on construction activities at 60% design stage. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule.

	<ul style="list-style-type: none"> • 9/16/2016 (Rev. 18) • 10/17/2016 (Rev. 19) • 11/8/2016 (Rev. 20) • 1/10/2017 (Rev. 21) • 4/5/2017 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading changes from Pre-Final (90%) Design.
<p>Start-up (Lines 1582-1587)</p>	<p>FF for completion of startup</p> <ul style="list-style-type: none"> • 12/14/2015 (Rev. 14) • 5/13/2016 (Rev. 15) • 12/2/2016 (Rev. 16) • 2/20/2017 (Rev. 17) • 11/23/2017 (Rev. 18) • 1/2/2018 (Rev. 19) • 1/24/2018 (Rev. 20) • 3/28/2018 (Rev. 21) • 6/21/2018 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading extension of schedule from the above items. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation schedule. • Cascading changes from Pre-Final (90%) Design.
<p>Soil</p>		
<p>RFI/RI Volume 1 Addendum (Lines 287-307)</p>	<ul style="list-style-type: none"> • FF 11/12/13 (Rev. 18) • FF 1/14/14 (Rev. 19) • FF 1/23/14 (Rev. 20) • FF 4/11/14 (Rev. 21) • FF 5/9/14 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading changes to extensions of 60% design comment period. • Additional time for response to comments, review of comments, and comment resolution.
<p>Soil RFI/RI Work Plan (Draft, Final, and Work Plan Approvals including CEQA review) (Lines 824-893)</p>	<ul style="list-style-type: none"> • Extend FF by 1.5 mos. • Extend FF by 2 weeks • Submitted RTCs on 5/5/08 • Submitted letter on Part B phasing on 7/17/08. In agencies review (Rev. 4) • Submitted details on approach to Part B Phase 1 on 9/30/08. In agencies review (Rev. 5). Part B is on hold until agencies complete this review (Rev. 6) • Extend FF to 12/1/2011 (Rev. 7) • Reduce FF to 1/19/2011 (Rev. 8) • Extend FF to 5/25/2011 (Rev. 9) • Extend FF to 7/28/2011 (Rev. 10) • FF 8/31/2011 (Rev. 11) 	<ul style="list-style-type: none"> • 1 month due to DQO discussion and past data evaluation. • 0.5 month due to incorporation of perimeter sampling walk/verification. • Additional time for agency review of Part B Work Plan. • DTSC completed review of Part B Phase 1 proposal (7/2/09), issued request letter to PG&E. • PG&E responded to DTSC's 7/2/09 letter (8/14/09). • PG&E received DTSC's final direction on Part B (10/5/09), to resume Part B activities in February 2010. • Added time for agency review and direct on conflicting comments on Draft Part B Work Plan. • Adjusted schedule to reflect State of CA furlough ending 6/1/2010. • Align the start of Section 106 Consultation with the start of stakeholders/agencies review of Final Part B Work Plan. • Added time for preparation/submittal/concurrence with Draft DQO TM. • Added time for preparation/submittal of Draft DQO TM. • Adjusted time for revision of Draft Part B DQO TM, combination of Part A

	<ul style="list-style-type: none"> • FF 12/6/2011 (Rev. 12) • FF 3/1/2012 (Rev. 13) • FF 5/11/2012 (Rev. 14) • FF 9/6/2012 (Rev. 15) • FF 10/31/2012 (Rev. 16) • FF 9/13/2013 (Rev. 17) • FF 1/24/14 (Rev. 18) • FF 8/22/2014 (Rev.20) • FF 11/21/2014 (Rev. 22) 	<p>and Part B into one Work Plan, and reflection of PA consultation (55 calendar days).</p> <ul style="list-style-type: none"> • Adjusted schedule to reflect additional time for Tribal consultation (total of 55 calendar days), followed by SHPO consultation (assume 30 calendar days). • Adjusted schedule to reflect the comment resolution period, including time for site visits requested by DTSC and the Tribes. • Schedule extension reflected additional time for comment resolution. • Schedule extension also reflected additional time for revising work plan to incorporate responses to comments. • Additional two weeks for CWG/TWG/Tribes to review responses to comments. • TWG meeting to discuss responses to comments. • Added approx. 4 weeks for comment resolution. • The current anticipated approval date for the Final Soil RFI/RI Work Plan is an estimate and is pending CEQA review. • Adjusted schedule to reflect additional time required to respond to DTSC's comments on the September 2012 Work Plan and to revise the Work Plan. • Adjusted schedule to include the Soil EIR and to reflect the new agency approval date for the Soil Work Plan. • Additional time required for Tribal discussion on mitigation measures (Soil EIR). • Additional time required for survey and reporting of historical/ archaeological sites in the Soil EIR Project Area. Additional time to incorporate the survey information into the Soil EIR. • Schedule reflected additional time for Soil EIR/Work Plan approval (e.g., data gaps evaluation, Tribal inputs on land use and key view, view shed visual analysis). • Additional time required for CEQA review.
<p>Work Plan Implementation/ Data Analysis (Lines 894 - 902)</p>	<ul style="list-style-type: none"> • FF 8/16/2013 (Rev. 15) • FF 10/24/2013 (Rev. 16) • FF 9/8/2014 (Rev. 17) • FF 1/19/2015 (Rev. 18) • FF 8/17/2015 (Rev.20) • FF 11/16/2015 (Rev. 22) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan. • Cascading changes from Soil Work Plan approval and Soil EIR.
<p>RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals)</p>	<ul style="list-style-type: none"> • FF 7/8/2014 (Rev. 15) • FF 10/1/2014 (Rev. 16) • FF 8/18/2015 (Rev. 17) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan. • Cascading changes from Soil Work Plan approval and Soil EIR.

(Lines 903 - 918)	<ul style="list-style-type: none"> • FF 12/29/2015 (Rev. 18) • FF 7/26/2016 (Rev.20) • FF 10/25/2016 (Rev. 22) 	
Risk Assessment Work Plan Addendum II (through Approvals) (Lines 1130-1154)	<ul style="list-style-type: none"> • FF 1/24/2014 (Rev. 16) • FF 3/12/2014 (Rev. 17) • FF 5/11/2014 (Rev. 18) • FF 12/7/2014 (Rev. 20) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect the additional time required for review/comment on the proposed changes to the RAWP and the Arrowweed tech memo. • Cascading changes from Soil Work Plan approval and Soil EIR.
Risk Assessment (through Approvals) (Lines 1172 - 1187)	<ul style="list-style-type: none"> • FF 7/22/2015 (Rev. 16) • FF 6/7/2016 (Rev. 17) • FF 10/18/2016 (Rev. 18) • FF 5/16/2017 (Rev. 20) • FF 8/15/2017 (Rev. 22) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated schedule for approval of Final Soil RFI/RI Work Plan, completion of Work Plan Implementation/Data Analysis, approval of RFI/RI Vol. 3 Reporting, and approval of the Risk Assessment Work Plan Addendum II. • Cascading changes from Soil Work Plan approval and Soil EIR.
CMS/FS Report (through Approvals) (Lines 1249 - 1265)	<p>FF for approval of CMS/FS</p> <ul style="list-style-type: none"> • 2/21/12 (Rev. 2) • 7/3/2012 (Rev. 3) • 8/21/2012 (Rev. 5) • 2/15/2013 (Rev. 6) • 12/4/2013 (Rev. 7) • 5/16/2014 (Rev. 8) • 5/14/2014 (Rev. 9) • 5/23/2014 (Rev. 10) • 5/21/2014 (Rev. 11) • 8/27/2014 (Rev. 12) • 11/19/2014 (Rev. 13) • 1/29/2015 (Rev. 14) • 5/27/2015 (Rev. 15) • 6/9/2016 (Rev. 16) • 4/26/2017 (Rev. 17) • 9/6/2017 (Rev. 18) • 4/4/2018 (Rev. 20) • 6/30/2018 (Rev. 22) 	<ul style="list-style-type: none"> • Approx. 2 months due to cascading delay from Part A Phase 1 workplan/approval/permitting. • 1 month from adding a link between tribal review of CMS/FS and PG&E response to comments. • Cascading delay from Part A approval. • Cascading delay from Part A Phase 1 data gaps evaluation. • Revise the Soil CMS/FS steps to mirror the Groundwater CMS/FS steps <ul style="list-style-type: none"> • E.g., discussion draft, draft, resolution to comments, final. • Use the duration of the Groundwater CMS/FS steps as placeholders. • Keep the sequential order of RFI/RI and Risk before CMS/FS. • Reflect revised Part A and B schedule. • Added time for "Prepare Response to Comments" before CMS/FS comments resolution. • Added a hard link between the completion of the risk assessment and the start of the CMS/FS. • Adjusted schedule to reflect current anticipated schedule for approval of Final Soil RFI/RI Work Plan, completion of Work Plan Implementation/Data Analysis, approval of RFI/RI Vol. 3 Reporting, and approval of the Risk Assessment Work Plan Addendum II. • Cascading changes from Soil Work Plan approval and Soil EIR.
Statement of Basis (Lines 1274 - 1280) Public Notice/Supplemental EIR (Lines 1410 - 1422)	<p>Extend NOD filing to:</p> <ul style="list-style-type: none"> • FF 12/7/2012 (Rev. 3) • FF 1/25/2013 (Rev. 5) • FF 7/22/2013 (Rev. 6) • FF 5/8/2014 (Rev. 7) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil • Addition of links from a) Supplemental EIR public comment to Statement of Basis public comment and b) Supplemental EIR certification to DTSC approval of Soil Remedy. • Cascading delay from CMS/FS Soil.

	<ul style="list-style-type: none"> • FF 11/20/2014 (Rev. 8) • FF 11/16/2014 (Rev. 9) • FF 10/27/2014 (Rev. 10) • FF 10/2/2014 (Rev. 11) • FF 1/8/2015 (Rev. 12) • FF 4/2/2015 (Rev. 13) • FF 7/13/2015 (Rev. 14) • FF 11/8/2015 (Rev. 15) • FF 10/21/2016 (Rev. 16) • FF 9/26/2017 (Rev. 17) • FF 2/6/2018 (Rev. 18) • FF 8/16/2018 (Rev. 20) • FF 11/16/2018 (Rev. 22) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated schedule for approval of Final Soil RFI/RI Work Plan, completion of Work Plan Implementation/Data Analysis, approval of RFI/RI Vol. 3 Reporting, and approval of the Risk Assessment Work Plan Addendum II. • Cascading changes from Soil Work Plan approval and Soil EIR.
<p>Proposed Plan/ROD (Lines 1293 – 1303)</p>	<p>Extend ROD issuance to:</p> <ul style="list-style-type: none"> • FF 9/6/2012 (Rev. 3) • FF 1/17/ 2013 (Rev. 4) • FF 3/7/2013 (Rev. 5) • FF 11/20/2013 (Rev. 6) • FF 9/8/2014 (Rev. 7) • FF 2/18/2015 (Rev. 8) • FF 2/16/2015 (Rev. 9) • FF 2/25/2015 (Rev. 10) • FF 2/23/2015 (Rev. 11) • FF 6/1/2015 (Rev. 12) • FF 8/24/2015 (Rev. 13) • FF 11/3/2015 (Rev. 14) • FF 2/29/2016 (Rev. 15) • FF 3/14/2017 (Rev. 16) • FF 1/29/2018 (Rev. 17) • FF 6/11/2018 (Rev. 18) • FF 1/7/2019 (Rev. 20) • FF 4/4/2019 (Rev. 22) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil. • Increased the duration of DOI Approval Process for ROD from 60 to 90edays. • Added a hard link (similar to the Groundwater ROD) between approval of the CMS/FS and the start of the Proposed Plan. • Adjusted schedule to reflect current anticipated schedule for approval of Final Soil RFI/RI Work Plan, completion of Work Plan Implementation/Data Analysis, approval of RFI/RI Vol. 3 Reporting, and approval of the Risk Assessment Work Plan Addendum II. • Cascading changes from Soil Work Plan approval and Soil EIR.