

Handout 8B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
October 16, 2013

Schedule Highlights

Groundwater Remedy Design

- Met with the Water Boards on April 25, 2013 on the need for treatment of HNWR-1 water – awaiting decision from State Board
- Intermediate (60%) Design
 - ✓ PG&E submitted intermediate design – 4/5/13
 - ✓ Site visit to facilitate review – 4/18/13
 - ✓ Stakeholders review – 4/9 to 8/8/13
 - ✓ Tribal consultation - 4/25 to 8/8/13
 - ✓ Agencies provide comments/direction to PG&E – 8/23/13
 - ✓ Comments resolution – 8/23 through 12/19/13

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 – 12/4? (web conf.)
 - ✓ PG&E sends Final RTCs to Agencies/Tribes/Stakeholders – 12/11
 - ✓ Agencies/Tribes/Stakeholders review Final RTCs – 12/11 to 12/18
 - ✓ Comment resolution complete – 12/19/13 (target)
- Pre-final (90%) Design
 - ✓ PG&E submits design – 6/2/14

Groundwater Remedy Design

- **Alternative Fresh Water Source Implementation Plan**
 - ✓ PG&E submitted Implementation Plan – 11/20/12
 - ✓ Tribal Consultation – 11/21/12 to 1/9/13
 - ✓ CWG/TWG review/comment – 11/21 to 12/17/12
 - ✓ DTSC review/comment – 11/21 to 12/21/12
 - ✓ DOI review/comment – 11/21/12 to 1/9/13
 - ✓ **Response to Comments (RTCs)/Comment Resolution**
 - Agencies/PG&E resolve comments – 1/3 to 1/11/13
 - Submitted Revised Implementation Plan including RTCs – 1/28/13
 - Consultation meeting with Tribes – 3/13/13
 - DOI issued direction to PG&E – 3/26/13
 - Prepare/submit RTCs – 3/27 to 5/2/13
 - Meeting to discuss RTCs – 5/14/13, 5/21/13
 - Completion of Comment Resolution – 5/31/13
 - Submit Final Implementation Plan with RTCs – 7/19/13 (redline), 8/2/13 (clean)
 - ✓ **CEQA Review** – 11/16/12 to 9/4/13
 - ✓ **DTSC/DOI approved Implementation Plan** – 9/4/13

Groundwater Remedy Design

- **Implementation of Alternative Fresh Water Source Evaluation**
 - ✓ Field Implementation – 10/2/13 through 12/20/13 est.
 - ✓ Data Call #1 to discuss exploratory data – 11/4/13
 - ✓ Data Call #2 to discuss data summary/path forward – 1/7/14
 - ✓ Summary Tech Memo – 3/10/14
 - ✓ DTSC/DOI provide direction on freshwater source – 3/24/14

Soil Activities

- Soil RFI/RI work plan
 - ✓ PG&E submitted final work plan – 1/14/13
 - ✓ CEQA review – 11/12/12 to 8/22/14
 - ✓ Agencies approve Soil Work Plan – anticipated 8/22/14
- Work Plan Implementation
 - ✓ Field Implementation/Data Analysis – August 2014 through August 2015
- Reporting
 - ✓ RFI/RI Volume 3 - Target start August 2015
 - ✓ Soil Risk Assessment – Target start July 2016

Soil Activities

- 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 9/9/13
 - ✓ RTCs/Comment Resolution – 9/9 to 12/12/13
 - ✓ Submit final report – target January 2014
 - ✓ Agencies approval – anticipated January 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 8B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 20)

October 16, 2013 changes highlighted in Yellow – changes are from July 17, 2013

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
Intermediate (60%) Design (through Comment Resolution) (Lines 1457-1470)	<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 12/19/2013 (Rev. 20) 	<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.
Implementation of Alternative Freshwater Source Evaluation including CEQA Review (Lines 1472-1502)	<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) 	<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.
Pre-Final (90%)/Final (100%) Design (through Approvals) (Lines 1508-1519)	<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 10/23/2014 (Rev. 20) 	<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 schedule.

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Construction/Remedial Action Work Plan (through Approvals) (Lines 1520-1531)	<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 10/23/2014 (Rev. 20) 	<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 schedule.
Right of Ways/Easements/Landowner Agreements/Other Approvals/Compliance/Community Outreach (Lines 1532-1548)	<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 11/24/2014 (Rev. 20) 	<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 schedule.
Construction (Lines 1550-1564)	FF for completion of construction <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) 9/16/2016 (Rev. 18) 10/17/2016 (Rev. 19) 11/2/2016 (Rev. 20) 	<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 schedule.
Start-up (Lines 1550-1556)	FF for completion of startup <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) 	<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.

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	<ul style="list-style-type: none"> 1/18/2018 (Rev. 20) 	
Soil		
RFI/RI Volume 1 Addendum (Lines 287-307)	<ul style="list-style-type: none"> FF 11/12/13 (Rev. 18) FF 1/14/14 (Rev. 19) FF 1/23/14 (Rev. 20) 	<ul style="list-style-type: none"> Cascading changes to extensions of 60% design comment period.
Soil RFI/RI Work Plan (Draft, Final, and Work Plan Approvals including CEQA review) (Lines 824-884)	<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) 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) 	<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 and Part B into one Work Plan, and reflection of PA consultation (55 calendar days). 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.

3

		<ul style="list-style-type: none"> 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).
Work Plan Implementation/Data Analysis (Lines 892 - 899)	<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) 	<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.
RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals) (Lines 900 - 916)	<ul style="list-style-type: none"> FF 7/8/2014 (Rev. 15) FF 10/1/2014 (Rev. 16) FF 8/18/2015 (Rev. 17) FF 12/29/2015 (Rev. 18) FF 7/26/2016 (Rev. 20) 	<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.
Risk Assessment Work Plan Addendum II (through Approvals) (Lines 1128-1151)	<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 1169 - 1184)	<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) 	<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 1245 - 1262)	<ul style="list-style-type: none"> FF for approval of CMS/FS 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) 	<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.

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	<ul style="list-style-type: none"> • 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) 	<ul style="list-style-type: none"> • 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 1271 – 1277) Public Notice/Supplemental EIR (Lines 14077 – 1417)	Extend NOD filing to: <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) • 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) 	<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. • 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.
Proposed Plan/ROD (Lines 1290 – 1300)	Extend ROD issuance to: <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) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil. • Increased the duration of DOI Approval Process for ROD from 60 to 90days. • 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

	<ul style="list-style-type: none"> • 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) 	<ul style="list-style-type: none"> • 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.
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