

Handout 5B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
April 17, 2013

Schedule Highlights

Groundwater Remedy Design

- Continue to discuss with the Water Boards on the use of HNWR-1 water without arsenic treatment
- Intermediate (60%) Design
 - ✓ PG&E submitted intermediate design – 4/5/13
 - ✓ Site visit to facilitate review – 4/18/13
 - ✓ Stakeholders review – 4/9 to ~~6/11/13~~ 6/18/13
 - ✓ Tribal consultation - 4/12 to ~~6/11/13~~ 6/18/13
 - ✓ Agencies provide comments/direction to PG&E – ~~6/26/13~~ 7/3/13
 - ✓ Comments resolution – ~~6/12~~ through ~~10/2/13~~
6/19/13 10/8/13

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 4/24/13
 - Meeting to discuss RTCs – 4/25 to 5/3/13
 - Completion of Comment Resolution – anticipated 5/3/13
 - Submit Final Implementation Plan – 5/17/13
 - ✓ **CEQA Review** – 11/16/12 to 5/17/13
 - ✓ **DTSC/DOI approve Implementation Plan** – anticipated 5/20/13

Groundwater Remedy Design

- Implementation of Alternative Fresh Water Source Evaluation
 - ✓ Field Implementation – 5/21 through 8/7/13
- Addendum to Intermediate (60%) Design
 - ✓ PG&E submits addendum to the intermediate design – 9/23/13
 - ✓ Stakeholders review – 9/26 to 10/26/13
 - ✓ Tribal consultation - 9/26 to 10/26/13
 - ✓ Agencies provide comments/direction to PG&E – 11/10/13
 - ✓ Comments resolution – 10/28 through 1/15/14

Soil Activities

- Soil RFI/RI work plan
 - ✓ PG&E submitted final work plan – 1/14/13
 - ✓ CEQA review – 11/12/12 to 1/24/14
 - ✓ Agencies approve Soil Work Plan – anticipated 1/24/14
- Work Plan Implementation
 - ✓ Field Implementation/Data Analysis – Jan 2014 through Jan 2015
- Reporting
 - ✓ RFI/RI Volume 3 - Target start Jan 2015
 - ✓ Soil Risk Assessment – Target start December 2015

Soil Activities

- Addendum to RFI/RI Volume 1 Report
 - ✓ PG&E submitted draft report - 3/26/13
 - ✓ CWG/TWG/Tribes review – 4/9 to 7/5/14
 - ✓ Agencies review – 4/9 to 7/20/14
 - ✓ RTCs/Comment Resolution – 7/8 to 10/1/14
 - ✓ Submit final report – target October 2014
 - ✓ Agencies approval – anticipated November 2014

Risk Assessment Work Plan (RAWP) Addendum II

- Submit RAWP Addendum II TM: 1/25/13
 - ✓ CWG/TWG/Tribes/Agencies review TMs: 1/30 – 4/30/13
 - ✓ Meetings to finalize scope for RAWP Addendum II: 5/2 – 6/13/13
- Submit Draft RAWP Addendum II: 10/29/13
 - ✓ CWG/TWG/Tribes review: 10/29 – 11/28/13
 - ✓ Agencies review: 10/29 – 12/13/13
- Submit Response to Comments (RTCs): 1/13/14
 - ✓ CWG/TWG/Tribes review: 1/13 – 2/12/14
 - ✓ Agencies review: 1/13 – 2/27/14
 - ✓ Meeting to discuss RTCs – 1/27/14 (approx. 2 weeks after receipt of RTCs submittal)
- Submit Final RAWP Addendum II: 4/11/14
 - ✓ Agencies approval – anticipated 5/11/14

Summary of Key Schedule Changes

Handout 5B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 18)

April 17, 2013 changes highlighted in Yellow – changes are from January 16, 2013

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
Intermediate (60%) Design (through Comment Resolution) (Lines 1438-1451)	<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) 	<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.
Implementation of Alternative Freshwater Source Evaluation including CEQA Review (Lines 1453-1491)	<ul style="list-style-type: none"> • FF 6/7/2013 (Rev. 17) • FF 8/7/2013 (Rev. 18) 	<ul style="list-style-type: none"> • Schedule reflected additional time for consultation, response to comments, and finalizing the Implementation Plan.
Addendum to Intermediate (60%) Design (through Comment Resolution) (Lines 1492-1505)	<ul style="list-style-type: none"> • FF 10/29/2013 (Rev. 17) • FF 1/8/2014 (Rev. 18) 	<ul style="list-style-type: none"> • Schedule reflected DTSC's directive in the 12/31/2012 letter • Schedule reflected implementation of the Alternative Freshwater Source Evaluation Plan, including the Groundwater EIR Addendum. • Schedule reflected additional time required for comment resolution, consultation, including RTCs and finalize the Implementation Plan.
Pre-Final (90%)/Final (100%) Design (through Approvals) (Lines 1506-1517)	<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 8/28/2014 (Rev. 18) 	<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 extension of schedule from Intermediate (60%) Design Addendum.
Construction/Remedial	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design.

<p>Action Work Plan (through Approvals) (Lines 1518-1529)</p>	<ul style="list-style-type: none"> • 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 8/28/2014 (Rev. 18) 	<ul style="list-style-type: none"> • 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 extension of schedule from Intermediate (60%) Design Addendum.
<p>Right of Ways/Easements/ Landowner Agreements/ Other Approvals/ Compliance/Community Outreach (Lines 1530-1532)</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 9/29/2014 (Rev. 18) 	<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 extension of schedule from Intermediate (60%) Design Addendum.
<p>Construction (Lines 1547-1562)</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) • 9/7/2016 (Rev. 18) 	<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.
<p>Start-up (Lines 1568-1575)</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) 	<ul style="list-style-type: none"> • Cascading extension of schedule from the above items.
<p>Soil</p>		
<p>RFI/RI Volume 1 Addendum (Lines 287-308)</p>	<ul style="list-style-type: none"> • FF 11/12/13 (Rev. 18) 	
<p>Soil RFI/RI Work Plan (Draft, Final, and Work Plan Approvals including CEQA)</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 	<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

<p>review) (Lines 824-884)</p>	<p>phasing on 7/17/08. In agencies review (Rev. 4)</p> <ul style="list-style-type: none"> • 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) 	<p>request letter to PG&E.</p> <ul style="list-style-type: none"> • 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. • 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.
<p>Work Plan Implementation/</p>	<ul style="list-style-type: none"> • FF 8/16/2013 (Rev. 15) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.

Data Analysis (Lines 885 - 893)	<ul style="list-style-type: none"> • FF 10/24/2013 (Rev. 16) • FF 9/8/2014 (Rev. 17) • FF 1/19/2015 (Rev. 18) 	
RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals) (Lines 894 - 909)	<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) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.
Risk Assessment Work Plan Addendum II (through Approvals) (Lines 1121-1141)	<ul style="list-style-type: none"> • FF 1/24/2014 (Rev. 16) • FF 3/12/2014 (Rev. 17) • FF 5/11/2014 (Rev. 18) 	<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.
Risk Assessment (through Approvals) (Lines 1159 - 1174)	<ul style="list-style-type: none"> • FF 7/22/2015 (Rev. 16) • FF 6/7/2016 (Rev. 17) • FF 10/18/2016 (Rev. 18) 	<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.
CMS/FS Report (through Approvals) (Lines 1235 - 1252)	<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) 	<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.
Statement of Basis (Lines	<p>Extend NOD filing to:</p> <ul style="list-style-type: none"> • FF 12/7/2012 (Rev. 3) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil • Addition of links from a) Supplemental EIR public comment to Statement

<p>1261 - 1267)</p> <p>Public Notice/Supplemental EIR (Lines 1397 - 1409)</p>	<ul style="list-style-type: none"> • 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) 	<p>of Basis public comment and b) Supplemental EIR certification to DTSC approval of Soil Remedy.</p> <ul style="list-style-type: none"> • 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.
<p>Proposed Plan/ROD</p> <p>(Lines 1280 - 1290)</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) 	<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.