

**Handout 10B**  
**Schedule Highlights**  
**Summary of Key Schedule Changes**

Consultative Work Group Meeting  
April 20, 2016

# Schedule Highlights

# Groundwater Remedy Design

- Final Design Submittal
  - ✓ PG&E produce final design/submit to Agencies – 11/18/15
- State CEQA Evaluation/Preparation of Groundwater Subsequent EIR (SEIR)
  - ✓ Draft SEIR for public review – 9/19/16
  - ✓ 45-day Public Comment – 9/19/16 through 11/5/16
    - ✓ Public Meetings – anticipated 10/11-10/17/16
  - ✓ Final SEIR/RTCs/Findings/MMRP – 11/7/16 thru 3/6/17
  - ✓ Certification of SEIR – anticipated 3/6/17
- Agencies Review/Approve Design and C/RAWP
  - ✓ Agencies Approval – anticipated 3/6/17

# Soil Investigation and Reporting Activities

- Work Plan Implementation
  - ✓ Held Project Initiation Meeting – 10/29/15
  - ✓ Completed Field Implementation – 11/3/15 – 3/24/16
    - ✓ In accordance with scope defined in the Soil RFI/RI Work Plan, Data Gaps Work Plan 1, and Data Gaps Work Plan 2.
  - ✓ Ongoing Data Gaps Analysis – 12/21/15 – 6/1/16 (anticipated)
    - ✓ **Data Gaps Work Plan 1** – submitted on 1/13/16; received comments from FMIT, Hualapai Indian Tribe, and Cocopah Indian Tribe. Agencies reviewed the work plan and considered Tribal comments as well as prelim results from the 1/29/16 pre-investigation historical resources field verification survey. Agencies conditionally approved Data Gaps Work Plan #1 on February 2, 2016.
    - ✓ **Data Gaps Work Plan 2** -- submitted on February 12, 2016; received comments from FMIT and Cocopah Indian Tribe. Agencies reviewed the work plan and considered Tribal comments. Agencies conditionally approved Data Gaps Work Plan #2 on March 1, 2016.
    - ✓ Additional data gaps might be identified and require additional field work. Additional plans to address data gaps are anticipated in the coming months.
    - ✓ Determination that additional data collection is not required – anticipated 6/1/16.

# Soil Investigation and Reporting Activities

- RFI/RI Volume 3 Reporting
  - ✓ Draft Report - Target submittal Early May 2017
    - ✓ Tribes and Stakeholder Review: Early May-Early June 2017
    - ✓ Agencies Review: Early May-Late June 2017
  - ✓ Response To Comments
    - ✓ Hold Comments Clarification Meeting (if requested)
    - ✓ RTC Table – target submittal Late July 2017
    - ✓ Hold Follow-up RTC Meeting – approx. 3 weeks after submittal of RTC Table
  - ✓ Final Report – Target submittal Mid October 2017
    - ✓ Agencies Approval – anticipated Mid November 2017

# Soil Risk Assessment Activities

- Risk Assessment Report
  - ✓ Exposure Point Concentrations Calculation – Target Mid June through Mid September 2016
    - ✓ Meeting to discuss EPCs – target end of August
  - ✓ Draft Report - Target submittal Early November 2016
    - ✓ Tribes and Stakeholder Review: Mid Nov – Mid Dec 2016
    - ✓ Agencies Review: Mid Nov – End of Dec 2016
  - ✓ Response To Comments
    - ✓ Hold Comments Clarification Meeting (if requested)
    - ✓ RTC Table – target submittal End of January 2017
    - ✓ Hold Follow-up RTC Meeting – approx. 3 weeks after submittal of RTC Table
  - ✓ Final Report – Target submittal Early May 2017
    - ✓ Agencies Approval – anticipated Early June 2017

# Summary of Key Schedule Changes

## Handout 10B

### Summary of Key Schedule Changes since August 15, 2007 (Rev. 30)

April 20, 2016 changes highlighted in Yellow – changes are from January 20, 2016

Activities	Forecast Schedule Deviation	Key Reasons
<b>Soil</b>		
Work Plan Implementation/ Data Gaps Analysis  (Lines 922-950)	<ul style="list-style-type: none"> <li>• FF 8/16/2013 (Rev. 15)</li> <li>• FF 10/24/2013 (Rev. 16)</li> <li>• FF 9/8/2014 (Rev. 17)</li> <li>• FF 1/19/2015 (Rev. 18)</li> <li>• FF 8/17/2015 (Rev.20)</li> <li>• FF 11/16/2015 (Rev. 22)</li> <li>• FF 11/13/2015 (Rev. 23)</li> <li>• FF 2/29/2016 (Rev. 24)</li> <li>• FF 3/17/2016 (Rev. 25)</li> <li>• FF 7/19/2016 (Rev. 26)</li> <li>• FF 8/15/2016 (Rev. 27)</li> <li>• FF 4/13/2016 (Rev. 28 and 29)</li> <li>• <b>FF 6/1/2016 (Rev.30)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.</li> <li>• Cascading changes from Soil Work Plan approval and Soil EIR.</li> <li>• Cascading changes from Soil Work Plan approval.</li> <li>• Changes reflected contractor’s best estimate of field implemental schedule.</li> <li>• Addition of Data Gap Work Plans 1 and 2. The additional activities identified in the plans were implemented following agencies’ approval.</li> <li>• <b>Adjusted schedule to reflect the additional time required for data evaluation and determination that additional data collection is not required.</b></li> </ul>
Soil Risk Assessment (Draft, RTCs, Final, Approvals)  (Lines 953 - 969)	<ul style="list-style-type: none"> <li>• FF 7/22/2015 (Rev. 16)</li> <li>• FF 6/7/2016 (Rev. 17)</li> <li>• FF 10/18/2016 (Rev. 18)</li> <li>• FF 5/16/2017 (Rev. 20)</li> <li>• FF 8/15/2017 (Rev. 22)</li> <li>• FF 8/14/2017 (Rev. 23)</li> <li>• FF 11/28/17 (Rev. 24)</li> <li>• FF 12/13/17 (Rev. 25)</li> <li>• FF 4/17/2018 (Rev. 26)</li> <li>• FF 5/15/2018 (Rev. 27)</li> <li>• FF 5/22/2017 (Rev. 28 and 29)</li> <li>• <b>FF 6/5/2017 (Rev. 30)</b></li> </ul>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Cascading changes from Soil Work Plan approval and implementation.</li> <li>• Accelerate Soil Risk Assessment Activities to overlap with Soil Investigation Activities.</li> <li>• <b>Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.</b></li> <li>• <b>Adjusted schedule to reflect the preparation of a Data Summary for EPCs Calculation, and a RTC process in accordance with the October 29, 2012 letter from DTSC to Tribes, titled Response to Comments Process - PG&amp;E Topock Compressor Station, Needles, California</b></li> </ul>
RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals)	<ul style="list-style-type: none"> <li>• FF 7/8/2014 (Rev. 15)</li> <li>• FF 10/1/2014 (Rev. 16)</li> <li>• FF 8/18/2015 (Rev. 17)</li> <li>• FF 12/29/2015 (Rev. 18)</li> </ul>	<ul style="list-style-type: none"> <li>• Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.</li> <li>• Cascading changes from Soil Work Plan approval and Soil EIR.</li> <li>• Cascading changes from Soil Work Plan approval and implementation.</li> </ul>



(Lines 970 - 984)	<ul style="list-style-type: none"> <li>• FF 7/26/2016 (Rev.20)</li> <li>• FF 10/25/2016 (Rev. 22)</li> <li>• FF 10/24/2016 (Rev. 23)</li> <li>• FF 2/7/2017 (Rev. 24)</li> <li>• FF 2/22/2017 (Rev. 25)</li> <li>• FF 6/27/2017 (Rev. 26)</li> <li>• FF 7/25/2017 (Rev. 27)</li> <li>• FF 2/16/2017 (Rev. 28 and 29)</li> <li>• <b>FF 11/15/2017 (Rev. 30)</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.</b></li> <li>• <b>Adjusted schedule to incorporate results from the soil risk assessment into the RFI/RI Vol. 3 Report, and to reflect a RTC process in accordance with the October 29, 2012 letter from DTSC to Tribes, titled Response to Comments Process - PG&amp;E Topock Compressor Station, Needles, California</b></li> </ul>
<p>CMS/FS Report (through Approvals)</p> <p>(Lines 1297 - 1314)</p>	<p>FF for approval of CMS/FS</p> <ul style="list-style-type: none"> <li>• 2/21/12 (Rev. 2)</li> <li>• 7/3/2012 (Rev. 3)</li> <li>• 8/21/2012 (Rev. 5)</li> <li>• 2/15/2013 (Rev. 6)</li> <li>• 12/4/2013 (Rev. 7)</li> <li>• 5/16/2014 (Rev. 8)</li> <li>• 5/14/2014 (Rev. 9)</li> <li>• 5/23/2014 (Rev. 10)</li> <li>• 5/21/2014 (Rev. 11)</li> <li>• 8/27/2014 (Rev. 12)</li> <li>• 11/19/2014 (Rev. 13)</li> <li>• 1/29/2015 (Rev. 14)</li> <li>• 5/27/2015 (Rev. 15)</li> <li>• 6/9/2016 (Rev. 16)</li> <li>• 4/26/2017 (Rev. 17)</li> <li>• 9/6/2017 (Rev. 18)</li> <li>• 4/4/2018 (Rev. 20)</li> <li>• 6/30/2018 (Rev. 22)</li> <li>• 6/29/2018 (Rev. 23)</li> <li>• 10/17/2018 (Rev. 24)</li> <li>• 11/1/2018 (Rev. 25)</li> <li>• 3/6/2019 (Rev. 26)</li> <li>• 4/3/2019 (Rev. 27)</li> <li>• 4/6/2018 (Rev. 28 and 29)</li> <li>• <b>10/4/2018 (Rev. 30)</b></li> </ul>	<ul style="list-style-type: none"> <li>• Approx. 2 months due to cascading delay from Part A Phase 1 workplan/ approval/permitting.</li> <li>• 1 month from adding a link between tribal review of CMS/FS and PG&amp;E response to comments.</li> <li>• Cascading delay from Part A approval.</li> <li>• Cascading delay from Part A Phase 1 data gaps evaluation.</li> <li>• Revise the Soil CMS/FS steps to mirror the Groundwater CMS/FS steps</li> <li>• E.g., discussion draft, draft, resolution to comments, final.</li> <li>• Use the duration of the Groundwater CMS/FS steps as placeholders.</li> <li>• Keep the sequential order of RFI/RI and Risk before CMS/FS.</li> <li>• Reflect revised Part A and B schedule.</li> <li>• Added time for “Prepare Response to Comments” before CMS/FS comments resolution.</li> <li>• Added a hard link between the completion of the risk assessment and the start of the CMS/FS.</li> <li>• 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.</li> <li>• Cascading changes from Soil Risk Assessment Activities.</li> <li>• <b>Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.</b></li> </ul>
<b>Groundwater</b>		

<p>Pre-Final (90%)/Final Design and Construction/Remedial Action Work Plan (through CEQA Review and Approvals) (Lines 1555 - 1657)</p>	<ul style="list-style-type: none"> <li>• FF 9/24/2012 (Rev. 11)</li> <li>• FF 10/2/2012 (Rev. 12)</li> <li>• FF 11/30/2012 (Rev. 13)</li> <li>• FF 1/29/2013 (Rev. 14)</li> <li>• FF 7/2/2013 (Rev. 15)</li> <li>• FF 1/20/2014 (Rev. 16)</li> <li>• FF 5/22/2014 (Rev. 17)</li> <li>• FF 9/8/2014 (Rev. 18)</li> <li>• FF 10/7/2014 (Rev. 19)</li> <li>• FF 10/29/2014 (Rev. 20)</li> <li>• FF 12/31/2014 (Rev. 21)</li> <li>• FF 3/26/2015 (Rev. 22)</li> <li>• FF 4/3/2015 (Rev. 23)</li> <li>• FF 6/30/2015 (Rev. 24)</li> <li>• FF 8/4/2015 (Rev. 25)</li> <li>• FF 10/22/2015 (Rev. 26)</li> <li>• FF 12/26/2016 (Rev. 27)</li> <li>• FF 2/6/2017 (Rev. 28)</li> <li>• FF 3/6/2017 (Rev. 29 and 30)</li> </ul>	<ul style="list-style-type: none"> <li>• Cascading extension of schedule from Preliminary (30%) Design.</li> <li>• Extend duration for CWG/TWG review from 30 to 60 calendar days.</li> <li>• Extend duration for Tribal Consultation from 30 to 60 calendar days.</li> <li>• Extend duration of DTSC/DOI review from 45 to 75 calendar days.</li> <li>• Cascading changes from Intermediate (60%) Design and 60% Design Addendum.</li> <li>• Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule.</li> <li>• 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).</li> <li>• Extend duration for Agencies' review/approval of design to 2 work weeks.</li> <li>• Addition of supplemental design. Extend duration for Agencies/Stakeholders/Tribes review.</li> <li>• Adjusted response to comments and comment resolution to reflect the nature/number of comments received and the 90% RTC protocol.</li> <li>• Addition of a web-based comment resolution meeting on August 26-27, 2015.</li> <li>• Addition of State CEQA review and preparation of the Groundwater Subsequent EIR (SEIR).</li> <li>• Additional time required to compare final design with 2011 concept for project description.</li> </ul>
<p>Right of Ways/Easements/Landowner Agreements/Other Approvals/Compliance/Community Outreach (Lines 1658 - 1671)</p>	<ul style="list-style-type: none"> <li>• FF 12/28/2012 (Rev. 11)</li> <li>• FF 1/7/2013 (Rev. 12)</li> <li>• FF 2/27/2013 (Rev. 13)</li> <li>• FF 4/15/2013 (Rev. 14)</li> <li>• FF 9/13/2013 (Rev. 15)</li> <li>• FF 2/21/2014 (Rev. 16)</li> <li>• FF 6/23/2014 (Rev. 17)</li> <li>• FF 10/10/2014 (Rev. 18)</li> <li>• FF 11/10/2014 (Rev. 19)</li> <li>• FF 12/1/2014 (Rev. 20)</li> <li>• FF 2/2/2015 (Rev. 21)</li> <li>• FF 4/27/2015 (Rev. 22)</li> <li>• FF 5/4/2015 (Rev. 23)</li> <li>• FF 7/30/15 (Rev. 24)</li> <li>• FF 9/3/15 (Rev. 25)</li> <li>• FF 11/27/15 (Rev. 26)</li> </ul>	<ul style="list-style-type: none"> <li>• Cascading extension of schedule from Preliminary (30%) Design.</li> <li>• Cascading extension of schedule from Intermediate (60%) Design.</li> <li>• Added details on community outreach activities - State/Federal.</li> <li>• Cascading changes from Intermediate (60%) Design and 60% Design Addendum.</li> <li>• Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule.</li> <li>• Cascading changes from Pre-Final (90%) Design.</li> <li>• Cascading changes from State CEQA Review/approval of Final Design and C/RAWP.</li> </ul>

	<ul style="list-style-type: none"> <li>• FF 1/25/17 (Rev. 27)</li> <li>• FF 3/6/17 (Rev. 28)</li> <li>• FF 4/3/17 (Rev. 29 and 30)</li> </ul>	
<p>Construction (Lines 1672 - 1689)</p>	<p><b>FF for completion of construction</b></p> <ul style="list-style-type: none"> <li>• 6/18/2014 (Rev. 11)</li> <li>• 6/26/2014 (Rev. 12)</li> <li>• 8/18/2014 (Rev. 13)</li> <li>• 9/29/2014 (Rev. 14)</li> <li>• 2/26/2015 (Rev. 15)</li> <li>• 9/17/2015 (Rev. 16)</li> <li>• 12/4/2015 (Rev. 17)</li> <li>• 9/16/2016 (Rev. 18)</li> <li>• 10/17/2016 (Rev. 19)</li> <li>• 11/8/2016 (Rev. 20)</li> <li>• 1/10/2017 (Rev. 21)</li> <li>• 4/5/2017 (Rev. 22)</li> <li>• 4/13/2017 (Rev. 23)</li> <li>• 6/25/2018 (Rev. 24)</li> <li>• 7/30/2018 (Rev. 25)</li> <li>• 10/15/2018 (Rev. 26)</li> <li>• 12/18/2019 (Rev. 27)</li> <li>• 1/29/2020 (Rev. 28)</li> <li>• Phase 1 - 1/28/2019 (Rev. 29 and 30)</li> <li>• Phase 2 - 1/26/2021 (Rev. 29 and 30)</li> </ul>	<ul style="list-style-type: none"> <li>• Cascading extension of schedule from Preliminary (30%) Design.</li> <li>• Cascading extension of schedule from Intermediate (60%) Design Addendum.</li> <li>• Added high level details on construction activities at 60% design stage.</li> <li>• Cascading changes from Intermediate (60%) Design and 60% Design Addendum.</li> <li>• Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule.</li> <li>• Cascading changes from Pre-Final (90%) Design.</li> <li>• Updated the construction schedule per the September 8, 2014 Pre-Final (90%) Design Submittal.</li> <li>• Cascading changes from approval of Final Design and C/RAWP.</li> <li>• Implementation of phased construction approach.</li> </ul>
<p>Start-up (Lines 1684-1692)</p>	<p><b>FF for completion of startup</b></p> <ul style="list-style-type: none"> <li>• 12/14/2015 (Rev. 14)</li> <li>• 5/13/2016 (Rev. 15)</li> <li>• 12/2/2016 (Rev. 16)</li> <li>• 2/20/2017 (Rev. 17)</li> <li>• 11/23/2017 (Rev. 18)</li> <li>• 1/2/2018 (Rev. 19)</li> <li>• 1/24/2018 (Rev. 20)</li> <li>• 3/28/2018 (Rev. 21)</li> <li>• 6/21/2018 (Rev. 22)</li> <li>• 6/29/2018 (Rev. 23)</li> <li>• 9/10/2019 (Rev. 24)</li> </ul>	<ul style="list-style-type: none"> <li>• Cascading extension of schedule from the above items.</li> <li>• Cascading changes from Intermediate (60%) Design and 60% Design Addendum.</li> <li>• Cascading changes from the Freshwater Source Evaluation schedule.</li> <li>• Cascading changes from Pre-Final (90%) Design.</li> <li>• Cascading changes from Construction line items.</li> <li>• Cascading changes from approval of Final Design and C/RAWP.</li> <li>• Implementation of phased construction approach.</li> </ul>

	<ul style="list-style-type: none"><li>• 10/15/2019 (Rev. 25)</li><li>• 12/31/2019 (Rev. 26)</li><li>• 3/4/2021 (Rev. 27)</li><li>• 4/15/2021 (Rev. 28)</li><li>• NTH IRZ - 1/28/2020 (Rev. 29 and 30)</li><li>• Remaining System - 1/31/2022 (Rev. 29 and 30)</li></ul>	
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