

**Handout 12B**  
**Schedule Highlights**  
**Summary of Key Schedule Changes**

Consultative Work Group Meeting  
January 18, 2017

# 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 – 1/12/17
  - ✓ 45-day Public Comment – 1/12/17 through 2/27/17
    - ✓ Open Houses/Public Meetings/Hearings – 1/31, 2/1/17
  - ✓ Final SEIR/RTCs/Findings/MMRP – 2/28 thru 6/22/17
  - ✓ Certification of SEIR – anticipated 6/23/17
- Agencies Review/Approve BOD and C/RAWP
  - ✓ Agencies' Decision on BOD and C/RAWP – anticipated 6/23/17

# 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.
  - ✓ Data Gaps Analysis
    - ✓ **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 2/12/16; 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.
    - ✓ **Data Gaps Work Plan 3** -- submitted on 9/21/16; received comments from FMIT, Hualapai Indian Tribe, and Cocopah Indian Tribe. Agencies reviewed the work plan and considered Tribal comments. DOI conditionally approved Data Gaps Work Plan #3 on November 9, 2016. DTSC approved on November 10, 2016.

# Soil Investigation and Reporting Activities

- Work Plan #3 Implementation
  - Contracting/Planning – 11/10/16 – 1/4/17
  - Field Work, Lab Analysis, and Validation – 1/4 – 3/15/17
- Determination that additional data collection is not required – Target 4/5/17
- Data Summary for EPCs Calculation – Target 4/19/17
- Draft RFI/RI Volume 3 Report – Target submittal for review/comment mid 2018

# Dioxin/Furan Background Study (in Soil)

- In the November 9, 2016 approval of Soil Data Gap Work Plan #3, DOI directed PG&E to prepare a work plan for determining background for dioxins and furans in soil, and collecting two additional samples in the downstream portion of Bat Cave Wash.
- December 20, 2016 – PG&E submitted the Work Plan for Background Study of Dioxins and Furans
- December 21, 2016 – DOI sent to Tribes, CWG, and TWG for review and requested comments by January 20, 2017.
- Field work is anticipated to be conducted in parallel with Data Gap Work Plan 3 field implementation.

# Soil Risk Assessment Activities

- Risk Assessment Report
  - ✓ Exposure Point Concentrations Calculation – Target Late April through July 2017
    - ✓ Meeting to discuss EPCs – target July
  - ✓ Draft Report - Target submittal September 2017
    - ✓ Tribes and Stakeholder Review: Mid September – Mid October
    - ✓ Agencies Review: Mid September – Early November
  - ✓ Response To Comments
    - ✓ Review Comments/Compile Comments Table: Early to mid November
    - ✓ Hold Comments Clarification Meeting: Early November
    - ✓ Prepare RTC Table – Late November – Mid December
    - ✓ Hold RTC Meeting – Early January 2018
  - ✓ Final Report with RTC Table – Target submittal Late March 2018
    - ✓ Agencies Approval – anticipated April 2018

# Summary of Key Schedule Changes



## Handout 12B

### Summary of Key Schedule Changes since August 15, 2007 (Rev. 33)

January 18, 2017 changes highlighted in Yellow – changes are from October 19, 2016

Activities	Forecast Schedule Deviation	Key Reasons
<b>Groundwater</b>		
Pre-Final (90%)/Final Design and Construction/Remedial Action Work Plan (through CEQA Review and Approvals)  (Lines 1579-1663)	<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> <li>• FF 4/11/2017 (Rev. 31)</li> <li>• FF 6/23/2017 (Rev. 32 and 33)</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> <li>• Additional time required to complete the Project Description and prepare the Draft SEIR.</li> <li>• Extended public review time of the Draft SEIR by one week (from 45 to 52 calendar days).</li> <li>• Additional time required to prepare the Draft SEIR.</li> </ul>
Right of Ways/Easements/Landowner Agreements/Other Approvals/	<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> </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> </ul>

<p>Compliance/Community Outreach (Lines 1664-1677)</p>	<ul style="list-style-type: none"> <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> <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> <li>• FF 5/10/17 (Rev. 31)</li> <li>• FF 7/27/17 (Rev. 32 and 33)</li> </ul>	<ul style="list-style-type: none"> <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>
<p>Construction (Lines 1679-1692)</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> </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>

	<ul style="list-style-type: none"> <li>• Phase 2 – 1/26/2021 (Rev. 29 and 30)</li> <li>• Phase 1 - 3/7/2019 (Rev. 31)</li> <li>• Phase 2 – 3/5/2021 (Rev. 31)</li> <li>• Phase 1 - 5/20/2019 (Rev. 32/33)</li> <li>• Phase 2 – 5/18/2021 (Rev. 32/33)</li> </ul>	
<p>Start-up (Lines 1690, 1694)</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> <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> <li>• NTH IRZ – 3/6/2020 (Rev. 31)</li> <li>• Remaining System – 3/10/2022 (Rev. 31)</li> <li>• NTH IRZ – 5/19/2020 (Rev. 32/33)</li> <li>• Remaining System – 5/23/2022 (Rev. 32/33)</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>
<p><b>Soil</b></p>		

<p>Soil RFI/RI Work Plan Implementation/Data Gaps Analysis, and Dioxin/Furan Background Study Work Plan/Implementation</p> <p>(Lines 922-967)</p>	<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>• FF 6/1/2016 (Rev.30)</li> <li>• FF 8/17/2016 (Rev. 31)</li> <li>• FF 4/5/2017 (Rev. 32 and 33)</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>• Adjusted schedule to reflect the additional time required for data evaluation and determination that additional data collection is not required.</li> <li>• Added time for Data Gaps Evaluation.</li> <li>• Additional time for implementing Data Gaps Work Plan #3.</li> <li>• Addition of the Dioxin/Furan Background Study. Implementation of this Work Plan is anticipated to occur in parallel with that for Data Gaps Work Plan #3.</li> </ul>
<p>Soil Risk Assessment (Draft, RTCs, Final, Approvals)</p> <p>(Lines 968 - 987)</p>	<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>• FF 6/5/2017 (Rev. 30)</li> <li>• FF 4/20/2018 (Rev. 32 and 33)</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>• Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.</li> <li>• 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</li> <li>• Cascading changes from Work Plan Implementation/Data Gaps Evaluation.</li> <li>• Schedule reflects implementation of Soil RFI-RI-RA RTC protocol.</li> </ul>
<p>RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals)</p> <p>(Lines 988 - 1003)</p>	<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> <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> </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> <li>• Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.</li> <li>• 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</li> </ul>

	<ul style="list-style-type: none"><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>• FF 11/15/2017 (Rev. 30)</li><li>• FF 10/29/18 (Rev. 32 and 33)</li></ul>	<p>October 29, 2012 letter from DTSC to Tribes, titled Response to Comments Process - PG&amp;E Topock Compressor Station, Needles, California</p> <ul style="list-style-type: none"><li>• Cascading changes from Work Plan Implementation/Data Gaps Evaluation.</li><li>• Schedule reflects implementation of Soil RFI-RI-RA RTC protocol.</li></ul>
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