

SITE DESIGNATION - STATUS REPORT

For information on completing and submitting this status report, refer to the instructions on reverse.

Date: 9/13/17

Lead Agency:

Department of Toxic Substances Control
Office of Geology

Site Name/Address:

PG&E Topock Compressor Station
Needles, CA

Project Manager Name:

Aaron Yue

Resolution Number: 03/03

Project Manager Phone Number:

(714) 484-5439

1. Date(s) of Consultative Meeting(s) and List of Attendees (Agency):

The Department of Toxic Substances Control (DTSC) conducted face-to-face meetings and teleconference calls with Tribal representatives, PG&E, Federal Government, and various stakeholder groups as frequently as the project warranted. During FY 16/17, face-to-face meetings with the Consultative Work Group (CWG) were held on July 20, 2016, October 19, 2016, January 18, 2017, and April 19, 2017. The Geo/Hydro Technical Subcommittee (TWG) of the CWG also met periodically during FY 16/17. A face-to-face TWG meeting was held on October 19-20, 2016. A TWG webinar meeting was also held on June 21, 2017. The Clearinghouse Task Force (CTF) held face-to-face meetings on July 19, 2016, August 16, 2016, September 20, 2016, October 18, 2016, January 17, 2017, and April 18, 2017. In addition, the CTF also held phone conferences on November 15, 2016, March 14, 2017, May 16, 2017 and June 20, 2017.

Participants at the CWG, TWG and CTF meetings included members of local, state and federal government stakeholder agencies, as well as representatives of the Chemehuevi Indian Tribe (CIT), Cocopah Indian Tribe, Colorado River Indian Tribe (CRIT), Fort Mojave Indian Tribe (FMIT), and Hualapai Indian Tribe. Each meeting agenda and significant issues from previous meetings were provided to all participants.

A list of attendees of face-to-face meetings held during FY 16/17 is provided as Attachment A. A list of all CWG Members and Tribal Representatives notified and invited to attend the CWG and TWG meetings is provided as Attachment B. A list of everyone notified and invited to attend Sub-Committee meetings, such as the Clearinghouse Task Force is provided as Attachment C.

2. Recent Public Comment/Participation:

Information Repositories and Topock Website

DTSC maintains three project information repositories in California at Needles, Havasu Lake, and Cypress. In addition, DTSC maintains four duplicate repositories in Arizona at Golden Shores, Lake Havasu, and two in Parker. Information repository compact discs (cdfs) were prepared and delivered each quarter during FY 16/17 containing the previous quarter's information. DTSC prepared and provided a "welcome binder" with instructions for use of the information repositories with the 4th quarter updates to facilitate the use of the repositories. The annual Topock information repositories audit occurred during January 2017. During the January 2017 visits, DTSC replaced several binders of older project information with electronic media on cdfs to reduce space. In addition to the repository updates, During each quarter of FY 16/17, DTSC also updated the DTSC Topock Project website with documents from the previous quarter.

During the third quarter of FY 16/17, the Draft Subsequent Environmental Impact Report (SEIR) was uploaded to the Topock website on January 12, 2017 for public review and comment. Notification of the public comment period and public meetings/hearings for the Draft SEIR was posted on the website as well as announced in four local newspapers including the Mohave Daily News, the San Bernardino Sun, the Needles Desert Star and Topock Topics. DTSC also sent an announcement flyer of the SEIR comment period by direct mailing to parties of interest and local residences on the project mailing list. Hard copies of the SEIR were also made available to the public at each repository.

Community Outreach

DTSC continued to manage reservation and use of the Topock groundwater remedy physical model for stakeholder meetings.

An annual project Fact Sheet on the *Soil Investigation and Groundwater Remedy Activities* was mailed out on November 18, 2016.

DTSC held two public meetings and hearings in Needles, California on January 31 and Golden Shores, Arizona on February 1, 2017 to receive comments on the Draft Subsequent Environmental Impact Report (DSEIR). A public comment period for the DSEIR was announced in four regional newspapers in the project vicinity and by direct mailing to local residences. The comment period was held from January 12 through February 27, 2017.

Tribal Outreach

On 7/19/16, DTSC and consultant ESA met with Tribal representatives from Fort Mojave, Colorado River, Chemehuevi, Hualapai and Cocopah Indian Tribes. The purpose of the meeting was to discuss mitigation measure concepts for the Subsequent EIR ahead of the Draft SEIR public notice and comment period.

On 8/5/16, DTSC and consultant ESA met with Tribal representatives from Fort Mojave, Chemehuevi, Hualapai, and Cocopah Indian Tribes. This was a follow-up to the 7/19/16 meeting to continue discussion regarding mitigation measure concepts of the Subsequent EIR.

DTSC met with the Fort Mojave, Hualapai, Cocopah, and Colorado River Indian Tribes on April 19-20, 2017 for clarification of Tribal comments received on the Draft Subsequent EIR Mitigation Measures.

Topock Site Mailing List Update

DTSC continued to maintain the mailing list throughout FY 16/17 by updating it with new information as needed.

3. Describe the Potential or Known Areas of Concern:

DTSC continues to oversee PG&E in evaluating what is needed to protect the beneficial uses of the Colorado River.

From 1951 to 1964, untreated wastewater containing hexavalent chromium was discharged into an area known as the Bat Cave Wash (a dry streambed near the Colorado River). This resulted in a plume of hexavalent chromium contamination in the groundwater beneath the facility which now extends beneath the floodplain adjacent to the Colorado River. The groundwater plume extends under federal property, managed and overseen by the Department of Interior.

In addition, there are localized areas within or around the Topock Compressor Station (TCS) where chromium, hexavalent chromium, and other compounds (such as other metals, semi-volatile organic compounds, asbestos), have been found in soils. These occurrences are related to disposal and handling practices when chromium was used at the site. DTSC anticipates that these localized areas of soil contamination will be addressed in the soil Corrective Measures Study (CMS) and final remedy.

The majority of the potential and known areas of concern are situated on lands either owned by PG&E or DOI (managed by the BLM and the U.S. Fish and Wildlife Service). Some Native American Tribes have significant cultural and religious affiliations with the landscape. The entire project area has been designated by BLM as a Traditional Cultural Property of the Mohave people. The project site also includes habitat that supports a diverse biological ecology including several fully protected species.

4. Current Phase of Action:

Groundwater Remedy

- On May 5, 2015, DTSC announced via an NOP, the preparation of a Subsequent EIR to evaluate potential environmental impacts associated with the Groundwater Remedy. The SEIR will evaluate the impacts associated with project details that were not identified in the 2011 Final EIR.
- On October 4, 2016, DTSC and DOI issued a joint letter to respond to Tribes/TRC's comments and inputs on the groundwater model updates. In this letter, the Agencies directed PG&E to conduct specific improvements to the revised groundwater model and hold technical meetings with a limited number of Agency representatives. The technical meetings were held by telephone and Webex on October 31, November 14 and December 9, 2016 and attended by DTSC, DOI, RWQCB, FMIT, Cocopah, TRC, and MWD.
- On November 18, 2016, PG&E submitted the Supplemental and Errata Information for the Final Design for the Groundwater Remedy to agencies and stakeholders.
- DTSC prepared the Draft Groundwater Subsequent EIR (DSEIR) for the Groundwater Remedy and published for public review on January 12, 2017. The DSEIR was available for public review and comments from January 12 to February 27, 2017. DTSC is currently preparing responses to comments which will be included in the Final

Groundwater Remedy Subsequent EIR (Final SEIR). The Final SEIR is anticipated to be completed and certified during the first quarter of FY 17/18.

- An informational update was presented at the Regional Water Board Meeting on March 9, 2017, on the groundwater remedy and the proposed discharge of remedy-produced wastewater to the PG&E Topock Compressor Station Evaporation Ponds. Regional Board approval of Evaporation Ponds WDRs is anticipated in Fall 2017 after certification of the final SEIR.

Soil Investigation EIR

- DTSC, DOI, and PG&E held numerous teleconference calls to discuss soil investigation results and identify data gaps. In addition, a 3-day face-to-face meeting was held between DTSC, DOI and PG&E on July 12-14, 2016 at DTSC Cypress office to discuss those data gaps. A total of 297 data gaps were identified as requiring additional work. In consideration of the Tribal cultural sensitivity of the project area, the identified data gaps were prioritized and ensured compliance with the threshold evaluated within the Soil Investigation Environmental Impact Report. Considerable effort was spent to minimize data collection from new locations, and maximize the use of archived samples and the collection of samples from existing locations. As a result of this approach, it was determined that only 15% of the remaining data gaps will require collection of data from new locations (46 new locations).
- On September 9, 2016, DTSC and DOI met to discuss options for resolution of data gaps associated with soil investigation area UA-1. During this meeting, DTSC articulated to DOI its position on investigating potential historical releases associated with PG&E's waste management practices. However, DTSC also acknowledged that it is on federally owned land. Absent concrete evidence of release, DTSC will respect the decision of BLM, the Federal land owner and the DOI regarding the path forward for this area. DTSC memorialized in a letter to DOI on September 15, 2016, its position on investigation of UA-1 and conveyed that administrative controls be considered as appropriate. .
- On September 14, 2016, DTSC attended via teleconference the Soil Investigation Field Lessons Learned meeting held by PG&E at the PG&E Topock Compressor Station. The purpose of the meeting was to discuss what worked, what could have worked better, and application to future field work. The meeting was attended by representatives from DTSC, DOI, FMIT, CRIT, PG&E, and its contractors that participated in the soil field work (CH2M team including Groundwater Partners and Transcon, PIVOX).
- On September 21, 2016, PG&E submitted the Soil Data Gaps Work Plan No. 3 to DTSC, DOI, Tribes, and stakeholders for review and comment. DTSC requested comments by October 27, 2016. Comments were received from the Fort Mojave Indian Tribe, Hualapai Indian Tribe, and Cocopah Indian Tribe, and considered by DTSC and DOI. DOI approved the Soil Data Gaps Work Plan No. 3 on November 9, 2016, and directed PG&E to submit another work plan for determining background for dioxins and furans. DTSC approved the Soil Data Gaps Work Plan No. 3 on November 10, 2016. Field work is anticipated to start on January 4, 2017.
- In compliance with the Soil EIR Mitigation Measure CR-1c-2, a Pre-investigation Historical Resources Field Verification for soil sampling locations was conducted on December 5, 2016.
- On January 4, 2017, a project initiation meeting was conducted for Soil Data Gap Work Plan No. 3. Work commenced immediately after the project initiation meeting.
- On February 2, 2017, a site walk was held to facilitate Tribes and stakeholders review of the draft "Work Plan for Background Study of Dioxins and Furans at the Pacific Gas and Electric Company Topock Compressor Station", dated December 20, 2016.
- On March 2, 2017, PG&E submitted a revised Work Plan for Background Study of Dioxins and Furans that addressed DOI's directives in the February 28, 2017 letter. DOI approved the revised Work Plan on March 6, 2017. Field work was conducted on March 17 and 18, 2017. A Draft Technical Memorandum is being prepared and is anticipated to be submitted in mid-July, 2017.
- Soil investigation field activities at AOC-14 were completed on April 26 - 27, 2017, and this concluded all field activities in accordance with the approved Soil Data Gap Work Plan No. 3.
- PG&E provided soil data collected per Data Gap Work Plan No. 3 to Tribes and stakeholders on May 11, June 7, June 19, and June 20, 2017.
- DTSC, DOI, and PG&E held additional discussions on soil sampling results for data gaps evaluation on April 17, May 5, May 19, June 16, June 19, and June 23, 2017.

(Specific activities continued in Section 12)

5. Proposed Site Use (check the appropriate box[es]):

- Commercial/Industrial/Retail Residential (single/Multi-family, Sale/rental product)
- Park or Open Space Schools, Hospitals Day Care Centers or Other Non-Industrial Sensitive Uses

6. List any Technical Problems:

N/A

7. Permits Required/Issued to Date and Pending Permit Issues:

None

8. Deed Restriction/Land Use Control in Place?

- Yes No
- Effective Date: _____

9. Engineering Controls (check applicable controls in place):

<input type="checkbox"/>	Air Sparging	<input type="checkbox"/>	Construct Landfill Cell	<input checked="" type="checkbox"/>	Fence Site	<input type="checkbox"/>	Remove Free Product
<input checked="" type="checkbox"/>	Capped Site	<input type="checkbox"/>	Containment Barrier	<input checked="" type="checkbox"/>	In Situ Treatment	<input type="checkbox"/>	Soil Vapor Extraction
<input type="checkbox"/>	Consolidate and Cap	<input type="checkbox"/>	Dual Phase Extraction	<input type="checkbox"/>	Passive Venting	<input type="checkbox"/>	Treatment at Hookup
<input type="checkbox"/>	Passive Vent under Structure	<input type="checkbox"/>	Enhanced Biodegradation	<input type="checkbox"/>	Monitored Natural Attenuation	<input checked="" type="checkbox"/>	Pump and Treat Groundwater

Vent Soil

OTHER (specify):

10. Target Cleanup Levels/Current Contamination Levels:

Remedial action objectives (RAOs) for groundwater contaminants were presented in the Groundwater CMS and the Statement of Basis. The Statement of Basis was published on January 31, 2011. The Remedial Design is complete and the Final Design is under review by DTSC and DOI.

PG&E is implementing an Interim Measure (IM) consisting of groundwater extraction for hydraulic control of the plume boundaries in the Colorado River floodplain and management of extracted groundwater. The groundwater extraction, treatment, and injection systems, collectively, are referred to as Interim Measure Number 3 (IM-3). Currently, the IM-3 facilities include a groundwater extraction system (four extraction wells: TW-2D, TW-3D, TW-2S, and PE-1), conveyance piping, a groundwater treatment plant, and an injection well field for the discharge of the treated groundwater (two injection wells: IW-2 and IW-3).

11. Ongoing Monitoring (specify timeframes and/or describe "Other"):

- Groundwater Air Other Specify: Colorado River Sampling and Monitoring

The current Groundwater Monitoring Program includes over 140 monitoring wells. Sampling for hexavalent chromium and chromium occurs:

- monthly in 2 extraction wells,
- monthly in 4 river shoreline locations, 2 other surface water monitoring locations, and 10 in-channel river locations during low river periods in winter,
- quarterly in 22 wells, 4 river shoreline locations, 2 other surface water monitoring locations, and 10 in-channel river locations,
- semiannually in 101 wells, 4 river shoreline locations, 2 other surface water monitoring locations, and 10 in-channel river locations,
- annually in 142 wells, 4 river shoreline locations, 2 other surface water monitoring locations, and 10 in-channel river locations, and
- biennially in 146 wells, 4 river shoreline locations, 2 other surface water monitoring locations, and 10 in-channel river locations

The frequencies noted above apply to the Topock groundwater and surface water monitoring program, and do not include other monitoring programs such as the Compliance Monitoring Program (CMP).

Oversight Agency Costs Reimbursed to Date: DTSC labor expenditures for July 2016 – June 2016: DTSC spent 5,572 hours with an oversight cost of approximately \$1,329,254.00.

12. Additional Comments or Issues – add additional pages as needed

(Continued from Section 4)

Surveys

- On May 26, 2017, PG&E submitted the technical memorandum that summarizes an evaluation of Riparian Habitat Impact, as required by DTSC's condition of approval for the Soil Investigation Project. The memorandum concluded that based on the monitoring activities and observations, there was no loss of floodplain, riparian areas, wetlands, and jurisdictional waters of the United States (WOUS) habitats or habitats designated by CDFW as sensitive, including ephemeral washes and western honey mesquite bosque, or their functions, or values resulting from the soil investigation activities between October 2015 and April 2017.
- The Southwestern Willow Flycatcher (SWFL) protocol bird surveys occurred on May 15 - 19, June 5 - 9; and June 19 - 23, 2017.

Wells

- With DTSC's conditional approval on July 20, 2015, extraction well PE-1 (part of IM3 extraction network), has been running intermittently since January 2016. PG&E has continued to monitor the hydraulic gradient at prescribed gradient well pairs and chromium concentrations at select floodplain wells as directed in DTSC's July 20, 2015 conditional approval letter. PG&E has also submitted monthly snapshots of IM3 Pumping Regime and Hydraulic Performance following this change to pumping at PE-1 (as an action item from the July 22, 2015 CWG). The average landward gradient for March 2017, April 2017, and May 2017 was 0.0119, 0.0048, and 0.0049 foot/foot (ft/ft) at the prescribed gradient well pairs, respectively, exceeding the target gradient of 0.001 ft/ft. The next monthly (June 2017) snapshot is anticipated by July 21, 2017.

Monitoring Programs

- PG&E is implementing the EIR Mitigation Monitoring and Reporting Program requirements in the Groundwater EIR and Soil Investigation EIR. PG&E has been submitting quarterly compliance reports. Quarterly EIR Mitigation Measures Compliance Reports for the Final Groundwater Remedy and Soil Investigation were submitted on July 27, 2016, October 31, 2016, January 31, 2017, and April 28, 2017.
- Implementation of the groundwater and surface water monitoring program continued during FY 16/17. Quarterly groundwater monitoring events were completed in October 2016, December 2016, March 2017 and May 2017.

Activities during FY 16/17 related to ongoing implementation of the Interim Measure included the following:

- Continuous operation of the Interim Measure groundwater extraction, treatment, and injection facility continued throughout FY 16/17. Periodic downtimes associated with optimization, maintenance, and repair occurred in conformance with permit conditions.
- PG&E completed required monitoring and reporting of treatment plant operations as required by the Applicable, Relevant and Appropriate (ARARs) under DOI oversight. IM-3 self-monitoring reports were submitted on August 15, 2016, October 14, 2016, January 13, 2017, and April 14, 2017.
- Performance Monitoring Program (PMP) activities in the Colorado River floodplain continued in FY 16/17. Quarterly PMP/GMP reports were submitted on August 15, 2016, December 15, 2016, March 15, 2017, and April 28, 2017.

GENERAL: This Status Report form is for use in communicating to Cal/EPA the activities of the Administering Agency and Support Agencies with respect to site investigation and remedial action. A Status Report should be completed following the initial Consultative Work Group meeting. Subsequently, an annual report should be completed each year for the period ending June 30th. A Status Report should also be completed at the end of a designated project. Type or print clearly all requested information in the spaces provided and attach additional pages as necessary to explain or complete your responses. Mail the Status Reports to:

California Environmental Protection Agency
 1001 I Street, 25th Floor
 Site Designation Committee
 Sacramento, CA 95814

1. Date of Consultative Work Group Meeting and List of Attendees: List date(s) of Consultative Work Group Meeting(s) that occurred during the year, including names of attendees followed by agency affiliation in parenthesis. If initial status report, attach summary of the first Consultative Work Group Meeting.

2. Recent Public Comment/Participation: List documents received in the year subject to public comment or public meetings/hearings held and what you did to provide for public participation.

3. Describe Known or Potential Areas of Concern: Describe the site investigative or remedial activities occurring at the site and issues for the year.

4. Current Phase of Action under the Site Designation Process

List current phase of action corresponding to description provided below by assigning a number followed by an appropriate letter, if applicable (i.e. Work Plan Completed denote as level 3D).

<u>Number</u>	<u>Description</u>
1	Administering Agency Designated
2	First Consultative Meeting Completed
3	<u>Levels of Action</u>
	A - Preliminary Site Assessment Completed
	B - Site Investigation Completed
	C - Feasibility Study Completed
	D - Work Plan Completed
	E - Cleanup Alternative Selected and Authorized
	F - Design of Cleanup Alternative Selected
	G - Implementation of Cleanup Alternative (give % complete)
	H - Remediation Completed
4	Certificate of Completion Issued (after concurrence by other interested agencies).

5. Proposed Site Use: Check the appropriate box or boxes which describe the planned use for the site:
 (1) Commercial/Industrial/Retail; (2) Residential (single/multi-family, sale/rental product); (3) Park or Open space;
 (4) Schools, Hospitals, Day Care Centers or Other Non-residential Sensitive Uses.

6. List any Technical Problems: Describe any technical issues impeding site investigative or cleanup activities.

7. Permits Required/Issued to Date and Pending Permit Issues: List any permits currently being required and/or issued by the Administering or Support Agency. List any permits currently pending approval and any requirements yet to be fulfilled by the Responsible Party.

8. Deed Restrictions/Land Use Controls: Check applicable box and specify the date if the response is "yes."

9. Cleanup Levels: Specify current contamination levels and proposed target cleanup levels for major contaminants.

10. Ongoing Monitoring: Check the appropriate box(es) and/or specify any other type of ongoing monitoring that is in place. Specify approximate timeframes (using months/years) for monitoring, i.e., 11/06 – 1/10

11. Oversight Agency Costs Reimbursed to Date: For the project, list agency, amount reimbursed followed by pending reimbursement in parenthesis, and brief description of services provided by each agency.

12. Additional Comments or Issues: If needed, attach additional sheets to describe any important issues not previously addressed above such as issues discussed at last Consultative Work Group Meeting. In the event the project takes less than a year to complete, there need only be one report completed and submitted at the end of the project. Please attach a copy of any Certificate of Completion and/or closure letter issued when submitting the final report.

**PG&E Topock Compressor Station
Annual Status Report July 2016 – June 2017**

ATTACHMENT A – Dates of Meetings and Lists of Attendees (Agencies)

July 19, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: Department of Toxic Substances Control (DTSC): Karen Baker, Yolanda Garza; U.S. Bureau of Land Management (BLM): Gloria Bullets Benson (phone); Colorado River Indian Tribe (CRIT): David Harper, Fawnia James, Doug Bonamici (phone); Cocopah Indian Tribe: Edgar Castillo (phone); Fort Mojave Indian Tribe (FMIT): Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; Pacific Gas & Electric Company (PG&E): Yvonne Meeks; CH2M Hill on behalf of PG&E: Christina Hong (phone); Arcadis on behalf of PG&E: Lisa Micheletti-Cope, Kristin Mancini (phone); U.S. Department of the Interior (USDOI): Pam Innis (phone); Metropolitan Water District (MWD): Maria Lopez; Cocopah Indian Tribe: Jill McCormick (phone); Chemehuevi Indian Tribe (CIT): Ron Escobar; Technical Review Committee (TRC): Eric Rosenblum

July 20, 2016 – Consultative Work Group Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza, Aaron Yue, Isabella Alasti, Chris Guerre (phone), Jose Marcos (phone), Lori Hare (phone); ESA on behalf of DTSC: Addie Farrell (phone); California Regional Water Quality Control Board (CRWQCB): Robert Perdue (phone); State Water Resource Control Board (SWRCB): Tom Vandenberg (phone); PG&E: Yvonne Meeks, Curt Russell (phone), Jennifer Darcangelo (phone); CH2M Hill on behalf of PG&E: Christina Hong, Mike Cavaliere; Arcadis on behalf of PG&E: Kristin Mancini (phone); BLM: Gloria Bullets Benson (phone); USDOI: Pam Innis (phone); MWD: Maria Lopez, Jill C. Teraoka (phone), Eric Fordham (Geopentech – phone); Arizona Department of Environmental Quality (ADEQ): Nichole Osuch (phone); CIT: Ron Escobar; CRIT: David Harper, Fawnia James; FMIT: Nora McDowell, Leo Leonhart (H&A), Michael Sullivan (phone); Hualapai Indian Tribe: Dawn Hubbs; TRC: Margaret Eggers, Charlie Schlinger, Eric Rosenblum, Robert Prucha

August 16, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza; BLM: Gloria Bullets Benson (phone); California Regional Water Quality Control Board (CRWQCB): Robert Perdue (phone); Cocopah Indian Tribe: Edgar Castillo (phone); FMIT: Nora McDowell (phone); H&A on behalf of FMIT: Leo Leonhart (phone); PG&E: Yvonne Meeks (phone); Arcadis on behalf of PG&E: Lisa Micheletti-Cope, Kristin Mancini (phone); CH2M Hill: Christina Hong (phone); USDOI: Pam Innis (phone); CIT: Ron Escobar; TRC: Charlie Schlinger; Hualapai Indian Tribe: Dawn Hubbs

September 20, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza; DOI: Pam Innis (phone); BLM: Jeff Smith, Jason West (phone), Gloria Benson (phone), Renee Kolvet (phone); RWQCB: Robert Perdue (phone); MWD: Maria Lopez (phone); PG&E: Yvonne Meeks (phone); CH2M Hill on behalf of PG&E: Christina Hong (phone); Arcadis on behalf of PG&E: Lisa Micheletti Cope, Steven Perry

(phone); Cocopah Indian Tribe: Jill McCormick (phone), Edgar Castillo (phone); FMIT: Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; CIT: Ron Escobar; TRC: Eric Rosenblum (phone)

October 18, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza; DOI: Pam Innis; BLM: Amanda Deeds, Renee Kolvet (phone); RWQCB: Robert Perdue; MWD: Maria Lopez; PG&E: Kevin Sullivan, Yvonne Meeks, Jose Moreno; CH2M Hill on behalf of PG&E: Christina Hong (phone); Arcadis on behalf of PG&E: Lisa Micheletti Cope, Kristin Manicini (phone); H&A on behalf of FMIT: Leo Leonhart; CRIT: Toni Carlyle, Nick Zeyouma; CIT: Ron Escobar; TRC: Eric Rosenblum; Hualapai: Lyndee Hornell

October 19, 2016 – Consultative Work Group Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Dot Lofstrom, Yolanda Garza, Aaron Yue, Chris Guerre (via telephone), Jose Marcos (via telephone), Lori Hare (via telephone); ESA: Addie Farrell (via telephone); CRWQCB: Robert Perdue; SWRCB: Adriana Nunez (via telephone); PG&E: Yvonne Meeks, Curt Russell, Kevin Sullivan, Juan Jayo (via telephone); CH2M Hill on behalf of PG&E: Christina Hong, Mike Cavaliere (via telephone); Arcadis on behalf of PG&E: Lisa Micheletti-Cope, Kristin Mancini (via telephone); BLM: Renee Kolvet, Amanda Deeds, Gloria Bullets Benson (via telephone); BOR: Jeff Smith; USDOI: Pam Innis; MWD: Maria Lopez, Jill Teraoka (via telephone), Eric Fordham (Geopentech via telephone); ADEQ: Nichole Osuch (via telephone); CIT: Ron Escobar; CRIT: Nick Zeyouma, Toni Carlyle; FMIT: Nora McDowell (via telephone), Leo Leonhart (H&A), Michael Sullivan (via telephone); Hualapai Indian Tribe: Lyndee Hornell; TRC: Eric Rosenblum, Robert Prucha, Charlie Schlinger

October 19-20, 2016 Geo/Hydro Technical Workgroup Face-to-Face Meeting and Site Walk

Attendees 10/19: DTSC: Chris Guerre, Aaron Yue; USFWS: Brandon Melton; CH2M Hill on behalf of PG&E: Mike Cavaliere; Groundwater Partners: Eli Ludwig; TRC: Charlie Schlinger, Bob Prucha; CIT: Ron Escobar; Hualapai: Lyndee Hornell; FMIT: Chris Harper; CRIT: Nick Zeyouma, Toni Carlyle

Attendees 10/20: DTSC: Chris Guerre, Jose Marcos, Karen Baker, Dot Lofstrom; DOI: Pam Innis; BLM: Renee Kolvet; USFWS: Carrie Marr; PG&E: Curt Russell; CH2M Hill on behalf of PG&E: Keith Sheets, Christina Hong, Mike Cavaliere; Groundwater Partners: Eli Ludwig; TRC: Bob Prucha, Eric Rosenblum; CRIT: Nick Zeyouma; Hualapai: Lyndee Hornell; CIT: Ron Escobar

November 15, 2016 – Clearinghouse Task Force Phone/WebEx Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza; DOI: Pam Innis; BLM: Gloria Benson, Renee Kolvet; RWQCB: Robert Perdue; MWD: Maria Lopez; PG&E: Yvonne Meeks, Kevin Sullivan; CH2M Hill on behalf of PG&E: Christina Hong; Arcadis on behalf of PG&E: Lisa Micheletti Cope, Kristin Mancini, Steven Perry; Cocopah Indian Tribe: Edgar Castillo; FMIT: Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; CIT: Ron Escobar; Hualapai Indian Tribe: Dawn Hubbs; TRC: Margaret Eggers

January 17, 2017 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza; DOI: Pam Innis; BLM: Jeff Smith, Jason West (phone), Gloria Benson (phone), Renee Kolvet (phone); BOR: Jeffery Smith; RWQCB: Robert Perdue (phone); MWD: Maria Lopez; PG&E: Yvonne Meeks, Kevin Sullivan, Jose Moreno; CH2M Hill on behalf of PG&E: Christina Hong (phone); Arcadis on behalf of PG&E: Lisa Micheletti Cope, Kristin Mancini (phone); Cocopah Indian Tribe: Edgar Castillo (phone); FMIT: Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; CIT: Ron Escobar; Hualapai Indian Tribe: Lyndee Hornell, Dawn Hubbs; CRIT: Jennifer Corona, David Harper; TRC: Charlie Schlinger

January 18, 2017 – Consultative Work Group Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Yolanda Garza, Aaron Yue, Jose Marcos (phone), Lori Hare (phone); ESA: Addie Farrell; PG&E: Yvonne Meeks, Curt Russell (phone), Kevin Sullivan, Jose Moreno-Jimenez, Juan Jayo (phone), Jennifer Darcangelo (phone); CH2M Hill on behalf of PG&E: Christina Hong, Mike Cavaliere (phone); Arcadis on behalf of PG&E: Lisa Micheletti-Cope, Kristin Mancini (phone); Pivox Corp: Marty Bloes (phone); BLM: Renee Kolvet; BOR: Jeff Smith; USDO: Pam Innis; MWD: Maria Lopez, Jill Teraoka (phone), Eric Fordham (Geopentech phone); CIT: Ron Escobar; Cocopah: Edgar Castillo (phone); CRIT: David Harper, Jennifer Corona; FMIT: Nora McDowell, Leo Leonhart (H&A), Michael Sullivan (phone); Hualapai Indian Tribe: Dawn Hubbs, Lyndee Hornell; TRC: Eric Rosenblum, Robert Prucha (phone), Charlie Schlinger, Margaret Eggers

March 14, 2017 – Clearinghouse Task Force Phone/WebEx Meeting

Attendees: DTSC: Aaron Yue, Yolanda Garza; DOI: Pam Innis; PG&E: Kevin Sullivan, Curt Russell, Jennifer D'Arcanegelo, Jose Moreno-Jimenez; Arcadis on behalf of PG&E: Lisa Micheletti Cope, Kristin Mancini; CH2M Hill on behalf of PG&E: Christina Hong; BLM: Gloria Benson; Cocopah Indian Tribe: Jill McCormick, Edgar Castillo; FMIT: Nora McDowell, Leo Leonhart (H&A); TRC: Margaret Eggers

April 18, 2017 – Clearinghouse Task Force Face-to-Face Meeting

Attendees: DTSC: Karen Baker, Aaron Yue, Yolanda Garza, Ana Mascarenas, Barbara Lee, Mohsen Nazemi, Antoinette Cordero; DOI: Pam Innis; BLM: Renee Kolvet; RWQCB: Robert Perdue (phone); MWD: Maria Lopez; PG&E: Kevin Sullivan, Curt Russell, Jennifer Darcangelo (phone); CH2M Hill on behalf of PG&E: Christina Hong; Arcadis on behalf of PG&E: Lisa Micheletti Cope, Kristin Mancini (phone); Cocopah Indian Tribe: Edgar Castillo, Jill McCormick; FMIT: Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; CRIT: Jennifer Corona, Toni Carlyle; TRC: Margaret Eggers

April 19, 2017 – Consultative Work Group Face-to-Face Meeting

Attendees: DTSC: Dot Lofstrom, Karen Baker, Yolanda Garza, Aaron Yue, Isabella Alasti, Chris Guerre (phone), Lori Hare (phone); ESA: Addie Farrell, Sara Spano; PG&E: Curt Russell, Kevin

Sullivan, Juan Jayo , Jennifer Darcangelo (phone); CH2M Hill on behalf of PG&E: Christina Hong; Arcadis on behalf of PG&E: Kristin Mancini (phone); Pivox Corp: Marty Bloes (phone), Shakeel Jogia (phone); BLM: Renee Kolvet, Gloria Bullets Benson (phone); BOR: Jeff Smith; MWD: Maria Lopez, Jill Teraoka, Eric Fordham (Geopentech phone); ADEQ: Nichole Osuch (phone); CRWQCB: Robert Perdue (phone); Cocopah: Edgar Castillo, Jill McCormick; CRIT: Jennifer Corona, Toni Carlyle; FMIT: Nora McDowell, Leo Leonhart (H&A); Hualapai Indian Tribe: Dawn Hubbs; TRC: Eric Rosenblum (phone), Robert Prucha (phone), Charlie Schlinger, Margaret Eggers

May 16, 2017 – Clearinghouse Task Force Teleconference Meeting

Attendees: DTSC: Karen Baker, Aaron Yue, Yolanda Garza, BLM: Renee Kolvet; MWD: Maria Lopez; PG&E: Kevin Sullivan, Curt Russell, Jose Moreno-Jimenez; CH2M Hill on behalf of PG&E: Christina Hong; Arcadis on behalf of PG&E: Lisa Micheletti Cope, Steven Perry; FMIT: Nora McDowell; H&A on behalf of FMIT: Leo Leonhart; Cocopah Indian Tribe: Edgar Castillo, Jill McCormick; Hualapai: Dawn Hubbs; Chemehuevi: Ron Escobar; CRIT: Jennifer Corona; TRC: Margaret Eggers

June 20, 2017 – Clearinghouse Task Force Teleconference Meeting

Attendees: DTSC: Aaron Yue, Yolanda Garza; DOI: Pam Innis; MWD: Maria Lopez; PG&E: Kevin Sullivan, Curt Russell, Jose Moreno-Jimenez, Jennifer D’Arcangelo; Arcadis on behalf of PG&E: Lisa Micheletti Cope, Steven Perry; CH2M Hill on behalf of PG&E: Christina Hong; CRIT: Jennifer Corona, Toni Carlyle; Cocopah: Jill McCormick, Edgar Castillo; FMIT: Nora McDowell; Chemehuevi: Ron Escobar; TRC: Margaret Eggers

June 21, 2017 – Geo/Hydro Technical Workgroup Webinar

Attendees: DTSC: Chris Guerre, Jose Marcos, Shukla Roy Semmens; DOI: Pam Innis, Casey Padgett; PG&E: Yolanda Garza, Curt Russell, Jose Moreno-Jimenez; CH2M Hill on behalf of PG&E: Christina Hong, Mike Cavaliere; Arcadis on behalf of PG&E: Frank Lenzo; Pivox on behalf of PG&E: Marty Bloes; USFWS: Carrie Marr; MWD: Sun Liang, Maria Lopez, Eric Fordham; CIT: Ron Escobar; FMIT: Nora McDowell, Michael Sullivan, Leo Leonhart (H&A); Cocopah: Jill McCormick, Edgar Castillo; CRIT: Toni Carlyle; TRC: Charlie Schlinger, Eric Rosenblum, Bob Prucha, Margaret Eggers; Iris: Susan Shiu

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ATTACHMENT B – Invitees to Consultative Work Group Meetings

July 20, 2016 – Consultative Work Group Face-to-Face Meeting

Notified and Invited: Arizona Department of Environmental Quality (ADEQ), California Regional Water Quality Control Board (CRWQCB), Chemehuevi Indian Tribe (CIT), Coachella Valley Water District, Cocopah Indian Tribe, Colorado River Indian Tribe (CRIT), Colorado River Board (CRB), Department of Toxic Substances Control (DTSC) and their consultants Environmental Science Associates (ESA), Fort Mojave Indian Tribe (FMIT) and their consultants Law Office of Courtney Coyle, The McDonald Law Firm, & Hargis & Associates (H&A), Fort Yuma-Quechan Indian Tribe, Hualapai Indian Tribe, Indian Health Services (IHS), Metropolitan Water District (MWD) and their consultants Geopentech, Mohave County DPH, Pacific Gas & Electric (PG&E) and their consultants CH2M Hill, Arcadis, Law Offices of J. Drew Page, and Pivox Corp., Technical Review Committee (TRC): Katz & Associates, Inc., CD&E, Rosenblum Environmental, Eggers Environmental, Integrated Hydro Systems, LLC, HDR Engineering, Inc., Southwest Hydro-Logic, Torres-Martinez Indian Tribe, Twenty-Nine Palms Indian Tribe, US Bureau of Land Management (USBLM), US Bureau of Reclamation (USBOR), US Department of Interior (USDOI) and their consultants KMPower and Summit Technical Resources, US Environmental Protection Agency (USEPA), and US Fish and Wildlife Services (USFWS)

October 19, 2016 – Consultative Work Group Face-to-Face Meeting

Notified and Invited: ADEQ, CRWQCB, CIT, Coachella Valley Water District, Cocopah Indian Tribe, CRIT, CRB, DTSC and their consultants ESA, FMIT and their consultants Law Office of Courtney Coyle, The McDonald Law Firm, & H&A, Fort Yuma-Quechan Indian Tribe, Hualapai Indian Tribe, Indian Health Services (IHS), MWD and their consultants Geopentech, Mohave County DPH, PG&E and their consultants CH2M Hill, Arcadis, Law Offices of J. Drew Page, and Pivox Corp., TRC: Katz & Associates, Inc., CD&E, Rosenblum Environmental, Eggers Environmental, Integrated Hydro Systems, LLC, HDR Engineering, Inc., Southwest Hydro-Logic, Torres-Martinez Indian Tribe, Twenty-Nine Palms Indian Tribe, USBLM, USBOR, USDOI and their consultants KMPower and Summit Technical Resources, USEPA, and USFWS

January 18, 2017 – Consultative Work Group Face-to-Face Meeting

Notified and Invited: ADEQ, CRWQCB, CIT, Coachella Valley Water District, Cocopah Indian Tribe, CRIT, CRB, DTSC and their consultants ESA, FMIT and their consultants Law Office of Courtney Coyle, The McDonald Law Firm, & H&A, Fort Yuma-Quechan Indian Tribe, Hualapai Indian Tribe, Indian Health Services (IHS), MWD and their consultants Geopentech, Mohave County DPH, PG&E and their consultants CH2M Hill, Arcadis, Law Offices of J. Drew Page, and Pivox Corp., TRC: Katz & Associates, Inc., CD&E, Rosenblum Environmental, Eggers Environmental, Integrated Hydro Systems, LLC, HDR Engineering, Inc., Southwest Hydro-Logic, Torres-Martinez Indian Tribe, Twenty-Nine Palms Indian Tribe, USBLM, USBOR, USDOI and their consultants KMPower and Summit Technical Resources, USEPA, and USFWS

April 19, 2017 – Consultative Work Group Face-to-Face Meeting

Notified and Invited: ADEQ, CRWQCB, CIT, Coachella Valley Water District, Cocopah Indian Tribe, CRIT, CRB, DTSC and their consultants ESA, FMIT and their consultants Law Office of Courtney Coyle, The McDonald Law Firm, & H&A, Fort Yuma-Quechan Indian Tribe, Hualapai Indian Tribe, ndian Health Services (IHS), MWD and their consultants Geopentech, Mohave County DPH, PG&E and their consultants CH2M Hill, Arcadis, Law Offices of J. Drew Page, and Pivox Corp., TRC: Katz & Associates, Inc., CD&E, Rosenblum Environmental, Eggers Environmental, Integrated Hydro Systems, LLC, HDR Engineering, Inc., Southwest Hydro-Logic, Torres-Martinez Indian Tribe, Twenty-Nine Palms Indian Tribe, USBLM, USBOR, USDOl and their consultants KMPower and Summit Technical Resources, USEPA, and USFWS

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ATTACHMENT C – Invitees to Sub-Committee Meetings

July 19, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: Chemehuevi Indian Tribe (CIT), Cocopah Indian Tribe, Colorado River Indian Tribes (CRIT), Department of Toxic Substances Control (DTSC), Fort Mojave Indian Tribe (FMIT) and their consultant Hargis & Associates (H&A), Hualapai Indian Tribe; Metropolitan Water District (MWD), Pacific Gas & Electric (PG&E) & their consultants CH2M Hill and Arcadis, Regional Water Quality Control Board (RWQCB), TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), US Bureau of Land Management (BLM), US Bureau of Reclamation (BOR), US Department of Interior (DOI)

August 16, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), BLM, BOR, DOI

September 20, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), BLM, BOR, DOI

October 18, 2016 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), BLM, BOR, DOI

October 19-20, 2016 Geo/Hydro Technical Workgroup Face-to-Face Meeting and Site Walk

Notified and Invited: Arizona Department of Environmental Quality (ADEQ), California Regional Water Quality Control Board (CRWQCB), CIT, Coachella Valley Water District, Cocopah Indian Tribe, CRIT, Colorado River Board (CRB), DTSC and their consultants Environmental Science Associates (ESA), FMIT and their consultants Law Office of Courtney Coyle, The McDonald Law Firm, & Hargis & Associates (H&A), Fort Yuma-Quechan Indian Tribe, Groundwater Partners, Hualapai Indian Tribe, Indian Health Services (IHS), MWD and their consultants Geopentech, Mohave County DPH, PG&E and their consultants CH2M Hill, Arcadis, Law Offices of J. Drew Page, and Pivox Corp., TRC: Katz & Associates, Inc., CD&E, Rosenblum Environmental, Eggers Environmental, Integrated Hydro Systems, LLC, HDR Engineering, Inc., Southwest Hydro-Logic, Torres-Martinez Indian Tribe, Twenty-Nine Palms Indian Tribe, USBLM, USBOR, USDO I and their consultants KMPower and Summit Technical Resources, US Environmental Protection Agency (USEPA), and US Fish and Wildlife Services (USFWS)

November 15, 2016 – Clearinghouse Task Force Phone/WebEx Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), BLM, BOR, DOI

January 17, 2017 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env., EN3 Professionals, LLC), BLM, BOR, DOI

March 14, 2017 – Clearinghouse Task Force Phone/WebEx Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env.), BLM, BOR, DOI

April 18, 2017 – Clearinghouse Task Force Face-to-Face Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, RWQCB, TRC Members (CDE Inc, Eggers Env.), BLM, BOR, DOI

May 16, 2017 – Clearinghouse Task Force Teleconference Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRWQCB, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, TRC Members (CDE Inc, Eggers Env.), BLM, BOR, DOI

June 20, 2017 – Clearinghouse Task Force Teleconference Meeting

Notified and Invited: CIT, Cocopah Indian Tribe, CRWQCB, CRIT, DTSC, FMIT and their consultant H&A, Hualapai Indian Tribe; MWD, PG&E & their consultants CH2M Hill and Arcadis, TRC Members (CDE Inc, Eggers Env.), BLM, BOR, DOI