# Midway Sunset II (Tulare) Conduit Analysis

| Problem well Identification Goals | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 |
|---|---|---|---|---|---|---|---|---|---|
| MWSS - Idle and Plugged wells review. Data submission to CalGEM | | | | | | | | | |
| MWSS - CalGEM Review | | | | | | | | | |
| MWSS - WaterBoard Review | | | | | | | | | |

*Conduit Analysis Status*: **On Track**

*Current Activities:*

**January 4, 2022:** CalGEM received first batch of 31 wells from operators.

**January 28, 2022:** CalGEM shares preliminary data with WB.

**February 2, 2022:** CalGEM met with WB to discuss the beneficial use water identification and it was determined that all formation above the Antrioola Clay to be identified as beneficial water.

**February 9, 2022:** CalGEM review of 31 wells conduit analysis completed and feedback provided to Operators regarding the identification of the depth of beneficial water and documentation supporting idle well management plan and testing plan.

**February 15, 2022.** Operator responded to request of the beneficial water depth.

**February 16, 2022:** CalGEM received second batch of remaining 85 wells.

**February 25, 2022:** CalGEM returned the package to Operators for additional updates (85 wells). 'Operator Evaluation' portion was not completed for the 'Idle Wells' and 'P&A Wells' tab . We noticed it had been filled out for the first round of wells yet not included for the second-round of analysis. We will need the operators to fill out this Operator Evaluation portion of the conduit analysis before proceeding. In addition, correction to some well bore diagrams and cement calculations sheet need to be made. So far CalGEM have completed review of 25% of the wells.

**March 14th, 2022:** Per conversation with Operators , the corrections have been made , awaiting a review by them and professional stamp.

*Anticipated Next Steps :*

- CalGEM to review the remaining 85 wells for conduit analysis by March 31, 2022.
- CalGEM to submit 116 wells to WB for review by beginning of April 2022.

# Kern River Conduit Analysis

California Department of Conservation

| Problem well Identification Goals | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Meeting with Operators | | | | | | | | | | | |
| Kern River - Idle and Plugged wells review. Data submission to CalGEM | | | | | | | | | | | |
| Kern River - CalGEM Review | | | | | | | | | | | |
| Kern River - Water Board Review | | | | | | | | | | | |

*Conduit Analysis Status:* **On Track**

*Current Activities:*

**November 23, 2021:** WB defined the approximate extent of the beneficial use aquifers overlying the proposed aquifer exemption area at Kern River. This estimate is based on information shown on the cross-sections provided by Chevron as part of the aquifer exemption proposal.

**January 27, 2022:** Operator submitted draft copy of the 81 well conduit analysis for CalGEM input.

**February 2, 2022:** CalGEM met with WB to discuss the beneficial use water identification and it was determined that all formation above the C sit to be identified as beneficial use water. Provided the feedback to the operator.

**February 10, 2022 :** Received final copy of data for the 81 wells from Operator. Shared preliminary data with WB.

**February 16, 2022 :** CalGEM completed review of 21 wells. Chevron is using "Base of Overlying USDW" to note the bottom of the aquifer above the AE Interval. Nomenclature shared with WB and will review and respond.

March 9th, 2022: review of 77 wells (95%) completed. Currently performing deep dive of 20% wells. Two wells 35H (04103062881) and 34H (04103062884) identified on list have only conductor set at around 40', however not drilled to a target depth of 2700'.Operator confirms , the wells are in que for pulling out the conductor and site restoration.

March 15th, 2022: CalGEM review staff will meet and discuss on 15th March. So far 13 wells are identified for further review. Within the 13 wells , 2 wells (idle) are leased by CRC and 11 wells are owned by Chevron.

*Anticipated Next Steps :*

- CalGEM to complete review of remaining 60 wells by March 31, 2022.
- CalGEM to submit data to WB by beginning of April 2022.

# Mt Poso Dorsey Conduit Analysis

California Department of Conservation

| Problem well Identification Goals | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Meeting with Operators | | | | | | | | | | | |
| Mount Poso - Idle and Plugged wells review. Data submission to CalGEM | | | | | | | | | | | |
| Mount Poso - CalGEM Review | | | | | | | | | | | |
| Mount Poso - WaterBoard Review | | | | | | | | | | | |

Conduit Analysis Status: **Complete- CalGEM and WB concur on results. 5 of 6 wells identified as problematic. 1 well meets standards.**

Current Activities:

**December 20 2021**: CalGEM received comments from WB on Mt Poso Dorsey application. Feedback shared with Operators.

**January 20, 2022:** Operators have approached CalGEM with a series of modifications would like to make to the Mount Poso Dorsey Aquifer Exemption application. The map from Operator showing a modified proposal area which has been reduced from ~ 260 acres to ~ 144 acres. Additionally, Operators committed to providing a written plan for future waterflood development which they suggest will enhance oil recovery in this part of the field. Operator has been in communication with Kern Groundwater Authority and its impacts to the sustainability of the Kern Subbasin under SGMA.
**February 1, 2022**: Discussion with WB on the revised areas proposed by Operator.
**February 7, 2022**: Provided feedback to Operator on requirements for project conversion from Water disposal to Water Flood, data supporting fault confinement and fluid containment within the Upper Vedder formation.
**Feb 22 ,2022**: Received the revised application. Completed initial review and shared with WB on 28th Feb 2022.
**March 7th, 2022**: Verbally conveyed to the Operator regarding issues with AOR radius of the well Mon 760 (029-73394) being outside the AE boundary and need to cease injection.

Anticipated Next Steps :

- Internal meeting with CalGEM operation group, and HQ in implementing cease injection in Mon 760(029-73394) well near the boundary and having the Operator implement measures so that AOR does not expand the current AE boundary.
- Send cease injection letter to Operator.

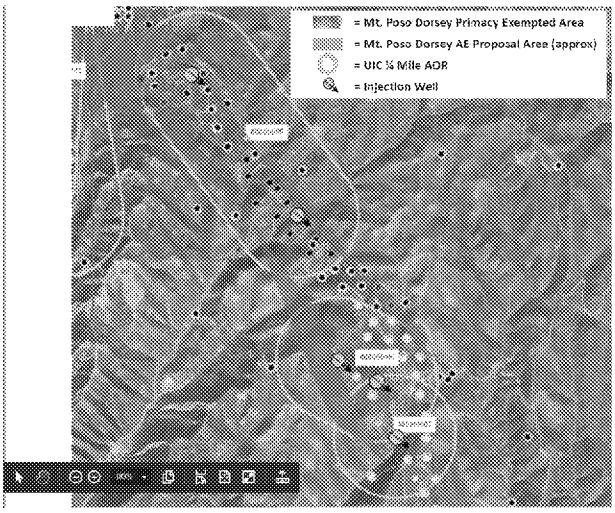
## Revised Mt Paso AE area

Modified proposal area which has been reduced from ~ 260 acres to ~ 144 acres.

AOR of the injection wells falls outside the current AE boundary.

The proposal is to convert from WD to WF.

No change to Conduit analysis.



# Aquifer Exemption Proposal Status

## *Lynch Canyon*

| AE Application | EPA reviews technical information and supporting data. EPA makes a ruling in the aquifer exemption status |
|---|---|
| Lynch Canyon - Lanigan | Dec-21 |

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: Northern District will complete revisions from HQ and SWB comments and work with US EPA to finalize document, including the "Uduak Letter".

# Aquifer Exemption Proposal Status

*Sespe*

| AE Application | CalGEM send AE application package to EPA | EPA reviews technical information and supporting data. EPA makes a ruling in the aquifer exemption status |
|---|---|---|
| Sespe | | Apr-22 |

# Aquifer Exemption Proposal Status

*Lompoc*

| AE Application | EPA preliminary review | Public review and comment on the Aquifer exemption proposal |
|---|---|---|
| Lompoc | Dec-21 | Feb-22 |

: Public hearing scheduled for April 12 (5:30 –

# Aquifer Exemption Proposal Status

*Holser*

| AE Application | Public review and comment on the Aquifer exemption proposal | State agencies review and address comments and concerns illuminated through public scrutiny |
|---|---|---|
| Holser | Feb-22 | Aug-22 |

: Public hearing set for March 29 (5:30 –

# Oxnard Conduit Analysis

| Problem well identification Goals | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 |
|---|---|---|---|---|---|---|---|---|---|
| Oxnard - Operator's Idle and Plugged wells review. Data submission to CalGEM | | | | | | | | | |
| Oxnard - CalGEM Review | | | | | | | | | |
| Oxnard - WaterBoard Review | | | | | | | | | |

*Conduit Analysis Status*: **Behind Schedule 2 months**

*Current Activities:*

**December 1, 2022**: CalGEM met with operators to discuss the Conduit Analysis

**January 2022**: Northern District dedicates a Sacramento office AOGE to review the Conduit Analysis.

**February 2022**: Northern District AOGE is looking at the wells not associated with active operator.

**March 3, 2022:** Received 10 WBDs and cement calculations from CalNRG. Northern District AOGE has completed review and development of all data for 11 wells associated with non-Active operators.

*Anticipated Next Steps* :

- CalGEM HQ has drafted a letter to suspend injection into the steam injection projects for the Oxnard field. Northern District will review and once it is approved, it will be sent to CalNRG and Peak (non-responsive operator). The letter will suspend injection until the project is updated to be compliant with all CalGEM regulations and with the Safe Drinking Water Act.

# Cat Canyon Conduit Analysis

California Department of Conservation

| Problem well Identification Goals | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Apr-22 | May-22 | Jun-22 | Jul-22 | Aug-22 | Sep-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Meeting with Operators | | | | | | | | | | | |
| Cat Canyon - Idle and Plugged wells review. Data submission to CalGEM | | | | | | | | | | | |
| Cat Canyon - CalGEM Review | | | | | | | | | | | |
| Cat Canyon - WaterBoard Review | | | | | | | | | | | |

*Conduit Analysis Status*: **On Track**

*Current Activities:*

**February 11, 2022**: Over 50% of the operator supplied data has been submitted. Only Cat Canyon Resources has data left to supply.

**March 7, 2022:** Final submission of WBDs from Cat Canyon Resources submitted.

**March 14, 2022:** Requests for updates/corrections and outstanding deliverables sent to active Cat Canyon operators.

- 38 deep dive reviews have been completed by Northern District AOGEs.
- None of the operators have submitted a signed cover letter, map of wells, or discussion of BFW/USDW picks. Many of the WBDs have incorrect, missing, and/or incomplete information. Conduit review table has incorrect, missing, and/or incomplete information.
- 4 of the 5 active operators have not submitted the cement calculation spreadsheet.
- Team Operating has only provided information on idle wells.

*Anticipated Next Steps :*

- Northern District will continue developing data for non-Active operator wells.
- Once operator packages are complete, they will be shared with State and Regional Water Boards for review.