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From: Zachariasen, Judith@DOC <Judith.Zachariasen@conservation.ca.gov>
Sent: Thursday, March 2, 2023 3:03 PM
To: DWR Searsville Restoration Project
Cc: OLRA@DOC; OPR State Clearinghouse
Subject: RE: Searsville Watershed Restoration Project public comment SCH 2023020346

To Department of Water Resources:

The California Geological Survey (CGS) has received the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for Searsville Watershed Restoration Project. This email conveys the following recommendations from CGS concerning geologic issues related to the project area:

1. Fault Rupture Hazard

Part of the project area, including Searsville Reservoir, is located within an earthquake zone of required investigation (ZORI) for surface fault rupture associated with the San Andreas fault mapped by CGS. The DEIR and supporting documents should address this hazard as it relates to the design of the proposed structures. Additional information is available at the links below:

<https://maps.conservation.ca.gov/cgs/EQZApp/app/>

<https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>

2. Liquefaction and Landslide Hazards

CGS has published an Earthquake Zones of Required Investigation Map (EZRIM) for liquefaction and landsliding covering the Palo Alto quadrangle, which includes the project area. The EZRIM can be viewed here:

<https://maps.conservation.ca.gov/cgs/EQZApp/app/>

The Seismic Hazard Zone Reports, EZRIM, and associated GIS data are available for download here:

<https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>

CGS suggests the DEIR should note that zones of required investigation for liquefaction and landsliding are mapped within the project area and should consider providing figures displaying the extent of these hazard zones.

3. Ground Shaking Hazards

The project area is located in an area that could experience significant ground shaking in the event of an earthquake on a nearby fault. The DEIR and supporting documents should address this hazard as it relates to the design of the proposed structures. Additional information about ground shaking hazard can be obtained at the following sites:

<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=14d2f75c7c4f4619936dac0d14e1e468>

<https://earthquake.usgs.gov/scenarios/catalog/bssc2014/>

If you have any additional comments or questions, please feel free to call or email.

Thank you,
Judy Zachariasen



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