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From: Zachariasen, Judith@DOC <Judith.Zachariasen@conservation.ca.gov>
Sent: Monday, August 21, 2023 4:35 PM
To: mpoynter@cityofirvine.org
Cc: OPR State Clearinghouse; OLRA@DOC
Subject: Irvine 2045 Focused General Plan Update - SCH #2023070463



Dear Marika Poynter,

The California Geological Survey (CGS) has received the Notice of Preparation of a Program Environmental Impact Report (Program EIR) for the Irvine 2045 General Plan Update. This email conveys the following recommendations from CGS concerning geologic issues related to the project area:

1. Liquefaction and Landslide Hazards

The project area encompasses earthquake zones of required investigation (ZORI) for liquefaction and landslides mapped by CGS. CGS has published Earthquake Zones of Required Investigation Maps (EZRIM) for liquefaction and landsliding covering the Tustin, Lake Forest, and Laguna Beach quadrangles, all of which affect the City of Irvine and the project area. The Program EIR and supporting documents should address this hazard as it relates to project development.

The combined extent of these EZRIM can be viewed here:

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

Individual 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 hazard and the zones of required investigation for liquefaction and landsliding be shown and discussed in the Program EIR.

2. Ground Shaking Hazards

The project area is not located in an Earthquake Fault Zone mapped by CGS. However, several active faults are nearby, and the site could be subject to significant ground shaking. The Program EIR and supporting documents should address this hazard as it relates to the project development. 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



Judith Zachariasen, PhD, PG, CEG

Senior Engineering Geologist
Fault Zoning Unit Supervisor
Seismic Hazards Program
California Geological Survey

California Department of Conservation

715 P Street, MS 1900, Sacramento, CA 95814

T: (916) 879-2844

E: judith.zachariasen@conservation.ca.gov