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**Subject:** Cornfield Arroyo Seco Specific Plan Update  
**Date:** Thursday, August 17, 2023 2:01:25 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)

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**SCH Number**

2021040206

**Lead Agency**

City of Los Angeles

Governor's Office of Planning & Research

**Document Title**

Cornfield Arroyo Seco Specific Plan Update

**Aug 17 2023**

**Document Type**

EIR - Draft EIR

**STATE CLEARINGHOUSE**

**Received**

7/19/2023

Hello, Michael—

Thank you for providing the City's Cornfield Arroyo Seco Specific Plan Update for review. This email conveys the following recommendations from CGS concerning geologic and seismic hazard issues within the Specific Plan documents:

1. Liquefaction and Landslide Hazards

The Specific Plan discusses liquefaction and landsliding as a potential seismic hazard. It mentions much of the project area is in "a liquefaction zone" (page 4.6-3) and the slopes bordering the northern edge of the project area are "designated as landslide zones" (page 4.6-5); however, it is not clear what the source of these zones are. The City should supplement this section with a discussion of the existing Earthquake Zones of Required Investigation (EZRI) for both liquefaction and earthquake-induced landsliding established by CGS for this area and consider providing figures depicting the locations of both types of zones.

CGS maps and data are available here:

[https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?](https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps)

[map=regulatorymaps](#)

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

<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-liquefaction-zones-1/about>

<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-landslide-zones-doc-hosted/about>

Cities and counties affected by EZRI must regulate certain development projects within them. The Seismic Hazards Mapping Act (1990) also requires sellers of real property (and

their agents) within a mapped hazard zone to disclose that the property lies within such a zone at the time of sale.

## 2. Earthquake Ground Motion Hazards

The Specific Plan might consider providing a discussion of the probability of large earthquakes in the region. This discussion may include earthquake probabilities from the third Uniform California Earthquake Rupture Forecast (UCERF3). A non-technical discussion of this model is available here:

<https://pubs.usgs.gov/fs/2015/3009/pdf/fs2015-3009.pdf>



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*"A team is not a group of people who work together.*

*A team is a group of people who trust each other." – Simon Sinek*

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