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**From:** Frost, Erik@DOC <Erik.Frost@conservation.ca.gov>  
**Sent:** Friday, August 14, 2020 10:29 AM  
**To:** Adame, Vanessa@DOC; OPR State Clearinghouse  
**Subject:** CEQA comments - SCH # 2020070348

8/17/2020

Vanessa,

Governor's Office of Planning & Research

**Aug 14 2020**

I provided comments to the City of Milpitas via an email letter (below).

## STATE CLEARINGHOUSE

### Dr. Erik Frost

Senior Engineering Geologist | Seismic Hazards Program

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**From:** Frost, Erik@DOC  
**Sent:** Friday, August 14, 2020 10:26 AM  
**To:** jgarner@ci.milpitas.ca.gov  
**Subject:** Comments - NOP for Milpitas General Plan Update

Ms. Garner,

The California Geological Survey (CGS) has received the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for the City of Milpitas General Plan Update. This letter conveys suggestions and recommendations from the California Geological Survey concerning geologic and soils issues related to the planning area.

CGS recommends the DEIR address the following items and issues within the planning area:

1) Geologic Hazards

Numerous potential geologic hazards exist within the City of Milpitas planning area. Each of the hazards listed below should be addressed in the DEIR.

a. *Liquefaction and Landslide Hazards*

CGS has completed seismic hazard zone mapping for the Milpitas and Calaveras Reservoir 7.5-minute Quadrangles and Earthquake Zones of Required Investigation for liquefaction and landslide hazards have been delineated within the City of Milpitas planning area. Digital versions of these maps (PDF and Shapefiles) and associated reports can be downloaded from the CGS Information Warehouse, here: <http://maps.conservation.ca.gov/cgs/informationwarehouse/> or accessed as web interactive maps, here: [https://spatialservices.conservation.ca.gov/arcgis/rest/services/CGS\\_Earthquake\\_Hazard\\_Zones](https://spatialservices.conservation.ca.gov/arcgis/rest/services/CGS_Earthquake_Hazard_Zones).

CGS has also mapped multiple landslides within the City of Milpitas project area. These mapped features can be viewed at CGS's landslide inventory, here: <https://maps.conservation.ca.gov/cgs/lsi/>

b. *Faulting Hazards* – CGS has established Earthquake Fault Zones within and nearby the City of Milpitas planning area. Specifically, the Hayward fault traverses the planning area. Digital versions of these maps (PDF and Shapefiles) and associated reports can be downloaded from the CGS Information Warehouse, here: <http://maps.conservation.ca.gov/cgs/informationwarehouse/>

c. *Ground Shaking Hazards* – The City of Milpitas planning area is located near many active faults capable of producing severe ground shaking during an earthquake. The DEIR should include a discussion of nearby active faults and the relative likelihood of the planning area to experience

strong ground shaking. The earthquake shaking potential for various regions in California can be viewed at the following website: <https://www.conservation.ca.gov/cgs/psha>.

2) Regional and Site-Specific Geology

The DEIR should include a brief discussion of the geologic history of the area and a description of the rock types in the planning area. CGS recommends reviewing the following map:

*Wentworth, C.M., Blake Jr., M.C., McLaughlin, R.J., and Graymer, R.W., 1999, Preliminary Geologic Map of the San Jose 30' x 60' quadrangle, California: a digital database, available at: <https://pubs.usgs.gov/of/1998/of98-795/>*

3) Soils

The DEIR should consider including a summary on the types of soils present in the planning area and a discussion of the soil characteristics pertinent to development, such as source material, geographic setting, drainage characteristic, permeability, and the risk of erosion and soil expansion. The Natural Resources Conservation Service has an interactive soil map available at the following website:

<https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

Please let me know if you have any questions or concerns.

Erik

**Dr. Erik Frost**

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