

**From:** slow.andsteady@mail.com  
**Sent time:** 08/31/2020 09:21:48 AM  
steve.bohlen@conservation.ca.gov; wade.crowfoot@resources.ca.gov; David.Shabazian@conservation.ca.gov;  
**To:** Tim.McCrink@conservation.ca.gov; Janis.Hernandez@conservation.ca.gov; smgb@conservation.ca.gov; xavier.becerra@doj.ca.gov;  
assemblymember.bloom@assembly.ca.gov; Mindy.Nguyen@lacity.org; luciralia.ibarra@lacity.org; vince.bertoni@lacity.org;  
mitch.ofarrell@lacity.org; david.ryu@lacity.org; emma.howard@lacity.org; Osama.Younan@lacity.org  
**Cc:** Rong-Gong.Lin@latimes.com; dakota.smith@latimes.com; emily.alpert@latimes.com  
**Subject:** Hollywood Center Project  
**Attachments:** MsNyugenletter.pdf

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Dear Ms. Nguyen and state and city officials,

I am writing this to you for the record in this case. I listened in to the city's August 26 telephone hearing that lasted several hours.

I am very upset about the developer's dishonest attack on the California Geological Survey's July 16 letter concerning the Hollywood Center project.

After going to the developer's website, I located an offensive August 25 letter Millennium Partners wrote to CGS last week. Millennium's letter is built on a foundation of lies and threats.

I don't understand how Millennium is claiming that CGS is biased or careless or whatever they want to concoct to slur a state agency that has nothing to gain from the Hollywood Center project one way or the other. And why is Millennium only claiming it now, nearly a month and a half after CGS's letter?

What I read in CGS's emails that you posted online with their July 16 letter (Attached are all 13 pages) shows how CGS, at numerous levels of review, spent tremendous time to thoroughly consider and finalize their July 16 comment letter on the draft EIR.

I was happy to see in those emails that the Secretary of the Natural Resources Agency, Wade Crowfoot, and the director of the Department of Conservation, David Shabazian, were included, and that Mr. Crowfoot personally reviewed and approved the CGS's final letter.

Some comments that Acting State Geologist Mr. Bohlen emailed to Mr. Crowfoot about Mr. Bohlen's conversation with LA city planning director Vince Bertoni were,

"2. . . . I wanted to review CGS's authorities, CEQA review process, and evaluate the scientific information before acting."

"3. In keeping with CGS process for CEQA review, because of the project size, construction materials, risk to public safety and the publication of relevant new scientific information, the CGS has prepared comments based on its evaluation of the scientific information forthcoming since the publication of the AP Map (FER 253) which encompasses the Hollywood

Center site."

"4. The CGS letter summarizes our assessment of the recent scientific studies and information, and the letter addresses CGS's concern of the likelihood of active strands of the Hollywood fault near and under the Hollywood Center site."

and Mr. Bohlen's summary of Mr. Bertoni's comments,

"1. He was pleased that I called to explain what I had done since my arrival at CGS to review authorities, CEQA process, etc., and the science prior to making any decisions to move forward."

“2. Welcomed us sending the letter, and hoped that we would send it soon.”

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“5. Indicated his strong desire to have science help with the decision and welcomed our analysis.”

I am grateful for the care that the CGS put into their July 16 letter to the city, even having the highest officials in Sacramento’s approval.

I have shared the CGS emails and letter so others better understand how critical these seismic issues are and how CGS, the Natural Resources Agency, and the Department of Conservation all worked to ensure public safety and transparency.

Speaking of transparency, I checked, but don’t now see the CGS emails in the city record the way Ms. Nguyen posted them around mid-late July. There’s a more recent posting on July 30, but that version doesn’t include the CGS emails. I thought documents submitted into the record are not allowed to be removed or tampered with. I’ve included the original 13 pages to make sure its in the record. (Of course if you’re able to find that first version, please make it easy to find again).

I hope CGS and its superiors won’t in any way cave in to Millennium’s lies and intimidation tactics.

Millennium thinks we forgot about their sinking tower in San Francisco! They should not be allowed to cheat and endanger innocent lives.

Sincerely,

A concerned citizen and her neighbors

MsNyugenletter.pdf

August 31, 2020

Hollywood Center Project  
ENV-2018-2116-EIR

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- “3. Welcomed my offer to send him a heads up that the letter would be sent just prior to it being sent.”
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Millennium thinks we forgot about their sinking tower in San Francisco! They should not be allowed to cheat and endanger innocent lives.

Sincerely,  
A concerned citizen and her neighbors

**From:** Bohlen, Steve@DOC <Steve.Bohlen@conservation.ca.gov>  
**Sent time:** 07/17/2020 09:20:28 AM  
**To:** Mindy.Nguyen@lacity.org  
**Cc:** McCrink, Tim@DOC <Tim.McCrink@conservation.ca.gov>; Hernandez, Janis@DOC <Janis.Hernandez@conservation.ca.gov>  
**Subject:** CGS proposed CEQA comments RE: Call with Director of LA City Planning  
**Attachments:** CGS Comments on Hollywood Center Project DEIR FINAL 20200716.pdf

Dear Ms Nguyen,

Attached please find a letter signed and stamped by Tim McCrink and Janis Hernandez containing CGS comments on the DEIR for the Hollywood Center Project.

Please do not hesitate to call or email me if you have any questions.



## Steve Bohlen

Acting State Geologist

California Geological Survey

Department of Conservation

Mobile: 916-445-1923

801 K Street, MS 12-31, Sacramento, CA 95814

E: [Steve.Bohlen@conservation.cs.gov](mailto:Steve.Bohlen@conservation.cs.gov)



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**From:** Bohlen, Steve@DOC <[Steve.Bohlen@conservation.ca.gov](mailto:Steve.Bohlen@conservation.ca.gov)>  
**Sent:** Thursday, July 16, 2020 5:11 PM  
**To:** McCrink, Tim@DOC <[Tim.McCrink@conservation.ca.gov](mailto:Tim.McCrink@conservation.ca.gov)>; Hernandez, Janis@DOC <[Janis.Hernandez@conservation.ca.gov](mailto:Janis.Hernandez@conservation.ca.gov)>  
**Cc:** Halko, Lisa@DOC <[Lisa.Halko@conservation.ca.gov](mailto:Lisa.Halko@conservation.ca.gov)>; Newton, Jeff@DOC <[Jeff.Newton@conservation.ca.gov](mailto:Jeff.Newton@conservation.ca.gov)>; Haas, Clayton@DOC <[Clayton.Haas@conservation.ca.gov](mailto:Clayton.Haas@conservation.ca.gov)>; Shabazian, David@DOC <[David.Shabazian@conservation.ca.gov](mailto:David.Shabazian@conservation.ca.gov)>  
**Subject:** FW: CGS proposed CEQA comments RE: Call with Director of LA City Planning  
**Importance:** High

Janice and Tim,

The Secretary has approved the attached version of the letter, which has a few very minor changes from the previous draft. These clarifications were requested by the Secretary and are consistent with our process.

Please sign and stamp and provide me with a pdf.

In accord with the plan approved by the Secretary's Office, I will release to the city on behalf of CGS at 9 AM. PAO will release to the media after that.

I want to emphasize that any media inquiries need to be referred to PAO with no side conversations with the press or others.

Many thanks for your help and patience.

Steve

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**From:** Halko, Lisa@DOC  
**Sent:** Thursday, July 16, 2020 4:10 PM  
**To:** Bohlen, Steve@DOC <[Steve.Bohlen@conservation.ca.gov](mailto:Steve.Bohlen@conservation.ca.gov)>; Crowfoot, Wade@CNRA <[Wade.Crowfoot@resources.ca.gov](mailto:Wade.Crowfoot@resources.ca.gov)>; Baker, Matt@CNRA <[Matt.Baker@resources.ca.gov](mailto:Matt.Baker@resources.ca.gov)>; Calfee, Christopher@CNRA <[Christopher.Calfee@resources.ca.gov](mailto:Christopher.Calfee@resources.ca.gov)>

**Cc:** Haas, Clayton@DOC <[Clayton.Haas@conservation.ca.gov](mailto:Clayton.Haas@conservation.ca.gov)>; Shabazian, David@DOC <[David.Shabazian@conservation.ca.gov](mailto:David.Shabazian@conservation.ca.gov)>

**Subject:** CGS proposed CEQA comments RE: Call with Director of LA City Planning

**Importance:** High

For review and approval: revised letter showing Wade's edit and final changes.

All changes are on page 1.

-Lisa

PRIVILEGED AND CONFIDENTIAL  
ATTORNEY-CLIENT COMMUNICATION  
ATTORNEY WORK PRODUCT

Lisa L. Halko, Chief Counsel  
Department of Conservation  
DESK: 916-445-0624  
CELL: 916-591-8820

---

**From:** Bohlen, Steve@DOC <[Steve.Bohlen@conservation.ca.gov](mailto:Steve.Bohlen@conservation.ca.gov)>

**Sent:** Wednesday, July 15, 2020 3:23 PM

**To:** Crowfoot, Wade@CNRA <[Wade.Crowfoot@resources.ca.gov](mailto:Wade.Crowfoot@resources.ca.gov)>; Baker, Matt@CNRA <[Matt.Baker@resources.ca.gov](mailto:Matt.Baker@resources.ca.gov)>; Calfee, Christopher@CNRA <[Christopher.Calfee@resources.ca.gov](mailto:Christopher.Calfee@resources.ca.gov)>

**Cc:** Halko, Lisa@DOC <[Lisa.Halko@conservation.ca.gov](mailto:Lisa.Halko@conservation.ca.gov)>; Haas, Clayton@DOC <[Clayton.Haas@conservation.ca.gov](mailto:Clayton.Haas@conservation.ca.gov)>; Shabazian, David@DOC <[David.Shabazian@conservation.ca.gov](mailto:David.Shabazian@conservation.ca.gov)>

**Subject:** Call with Director of LA City Planning

Wade,

I had a positive and welcoming phone call with Vincent Bertoni, Director of City Planning for the City of LA.

I went through my talking points, which were:

1. We are preparing a letter to be sent to the planning department very soon with comments on the DEIR for the Hollywood Center project, and I am calling to give you a heads up that the letter will be coming and to highlight its contents.
2. I am sorry that CGS did not meet the deadline for the submission of comments, but as my appointment was official June 1, I wanted to review CGS's authorities, CEQA review process, and evaluate the scientific information before acting.
3. In keeping with CGS process for CEQA review, because of the project size, construction materials, risk to public safety and the publication of relevant new scientific information, the CGS has prepared comments based on its evaluation of the scientific information forthcoming since the publication of the AP Map (FER 253) which encompasses the Hollywood Center site.
4. The CGS letter summarizes our assessment of the recent scientific studies and information, and the letter addresses CGS's concern of the likelihood of active strands of the Hollywood fault near and under the Hollywood Center site.
5. We offer the opportunity for those in the city planning department and other interested parties to be briefed by the CGS and review the scientific information with CGS.

My summary of the Director's comments:

1. He was pleased that I called to explain what I had done since my arrival at CGS to review authorities, CEQA process, etc., and the science prior to making any decisions to move forward.
2. Welcomed us sending the letter, and hoped that we would send it soon.
3. Welcomed my offer to send him a heads up that the letter would be sent just prior to it being sent.
4. Likely would be interested in a briefing but wanted to wait to read the letter and have time to connect with staff.
5. Indicated his strong desire to have science help with the decision and welcomed our analysis.

I believe the call went well, and Mr. Bertoni expressed his interest in getting our letter.

If you, Matt and Chris are satisfied with the letter we reviewed on Friday, I recommend that we have the letter signed and stamped, and it be sent to the city planning department.

Steve



July 16, 2020

Mindy Nguyen  
City of Los Angeles, Department of City Planning  
221 North Figueroa Street, Suite 1350  
Los Angeles, CA 90012

**SUBJECT: Comments on the April 16, 2020 Draft Environmental Impact Report for proposed “Hollywood Center” project. State Clearinghouse Number SCH 2018051002.**

Dear Ms. Nguyen:

The Department of Conservation’s California Geological Survey (CGS) received the April 16, 2020 Notice of Completion and Availability of Draft Environmental Impact Report (DEIR) for the “Hollywood Center” development project, located near Yucca Street, Argyle Avenue, Ivar Avenue, and Vine Street, in the Hollywood Community Plan area of Los Angeles, CA 90028. This letter conveys comments from CGS regarding geologic and seismic conditions affecting the site, including new information not addressed in the DEIR.

Under state law, including the Alquist-Priolo Earthquake Fault Zoning Map Act<sup>1</sup>, the Seismic Hazards Mapping Act<sup>2</sup>, and Public Resources Code section 2201, CGS provides technical information regarding earthquake faults and other hazards to local governments. This includes publishing detailed earthquake fault maps and other hazard maps and continually reviewing new seismic-hazard data to inform local decision-making. CGS apprises local governments of new seismic information since those maps were published if it is aware that a local government is considering approval of action impacted by this new information.

Due to emerging scientific information near the project site, and the project’s height, construction materials, and proximity to active faults and densely populated urban areas, on September 24, 2018, CGS submitted comments in response to the notice of preparation of the DEIR. Our comments on the notice of preparation provided information on the 2014 CGS Fault Evaluation Report 253<sup>3</sup> and the related Earthquake

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<sup>1</sup> Pub. Resources Code §§ 2621-2630

<sup>2</sup> Pub. Resources Code §§ 2690-2699.6.

<sup>3</sup> <https://gmw.conservacion.ca.gov/shp/EZRIM/Reports/FER/253/>



Zones of Required Investigation Map (Hollywood Quadrangle), dated November 6, 2014<sup>4</sup>, (the 2014 Hollywood Fault Map); faulting and ground-shaking hazard information developed in 2015, after the 2014 Hollywood Fault Map; and older information that provided general geologic context such as rock formation and soil profiles not directly related to faulting.

After CGS commented on the NOP, and after the DEIR was published, the United States Geological Survey (USGS) on May 8, 2020, issued a new, peer-reviewed analysis of the Hollywood Fault zone in the immediate area of this proposal.<sup>5</sup> The 2020 USGS analysis analyzed multiple seismic datasets and models, all of which consistently infer near-surface fault traces of the Hollywood Fault in the same locations. Importantly, the combined data indicate that more than one near-surface fault trace of the Hollywood Fault crosses the proposed project site. Based on the project's proximity to these fault traces, as well as the proposed development's height, construction materials, and location in a densely populated area, CGS staff determined that this new information is important to convey through comment on this DEIR. CGS summarizes findings from these new studies below and assesses how the USGS study, and other studies conducted after the 2014 Hollywood Fault Map, affect the consideration of seismic risk of the proposed development.

1. **Fault traces depicted in CGS's 2014 Hollywood Fault Map do not appear in Appendix G-1's figures of the project site** where locations of their subsurface investigations are presented. Therefore, we attach a figure showing both the location of traces as shown on the 2014 Hollywood Fault Map and the areas of investigation reported in Appendix G-1 (**Figure 1**). (DEIR Appendix G-2 shows the location of the fault trace at a lower level of resolution.) We note below that Figure 1 reflects new information indicating the active fault, which was not cleared by either the 2014 trench or the other investigative techniques reflected in Appendix G-1.
2. **The 2020 USGS study, and other studies that post-date CGS's 2014 Hollywood Fault Map, strongly suggest an active strand of the fault crosses the project site.** CGS considered the 2020 USGS study in light of other studies conducted after the 2014 Hollywood Fault Map. These studies are listed at the end of this letter and, for your convenience, are also available on CGS' FTP server ([FTP Link](#)). These studies, conducted east of the project site, postdate the studies included as Appendix G-1 to the DEIR, and are therefore new information of importance to public safety. These studies strongly support the presence of an active southern fault strand entering the eastern Hollywood Center property in the vicinity of the alley at Argyle, south of the

<sup>4</sup> [https://gmw.conservation.ca.gov/SHP/EZRIM/Maps/HOLLYWOOD\\_EZRIM.pdf](https://gmw.conservation.ca.gov/SHP/EZRIM/Maps/HOLLYWOOD_EZRIM.pdf)

<sup>5</sup> Catchings, et al., 2020, 2018 U.S. Geological Survey–California Geological Survey fault-imaging surveys across the Hollywood and Santa Monica Faults, Los Angeles County, California: U.S. Geological Survey Open-File Report 2020–1049, 42 p., <https://doi.org/10.3133/ofr20201049>

fault trench excavated in 2014 as described in Appendix G. Based on these studies, CGS expects to revise the Hollywood Earthquake Fault Zone Map within the next two years by extending the southern strand of the Hollywood Fault further east from where it is currently mapped.

In light of the 2020 USGS study and others referred to above regarding the seismic fault near the proposed development, CGS has assessed whether geotechnical analysis performed as part of the DEIR effectively addresses risks identified within this new information. CGS finds the following limitations in geotechnical analysis of the site given this new information:

3. **The fault trench excavated in 2014 did not clear the entire site of active faults.** Based upon review of the information presented in Appendix G-1 of the DEIR, the GDC trench on the east property did not completely expose the base of the Holocene-age geologic section across the north-south extent of the site and therefore cannot be considered to exclude the presence of an active fault at or near where it is depicted in CGS's 2014 Hollywood Fault Map, or in the more recent studies mentioned above.
  
4. **Other fault investigation techniques used on the site are not definitive in clearing the site of active faults.** Based on review of the information presented in Appendix G-1 of the DEIR, the fault studies prepared for the proposed Hollywood Center Project, both east and west properties, primarily rely upon subsurface investigations conducted by Cone Penetration Testing (CPT) and small-diameter boreholes. While these types of investigations can provide beneficial information, they are subject to ambiguous interpretations, particularly regarding the activity of faulting because geologists cannot clearly see which stratigraphic horizons are cut by a fault. A third-party review of the geologic studies conducted for the Hollywood Center Project (see Earth Consultants International, Project No. 3425, June 3, 2015; [FTP Link](#)), which was not included in Appendix G-1 of the DEIR, acknowledges the limitations of the project CPT and borehole subsurface investigations, including unresolvable errors in the re-survey efforts of these data locations. The third-party review also presents multiple possible interpretations of the locations and activity of the faults under the site (ECI, 2015, Plate 4), including an interpretation showing the distinct possibility that the southern strand of the Hollywood Fault is active beneath the project site (ECI, 2015, Plate 4, Interpretation A). CGS understands the project proponents report the project site is underlain by older stratigraphy, capped by Holocene age deposits (<11,700 years old). In their interpretation of boreholes and CPT's, they have postulated the faulting they have identified does not extend into the Holocene units. CGS' interpretation of the CPT and borehole data finds the fault can be drawn to extend into the Holocene units, such as Scenario A in the ECI report. These differing interpretations of fault activity along the southern strand are because only

indirect data from the CPT's and boreholes are available. CGS recognizes these uncertainties can only be resolved by fault trenching, which allows direct observations of subsurface geologic relationships and the ability to sample geologic materials for chronologic dating (see Section 5.4 of CGS Special Publication 42; [https://www.conservation.ca.gov/cgs/Documents/SP\\_042.pdf](https://www.conservation.ca.gov/cgs/Documents/SP_042.pdf))

5. **Fault investigations are incompatible with construction excavation.** Appendix G-1 of the DEIR indicates that conditional approval of the geologic report was granted in July 2015. The main condition stipulated by the conditional approval is that the project engineering geologist observe basement excavations during site construction and inform the City's Grading Division if evidence of active faulting is observed. As noted in CGS Special Publication 42 (see pages 32-33), fault trench investigations require detailed, time-intensive analyses of vertical sections of geologic materials. If fault investigations are not completed prior to final project design and approval, these practices may be compromised by typically efficient construction practices.

In conclusion, further assessment of the southern strand of the Hollywood Fault, following, for example, best practices outlined in CGS Special Publication 42 as discussed above, is important to adequately understand seismic risks of the proposed development in light of recently available information.

Please let us know if you have any questions regarding these comments. CGS is available for consultation with the City on evaluating fault activity and other seismic hazard issues.

Sincerely,



Janis L. Hernandez  
Senior Engineering Geologist, PG #7237, CEG #2260  
California Geological Survey  
320 W. 4th Street, Suite 850, Los Angeles, CA 90013



Timothy McCrink  
Supervising Engineering Geologist PG #4466, CEG #1549  
California Geological Survey  
801 K Street, MS 12-3, Sacramento, CA 95814



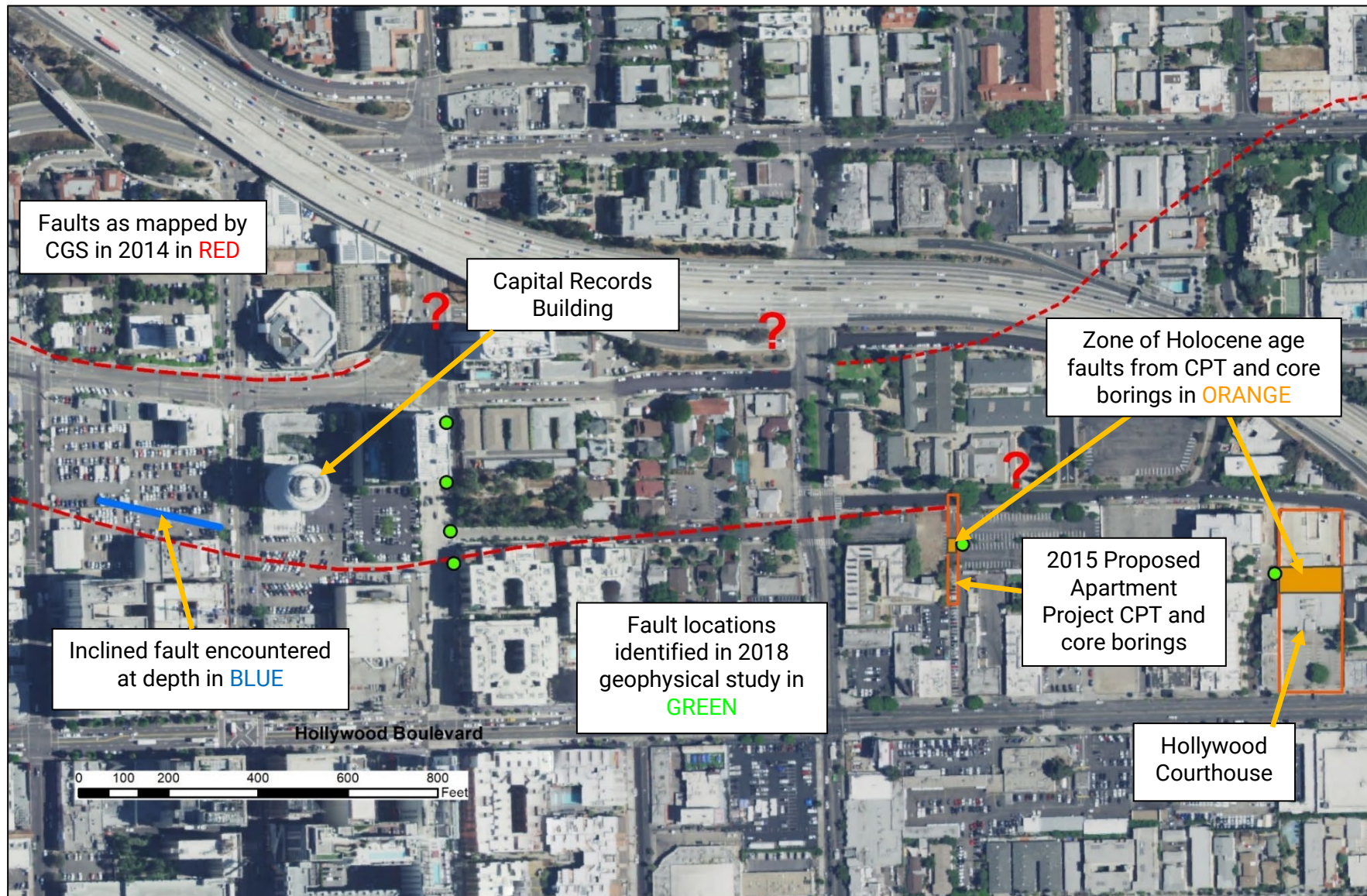
## Attachments:

Figures 1 and 2

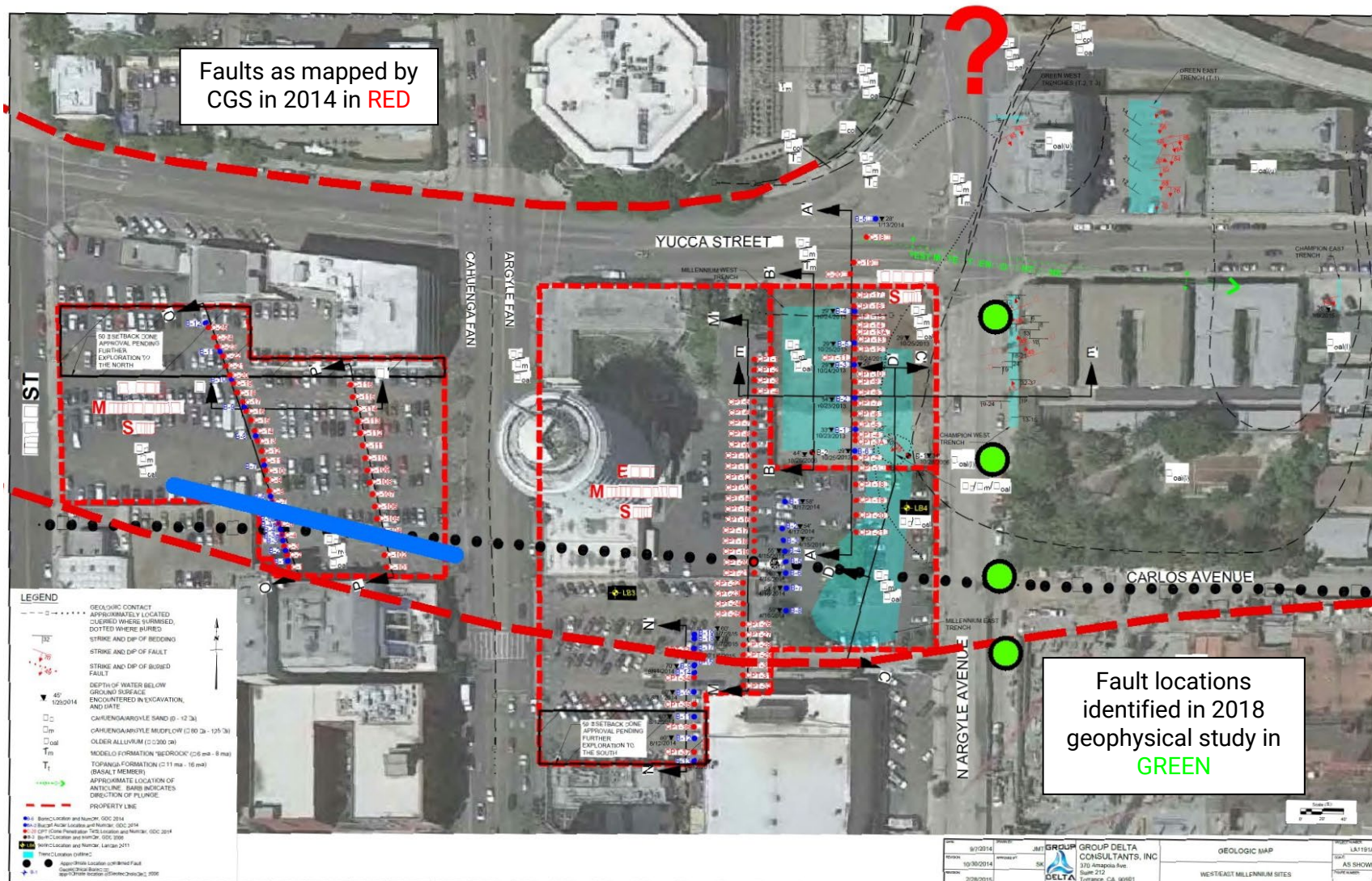
CGS Comments on the scope and content on the NOP for the Environmental Impact Report for the "Hollywood Center" project, September 24, 2018.

References cited ([FTP Link](#)):

- Catchings, R.D., Hernandez, J., Goldman, M.R., Chan, J.H., Sickler, R.R., Olson, B., and Criley, C.J., 2020, 2018 U.S. Geological Survey–California Geological Survey fault-imaging surveys across the Hollywood and Santa Monica Faults, Los Angeles County, California: U.S. Geological Survey Open-File Report 2020–1049, 42 p., <https://doi.org/10.3133/ofr20201049>.
- City of Los Angeles Department of Building and Safety, Grading Division, 2015, Geology Report Correction Letter, Log # 88174, Soils/Geology File – 2 AP, Tract 2058, lot 26, 6044 Carlos Avenue., reference report LA-1230, dated April 28, 2015 by Group Delta.
- Earth Consultants International, Response to Request from the City of Los Angeles Reviewer, East and West Millennium Sites, Project No. 3425, Dated June 3, 2015.
- Group Delta, 2015, Fault Activity Investigation, Proposed Apartment Development, 6044 Carlos Avenue, Hollywood Area, City of Los Angeles, CA, GDC Project No. LA-1230, dated April 28, 2015.
- Ninyo & Moore Geotechnical and Environmental Sciences Consultants, 2015, Fault Rupture Hazard Evaluation, Hollywood Courthouse, 5925 Hollywood Boulevard, Los Angeles, CA, Project No. 402132006, draft report dated February 24, 2015.
- Ninyo & Moore Geotechnical and Environmental Sciences Consultants, 2015, Supplemental Fault Rupture Hazard Evaluation, Hollywood Courthouse, 5925 Hollywood Boulevard, Los Angeles, CA, Project No. 402132007, draft report dated June 15, 2015.



**Figure 1.** Air photo image of the Hollywood area of Los Angeles with annotation by CGS. Red dashed lines are surface traces of active faults from the CGS Hollywood Fault Evaluation Report, 2014. Green dots represent locations where the Hollywood Fault has been located based on 2018 geophysical studies by the USGS. Orange rectangle inside the Hollywood Courthouse represents the location of the zone of faulting from a CPT and boring transect from Ninyo & Moore reports. Orange rectangle inside the Apartment project represents a zone of faulting from both CPT and core boring study by Group Delta. Blue line represents the steeply inclined Hollywood fault where it was encountered in Group Delta CPT and borings at depth.



**Figure 2.** Google Earth image of the project location. Figure from Group Delta Fault Study Reports, as included in DEIR package with annotations by CGS. Turquoise shapes identify outline of approximate trench excavations at the ground surface. Trenches were excavated in vertical benches from the ground surface to selected depth. Excavation did not expose pre-Holocene materials across the entire length of the trench due to depth of excavation and benching style. Red and blue dots show core boring and Cone Penetration Test (CPT) locations across the site. Black dotted line is Group Delta's inferred fault trace, located at depth. Red long dashed lines are surface locations of active fault traces from CGS FER 253. Green dots represent fault locations where the Hollywood Fault has been located based on recent geophysical studies by the USGS. Blue line represents the steeply inclined Hollywood fault where it was encountered in Group Delta borings at depth.



September 24, 2018

Elva Nuño-O'Donnell  
City of Los Angeles  
Department of City Planning  
6262 Van Nuys Blvd., Room 351  
Van Nuys, CA 91401

**SUBJECT: Comments on the scope and content on the NOP for the Environmental Impact Report for the “Hollywood Center” project.**

Dear Ms. Nuño-O'Donnell:

The California Geological Survey (CGS) has received the Notice of Preparation for the draft Environmental Impact Report (EIR) for the “Hollywood Center” development project in the vicinity of Vine Street, Yucca Street, Ivar Avenue, and Argyle Avenue in the Hollywood Community Plan Area of Los Angeles, CA, 90028. This letter conveys suggestions and recommendations from the California Geological Survey concerning geologic and soils issues related to the planning area.

The California Geological Survey recommends the EIR address the following items and issues within the planning area:

1) Regional and Site Specific Geology

The EIR should include a discussion of the geologic and structural history of the area and a description of the rock types in the region and across the project site. At a minimum, the following geologic maps should be reviewed:

*Dibblee Jr., T.W., 1991, Geologic map of the Hollywood and Burbank (south ½) Quadrangles, Los Angeles County, California: Dibblee Geological Foundation, Map DF-30, 1:24,000 scale.*

*Campbell, R.H., Wills, C.J., Irvine, P.J., and Swanson, B.J., 2014, Preliminary geologic map of the Los Angeles 30' x 60' Quadrangle, California, Version 2.1. California Geological Survey, available at: [http://www.conservation.ca.gov/cgs/Pages/Maps-Data/preliminary\\_geologic\\_maps.aspx](http://www.conservation.ca.gov/cgs/Pages/Maps-Data/preliminary_geologic_maps.aspx)*

*Yerkes, R.F., 1997, Preliminary geologic map of the Hollywood 7.5' quadrangle, southern California: U.S. Geological Survey, Open-File Report OF-97-255, scale 1:24,000.*

2) Geologic Hazards

Numerous potential geologic hazards exist within the Hollywood Center Project planning area. Each of the hazards listed below should be addressed in the EIR.

a. *Earthquake Fault Zones*

CGS has completed seismic hazard zone mapping for the Hollywood 7.5-minute quadrangle and the Hollywood Center Project planning area is within a defined Alquist-Priolo Earthquake Fault Zone. Digital versions of this zone map (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).

These zones can also be viewed with a parcel base map on CGS's interactive Earthquake Hazards Zone Application, here: <https://maps.conservation.ca.gov/cgs/EQZApp/app/>

- b. *Faulting Hazards* – Numerous earthquake faults are mapped within and nearby the Hollywood Center Project planning area. The Hollywood Fault, and its associated splays, are the closest faults to the project area and the entire project lies within an Alquist-Priolo Earthquake Fault Zone for this fault. In addition, at least one trace of the Hollywood Fault is believed to cross the southern part of the planning area, between Hollywood Blvd and Yucca Street, and is considered active. Because the Hollywood Center Project lies within the regulatory Earthquake Fault Zone, site-specific fault investigations are required before the City of Los Angeles can issue permits and, if an active fault trace is found, appropriate fault setbacks must be determined.

At a minimum, the EIR should identify where active traces of the Hollywood fault pass through the planning area and discuss any surface rupture hazards they pose to the project. The most recent understanding of the location of the Hollywood fault is shown on the CGS interactive Data Viewer, here: <https://maps.conservation.ca.gov/cgs/#datalist>. From the Layer List, select “Seismic Hazards Program: Alquist-Priolo Fault Traces.” Please note that these fault traces have been prepared at a regional scale (1:24,000) for the purpose of delineating the hazard zones. They should not replace site-specific geologic fault studies.

We also recommend that the following CGS Fault Evaluation Report for the Hollywood Fault in the Hollywood 7.5-Minute Quadrangle be reviewed in the EIR:

[http://gmw.conservation.ca.gov/SHP/EZRIM/Reports/FER/253/ FER\\_253\\_Report\\_20140214.pdf](http://gmw.conservation.ca.gov/SHP/EZRIM/Reports/FER/253/ FER_253_Report_20140214.pdf)

- c. *Ground Shaking Hazards* – The Hollywood Center Project planning area is located near many active faults capable of producing severe ground shaking during an earthquake. The EIR should include a discussion on nearby active faults and the likelihood of the planning area to experience strong ground shaking from an earthquake during the life of the project. The earthquake shaking potential for various regions in California can be viewed on the CGS interactive Data Viewer, here: <https://maps.conservation.ca.gov/cgs/#datalist>. From the Layer List, select “MS48: Earthquake Shaking Potential for



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California (revised 2016).” This map can also be downloaded as PDF, here:  
[ftp://ftp.conservation.ca.gov/pub/dmg/pubs/ms/048/MS\\_048\\_revised\\_2016.pdf](ftp://ftp.conservation.ca.gov/pub/dmg/pubs/ms/048/MS_048_revised_2016.pdf)

In addition, the USGS Earthquake Hazards Program provides many tools and resources,  
here: <https://earthquake.usgs.gov/hazards/>

Please let me know if you have any questions or concerns with the comments in this letter.

Sincerely,



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