APPENDIX E2

PALEONTOLOGICAL RECORDS SEARCH

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

Research & Collections

e-mail: paleorecords@nhm.org

April 16, 2022

Ultra Systems
Attn: Stephen O'Neil

re: Paleontological resources for the IBC Multi-Use Trail Project along Barranca Channel (Project #7160).

Dear Stephen:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the IBC Multi-Use Trail Project area as outlined on the portion of the Tustin USGS topographic quadrangle map that you sent to me via e-mail on April 8, 2022. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 3977, 3978, 3986	Southeast of the intersection of University Drive & MacArthur Boulevard	Fernando Formation (flat-lying; fine grained silty sand)	Turkey family (Meleagridae); Artiodactyla; Fish (*Seriphus, Squalus, Merluccius*, Cottidae, Moridae); Invertebrates (brachiopods, molluscs)	Roadcut 11-25 feet above roadbed
LACM IP 4695	Bristol St. and Paularino Ave., Costa Mesa	Palos Verdes Sand	Invertebrates - clam (*Saxidomus*), bryozoan (Bryozoa indet.,*Conopeum*)	Unknown
LACM VP 3407, 4426; LACM IP 5627	Top of roadcut east side of McArthur Blvd. approx. 1/2 mile south of Bonita Canyon intersection.	Palos Verdes Sand	Mammoth (*Mammuthus*) and other uncatalogued birds, fish, mammals, and invertebrates (*Shaskyus, Cerithideopsis, Dentalium,* Decapoda, and others)	Surface
LACM VP 3877	Road cut on the east side of MacArthur Boulevard 1.25 miles east of the upper end of Newport Bay	Palos Verdes Sand (silts and sands)	Toad (*Bufo*), pond frogs (*Rana), tree frog (*Hyla*), whip snake (*Masticophis*), garter snake (*Thamnophis*), rattlesnake (*Crotalus*), kingsnake (*Lampropeltis*),* salamander (*Aneides*), quail (*Lophortyx*), red-	Unknown

			winged blackbird (*Agelaius*), crow (*Corvus*), hawk (*Accipiter*), duck (*Aythya*), bat (*Antrozous*), shrew (*Notiosorex*, *Sorex), rabbit (Sylvilagus*), pocket gopher (*Thomomys*), mice (*Perognathus, Peromyscus, Reithrodontomys*), kangaroo rat (*Dipodomys*), woodrat (*Neotoma*), vole (*Microtus*), skunk (*Spilogale), horse (*Equus*), mastodon (Mammutidae)*	
LACM VP 7713	City of Irvine south of I-405 & northeast of Sand Canyon Reservoir	Unknown formation (Pleistocene, reddish-brown alluvium)	Sloth (Mylodontidae?)	Unknown
LACM VP 4219; LACM IP 31322	SW end of the Newport Fwy between Santa Isabel Ave & 23rd St	Palos Verdes Sand (coarse poorly sorted friable sand)	Camel family (Camelidae), sea turtle (Cheloniidae); uncatalogued fish and birds; invertebrates	30 feet bgs

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,

Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice