

**TABLE OF CONTENTS – SECTION 3 – Geology and
Paleontology
Data Requests & Responses 30-31**

	<u>PAGE</u>
Data Request 30	1
Data Response 30	1
Geology and Paleontology Attachment 1	
Geology and Paleontology Attachment 2	
Data Request 31	2
Data Response 31	2
Geology and Paleontology Attachment 3	
Geology and Paleontology Attachment 4	

**Riverside Energy Resource Center Units 3&4
06-SPPE-1**

Data Request 30

BACKGROUND

The geotechnical investigation of a proposed site is essential in understanding the materials that underlie an area. The subsurface material properties are determined through field exploration and subsequent laboratory testing, and allow for classification of the soils and estimation of foundation design parameters. Subsurface site investigations generally involve advancement of test pits and/or auger borings in order to collect soil samples for laboratory testing and determination of material strength and consistency by various methods, including Standard Penetration Tests (SPT) and pocket penetrometer tests. Laboratory testing typically includes index tests (grain size analyses and Atterberg limits tests), consolidation tests, expansion tests and other analyses depending on the nature of site soils. Two geotechnical reports, compiled by LOR Geotechnical Group, Inc. (2004 and 2008), are referenced in the application for this project, but are not included in the appendices of the application.

DATA REQUESTS

30. Please provide the two project geotechnical reports, compiled by LOR Geotechnical Group, Inc. (2004 and 2008) referenced in Section 6.5 – Geologic Resources and Hazards of the application.

RESPONSE

30. See LOR geotechnical investigations, dated January 21, 2004 (Geological Resources Attachment 1) and January 18, 2008 (Geological Resources Attachment 2).

**Riverside Energy Resource Center Units 3&4
06-SPPE-1**

Data Request 31

BACKGROUND

Paleontological records searches are typically requested from applicable museums in the vicinity of the proposed new power plant. Each museum reviews its collection and prepares a report that identifies fossil remains collected from localities on or near the project site, and from geologic units that are present on the site. Paleontological sensitivity of geologic units, as well as the potential to impact significant paleontological resources, can be determined from the records searches. Two museum records searches, one from the Natural History Museum of Los Angeles County (McLeod, 2007) and another from the San Bernardino County Museum (Scott, 2008), are referenced in Section 6.6 – Paleontological Resources of the application. No supporting paleontological report has been provided in the appendices of the application.

DATA REQUESTS

31. Please provide the supporting museum records searches reports from the Natural History Museum of Los Angeles County (McLeod, 2007) and the San Bernardino County Museum (Scott, 2008).

RESPONSE

31. See copy of the Natural History Museum of Los Angeles Paleontology Collection Records Review, dated December 26, 2007 (Geological Resources Attachment 3), and the San Bernardino County Museum Paleontology Literature and Records Review, dated December 20, 2007 (Geological Resources Attachment 4).