

DOCKETED	
Docket Number:	25-OPT-01
Project Title:	Viracocha Hill Battery Energy Storage System Project
TN #:	261777
Document Title:	Volume 2 Viracocha Hill BESS Appendix 5 4B Geotechnical Supplemental Memo
Description:	Volume 2 Viracocha Hill BESS Appendix 5 4B Geotechnical Supplemental Memo
Filer:	Sarah Madams
Organization:	Jacobs
Submitter Role:	Applicant Consultant
Submission Date:	2/14/2025 2:04:04 PM
Docketed Date:	2/14/2025

Appendix 5.4B

Geotechnical Supplemental Memo



Outlook

[EXTERNAL] FW: Final Viracocha Hill BESS Geotechnical Note

From Jorge Tapia <jorget@salkaenergy.com>

Date Mon 1/20/2025 11:53 AM

To Madams, Sarah <Sarah.Madams@jacobs.com>; Salamy, Jerry <Jerry.Salamy@jacobs.com>; Shantry, Sam <Sam.Shantry@jacobs.com>

Cc Javier Reguera <Javier.reguera@ignis.es>; Pablo Ramos Somoza <pablo.somoza@ignis.es>; Louise Ronaldson <lronaldson@salkaenergy.com>

This Message Is From an External Sender

This message came from outside your organization.

Hi Jacobs Team,

Please see the Geotech memo from Burns & McDonnell below.

Best,

Jorge G. Tapia

Project Manager

SALKA LLC | 655 G Street, Ste A | San Diego, CA 92101

Cell/Direct: +1-619-559-3995

jorget@salkaenergy.com | www.salkaenergy.com



"Before printing this mail or any of its attachments, please be sure it is absolutely necessary. Protection of the environment is everyone's responsibility. We have the right to enjoy it but also the obligation to preserve it"

DISCLAIMER: "The content of the present communication, and its annexes, is for informational purposes only and does not in any case constitute a binding offer, acceptance or opinion for SALKA unless so set forth in separate document subscribed by a representative of the company with sufficient faculties to do so. This message may contain private and confidential information and is directed exclusively to its addressee. SALKA will not assume any obligation, nor execute orders or mandates received or sent by electronic mail."

From: Biondo, Anthony J <abiondo@burnsmcd.com>

Sent: Thursday, January 16, 2025 2:47 PM

To: Jorge Tapia <jorget@salkaenergy.com>

Cc: Pablo Ramos Somoza <pablo.somoza@ignis.es>; Javier Reguera <javier.reguera@ignis.es>; Louise Ronaldson <lronaldson@salkaenergy.com>; Chionuma, Daniel <dchionuma@burnsmcd.com>

Subject: Final Viracocha Hill BESS Geotechnical Note

Hi Jorge and team,

As discussed this week, here is the final geotechnical note for you to utilize:

"The geotechnical engineering report for the wind turbine structures was based on soil borings at 20 different wind turbine locations. A general understanding of the soil characteristics across the wind turbine areas was extrapolated from the geotechnical report and used to determine a conceptual foundation and grading design for the CEC application BESS yard. However, due to the distance between the BESS yard and the closest wind turbine, the foundation and grading design for the BESS yard may vary from the EOR's conceptual design based on a BESS-specific geotechnical report."

While BWE is not able to add this note directly to our deliverables, we added an "Assumptions and Clarifications" section in the Design Basis document. This section addresses how the geotechnical information provided has been utilized in our design. I have included a screenshot below:

1.5 Design Assumptions and Clarifications

- Both the structural and civil design were based on the provided wind geotechnical report, "Design Level Geotech Investigation report - 33012 (7-14-23)". Per direction from Viracocha Wind LLC, BWE used boring logs and geotechnical recommendations from the report to extrapolate soil characteristics to determine a conceptual foundation and grading design for the BESS area.
- Based on the provided geotechnical report listed above, the grading design assumes that the sandstone is able to be excavated in the BESS area, and that excavated material will be able to be used as general fill or will be able to be processed if needed into engineered fill without importing additional materials.

Best,

Anthony Biondo \ Burns & McDonnell

Energy Storage Applications \ Energy Global Practice

o 816-448-7312 \ m 816-863-1363

abiondo@burnsmcd.com \ www.burnsmcd.com

200 W. Adams St., Suite 2700 \ Chicago, IL 60606