

DOCKETED

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Project Title:	Willow Rock Energy Storage Center
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Document Title:	Attachment DR68-4 Willow Rock (21-AFC-02) Monthly Geotechnical Update 4 - December 2022
Description:	Monthly Geotechnical Update for Dec 2022
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Willow Rock Monthly Geotechnical Update – December 2023

Status

The table below overviews the status of the various activities that have been initiated during the geotechnical program at the Willow Rock project site as of 2023/12/31.

Activity	Status	Notes
Shallow Borehole Program	Complete	Shallow borehole program was completed June - August 2022 with 8 shallow borehole and CPT testing.
Seismic Testing Round 1	Complete	Seismic testing was completed in Q1 to provide early insight on bedrock depth and stratigraphy before selecting borehole locations.
Deep Borehole #1	Complete	Drilling, downhole testing, and lab analysis has been completed on borehole #1.
Deep Borehole #2	Ongoing - Lab Testing	Deep borehole #2 has completed drilling, geophysical logging, and pump & packer testing. In-situ stress testing (sigra) was attempted but no successful tests were completed. Lab testing on core samples is ongoing
Deep Borehole #3	Ongoing – Lab Testing	Deep borehole #3 has finished drilling to a total depth of 2313' BGL and has completing downhole testing. In-situ stress testing was completed, and 2 successful tests were gathered. Geophysical logging and downhole water samples were gathered. Pump & packer testing was completed in December before the hole was closed. Lab testing on core samples is ongoing.

Monthly Update

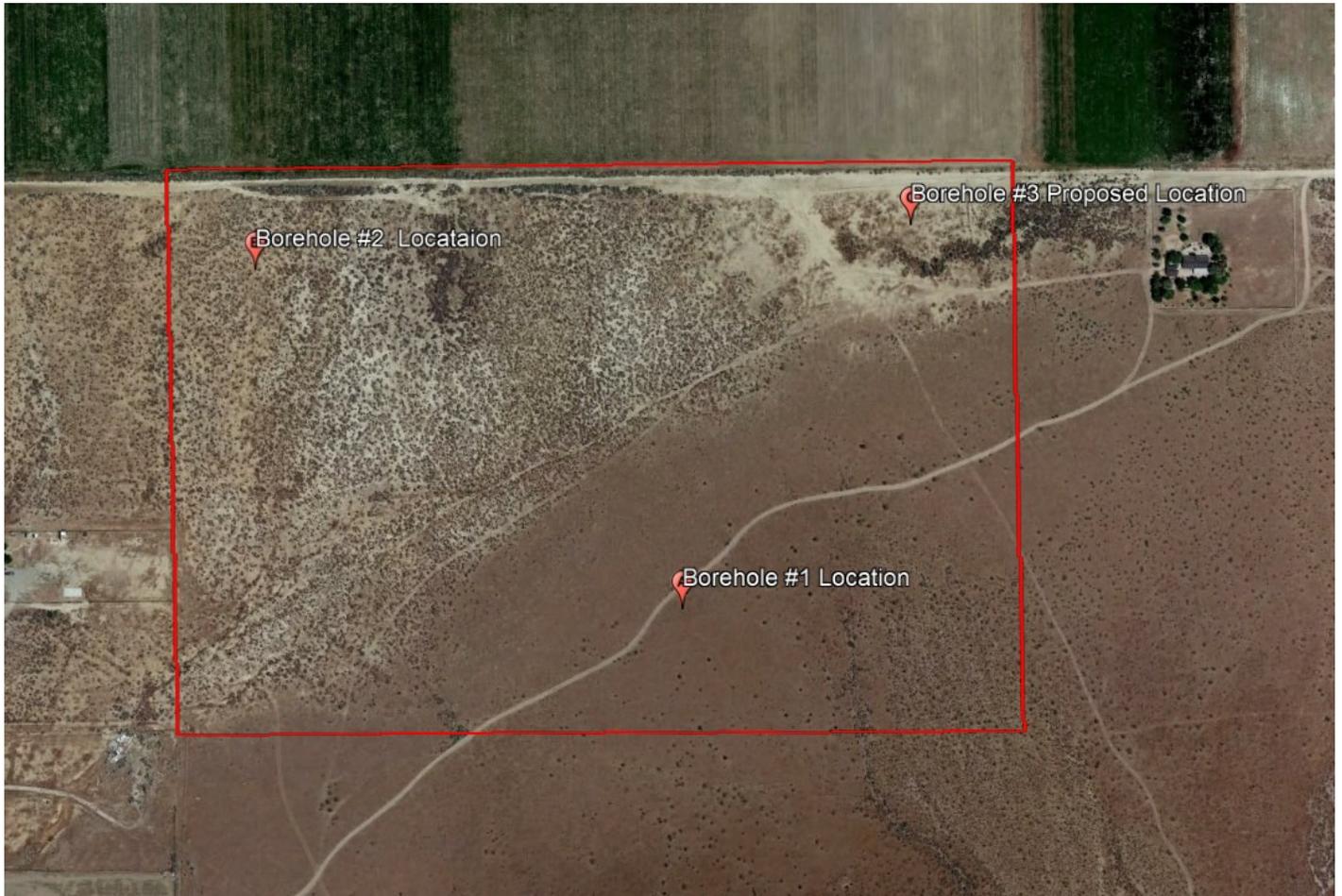
Deep Borehole #2

Lab testing for borehole #2 is ongoing and nearing completion. Core samples are being tested for UCS, density, specific gravity, slake durability, Poisson's ratio, Young's modulus, and tensile strength tests.

Deep Borehole #3

During December pump & packer testing was completed on borehole #3 before the hole was cemented closed on December 11th. Lab testing for borehole #3 is ongoing and should be completed during January. Core samples are being tested for UCS, density, specific gravity, slake durability, Poisson's ratio, Young's modulus, and tensile strength tests.

Attachment DR68-4



New Data Transmittals

The following data from the geotechnical exploration program has been received during December 2022. This data is being submitted electronically via the CEC Kiteworks system due to file size limitations

- Core logs with photos from borehole #3
- Preliminary pump & packer results from borehole #3