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January 18, 2017
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480



**Topsoil Inspection Report - Glacier Ridge Wind Farm
Barnes County, ND
ND PSC Case No. PU-16-539**

In accordance with your request, Keitu Engineers & Consultants, Inc. (Keitu) is pleased to submit for your use one hard copy of the Glacier Ridge Wind Farm Topsoil Inspection report.

Keitu appreciates the opportunity to work with you on this project and I hope this report meets with your complete approval. If you have questions or comments, please contact me at the phone number above or via email at jantognazzi@keitu.com.

Sincerely,

Jaimee Antognazzi
Operations Manager

Enclosure: Topsoil Inspection Report

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Topsoil Removal Inspection Report

Keitu Engineers & Consultants, Inc.
Jaimee Antognazzi, Operations Manager

Site/Project Location: Glacier Ridge Wind Farm Project

Date of Inspection: 14 December 2016

Keitu staff visited the Glacier Ridge Wind Farm Project in Barnes County near Valley City, ND to perform a topsoil removal inspection. The inspection was conducted at the start of turbine construction as required by the Commission's Orders. Keitu's inspection was conducted to 1) ensure that topsoil was removed and segregated from subsoil in designated turbine pad zones, 2) verify that at least 12 inches of the topsoil, or maximum depth of available topsoil (if topsoil did not extend to a depth of 12 inches) was salvaged, 3) confirm that topsoil was removed from any area sited for stockpiling of subsoil.

Observed Work / Weather Conditions

The inspection occurred between 8:30 am to 12:00 pm. The weather was overcast, temperature of 1°F, winds at 22 mph out of the northwest and no precipitation. The turbine locations were in a cultivated field.

Soil removal was being completed by two dozer operators at Glacier Ridge site. No equipment parking areas or access roads were established for site, at this time. All work is occurring within marked boundaries.

Top Soil Management / Condition / Erosion Control / Stormwater Management

Topsoil removal began at the T15 turbine site. Topsoil was removed to a depth of approximately 12 inches, at which time subsoil was encountered. Topsoil removal and segregation then began at the T14 turbine site. The topsoil at both T15 and T14 was sufficiently thawed to allow proper segregation from the subsoil.

Vegetation/Tree and Shrub Removal

Site was in a cultivated field with no current crop growth. No evidence of tree or shrub removal noted.

Deficiencies

At the T15 pad area, a loader operator began excavating subsoil and depositing it directly onto the surface of the cultivated field. The loader was also mixing topsoil and subsoil in the process.

Eric Ryan, Safety Supervisor for RES Group, was informed of the issue and work was stopped.

Actions Taken

Keitu's staff ensured that all on-site contractors fully understood the requirements of the Commission's Orders, regarding topsoil segregation, and that topsoil needed to be removed and segregated from any subsoil staging areas.

Equipment operators demonstrated proficiency in topsoil removal and segregation in compliance with the Commission's Order. Topsoil removal and segregation from the turbine pad locations and subsoil staging areas was observed to be acceptable at this time.

Keitu Inspectors: MJF & LSK **Project Lead:**

Jamie Astognacci

Inspection Report Submitted: 12-28-16

Report Photo #1 "Topsoil Removal and Segregation at Turbine Site T15"



Report Photo #2 "Initial Topsoil Removal and Segregation at Turbine Site T14"



Report Photo #3 Subsoil Staged on Topsoil

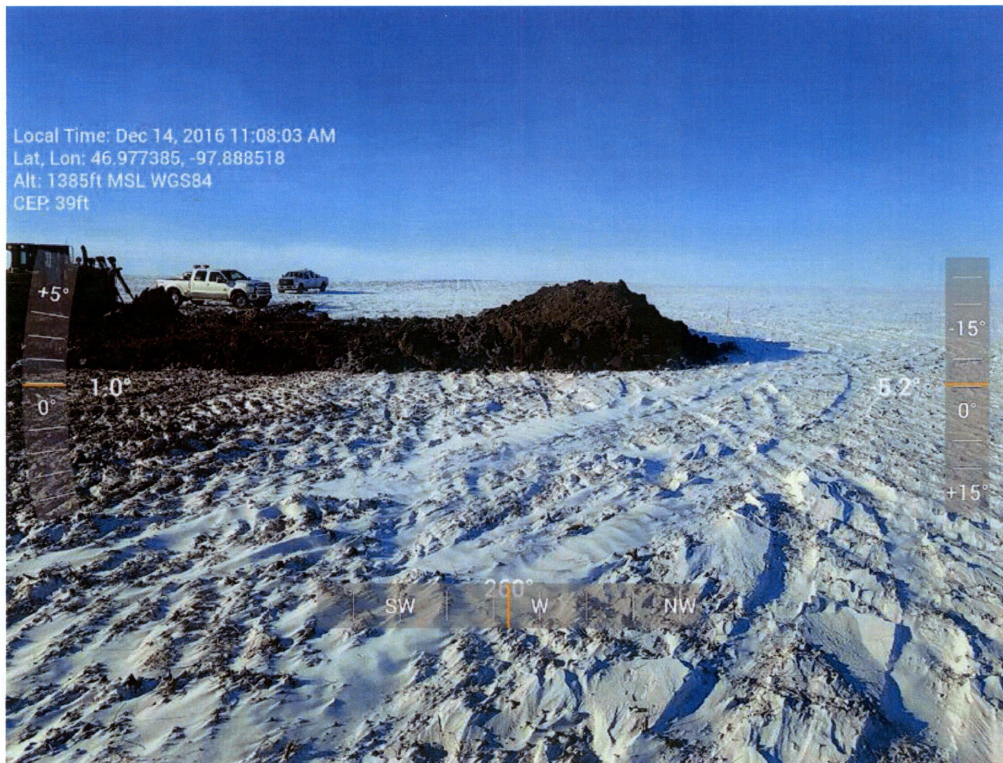


Figure 1 “Site Map”

