

***** DRAFT – NOT FOR FILING *****

3745-511-10

Geotechnical and stability analyses and reporting.

- (A) The applicant shall comply with rules 3745-511-10 to 3745-511-72 of the Administrative Code, as applicable, to demonstrate the geotechnical performance and stability of the design and that the subsurface foundation can support the facility. The demonstration shall include analyses and a report that provide sufficient information to the permitting authority for a complete evaluation of the geotechnical performance of the design, the stability of the design, and the stability of the subsurface foundation of the facility. The geotechnical and stability analyses shall be based on the data collected in accordance with Chapter 3745-510 of the Administrative Code.
- (B) Each section of the geotechnical and stability report shall be clearly labeled.
- (C) The first section of the geotechnical and stability report shall be titled "Summary and Conclusions" and shall include at a minimum the following information:
- (1) A summary of findings and conclusions, including slope limitations and criteria for removal of undesirable material, from the site investigation report that are pertinent to the geotechnical and stability analyses.
 - (2) A summary of findings and conclusions, including slope limitations and criteria for removal of undesirable material, from the geotechnical and stability analyses pertinent to the evaluation of the design of the facility.
 - (3) A table summarizing the field measurements, field test results, laboratory measurements, and laboratory test results pertinent to the geotechnical and stability analyses associated with the critical layers and compressible layers.
 - (4) For all values used in the geotechnical and stability analyses that were not based on field measurements, field test results, laboratory measurements, or laboratory test results, a table summarizing the values, the rationale used to determine the values, and references to any source material that was used to determine the values. These values include but are not limited to the following:
 - (a) Saturation levels.
 - (b) Phreatic and piezometric surfaces.
 - (c) Compressibility characteristics and shear strengths of non-critical layers.
 - (d) Non-compressible layers.
 - (e) Waste or C&DD layers that were not sampled and tested during the site investigation.

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(5) A table summarizing the geotechnical and stability analyses that were conducted and the results of those analyses.

(D) The geotechnical and stability analyses report shall contain a certification statement and applicant's signature in accordance with rule 3745-500-50 of the Administrative Code.

(E) The geotechnical and stability analyses report shall be signed and, if appropriate, sealed by such professionals skilled in the appropriate disciplines as is necessary to comply with Ohio laws and rules.