

PART 531 – GEOLOGY

MO531.21(a)

§MO531.21 Minimum requirements for group I Dam Sites.

(a) The intensity of geologic investigation for Group I dam sites shall be as follows:

(1) All dams in job approval classes VI, VII and VIII shall be investigated by a qualified geologist. The geologist will determine the intensity of investigation in cooperation with the engineer having approval authority or responsibility for the job.

§MO531.23 Minimum requirements for group II Dam Sites.

(a) The intensity of geologic investigations for Group II dam sites shall be as follows:

(1) On dams in job approval class IV and V, the designer will make a preliminary evaluation and submit it to the state conservation engineer on Form MO-ENG-C91. The state conservation engineer will have a geologist review the designer's recommendations. A field trip may be required. The geologist will prepare a report which will be returned to the designer through the state conservation engineer.

(2) On dams in job approval class I, II, and III, the person with the approval authority will determine the intensity of the investigation. In areas of complex geology or known problems, a geologist will be consulted.

(b) Geologic investigations for waste treatment lagoons and waste storage ponds shall be made in accordance with Missouri Department of Natural Resources, Guidelines for Agricultural Waste Management. Other sources of information on geologic investigation and material testing are:

1. National Soil Mechanics Center, Use of Soil Testing Laboratories for Evaluating and Designing Animal Waste Lagoons and Storage Structures. This is filed as an attachment to Geology Note 5 in Chapter 3 of National Engineering Handbook Section 8, Geology. Forms MO-ENG-C356 and MO-ENG-C357 shall be used to submit Soil Samples to soil mechanics Laboratory. These forms shall be approved by the State Conservation Engineer or his designated representative.
2. National Engineering Handbook, NEH Part 651, Chapter 10, Appendix 10D, Geotechnical, Design, and Construction Guidelines. Formerly the AWMFH.
3. National Engineering Handbook, NEH Part 651, Chapter 7, Geologic and Ground Water Considerations.