

# WRIGHT - consulting engineer

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Airport Contracting  
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May 13, 2003

221014-Pit

Foundation Soils  
Fireside Lane  
North Fayette Twp.  
Allegheny Co., PA.

On October 14, 2002, Mr. Anderson observed the backhoe excavation at the above location. The purpose was to examine the soils that might be encountered in the foundations for the proposed building. The test pit soil classifications are as follows:

TEST PIT	near the center of the proposed foundation
DEPTH	CLASSIFICATION
0' to 13'	FILL, grey mining waste, shale fragments, silty clay

Normally, the bottom of footings is placed three to four feet below the finished grading around the foundation. A minimum desired bearing capacity for these footings would be 3000 psf. The existing soils are not suitable for a normal foundation construction and these soils have a bearing capacity less than 1000 psf.

Accordingly, all of the unsuitable soils were removed from the building site, until the silty clay strata was exposed and used for the base of compacted backfill. The backfill operations were performed in the month of April. Density tests on the backfill material were conducted on April 25-26, 2003. The test results indicate that the clay and shale fragments used in the backfill was satisfactorily compacted in excess of 100% maximum density.

Care must be exercised in directing roof drainage, patio and driveway runoffs away from the foundation area and embankment slopes. Discharge of same should be to an acceptable storm sewer collection system.

The opinions included herein constitute my best professional judgment, based on knowledge, information and belief at the time of this investigation. As a declaration of professional judgment, these opinions do not constitute a warranty or guarantee.

If you have further concerns or questions, please call.

George R. Wright, PE.

