

OHIO DEPARTMENT OF TRANSPORTATION

Geotechnical Consultant Workshop



April 15, 2008

ODOT Office of Geotechnical
Engineering

PERSONNEL CHANGES

STRUCTURAL ENGINEERING

- Foundations Engineer – Vacant

CONSTRUCTION ADMINISTRATION

- Earthwork, MSE Walls, Structure Foundations – Peter Narsavage
- Pavements, Subgrade – Julie Miller
- Structures (Superstructure) – Vacant

DISTRICT 11

- District Geotechnical Engineer - Mike Bair

SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS

FIRST REVISIONS OF ANY KIND SINCE 1995

- **January 2007**

QUARTERLY UPDATES

- **April 2007**
- **July 2007**
- **September 2007**
- **January 2008**
- **April 2008**

MANUAL FOR ABANDONED UNDERGROUND MINE INVENTORY AND RISK ASSESSMENT (AUMIRA)

FIRST REVISIONS OF ANY KIND SINCE 1998

- **New Title: Manual for Underground Void Inventory and Risk Assessment (UVIRA)**
- **Revision in progress**
- **Complete by July 2009**

GEOTECHNICAL BULLETINS

GB1: PLAN SUBGRADES

GB2: SPECIAL BENCHING AND SIDEHILL EMBANKMENT FILLS

GB3: ROCK CUT SLOPE AND CATCHMENT DESIGN

**GB4: GUIDANCE FOR THE USE OF GEOTECHNICAL
INSTRUMENTATION**

GB5: SUBMISSION GUIDELINES

GB6: LANDSLIDE RECONNAISSANCE AND EXPLORATION

GB7: DRILLED SHAFT LANDSLIDE STABILIZATION DESIGN

GB8: GEOTECHNICAL GROUNDWATER EXPLORATIONS

GB9: GEOTECHNICAL SOFTWARE

GEOHAZARD INVENTORIES

ABANDONED UNDERGROUND MINES (AUMIRA)

- **Inventory 95% complete. Complete with report by July 2008.**

ROCKFALL

- **Inventory 20% complete before suspending work. Restart inventory May 2008. 3 consultant teams and 2 part-time ODOT teams. Complete by December 2009.**

LANDSLIDES

- **Inventory 1% complete. Start inventory May 2008. 4 consultant and 2 part-time ODOT teams. Complete July 2010.**

GEOTECHNICAL DOCUMENT MANAGEMENT SYSTEM

- OSE DOCUMENT ASSESSMENT IN PROGRESS**
- OGE DOCUMENT ARCHIVE SCANNING COMPLETE**
- ACCESS TO INTERNAL USERS (OGE) BEGAN 2007**
- ACCESS TO DGE'S GIVEN JANUARY 2008**
- ACCESS TO EXTERNAL USERS BY JULY 2008**

GEOTECHNICAL RESEARCH

EMBANKMENT SHEAR STRENGTHS

- T. Masada, Ohio University

ROCK SLOPE DESIGN

- A. Shakoor, Kent State University

EVALUATION OF CPT

- P. Fox, Ohio State University

LANDSLIDE STABILIZATION USING DRILLED SHAFTS

- R. Liang, University of Akron

OTHER

GEOHAZARD POLICY

Pending final approval. Establishes inventory and monitoring procedures

SUPPLEMENT 1120, MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS

Procedure allowing contractor to design using:

- Lime**
- Cement**
- Lime Kiln Dust**
- Cement and Lime**
- Cement and Lime Kiln Dust**



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