

# Geotechnical Earthquake Hazard Analysis of the Evansville, Indiana Area

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USGS Award No.: 1434-94-G-2476

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## Program Element: III.3

Summary of Evansville Files

### [Eq\\_data.xls](#)

This file is a summary of the inputs for Shake91. Included are the: earthquake code, record, earthquake name, file name, number of acceleration points, number of lines in the header (title line), number of acceleration points per line, time interval of acceleration points file format, maximum acceleration, and the units.

### [Header.xls](#)

This file includes information regarding the borings in general such as: project, consultant who performed project, month, day and year performed, elevation, depth of boring, depth to ground water table, test performed, and file.

### [Layer.xls](#)

This file defines the layers for each soil boring including: boring identification, depth, and soil type per layer.

### [Moddb.xls](#)

This file includes shear and damping information such as: code (key 1), shear or damping (key 2), mark (key 3), and string.

### Nvalue.xls

This file includes ID, depth, N value, N 1, N2, N3, and a description.

### Test.xls

This file includes ID, depth, test performed, and value.

### USCS.xls

This file includes: layer, shear code, damping code, USCS classification, unit weight, saturated unit weight, fines, permeability, phi, cohesion, initial damping ratio, default shear wave velocity based on soil type, and reference strain. Also input coefficients for DESRA that are included are: H 1, H2, H3, H4, C 1, C2, C3, C4, R1, R2, R3, Alpha, and Beta.

Additionally, ArcView format shapefiles are included for the SPT data (borings3.\*), CPT data (CPT3.\*), local stream network (water2.\*), and the entire Evansville study area (studyar.\*). These are located in the [G2476.htg](#) subdirectory along with the CPT data, in text file format. This explanation is "Summary of Evansville Files".