The Environmental Geophysics Web Site and Geophysical Decision Support System (GDSS):

Beta Version

APM # 198

Dale Werkema, Michael Jackson, and Danney Glaser

This product provides assistance to project managers, remedial project managers, stakeholders, and anyone interested in on-site investigations or environmental geophysics. The APM is the beta version of the new U.S. EPA Environmental Geophysics Web Site which includes the Geophysical Decision Support System (GDSS). The Web Site includes an overview and self guided tutorial into the most commonly used geophysical methods which are applied to environmental problems. The geophysical methods described are not all inclusive, but provide a good starting point for this beta version and provides a platform for future development. The web site also includes a list of geophysical properties, a glossary of environmental geophysics terms, and a list of environmental geophysics references.

The GDSS is a web based application designed to guide project managers in geophysical applications for environmental problems. The GDSS includes several pages of questions designed to collect user data regarding the objectives, needs, and physical site specifics from a user. The GDSS uses this information to output results which suggest likely geophysical applications to solve the user's particular objectives and relative to the site conditions. The results also include links to the geophysical methods suggested and a reference list of published relevant case histories, applications, lab studies, or any relevant paper per the results as determined from the queries.

In order to ease adaptability and upgradability of the Web Site to ever changing scientific advancements, a desktop application has been created which is used to update the GDSS questions, the decision methodology, the glossary, the geophysical methods descriptions, and the reference lists. The reference lists are updated via this desktop application and Reference Manager (RM) software. This enables the GDSS to say updated to current publications as the software manager updates RM. Also the logic behind the GDSS can be easily adapted to the changing science. This application resides on Dale's desktop for his use in maintaining the content of the Web Site and the GDSS.

The Web Site and GDSS can be reviewed internally at:

http://v18ovhrttf752/Projects/cmb/geophysics/

Externally, the web site can be found at:

http://majgis.com/gdss/geophysics/

Login: gdss PW: geofiz

Once the ORD clearance is approved publishing of the Web Site will commence.