

Integrating Mining Compliance Field Data to Streamline Reclamation: GIS Data Structures & GPS Collection Methods

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Collaboration between mine inspectors and GIS data specialists has led to the creation of a specialized database for the collection and manipulation of field data points. We have created a mining compliance GIS database which allows inspectors to collect specific points, lines, and polygons and their attributes. Data fields that can be populated include: type of item, location of item, size of item, condition of item, date & time of collection, who collected data, any annotations regarding what needs to be done in the future, and many more. Drop down menus within the collection system allow for standardization of information. Once transferred into ArcMap from ArcPad, data shapes can then be labeled, measured, searched, and tracked from year to year. Consistency of data collection methods and data type allows for a comprehensive database of disturbances and provides tools for evaluating and planning reclamation.