

**NGGDPP Final Technical Report – 2010/2011
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Name of State Geological Survey: Kentucky Geological Survey

Project Title: National Catalog metadata submissions for Kentucky sites

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Objectives:

This year's data preservation activity involved the inventory, documentation, and digitization of records and materials related to auger drill hole information acquired during the geologic mapping of the Tertiary and Cretaceous Jackson Purchase region of western Kentucky. Many, but not all of the holes were shown as data locations on the Geologic Quadrangle maps published between 1960 and 1978. The records of drilling (currently in fiche format) contain stratigraphic boundary elevations as well as lithology descriptions. Auger return samples from some of the wells are housed at the KGS Well Sample and Core Facility, but needed to be assessed for their suitability for future work. Each of these three data sources used different identifiers for locations, so a major objective is to match map locations to samples and records.

Results:

To date, records from twenty 7.5-minute quadrangles have been reviewed and compiled. This resulted in documentation of 1,203 drill hole sites. Drilling records were compared to the GQ map location to validate coordinate locations. Header information and subsurface lithology and stratigraphy data were entered into electronic spreadsheets. SQL-Server database tables have been created for final data archiving and compiled data have been migrated to the new system. A program function has been completed to translate the location data into XML format for upload to the NGGDPP National Catalog. Physical samples were inspected and found to be in good condition. These samples have future potential for grainsize, mineral, and chemical analysis. The catalog of sample holdings was also digitized and prepared for the process of matching to the location data.

Future work:

The data entry process proved to be more time intensive than anticipated, therefore the entire inventory has not been completed. It is estimated to be between 40% and 50% complete. Data have not yet been uploaded to the National Catalog, because KGS is awaiting programmatic access for adding new collection descriptions to the catalog. Once that is available, these data are ready for migration. At the same time, previous collections should be re-loaded to account for new additions and corrections to information.