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Delaware Water Use and Allocation Permitting Improvement Efforts

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Delaware's Proposed Improvements to Support the USGS Water Use Research and Data Collection program (FFY 2016)

- Purpose of the Year 1 proposal is to **integrate the Water Allocation Permitting database and the Water Use Database into a new single SQL server database**
- Grant total of **\$100,000** to accomplish this goal; 18 month duration; anticipated start of 11/2016
- Grant submittal for Year 1 was accomplished the week of **6/13/16**
- The Delaware Department of Technology and Information (DTI) will oversee **contractual** arrangement to accomplish this task
- The as-yet-to-be-developed **Year 2 proposal** will focus on improved reporting participation



Delaware Phase 1 Proposal - Outline

- 1) SQL Compliant database re-write of the present two databases – Water Allocation Permitting and the Water Use Database
- 2) Improved on-line reporting system with associated new reporting forms
- 3) Hold stakeholder training to assist in permittee in the changes to water use reporting
- 4) Improvements to Quality Control of reported data
- 5) Data processing for the annual water use reporting to the USGS such as consumptive use and wastewater return flows
- 6) Annual Water use Report for Allocated users to USGS



Delaware Phase 1 Proposal –

A. Program Description

- 1) Allocation Permit required for water users in excess of 50,000 gpd;
- 2) 30 year duration with as needed or 5 year reviews; permit modification can occur as needed for system changes;
- 3) Permits specify limits for daily, monthly, and annual withdrawal rates; reporting at least annually; aquifer designation; metering and other equipment stipulations;
- 4) Reporting can be done on paper or on-line via the Water Use Reporting application;
- 5) Data collection for Public, Industrial, Irrigation, Aquaculture, Thermoelectric, Mining, and Commercial Facilities
- 6) Data NOT collected for Domestic, Livestock, Hydroelectric, and Wastewater Treatment



Delaware Phase 1 Proposal –

B. Project Activities

- 1) DTI will directly oversee the contractual development of the new Water Use Data application;
- 2) Major activities → New database schema and workflow; Application design; Migrate existing data; Data flow Input and Output;
- 3) Improved data reporting for the USGS annual report will be expanded for Public Supply, Industrial, Irrigation, Thermoelectric, Mining, Aquaculture, and Commercial water use types;
- 4) Develop the Work Plan and budget for the 2nd anticipated project period → Outline provided in the 2016 project.



Delaware Phase 2 Proposal – Outline (anticipated)

- 1) Personnel Budget
- 2) Inventory of non-reporting water users
- 3) Improve reporting percentage for categories
- 4) Address other USGS requested inventory needs as is possible
- 5) Anticipated start of 2017/18, pending funding



Delaware Phase 2 Proposal – Outline (anticipated)

- 1) Prepare new Water use Forms to mirror the new database structure
- 2) Develop Instructions for Water Use Reporting
- 3) Provide Outreach and Training for Users
- 4) Launch New Application
- 5) Compile Annual reporting for USGS and others as needed