

FY 2018 NGWMN Projects

Alabama: Geological Survey of Alabama

This is a two-year project to become a new data provider in year one and to provide persistent data services and site-information gap filling in year two. The Alabama Geological Survey will be providing water-level data to the NGWMN from a realtime network of 27 wells and an annual surveillance network of 468 wells. Site-information gap filling will be on 15 wells in the realtime network and will include a GPS survey, well logging, and a downhole camera survey to update well construction and lithology information.

Arizona Department of Water Resources

The Arizona DNR is a current data provider for water-level data. This is a two-year project to expand the water-level sites in the Network and to provide persistent data services. Additional wells will be selected from the 1,450 annual wells and from about 150 wells that are measured at least quarterly to expand the water-level network.

California: Water Replenishment District of Southern California

The Water Replenishment District of Southern California is a groundwater management agency in southern Los Angeles County. This is a two-year project to become a new data provider to the NGWMN in year. They will provide persistent data services in year two. The Water Replenishment District of Southern California will be providing both water-level and water-quality data.

Delaware Geological Survey

The Delaware Geological survey is a current data provider of both water-level and water-quality data. This is a two-year project for an existing data provider to enhance their wells in the NGWMN. They will be expanding the number of sites in the network by adding up to 26 new wells to the water-level Network and up to 20 wells to the water-quality network. They will be providing persistent data services to keep their data flowing to the NGWMN and will be doing some updates to their web services. They will be doing gap filling by adding lithology data at a deep well and updating horizontal and vertical coordinates at 6 network wells. They will also be performing well maintenance by pumping 10 existing wells. Downhole video camera logs will also be done at five of these wells.

Florida Department of Environmental Protection

This is a two-year project to become a new data provider of water-quality data to the NGWMN. Sites will be selected from a groundwater trend network of 49 wells and two springs. They will be providing persistent data service for year two of the project. Lithology data for selected wells will be updated in year two of the project.

Indiana Geological and Water Survey

The Indiana GS is a current data provider of water-level data. This is a one-year project to provide persistent data services and drill wells. They will be drilling two new wells to fill gaps in the NGWMN.

Iowa Geological Survey

The Iowa DNR is a current data provider of water-level data. This is a one-year project to do hydraulic testing under Well Maintenance at 7 of their NGWMN sites. They will initially purge the wells and then perform slug-tests on the wells. They plan to continue this in future years so that testing is done at their wells every five years.

Maine Geological Survey

The Maine Geological Survey is a current data provider of water-level and water-quality data. This is a two-year project to provide persistent data services and fill site information gaps at NGWMN wells. Gap filling work includes a GPS survey of wells, measuring total well depth where needed, and downhole camera work to fill in well construction details.

Maryland Department of Natural Resources

The Maryland DNR is a data provider through a Cooperative agreement with the USGS Maryland/Delaware/DC WSC. This is a one year project to do site-information gap filling and well maintenance. Gap filling will include an update to land-surface elevations at all wells through a GPS survey. They will also be updating lithologic and well construction data for all wells from paper well-completion reports. Well Maintenance activities will include repairing well heads at 21 wells and, doing borehole camera surveys to identify problems at selected wells, and slug testing of 42 wells.

Massachusetts: Cape Cod Commission

The Cape Cod Commission is a data provider through a Cooperative agreement with the USGS New England WSC. This is a two-year project to update site information. They will be doing a GPS survey of wells to update land surface altitude and doing slug testing of monitoring wells to verify well integrity.

Minnesota Department of Natural Resources

The Minnesota Department of Natural Resources is a current data provider of water-level data. This is a two-year project to provide persistent data services, do well maintenance, and drill wells. They will be doing well maintenance activities at 25 wells which will include specific capacity testing, video logs, and well redevelopment, where needed. They will be drilling 5 new wells to fill gaps in the NGWMN.

Mississippi Department of Environmental Quality

The Mississippi DEQ is a current data provider to the water-level network. This is an 18-month project to provide persistent data services and fill site information data gaps. They will be updating site information by entering lithology information from driller's logs into their database so that it is available to the NGWMN.

Missouri Department of Natural Resources

The Missouri DNR is a data provider through a Cooperative agreement with the USGS Missouri WSC. This is a two-year project to do site-information gap filling. They will be doing borehole camera work at 118 wells to verify well-construction and lithology at the wells.

Nebraska Department of Environmental Quality

This is a two-year project to become a new data provider to the NGWMN. The Nebraska DEQ will be providing data to the water-quality network. The wells will be selected from a set of 1,500 water-quality trend wells. They will be working with the Nebraska CSD on the well registry and in setting up web services.

Nebraska Conservation and Survey Division

The Nebraska Geological Survey is a current water-level network data provider. This is a one-year project for persistent data services and well maintenance activities. Well maintenance work is to pump eight wells to determine connection to the aquifer.

New Hampshire Geological Survey

The New Hampshire Geological Survey is a current water-level network data provider. This is a two-year project to provide persistent data services, fill gaps in site information, and perform well maintenance. Gap filling work focuses on two new wells which are being added to the network. This work will update construction information using an optical survey and will update the horizontal and vertical coordinates of the wells. Well maintenance work involves redevelopment of 10 wells.

New Mexico Bureau of Geology and Mineral Resources

The New Mexico Bureau of Geology and Mineral Resources is a current water-level network data provider. This is a one-year project to provide persistent data services.

Ohio Department of Natural Resources

The Ohio DNR is a current data provider through a Cooperative agreement with the USGS Ohio WSC. This is a two-year project to do well maintenance and well drilling work. Well Maintenance work involves performing slug tests on 48 wells to determine connection to the aquifer. Two new wells will be drilled to fill gaps in the NGWMN coverage in Ohio.

Oklahoma Water Resources Board

The Oklahoma Water Resources Board is a current water-level data provider. This is a two-year project to expand their data services, provide persistent data services, do site information gap filling, and perform well maintenance. They will be setting up new web services to serve water-quality data and discrete water-level data. They will be doing downhole camera work to evaluate well casing and screen conditions and doing slug tests to determine connection to the aquifer.

Texas Water Development Board

The Texas Water Development Board is an existing data provider for both water-level and water-quality data. This is a two-year project to provide persistent data services. Their web services will be updated as part of this work.

Utah Geological Survey

The Utah Geological Survey is a current water-quality data provider. This is a two-year project to provide persistent data services, provide lithology data for 62 wells and pump 8 dedicated water-level monitoring wells to determine connection to the aquifer.

Washington Department of Natural Resources

This is a one-year project for the Washington Department of Natural Resources to become a new data provider of water-level data to the NGWMN. Water level data from a county-level monitoring network will be provided to the NGWMN. About 40 wells in the county network are candidates for the NGWMN. The Washington DNR plans on providing data from other county networks in the future.

Washington State Department of Ecology

The Washington State Department of Ecology is a current water-level data provider. This is a two-year project to add new sites and expand web services, provide persistent data services, update site information, do well maintenance, and drill new wells. They will be adding at least 30 new water-level sites and add will be setting up water-quality web services. They will be doing a GPS survey at wells that need measuring points established. They will be doing well maintenance by pumping 12 existing monitoring wells. They will also be drilling 13 new wells to fill gaps in the Network.

Wisconsin Geological and Natural History Survey

The Wisconsin Geological and Natural History Survey is a current data provider through a Cooperative agreement with the USGS Wisconsin WSC. This is a two-year project to do well maintenance and well drilling work. Well maintenance work involves a variety of video logging, geophysical logging at slug-testing at 17 wells. Work at each well depends on the history and conditions of each well. Three wells will be drilled to replace existing NGWMN wells. One new NGWMN well will be drilled to fill a gap in the NGWMN water-level network.