FY 2017 EXCHANGE NETWORK GRANT PROGRAM AWARDS
Office of Environmental Information
U.S. Environmental Protection Agency
FY 17 Grants

FY2017 EXCHANGE NETWORK GRANT PROGRAM TOTALS		
Type of Recipient	Total Number of Awards	Total Amount of Awards
States	27	$7,676,528.23
Tribes	4	$1,476,591.80
All Recipients	31	$9,153,120.03

Recipient Name	Project Description	Award Amount	Award Date
STATES			
Alabama Department of Environmental Management	The Alabama Department of Environmental Management proposes to create an ADEM Web Portal using Shared CROMERR Services (SCS) as the user management core; transition the Air Electronic Emissions Reporting System (AEERS) application to use the new ADEM Web Portal system that will be developed in step one above; transition the Electronic Drinking Water Reporting System (eDWRS) to use the new ADEM Web Portal system; transition the Electronic Notice of Intent (eNOI) system to use the new ADEM Web Portal system; and transition the Electronic Discharge Monitoring Report (eDMR) system to use the new ADEM Web Portal system.	$300,000	09/18/17
Alaska Department of Environmental Conservation	The Alaska Department of Environmental Conservation proposes to add and improve tools for searching, analyzing, and displaying data in the Ambient Water Quality Monitoring System (AWQMS); implement a project dashboard to provide a quick summary of data collected for a selected project; leverage the new AWQMS assessment data reporting and tracking capabilities; leverage the Water Quality Portal (WQP) Web Services from within the Alaska AWQMS instance; and streamline the flow of data from the National Aquatic Resource Survey Mobile application into AWQMS.	$229,845	9/29/17
California California State University, Sacramento University Enterprises, Inc	The Energy-Water-Emissions Dashboard (EWED) will integrate three EN data sources and other federal data sources into a new web service and two web-based user interfaces that support integrated decision making and planning at the energy-water-climate nexus. The EWED user interfaces will include a near-real-time dashboard of power plant facility water demands and emissions, as well as advanced tools for users to perform detailed analyses and scenario development at different geographic and jurisdiction scales. The goal of EWED is to improve integration, accessibility, usability, and timeliness of complex environmental data.	$299,699	08/24/17

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Colorado Department of Public Health & Environment	Colorado DPHE is planning to develop an application to look across environmental permits and information to gauge the performance of types of permits and programs. The department will also develop an Environmental Documents API that will provide broader access to department environmental documents. Both projects allow department leadership and partners to have faster access to the information thereby informing more efficient and effective data driven decisions. This project will help to support multiple strategic goals of the department including Keeping up with the Speed of Business, Deliver Excellent Customer Service, and Establish Evidence-Based, Data-Driven Strategies.	$296,485	08/25/17
Delaware Department of Natural Resources & Environmental Control	Delaware DNREC will modify five databases that currently store National Pollutant Discharge Elimination System (NPDES) related data to meet the requirements of Phase II of the NPDES e-Reporting Rule.	$299,438	07/27/17
Hawaii Department of Health	This grant funding will provide Information Technology/Management support to the HI DoH, Safe Drinking Water Branch, to implement the Compliance Monitoring Data Portal.	$150,000	07/19/17
Indiana Purdue University	The Purdue University proposes to enhance the dataset within Great Lakes to Gulf Virtual Observatory web application (GLTG); enhance the dataset on the Great Lakes Monitoring web application (GLM); create enhanced visualization tools on the GLTG and GLM web applications.	$295,630	10/24/17
Iowa University of Iowa	The primary goal of this project is to fully automate the data transmission of drinking water test results between OpenELIS—the Laboratory Information Management system used for managing Safe Drinking Water Act testing at the State Hygienic Laboratory—and the cloud-based SDWIS Prime database via the Compliance Monitoring Data Portal (CMDP).	$299,672	08/11/17

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Kansas Department of Health & Environment	KSDHE proposes to develop a web-based application that receives the National Pollutant Discharge System (NPDES) eReporting Rule required information (Phase 2) from NPDES permittees, that is compatible with the Integrated Compliance Information System-National Pollutant Discharge Elimination System (ICIS-NPDES), is in an XML schema format, and can upload the data via a batched system (Open Node) to EPA's ICIS; and develop a solution that facilitates the exchange of state listing and TMDL data to the EPA ATTAINS's web-based application.	$300,000	08/15/17
Kentucky Energy & Environment Cabinet	The Kentucky Energy and Environment Cabinet proposes to transition from Safe Drinking Water Information System (SDWIS) State and implement SDWIS Prime; transition from existing state reporting systems/methodologies to the Compliance Monitoring Data Portal (CMDP); and to perform a gap analysis, and to design and develop software for state specific components needed for implementation of the Clean Water Act program and transferring data from these systems between the Kentucky Department of Environmental Protection (KYDEP) and EPA.	$93,655	09/20/17
Louisiana Department of Environmental Quality	Louisiana DEQ will improve the water quality assessment process and implement the Assessment Total Maximum Daily Load Tracking and Implementation System (ATTAINS) dataflow.	$300,000	07/11/17
Minnesota Department of Health	Minnesota DoH proposes to develop an interactive electronic field inspection tool (e-Inspection Tool) for Public Water System Supervision Sanitary Survey and Sources Water Protection Program; to rollout a Drinking Water Protection e-Inspection Program; and use the e-Inspection device to provide to Minnesota public water systems onsite Compliance Monitoring Data Portal (CMDP) users training.	$300,000	09/19/17

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Nevada Department of Conservation & Natural Resources	Nevada DCNR will develop a system for electronic reporting of air emission data from regulated facilities to the DCNR; adopt and deploy the Compliance Monitoring Data Portal (CMDP) for reporting of Public Water System Data; and, modify their existing Drinking Water Operator management system, Safe Water Operator Certification System, from an Open Database Connectivity connection to a system that utilizes Web Service Calls.	$300,000	07/27/17
New Hampshire Department of Environmental Services	New Hampshire DES will develop and share high quality facilities data by increasing the quality and availability of data geospatial data for resumption of flow to Facility Registry System (FRS) and for new flows to EPA's Central Data Exchange (CDX). The project will also create a web service to support emergency planning, response, and recovery in the event of stream crossing failures during floods.	$300,000	07/27/17
New Jersey Rutgers University	Rutgers University plans to use EPA's current continuous water monitoring exchange framework to share water quality, encode air quality data, upload data to WQX, and configure data flows and test existing XML schema to upload FRS data and location via the Virtual Exchange Services.	$299,962	09/27/17
North Carolina The University of North Carolina at Chapel Hill	UNC at Chapel Hill will develop a financial reporting system for water and wastewater systems in North Carolina and facilitate integration and visualization of water and wastewater system financial data in a Financial Sustainability and Rates Dashboard.	$299,991	07/27/17
North Dakota Department of Health	The North Dakota Department of Health proposes to publish data from five program areas using web services, and to make the standard data sets for each program area available through an interactive map based web page in a way that is functional and easy to use for the public as well as other stakeholders.	$300,000	07/27/17

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Oklahoma Water Resources Board	The OK WRB proposes to record assessment decisions in Ambient Water Quality Monitoring System (AWQMS) and submit the assessment data from AWQMS to the new Assessment Total Maximum Daily Load Tracking and Implementation System (ATTAINS) data flow; improve groundwater tracking and analysis capabilities, including continuous monitoring data; prove the tracking of habitat assessment data (such as that which is captured in the National Rivers and Streams Assessment) in order to better assess our states' waters; and implement improved Lake Profile recording, reporting, and analysis for better assessment of our states' waters.	$496,389	07/20/17
Oregon Department of Environmental Quality	OR DEQ will increase the state's environmental data availability for internal and external consumption. The multisensory data set is extensively used by states, interest groups, advocacy organizations, the regulated community, and the public. Thus, the dataset will reach a broad audience, including data being cataloged with WQX. The state is committed to packaging its product(s) for distribution to organizations who also need a similar data solution.	$300,000	07/27/17
Pennsylvania Department of Ecology	PA DE will upgrade two existing data flows (AQS and WQX) and create one new flow (Radon Mitigation), enhance a prior grant-developed Business Intelligence Component, and establish an open data portal for environmental data for the Commonwealth in conjunction with national on-going efforts.	$282,584.40	07/27/17
Rhode Island Department of Environmental Management	RI DEM's proposes to establish two new data flows. More specifically to update an outmoded database to develop and initiate a new data flow for the Underground Injection Control Program; and transition to ATTAINS for tracking and reporting water quality assessment results. The resulting improved capacity to exchange data in these program areas will result in more efficient business processes that reduce reporting burdens and facilitate timely public access to the data.	$300,000	07/27/17

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South Carolina Department of Health & Environmental Control	SC DHEC will adopt and deploy the Compliance Monitoring Data Portal (CMDP); and adopt and deploy Safe Drinking Water Information System (SDWIS) Prime.	$266,000	07/27/17
South Dakota Department of Environment & Natural Resources	SD DENR proposes to create new capability for Electronic Notice of Intent (eNOI) reporting; establish a data flow to transmit eNOI data to Integrated Compliance Information System-National Pollutant Discharge Elimination System (ICIS-NPDES); create a web-based mapping application to allow users to interact with DENR-STORET water quality data; and implement the Compliance Monitoring Data Portal.	$289,000	08/31/17
Utah Department of Environmental Quality	Utah DEQ's project consists of three goals. The first is to update and expand the existing oil and gas online system for permitting and reporting. The second goal is to integrate an oil and gas emissions reporting system into the Centralized Air Emissions Reporting System (CAERS) online database. The third goal is to create a UT Division of Air Quality bridge tool for automated upload of Oil and Gas inventories to the Emissions Inventory System (EIS).	$275,000	06/21/17
Virginia Department of Health	The Virginia Department of Health proposes to transition Safe Drinking Water Information System State to SDWIS Prime.	$300,000	07/25/17
Washington Department of Health	Washington DH will improve radon data flows and coordinate radon data flow to an Exchange Network (EN) node or virtual network from partner states to increase the flow of radon data through EN.	$374,377.83	08/15/17
West Virginia Department of Environmental Protection	The state is creating a unified Tanks database and software system with a web interface. West Virginia DEP's proposes to unite the data collection and data flow for four programs: The Underground Storage Tank Program, the Aboveground Storage Tank Program, the Leaking Underground Storage Tank Program, and the Leaking Aboveground Storage Tank Program. A mobile inspection tool will enhance data collection and reporting, and the creation of web portals will facilitate data exchange to numerous stakeholders.	$128,800	07/25/17

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TRIBES			
Cherokee Nation Oklahoma	Cherokee Nation will create a national Tribal Mentoring Program; develop an Assessment and Total Maximum Daily Load Tracking and Implementation System (ATTAINS) webpage on the Inter-Tribal Environmental Council website; provide logistical support and coordination for Tribes to receive technical assistance with the utilization of the ATTAINS Reporting Tool; perform technical outreach efforts for the ATTAINS Reporting Tool; and create and publish a newsletter that will showcase the ATTAINS Reporting Tool for the tribal water program.	$300,000	07/27/17
Coeur D'Alene Tribe Idaho	The Coeur D'Alene Tribe proposes to collect data using Unmanned Aerial System flight imagery; process/interpret/store the data; and share the water quality data and maps through the Coeur d'Alene Tribe's Portal for ArcGIS website.	$262,592.80	09/28/17
Eight Northern Indian Pueblos Council, Inc. New Mexico	The Eight Northern Indian Pueblos Council, Inc. will expand the number of tribes using the Ambient Water Quality Management System (AWQMS) to manage and exchange water quality data. The project will provide improved exchange of, and access to, water quality data between tribes and the EPA by further enhancing quality assurance, data analysis, and reporting capabilities of our hosted WQX-compatible database to meet requirements of the EPA National Strategic Plan and tribe-specific reporting needs.	$493,521	08/10/17
Fond du Lac Band of Lake Superior Chippewa Minnesota	The project will provide for enhancements to leverage and improve upon new features to be added to the Ambient Water Quality Management System (AWQMS) for implementing the Assessment TMDL Tracking and Implementation System (ATTAINS) EN data flow, and use AWQMS as a continuous water quality sensor data "appliance" via web services. The project also intends to provide improvements for continuous monitoring data capture and management, and continuous monitoring sensor metadata submission to the national central catalog. In addition, the tribe proposes to implement new information visualization tools in the form of "dashboards" and GIS improvements for the multitude of AWQMS tribal, state, and volunteer users.	$420,478	07/27/17