FY 2009 EXCHANGE NETWORK GRANT PROGRAM AWARDS
Office of Environmental Information
U.S. Environmental Protection Agency
2009

FY 2009 EXCHANGE NETWORK GRANT PROGRAM - TOTALS		
Type of Recipient	**Total Number of Awards**	**Total Amount of Awards**
Tribes	**9**	**$1,980,751**
States	**38**	**$9,583,391**
Territories	**1**	**$100,000**
All Recipients	**48**	**$11,664,142**

FY 2009 Exchange Network Grant Program-Recipients		
Recipient Name	**Project Description**	**Award Amount**
State Grants		
Alabama Department of Environmental Management	The Alabama Department of Environmental Management proposes to implement an eDWR system that is CROMERR-compliant and to flow data submitted by Public Water supplies (PWSs) through the eDWR system to the state and federal instances of SDWIS. The data flow will use Node 2.0 specifications to improve efficiency, increase accuracy, and reduce burden by eliminating manual data entry, flowing metadata, and placing electronic reports into the state's FileNet respository.	$300,000
Alaska Department of Environmental Conservation	The Alaska Department of Environmental Conservation (DEC) proposes to upgrade their existing Windsor Node to 2.0 specification or the implementation of a new Node 2.0. Also, at least two and up to seven data flows will be implemented in Node 2.0. The following flows are either planned but not developed or are in the design/development stage for Node 1.1: NEI, SDWIS, FRS, ICIS-NPDES. Finally, the WQX and eDMR data flows have not been through the planning stage for Node 1.1. Since the flows are in various stages, it is not possible to identify which flows will be moved to Node 2.0 until the tasks identified are performed.	$100,000
Arizona Department of Environmental Quality	The Arizona Department of Environmental Quality (ADEQ) proposes to expand the agency's network node functionality. This functionality builds upon the foundation of the agency's current Network architecture. ADEQ currently has a production node that exchanges Facility Registry System (FRS), RCRAInfo (Hazardous Waste) and Children's Health (Asthma / Ambient Air) data. ADEQ proposes to use the 2009 grant to share more data over the Network, not only with EPA, but with the general public. ADEQ proposes to exchange TRI and WQX data with EPA over the network. The agency is on schedule to develop exchange flow data for NEI, AQS, and RCRAInfo in early 2009.	$150,000
Arkansas Department of Environmental Quality	The Arkansas Department of Environmental Quality (DEQ) proposes a project to support a national system flow of point source emissions inventory data compiled by each of the State and Local agencies in the consortium that are required to report to EPA's new Emissions Inventory System (EIS). This will be a web-based data collection, management and reporting tool that will expand use of the member agencies Exchange Network Nodes to export data to EPA in its preferred XML format. The new system will be CROMERR-compliant and will allow greenhouse gas (GHG), criteria and toxic air pollutant reporting. The software will be nonproprietary and it will be developed in the most open-ended fashion possible so other agencies may utilize it in the future.	$500,000
California Department of Public Health	The California Department of Public Health proposes a multi partner project to develop new nodes and upgrade to Node 2.0 specifications which will support data exchange and integration using the Exchange Network.	$150,000
Connecticut Department of Environmental Protection	The Connecticut Department of Environment Protection Office of Information Management (CT DEP) proposes to develop and implement a new comprehensive Exchange Network Node 2.0 client that has the ability to support six or more current production flows. The current client which CT DEP utilizes is not configured for Node 2.0 and only supports the Facility Registry System (FRS) data flow CT DEP seeks a single comprehensive client solution that has the capability of accommodating multiple data flows both current and future. The project will include the upgrade of the current FRS data flow from Node 1.1 specification to Node 2.0 to ensure continued interoperability with the new Exchange Network client. Additionally, CT DEP will implement a new Node 2.0 data flow for the Water Quality Exchange (WQX). Project management will be performed through a partnership of the CTDEP Office of Information Management (OIM) and Bureau of Water Protection & Land Reuse (WPLR). WPLR staff will be responsible for expertise in how data from the CT DEP Ambient Water Quality (AWQ) system relates to WQX v. 2.0 data flow specifications.	$120,000

Colorado Department of Public Health and Environment	The Colorado Department of Public Health and Environment propses to develop the infrastructure and tools needed to support Colorado's participation in data exchanges via the Information Exchange Network. The department will be developing its capabilities to send and receive climate change related data, and transferring greenhouse gas data between the state and The Climate Registry. A portion of grant funds will be reserved for travel and training to support CDPHE participation in relevant and necessary Exchange Network Conferences, information sharing with other states or knowledgeable entities, and contractor-provided training of CDPHE staff for support and use of new systems.	$257,437
Delaware Department of Natural Resource and Environmental Control	The Delaware Department of Natural Resources and Environmental Control (DNREC) proposes to develop and implement WQX flows to EPA's CDX to submit biological and habitat data including continuous monitoring data to STORET. DNREC proposes to develop a spatially referenced web application using network publishing and web services to present water quality monitoring data from the exchange network to address water quality status, trends and issues. DNREC will also modify the current Air Emissions Inventory data flow to EPA's CDX consistent with the new EIS schema and develop and implement a Regional BMP data flow.	$300,000
Florida Department of Environmental Protection	The Florida Department of Environmental Protection (DEP) proposes to develop and implement a WQX data flow. Grant funding will enable STORET to link with the WQX Node. Florida has over 19 million records in its STORET database. The ability to automate the process of communicating information to WQX will greatly increase the department's efficiency.	$115,185
Hawaii Department of Health	The Hawaii State Department of Health (DOH) Environmental Health Administration (EHA) proposes to upgrade its Node and existing data flows to 2.0 specifications and to develop, integrate, and implement 3 new data exchanges for the Exchange Network, including the Safe Drinking Water Information System (SDWIS), Water Quality Exchange (WQX), and Emissions Inventory System (EIS) data flows.	$300,000
Indiana Department of Environmental Management	The Indiana Department of Environmental Management (IDEM) will undertake collaborative efforts to extend data reporting services to facility, local city/county governmental units and universities. Emphasis will be placed on development of Enterprise Service Buses (ESB) utilizing COTS products. These products will also enable implementation of a compliant Node 2.0 and significantly extend the ability to present interfaces by which interested parties may transparently obtain data from disparate sources. Additionally, IDEM will undertake EIS-CERS and ICIS-NPDES (hybrid batch) data flows and continue its efforts to appropriately geo-reference existing and future datasets.	$300,000
Iowa Department of Natural Resources	The Iowa Department of Natural Resources (DNR) proposes to implement data exchanges to EPA for air emissions data and water monitoring data. The state plans to develop three data exchanges: Emissions Inventory System (EIS), Greenhouse Gases (GHG), and Water Quality Exchange (WQX). The two air data exchanges will use the same schema, Consolidated Emissions Reporting Schema (CERS). Associated work includes improving the accuracy and access to GIS locations for air release points. The WQX schema will be used both to automate a data flow to EPA and to publish water quality monitoring data through a web service, thus providing streamlined access for applications or other users.	$300,000
Kansas Department of Health and Environment	The Kansas Department of Health and Environment (KDHE) is requesting a grant to upgrade the National Emissions Inventory (NEI) database system and directly transfer the data from the KDHE system to the Federal NEI using the XML schemas to submit Facility Inventory, Point Inventory and Nonpoint Inventory data. The focus area is to deploy a regulatory national system data flow from the state database to the National Emissions Inventory System.	$190,390
Kentucky Department of Environmental Protection	The Kentucky Department of Environmental Protection Division (KYDEP) proposes to implement Node 2.0, and update any flows and processes to the meet the Node 2.0 configuration requirements and integrate or migrate to a generic flow processor that generates XML output files. This includes schema changes to meet the new specification of Node 2.0 and web server hardware/software upgrades.	$77,114
Maine Department of Environmental Protection	The Maine Department of Environmental Protection (DEP) intends to continue to enhance the accuracy and transparency of data in Maine's integrated systems (Environmental Facility Information System (EFIS), Maine Air Inventory Reporting System (MAIRIS), electronic Discharge Monitoring Report (eDMR) and Environmental Geographical Analysis Database (EGAD) and from facilities and laboratories to the state and on to EPA. In order to do so it is imperative that the state can continue funding the EFIS Data Administrator position, obtain contracting assistance for moving data from legacy systems to the integrated systems, make its Node fully 2.0 compliant and purchase tools that will let program staff create new flows without any IT programming. New flows implemented using the new tools will include, WQX, ICIS-NPDES and EIS. This work will continue to expand the use of the Maine Node.	$300,000

Maine Department of Marine Resources	The Maine Department of Marine Resources project goal is to enhance environmental analysis and decision-making by enabling a geospatial data exchange. The department has five additional partners in this grant proposal: Gulf of Maine Ocean Observing System, New Hampshire Department of Environmental Services, University of New Hampshire Complex Systems Research Center, Maine Department of Environmental Protection, and Friends of Casco Bay. To support coordinated management of watershed and marine resources, the partners on this proposal will exchange multi-jurisdictional data with geospatial data compliant with Open Geospatial Consortium standards. A web application that integrates geospatial data with water quality data from multiple organizations and states will be developed to improve environmental resource management and decision making for the Gulf of Maine watershed.	$498,332
Maryland Department of the Environment	The Maryland Department of the Environment (MDE) proposes to upgrade its Node 1.1 and associated hardware and software to Node 2.0. This implementation will guarantee continued interoperability with the Exchange Network, enhance security that will support implementation of the Cross-Medial Electronic Reporting Rule (CROMERR), and will enhance existing technologies and specifications used in simplifying and streamlining the data publishing and dataflow design process.	$92,859
Massachusetts Department of Environmental Protection	The Massachusetts Department of Environmental Protection (MassDEP) proposes to complete an Integrated Compliance Information System - National Pollutant Discharge Elimination System (ICIS-NPDES) project as a Full Batch State via the Exchange Network. MassDEP will integrate NPDES data into the Environmental Protection Integrated Computer System (EPICS), MassDEP's central environmental repository; accept the environmental and energy data electronically from facilities via MassDEP's online reporting system eDEP, expanding theNetDMR XML DMR schema to include the MassDEP data requirements; promote the Energy Star Benchmark Wastewater Treatment Plant (WWTP) Pilot project; and transfer the national, required NPDES fields to ICIS-NPDES via the Exchange Network	$300,000
Massachusetts Department of Environmental Protection	The Massachusetts Department of Environmental Protection (MassDEP) proposes to collaborate with State Partners and the Northeast Waste Management Officials' Association (NEWMOA) to use the Exchange Network to collect and share Mercury-added product information. This project would promote compliance with state mercury reduction laws by mercury product manufacturers, distributors, and retailers; facilitate state efforts to assure compliance with these laws; and support exchange of data with EPA's Mercury Containing Products Database by developing and implementing an Exchange Network Node which will allow states and EPA to share real-time date submitted by manufacturers on mercury containing products.	$407,000
Minnesota Pollution Control Agency	The Minnesota Pollution Control Agency (MPCA) proposes to develop a CROMERR-compliant consolidated electronic emission data receipt system for Minnesota point sources. MPCA currently has three separate emission inventory systems for criteria pollutants; air toxic pollutants, and greenhouse gases. MPCA will improve the efficiency of these processes in order to get data from point sources to the agency's core data system.	$199,556
Mississippi Department of Environmental Quality	The Mississippi Department of Environmental Quality data exchange project will implement the Homeland Emergency Response Exchange (HERE) Network Client tool across the states of Mississippi and Alabama, and implement the Network Node data flow components necessary to make data available to the Client. The implementation will include data exchanges for the Facility Identification and CAFO datasets that the HERE Client is already able to accommodate. Further, the project will extend the HERE Client to include the ability to make available and analyze water quality monitoring data (to provide emergency management officials and water quality stewards with the ability to view and analyze ambient water quality conditions in relation to potential and actual sources of contamination and sensitive receptors).	$150,000
Missouri Department of Natural Resources	The Missouri Department of Natural Resources (DNR) proposes to implement the NetDMR application developed by other states in previous grant projects. Because Missouri has a number of state-specific data management requirements, it has elected to become a batch-user of ICIS-NPDES. In order to make use of the NetDMR application it will be necessary to modify it to communicate with the state's NPDES application rather than EPA's ICIS-NPDES. The introduction of a mechanism to allow electronic submittals of DMRs will reduce the paperwork burden on regulated facilities, reduce DNR's data entry burden, and ultimately lead to the availability of more timely and accurate environmental data.	$299,874
Montana Department of Environmental Quality	The Montana Department of Environmental Quality (MTDEQ) proposes to: develop SDWIS Lab Application Sample Results (LASR) at 5 MTDEQ labs; expand the technical infrastructure of the Network Node; implement data quality audit policies and procedures; comply with CROMERR; provide timely reporting of Sample Lab Analytical Results; and develop and sign a Trading Partner Agreement for SDWIS LASR with MTDEQ PWS Labs.	$299,934

Nevada Division of Conservation and Natural Resources	The Nevada Division of Conservation and Natural Resources proposes to upgrade the State's emissions inventory database to include greenhouse gases and to upgrade the State's node on the Exchange Network to conform to the new Consolidated Emissions Reporting Schema (CERS). There are no partners outside of the agency that are involved in this project, although the State will be coordinating closely with staff from the Climate Registry.	$300,000
New Hampshire Department of Environmental Services	The New Hampshire Department of Environmental Services (NHDES), in partnership with the New Hampshire Office of Information Technology, proposes to continue to maintain and enhance the 1:24,000-scale NH Hydrography Dataset (NHHD), while building capacity that is critical to integrating the data into daily work flows within the NHDES. The overall goal is to assure the availability of high quality geospatial information that can be readily accessed by regulators and decision-makers to assess the vulnerability of water and wetland resources to environmental stresses at the level of individual stream reaches or water bodies and their associated catchments. A new data exchange will be developed to facilitate sharing of stream geomorphic and physical habitat data between the states of New Hampshire and Vermont. The proposed project will significantly enhance the functionality of NHHD by expanding the population of hydrologic event data that are linked to the flow network. In addition, a web-based application will be developed to facilitate discovery of events by selective navigation of the network.	$200,000
New Jersey Department of Environmental Protection	The New Jersey Department of Environmental Protection proposes to migrate its current Node v.1 .1 web services and supporting applications to the new Node v.2.0 specification. In addition to the traditional types of data exchanges, NJ uses its Node for the collection of water monitoring data for a variety of purposes and sources. These dataflows are initiated by NJ's E2 submission system. A data provider submits data using E2 and the submission is processed by the NJ Node.	$235,000
New Jersey Department of Environmental Protection	The New Jersey Department of Environmental Protection project will improve the quality and availability of Toxic Point Source and Area Source air emission inventory data. It will allow New Jersey to integrate its Criteria Point Source data with Toxic Point Source and Area Source data. As a result, these three data sets will be more readily available for data exchange and allow NJ to make one complete submission of emission inventory data to EIS using the CERS schema.	$195,000
New Mexico Department of Environmental Protection	The New Mexico Environment Department (NMED) has three primary goals for this project: upgrading the NMED Node from version 1.1 to 2.0, implementing a CROMERR-compliant Secure Extranet Portal (SEP) for user and document management, and developing a Ground Water Quality Data system to support Class V and underground injection control (UIC) data acquisition, storage and reporting to CDX over the Exchange Network. NMED plans to upgrade its existing Network Node to meet the requirements of the new Exchange Network Node Specifications version 2.0 by deploying the latest Network Node developed by Windsor Solutions, Inc. The Node upgrade will include upgrading current version 1.1 data flows for FRS, NEI (EIS) and SDWIS to the Node 2.0 specification. The SEP will further the Agency's efforts to implement a secure reporting portal to manage users and documents to achieve CROMERR certification. Finally, NMED will design, develop. and implement a system to improve its ability to track and store ground water quality data and report UIC data to EPA's UIC data exchange.	$300,000
North Carolina Department of Environment and Natural Resources	The North Carolina Department of Environment and Natural Resources (NC DENR) project goal is to develop a spatially enabled Integrated Cadastral and Land Use Data Exchange (InCLUDE) for the State of North Carolina and the Eastern Band of the Cherokee Indians. Partners on this proposal are the Eastern Band of the Cherokee Indians, the NC Secretary of State's Land Records Management Program, the NC Property Mappers Association, and the North Carolina State Mapping Advisory Committee's Working Group for Seamless Parcels.	$500,000
Ohio Environmental Protection Agency	The Ohio Environmental Protection Agency Ohio EPA (OHEPA) proposes to upgrade its 9-year old Facility Reconciliation System to a web-based system that will then be integrated into applications enterprise-wide. The upgrade will make data integration more complete and seamless, and will allow a minimum quarterly sharing of facility data versus the current semiannual push of data via the NEIEN. OHEPA will also commit to improving data quality by eliminating duplicate records. OHEPA is also seeking funds to upgrade from node 1.1 to 2.0 and funding to add services for exchange of licensing, registration, and compliance information for solid and infectious waste regulated facilities in Ohio.	$270,000

Oregon Department of Environmental Quality	The Oregon Department of Environmental Quality (ODEQ) project will build infrastructure enhancements to the Pacific Northwest Water Quality Data Exchange. Additional data exchanges will be implemented, such as WQX 2.0 and Emission Inventory System exchange. Innovative projects include Greenhouse Gas with The Climate Registry expansions and a pilot project for data exchange with invasive species data. Furthermore, ODEQ will continue to plan and mentor for the Exchange Network and its participation on advisory/leadership groups. The Oregon Natural Resources Institute (ONRI) at Oregon State University is a participating partner. ODEQ will manage this project by collaborating with ONRI and Oregon Invasive Species Council. ONRI will be responsible for providing the database structure from the Endangered Species dataset while ODEQ will help develop a data standard for invasive species data and create the serializer to work with the NatureServe Node (funded by the FY 2007 EN Grant via Oregon DEQ).	$266,335
Rhode Island Department of Environmental Management	The Rhode Island Department of Environmental Management (RIDEM) proposes to upgrade the Network Node in Rhode Island and provide critical training and experience for RIDEM staff to take full advantage of its node capabilities The proposal seeks to accomplish a Node upgrade to 2.0 and migration of current data exchanges, to include support for the Department of Health Beach Monitoring and Laboratory Analyses of Drinking Water Quality Data (E2) data exchange flows. RIDEM will use the Node 2.0 to flow Air Resource National Emissions Inventory (NEI) data to the Emissions Inventory System (EIS).	$182,518
Tennessee Department of Environment and Conservation	The Tennessee Department of Environment and Conservation (TDEC) will implement the following measures to enhance the exchange node implementation and facilitate biennial reporting pertaining to RCRA data. TDEC proposes to upgrade the existing node infrastructure to Version 2.0 and upgrade the existing FRS data flow; set up exchanges for ICIS-NPDES, and geospatial data exchanges; enhance the state's Hazardous Waste data system and facilitate seamless transmission of Biennial RCRA hazardous waste report to EPA. The strategic direction of this project is to build upon the work in progress at TDEC on exchange network initiatives and to leverage the progress achieved by other exchange network participants. Achieving this project's objectives will sustain Tennesse's node implementation and further TDEC's goal of better protecting the environment through improved information availability and burden reduction.	$260,000
Texas Commission on Environmental Quality	The State of Texas Commission on Environmental Quality (TCEQ) proposes to upgrade RCRA to version 5 Specifications; enhance the EIS Data Flow; and continue TCEQ Node Maintenance.	$150,000
Utah Department of Environmental Quality	The Utah Department of Environmental Quality (UDEQ) plans to develop and implement a WQX system and associated tools to develop XML data flow to WQX. In addition, UDEQ will create Integrated Reporting tools for 305(b) and 303(d) reporting and submission of data to the ATTAINS database. The proposal includes the following tasks: adopt programming and documentation from Iowa DNR for XML submission through the Windsor .net node; migrate existing data from STORET database and biological/habitat; access database to local WQX database; adapt current web map service and data filtering tools to WQX database; create data screening tools for QA/QC of lab and field data; create a web client for cooperating agencies to submit data to DWQ; map existing sites to the high resolution National Hydrography Dataset (NHD) to facilitate Integrated Report assessment and data flow to ATTAINS; and integrate WQX database with existing node software, installation and system support.	$275,000
Vermont Department of Environment and Conservation	The Vermont Agency of Natural Resources (VTANR)/Department of Environmental Conversation (DEC) proposes to design and implement a compliant process that can provide for electronic data exchanges to/from regulated entities. The design will be driven by looking at the Water Supply Public Water System monitoring requirements which will be the fourth eDEC program implementation (the other programs are StormWater MSGP, UST Renewals, and Vermont's Wastewater Water Supply On-Site program). The common-code modules already used for each of the eDEC participating programs will facilitate the re-design of the existing user authentication, data submission, and document upload features of eDEC.	$149,350
Washingon Department of Ecology	The Washington State Department of Ecology (WDE) proposes to create a framework and the tools to allow collaborative data exchange of continuous water-related data. WDE plans to make innovative use of the Water Quality Exchange (WQX) using the existing Environmental Sampling, Analysis, and Results (ESAR) standards. This project, which establishes a new WQX data flow, will allow the sharing of these data though an innovative use of the WQX data exchange. It will also improve salmon recovery and environmental protection through new EN client applications at the WDE for managing and sharing water-related continuous data. The large volumes of continuous data are now housed in isolated "data silos" that are not readily available in an integrated and user friendly format.	$295,312

Wisconsin Department of Natural Resources	The Wisconsin Department of Natural Resources (DNR) proposes to: establish an Exchange Network Laboratory Data Portal; develop a landfill fugitive gas and greenhouse gas data collection system; and coordinate with the National Hydrography Dataset.	$297,195

	38 Total States	**$9,583,391**
Tribes		
Seldovia Village Tribe	The purpose of this project is to develop the Seldovia Village Tribe's (SVT) capability to implement an Exchange Network data exchange. Through the use of funding received from a 2007 NEIEN grant, SVT was able to establish a functional Node. SVT proposes to implement the Water Quality Exchange (WQX) using local water quality monitoring data. Because WQX is a National System Flow, this proposed activity falls in line with EPA's highest priority activity: completing regulatory and national system flows for data exchanges that will be established by 2011. SVT will seek the assistance of a qualified contractor to provide needed technical support for the project and project staff will receive operational and administrative training. As SVT continues to develop their capacity in this technology, they can greatly increase their interactive abilities with EPA in many areas, including our Indian General Assistance (IGAP) program. Upon project completion, SVT will regularly participate in data exchanges and web-based environmental information sharing with EPA and other Node partners, formal project partners and other Tribes and organizations.	$180,055
Navajo Nation	Navajo Nation Environmental Protection Agency (NNEPA) proposes to develop and implement Emission Inventory System (EIS), Open Dump, and net-DMR data exchanges and mentor the Air & Toxics Department (ATD) and Waste Regulatory Departments (WRD) staff to undertake preparation, integration and exchanges of Air Quality System (AQS) and Toxic Release Inventory System (TRIS) data.	$180,000
Bishop Paiute Tribal Council	The Bishop Paiute Tribe's Environmental Management Office (BPEMO) proposes to: revise and update the Bishop Paiute Tribe's (Tribe) Source and Emission Inventory in preparation for submission to the National Emissions Inventory (NEI); participate in the Safe Drinking Water Information System (SDWIS) data exchange; enhance the Bishop Paiute Tribe's exchange of water quality data among its departments and with outside entities; and address key training and mentoring needs of the exchange network users by conducting audit trainings for air programs in the Western Great Basin.	$296,008
Penobscot Nation	The Penobscot Indian Nation (PIN) proposes to construct an in-situ monitoring station; integrate continuous monitoring data into PINE database; and exchange water quality data with EPA. The equipment will be set up to accommodate the collection of data on, at minimum, dissolved oxygen, temperature, chlorophyll A, phycocyanins, colored dissolved organic matter (CDOM), and phosphate.	$299,860
Cherokee Nation	The Cherokee Nation Environmental Programs (CNEP) proposes to: upgrade the existing Cherokee Network Node to Node 2.0 specifications, including the Facility Registry System (FRS) and Open Dump Data Exchanges; integrate current Cherokee Nation Network Node and dataflow with GIS mapping. The CNEP will use GIS technology in the form of ArcGIS by creating a web-based application to provide Cherokee Nation users with access to environmental data. CNEP existing data flows will be integrated with the ArcGIS technology and a web-based GIS application will be developed. CNEP will continue work with the Open Dump data exchange and promote participation on the Exchange Network. CNEP plans to share our Open Dump Data Exchange experience with the members of the Inter-Tribal Environmental Council (ITEC). CNEP will also share WQX experiences and information with EPA Region 6 staff and with other tribes and other interested parties.	$150,000
St. Regis Mohawk Tribe	The St. Regis Mohawk Tribe (SRMT) Environment Division (Division) is seeking to further develop its' network capabilities and infrastructure. The Division will implement functions that make use of the technical infrastructure improvements acquired with NEIEN Readiness funding received for FY 2006. The information systems program will upgrade their existing Node to 2.0 specifications and implement the WQX data flow.	$291,722
United South & Eastern Tribes, Inc.	The United South and Eastern Tribes (USET) proposes to develop infrastructure (including training) for submitting applicable parameters of Clean Water Act §106 data to EPA on behalf of member Tribes using Exchange Network technology, and to implement exchange of the §106 data to EPA using the Water Quality Exchange (WQX) framework. This will require the development of a multi-partner node, hereinafter referred to as the USET node, to interact with Tribal users and exchange the applicable water quality data with EPA. The proposed data environment will also facilitate the exchange of water quality data among member Tribes, if desired.	$150,000

Port Gamble S'Klallam Tribe	The Port Gamble S'Klallam Tribe (PGST), Natural Resources Department project goal is to develop a new 2.0 network Node to initiate data flow and exchange of tribal water quality data to the U.S. EPA Office of Water, Water Quality Exchange (WQX) and further to develop the capability of processing up to five regulatory data exchanges. The five exchanges are: Air Quality Exchange (AQS), Integrated Compliance Information System National Pollutant Discharge Elimination System (ICIS-NPDES), Electronic flow of Discharge Monitoring Report (e-DMR), and the Safe Drinking Water Information System (SDWIS).	$233,106
Wind River Indian Reservation - Shoshone & No. Arapaho Tribes	The Wind River Environmental Quality Commission's (WREQC) proposal is submitted on behalf of the Eastern Shoshone and Northern Arapaho Tribes of the Wind River Indian Reservation. WREQC will update their Node and dataflow to the Node 2.0 version and use existing open source Node 2.0 implementation using a java data publishing/formatting infrastructure. WREQC will also focus on network publishing and will publish the open source code that should help other small entities participating in the Exchange Network with limited budgets and personnel.	$200,000
	9 Total Tribes	**$1,980,751**