

## 710.1 - LOCAL WATER QUALITY ACTIVITIES

### **OBJECTIVE**

To undertake water quality planning activities in Ohio, Kentucky and Indiana, as appropriate and as resources permit.

### **METHODOLOGIES**

- 1) Continue to support watershed activities in Ohio, Northern Kentucky, and Dearborn County as requested and as resources permit. These activities may include participating in technical advisory groups; facilitating meetings; arranging for presentations, tours, and canoe outings; participating in public involvement efforts; and identifying technical and fiscal resources to implement various improvement projects.
- 2) Continue to provide support for the OKI Groundwater Committee, a forum for groundwater management of a sole source aquifer system that provides more than two-thirds of a million people with drinking water and water for commercial, industrial, agricultural and recreational purposes, and helps local governments meet state and federal groundwater mandates.
- 3) OKI will continue to refine the base information and recommendations in the OKI Regional Water Quality Management Plan for the Kentucky and Indiana portions of the region, as appropriate.

### **PRODUCTS**

- 1) Collateral materials for Ohio, Northern Kentucky, and Dearborn County watershed management activities, which may include education and outreach materials, fact sheets, directories, and articles in stakeholder newsletters. (as appropriate)
- 2) Meeting notice, agendas, summaries, and related correspondence. (as appropriate)
- 3) Updated base information and recommendations for the OKI Regional Water Quality Management Plan. (as appropriate)

### **PROFESSIONAL DEVELOPMENT**

The UPWP budget includes funding for two staff members to attend the annual Water Management Association of Ohio (WMAO) Conference (11/11); for one staff member to participate in one WMAO technical workshop during the year; for one staff member to attend the annual Ohio Stormwater Conference and for one staff member to attend the annual Ohio Lake Management Society Conference (3/12).

## 710.6 - WATER QUALITY PROGRAM

### **OBJECTIVE**

To assess, manage, and protect surface water and groundwater resources in view of regional growth and development and the resultant increased demand.

### **PREVIOUS WORK**

OKI published the Regional Water Quality Management Plan in 1977 in accordance with federal and state requirements. Since then, OKI has published numerous supplemental reports, collected additional information, and refined plan recommendations. OKI's Board or Executive Committee has adopted several resolutions amending the plan where local needs have warranted a change in facility planning boundaries or management agency designations. OKI has provided local governments and their consultants with data and information including population and land use information, reviewed grant applications for consistency with the plan, informed the public of major activities and assisted local implementation of plan recommendations. The numerous projects completed through FY 2011 have contributed to a long-term comprehensive database for the region's water resources. Recent initiatives have been related to consolidating information on water quality, water use, the status of watershed planning and attaining state standards for various water uses.

Beginning in FY 2010 and continuing through FY 2011, OKI staff has worked to prepare an update for the Ohio portion of the Water Quality Management Plan. The preparation of the executive summary and final adoption of this plan update is scheduled to occur in FY 2012. In response to Ohio EPA program direction for FY2012, OKI developed a work plan that will also help local government agencies, non-profit organizations and other stakeholders in the Taylor Creek watershed of Hamilton County, Ohio to evaluate water quality data and indicate priority areas for centralized sewer service.

### **METHODOLOGIES**

- 1) Manage the plan adoption process for the Ohio portion of the Water Quality Management Plan update.
- 2) Respond to requests for permit consistency reviews from Ohio EPA, local jurisdictions and other local constituents, and pursue associated needs for amendments to the Regional Water Quality Management Plan.
- 3) Manage the Taylor Creek watershed targeted water quality planning and supplemental 208 Plan maintenance activity as detailed in OKI's contract with Ohio EPA.

### **PRODUCTS**

- 1) Executive summary of the update prepared for the Ohio portion of the Water Quality Management Plan.
- 2) Permit consistency reviews, associated plan amendments as appropriate and public information products as detailed in OKI's contract with Ohio EPA.
- 3) Text and tabular reports, maps, photos and schematics generated for the Taylor Creek watershed targeted water quality planning activity as detailed in OKI's contract with Ohio EPA.

## **710.8 - DEARBORN COUNTY WATER QUALITY MANAGEMENT PLAN UPDATE**

### **OBJECTIVE**

To complete the update to the Dearborn County Water Quality Management Plan consistent with a contract with the Indiana Department of Environmental Management using Clean Water Act Section 205(j) Water Quality Planning Grant funds.

### **PREVIOUS WORK**

OKI published the Regional Water Quality Management Plan in 1977 in accordance with federal and state requirements. Since then, OKI has published numerous supplemental reports, collected additional information, and refined plan recommendations. OKI's Board or Executive Committee has adopted several resolutions amending the plan where local needs have warranted a change in facility planning boundaries or management agency designations. OKI has provided local governments and their consultants with data and information including population and land use information, reviewed grant applications for consistency with the plan, informed the public of major activities and assisted local implementation of plan recommendations. Since the 1977 plan was produced, OKI has executed five contracts with the Indiana Department of Environment Management (IDEM) as part of its water quality management (WQM) planning program, using funds provided by Section 205(j) of the Clean Water Act. OKI applied for and received Section 205(j) Water Quality Planning Grant funds that were available through IDEM from the Recovery Act of 2009 to update the water quality management plan for Dearborn County, Indiana. In FY 2010 staff began working on the plan update by collecting and evaluating data, seeking input from an Advisory Committee of stakeholders and consulting with the public. In FY 2011 staff conducted technical analysis of information available on water resources, point and non-point sources of pollution, management resources, population trends and growth areas, and consulted with the Advisory Committee and the public to prepare the Water Quality Management Plan update.

### **METHODOLOGIES**

- 1) Complete the Water Quality Management Plan update for Dearborn County based on the water quality planning and technical analysis and consultation with stakeholders and the public conducted in FY 2010 and FY 2011.

### **PRODUCTS**

- 1) A current water quality management plan for Dearborn County, Indiana.

Note: This task contains 5 sub-elements required by the funding agency for reporting purposes: 711.8, 712.8, 713.8, 714.8 and 715.8. The Budget tables reflect and aggregate amount.

**OBJECTIVE**

To assess, manage, and protect surface water and groundwater resources in view of regional growth and development and the resultant increased demand.

**PREVIOUS WORK**

OKI published the Regional Water Quality Management Plan in 1977 in accordance with federal and state requirements. Since then, OKI has published numerous supplemental reports, collected additional information, and refined plan recommendations. OKI's Board or Executive Committee has adopted several resolutions amending the plan where local needs have warranted a change in facility planning boundaries or management agency designations. OKI has provided local governments and their consultants with data and information including population and land use information, reviewed grant applications for consistency with the plan, informed the public of major activities and assisted local implementation of plan recommendations. Since the 1977 plan was produced, OKI has executed several contracts with the Ohio EPA using funds provided by Section 604b of the Clean Water Act. The numerous projects completed through FY 2011 have contributed to a long-term comprehensive data base for the region's water resources.

In FY 2010 and FY 2011, OKI worked to prepare an update for the Ohio portion of the Water Quality Management Plan. This comprehensive update included data collection and analysis regarding water resources, on-site wastewater treatment systems, areas of growth and development, nonpoint and point sources of water pollution, watershed planning efforts, wastewater management agencies and their plans for expansion and improvement, and updating and revising wastewater facility planning areas and designated management agencies for wastewater collection and treatment. This update, while comprehensive in scope, also indicated needs and opportunities for accessing data and information sources that are not expected to be fully available until FY2012, such as U.S. Census data for 2010, local planning analyses and pending litigation in some jurisdictions, and stream and watershed evaluations being conducted by state agencies. For that reason, some portions of the updated plan will likely require revisiting and further consideration in FY 2012, and Ohio EPA is expected to continue to provide program direction for such work which will affect its scope and focus.

**METHODOLOGIES**

- 1) Consult with management agencies to get consensus on updates and changes based on identified areas where amendments to the Regional Water Quality Management Plan may be necessary.
- 2) Prepare and present proposed plan updates and amendments for public input.

**PRODUCTS**

- 1) Summary of management agency consultations. (as necessary)
- 2) Updated Water Quality Management Plan and associated plan amendments. (as necessary)

## 720.1 – MOBILE SOURCE EMISSIONS PLANNING

### **OBJECTIVE**

To ensure that OKI's Metropolitan Transportation Plan (MTP) and Transportation Improvement Program (TIP) contribute to the region's attainment and maintenance of national air quality standards.

### **PREVIOUS WORK**

OKI's three Kentucky counties, four Ohio counties and a portion of Dearborn County Indiana have been designated as a nonattainment area for ozone and fine particulates. OKI has coordinated the process of developing local strategies to reduce transportation emissions in support of revisions to the air quality State Implementation Plans (SIPs). OKI has provided the state agencies with mobile source emissions data for use in the development of SIP revisions. OKI has performed conformity analysis for the region's transportation plans and programs, most recently for Amendment #6 to the OKI 2030 Regional Transportation Plan in February 2011. OKI has analyzed the air quality and energy benefits of candidate projects as part of OKI's project prioritization process.

### **METHODOLOGIES**

- 1) OKI will continue to coordinate with federal, state and local air quality and transportation agencies on SIP revisions and air quality planning issues including but not limited to conformity determinations. As appropriate, OKI will review current state and federal legislation and regulations and will provide technical information, current data and implementation status information. OKI will perform and document conformity analyses as required under the CAAA and based upon criteria outlined in the U.S. Environmental Protection Agency's (USEPA) Transportation Conformity Rule (40 CFR Part 93). OKI's Travel Demand Model and the USEPA's latest emissions software will be used to generate the necessary traffic volumes, speed and emission factors. OKI's model will be modified, as needed, to utilize the latest EPA emissions program and latest planning assumptions.
- 2) Staff will evaluate the expected air quality and energy benefits of potential CMAQ, STP and SNK funded projects utilizing the OKI travel demand model and FHWA and EPA accepted off-model methodologies.

### **PRODUCTS**

- 1) Ongoing coordination and consultation with OKI's Board of Directors, OKI Intermodal Coordinating Committee, federal, state and local agencies regarding air quality issues. Preparation of appropriate documentation of Regional Transportation Plan and TIP conformity. Provision of travel and mobile source emission data to support SIP revisions prompted by changes in local emission control programs and federal standards for ozone and particulate matter.
- 2) Quantification of the expected air quality and energy benefits of candidate projects for STP, SNK or CMAQ funding as required.

### **PROFESSIONAL DEVELOPMENT**

The budget includes one staff member to attend the Southern Transportation Air Quality Conference as well as in-state training opportunities.