

FY2021



Strategic Operational Plan



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Table of Contents

Goal 1 Clean Air	4
Objective 1 – Ensure Programs Adhere to Federal and State Statutory and Regulatory Requirements	4
Objective 2 – Ensure Permits are Protective of Kentucky’s Air Quality	7
Objective 3 - Monitor Kentucky’s Air Quality	8
Objective 4 – Assure Compliance and Enforce Air Quality Standards.....	10
Objective 5 – Participate in Programs that Improve Kentucky’s Air Quality	11
Goal 2 Clean and Safe Water	13
Objective 1 – Protect, Manage and Restore Water Resources	13
Objective 2 – Measure Safe Drinking Water Act compliance and provide technical assistance to Kentucky Public Water Systems	16
Objective 3 – Conduct effective water resources planning	17
Objective 4 – Meet federal and state program requirements... ..	19
Objective 5 – Promote better management and communication of data	22
Goal 3 Waste Management and Land Restoration	26
Objective 1 – Ensure programs adhere to federal and state statutory and regulatory requirements	27
Objective 2 – Ensure permits are protective of human health and Kentucky's land resources	29
Objective 3 – Ensure remedial investigation, restoration, and management in place decisions are site specific, risk based, and environmental performance standards prone	30
Objective 4 – Support and encourage economic redevelopment of property with real or perceived contamination	31
Objective 5 – Minimize waste generation and disposal.....	32
Objective 6 – Encourage beneficial reuse and recycling	32
Objective 7 – Respond to environmental emergencies	33
Goal 4 Environmental Compliance	34
Objective 1 – Facilitate the Return of Regulated Entities to compliance with environmental statutes and regulations	34
Objective 2 – Provide assistance to Department programs by issuing and tracking compliance with letters of warning and notices of violation.....	37
Goal 5 Compliance Assistance and Environmental Stewardship	38
Objective 1 – Certify Qualified Environmental Professionals	38

Objective 2 – Help entities comply with Kentucky’s environmental requirements.....	39
Objective 3 – Facilitate Environmental Stewardship	40

Goal 6 Environmental Program Support 43

COMMISSIONER’S OFFICE

Objective 1 – Continue to support and coordinate ongoing department-level programmatic activities	43
Objective 2 – Develop an effective strategic planning process.	44
Objective 3 – Develop and implement annual participation documents with EPA ..	44

DIVISION OF ENVIRONMENTAL PROGRAM SUPPORT

Objective 1 – Provide accurate and defensible chemical analytical services to the program divisions of the Department for Environmental Protection	45
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DEPARTMENT FOR ENVIRONMENTAL PROTECTION

The mission of the Department for Environmental Protection is to protect and enhance Kentucky's environment to improve the quality of life for all Kentuckians. The Department for Environmental Protection envisions a healthy and productive commonwealth with balanced stewardship of the land, air and water where future generations enjoy an environment as good as or better than the present.

Principles:

- **The department will make sound decisions that earn the public's trust.** The decisions made by the department will be prudent, defensible, and consistent with the department's mission and in the best interest of the citizens of the commonwealth.
- **The department will focus on environmental results rather than programs or procedures.** The success of environmental programs will be measured in terms of achieving desirable environmental benefits, not in the number of staff or the size of budgets. We will evaluate programs and procedures in relation to their contribution to the mission.
- **The department will use good scientific information to aid in its decision-making.** The foundation on which environmental protection programs are constructed is an understanding of the causes and effects resulting from actions that impact the environment. Scientific information is critical to the assessment and evaluation of existing environmental conditions and the determination of the effectiveness of our programs. We will employ generally accepted and applicable scientific methods and processes to accomplish our mission.
- **The department will consider the range of environmental benefits and consequences of proposed actions before making final decisions.** Good public policy encourages government agencies to promote actions that maximize benefits to society while minimizing adverse effects. While individual statutes, regulations, programs and organizational units may have a narrow focus, we will always consider the benefits and consequences of our actions to the environment as a whole. The department will evaluate the potential for environmental justice impacts in the decision-making process, including awareness and training for agency staff, and in each of its permitting and non-permitting programs.
- **The department will evaluate its performance using meaningful criteria.** We will require accountability from our managers, supervisors and staff in the continuing evaluation of program performance. We will gauge effectiveness based on actual program results.

Goal 1: Clean Air

Protect human health and the environment by achieving and maintaining acceptable air quality.

Implementing and maintaining programs to achieve federal and state ambient air quality standards in the Commonwealth of Kentucky is important to the health and wellness of all citizens across the state. The amount of air pollution released into the air by industry and transportation sources is quantified and controlled by administering a comprehensive program involving air quality monitoring, planning, construction and operation permitting and inspections.

During FY21 the Kentucky Division for Air Quality will operate 76 instruments, including 10 meteorological stations, located at 24 ambient air-monitoring sites in 23 Kentucky counties. The Louisville Metropolitan Air Pollution Control District will operate an additional 32 instruments, including 6 meteorological stations, in Jefferson County. When combined with the air-monitoring site operated at Mammoth Cave National Park, Kentucky's total ambient air monitoring network will consist of 113 instruments, including 17 meteorological stations, located at 31 sites across 25 counties of the Commonwealth.

Air monitoring stations are selected using U.S. EPA guidance and are generally established near populous areas or pollutant sources. Station locations are reviewed annually to ensure adequate air quality monitoring coverage. Data from the network is used to demonstrate compliance with ambient air quality standards and identify pollution trends. This information is also used to provide pollutant levels for daily air quality index reporting and detect elevated pollutant levels for activation of emergency control procedures

Creating effective partnerships with air pollution sources and the public enables the department to carry out its goal of protecting human health and the environment by achieving and maintaining acceptable air quality for all Kentuckians. The department will evaluate the potential for environmental justice impacts in the decision making process.

Objective 1 – Ensure programs adhere to federal and state statutory and regulatory requirements.

Tactic 1.1: Attain and maintain the National Ambient Air Quality Standards.

Measure: The number of counties currently attaining the 2015 ozone standard.

Baseline: The number of counties originally designated nonattainment for the 2015 ozone standard based upon the ambient monitoring data.

Measure: The number of counties currently attaining the 2012 PM_{2.5} standard.

Baseline: The number of counties originally designated nonattainment for the 2012 PM_{2.5} standard based upon the ambient monitoring data.

Measure: The number of counties currently attaining the 2010 NO₂ standard.

Baseline: The number of counties originally designated nonattainment for the 2010 NO₂ standard based upon the ambient monitoring data.

Measure: The number of counties currently attaining the 2010 SO₂ standard.

Baseline: The number of counties originally designated nonattainment for the 2010 SO₂ standard based upon the ambient monitoring data.

Measure: The number of counties currently in attainment of the 2008 lead standard.
Baseline: The number of counties originally designated as nonattainment for the 2008 lead standard based on ambient monitoring data.

Measure: Improved visibility at Class I areas, including Mammoth Cave National Park, by EPA specified levels at interim deadlines and work toward long-range 2064 background visibility goals.
Baseline: 2000-2004 visibility levels.

Action 1.1.1: Draft 2015 ozone standard nonattainment new source review (NNSR) SIP in preparation for submittal by August 3, 2021.

Action 1.1.2: Draft 2015 ozone standard nonattainment plan for each nonattainment area in preparation for submittal by August 3, 2021.

Action 1.1.3: Implement and enforce federal and state control strategies for 2012 PM_{2.5} standard.

Action 1.1.4: Implement and enforce federal and state control strategies for 1-hour 2010 NO₂ standard (100 ppb).

Action 1.1.5: Implement and enforce federal and state control strategies for areas of Kentucky that do not meet the 1-hour 2010 SO₂ standard (75 ppb).

Action 1.1.6: Conduct education and outreach to those communities expected to be impacted by nonattainment designations.

Action 1.1.7: Implement and enforce the federal programs and requirements contained in the December 2007 Regional Haze State Implementation Plan.

Action 1.1.8: Draft SIP for the second implementation period of the regional haze program for submittal by July 31, 2021.

Tactic 1.2: Develop and maintain a comprehensive State Implementation Plan.

Measure: The number of Infrastructure SIPs currently disapproved or have a Federal Implementation Plan in place for Clean Air Act Section 110(a)(2)(D)(i).
Baseline: The number of Infrastructure SIPs which have been fully approved.

Baseline: The number of Infrastructure SIPs which have been fully approved.

Measure: Improved visibility at Class I areas, including Mammoth Cave National Park, by EPA specified levels. Assure long-range visibility goals are met in 2064 by submitting a Regional Haze Plan for the second implementation period.
Baseline: 2008-2018 visibility levels.

Baseline: 2008-2018 visibility levels.

Action 1.2.1: Submit SIP revisions to convert the FIP for 1997 ozone.

Action 1.2.2: Monitor EPA's actions of the submitted infrastructure SIP for the Pb, O₃, PM_{2.5}, NO₂, and SO₂ standards.

Action 1.2.3: Participate in regional modeling initiatives for ozone and visibility control strategies.

Action 1.2.4: Administer SIP-approved programs implemented as part of historic control strategies.

Action 1.2.5: Develop required control strategy SIP as specified by the CAA and EPA guidance.

Tactic 1.3: Review and revise state air quality regulations.

Measure: The number of regulatory packages developed, promulgated and finalized in FY21.

Baseline: The number of FY20 packages developed, promulgated, and finalized.

Action 1.3.1: Revise state regulations 401 KAR 52:040, 401 KAR52:070, 401 KAR 59:101, 401 KAR 60:005, 401 KAR 61:036, 401 KAR 61:055, 401 KAR 61:056, 401 KAR 63:002, 401 KAR 63:031, and 401 KAR Chapter 68.

Action 1.3.2: Develop and promulgate state regulations to adopt greenhouse gas standards for Electric Generating Units in accordance with the final Affordable Clean Energy (ACE) rule.

Action 1.3.3: Develop a state plan to implement the ACE rule.

Action 1.3.4: Develop a state plan to implement the MSW Rule.

Tactic 1.4: Assess source emissions annually through the Emission Inventory System.

Measure: The number of sources assessed, estimated calendar year emissions, and the amount of emission fees collected during CY 2019.

Baseline: The number of sources assessed, estimated calendar year emissions, and the amount of emission fees collected during CY 2018.

Action 1.4.1: Determine the sources eligible for the emission survey by the first quarter of the calendar year.

Action 1.4.2: Assess source emissions by third quarter of the calendar year.

Action 1.4.3: Assess emission fees by the fourth quarter of the calendar year.

Action 1.4.4: Develop projection of emission fee based on source emission assessments and divisional needs.

Action 1.4.5: Submit 2019 emissions data to EPA's National Emissions Inventory database (NEI) by December 31, 2020.

Tactic 1.5: Ensure air quality programs are fiscally and administratively viable.

Measure: The division staffing levels as compared to cap, budgeted amounts, number of grant programs administered and completed, number of training programs delivered for division staff during FY21.

Baseline: Corresponding measures for FY20.

Action 1.5.1: Prepare the division budget for the fiscal year.

Action 1.5.2: Communicate and coordinate with DEP budget staff on the divisional budget requirements.

Action 1.5.3: Track expenditures and receipts to ensure programs are within designated budgetary amounts.

Action 1.5.4: Implement Cabinet and DEP operational, personnel and human resource policies and programs.

Action 1.5.5: Monitor staffing levels and ensure timely processing of personnel actions.

Action 1.5.6: Educate and provide outreach to division staff on Cabinet and DEP policies.

Action 1.5.7: Track grants programs and ensure grant programs are meeting expectations.

Action 1.5.8: Develop alternative fee strategy for permitted sources.

Objective 2 – Ensure permits are protective of Kentucky’s air quality.

Tactic 2.1: Issue appropriate, lawful permits in a timely manner.

Measures: The total number of permit applications received; the total number of permits issued; the total number of permits pending; the total number of permits pending that exceed regulatory timeframes; the total number of other permit actions (i.e. registrations; off-permit changes; etc.) processed; the number of new permit staff; number of trainings programs provided for permit review staff.

Baseline: Average of the five previous state fiscal years.

Action 2.1.1: Issue permitting actions that are inclusive of all applicable federal and state requirements.

Action 2.1.2: Issue permitting actions within the designated regulatory timeframes.

Action 2.1.3: Accurately track and report on permitting actions.

Action 2.1.4: Evaluate and implement streamlining opportunities to address procedural and institutional inefficiencies.

Action 2.1.5: Recruit qualified permitting staff.

Action 2.1.6: Provide training to increase knowledge and enhance retention of qualified staff.

Tactic 2.2: Conduct air quality modeling to assess source impacts on air quality.

Measures: The total number of air quality and modeling assessments in FY21.

Baseline: Air quality and modeling assessments in FY20.

Action 2.2.1: Assess air toxic impacts as they pertain to permit requirements.

Action 2.2.2: Assess emissions as they relate to NAAQS.

Objective 3 – Monitor Kentucky’s Air Quality.

Tactic 3.1: Operate a statewide ambient air-monitoring network.

Measures: The number of air monitors in the network based on population estimates; number of locations selected to represent population exposure; number of locations selected to represent background concentration levels; number of locations selected to represent regional transport of ambient air pollution; number of monitors and locations to represent source impacts; number of hours of continuous ambient air monitoring data collected; number of particulate matter; lead; and air toxics samples collected; concentrations of pollutants for which national ambient air quality standards have been established; and concentrations of pollutants for which health-based risk standards have been determined.

Baseline: 2015-2019 Kentucky Electronic Data Acquisition Systems and AirVision data, and 2015-2019 Kentucky Air Quality System (AQS) data.

- Action 3.1.1:** Develop and submit to EPA for approval the ambient air monitoring network plan by July 1, 2020.
- Action 3.1.2:** Operate monitoring sites as approved in the ambient air monitoring network plan.
- Action 3.1.3:** Obtain ambient air pollutant concentrations for ozone, sulfur dioxide and oxides of nitrogen on a continuous basis using automated analyzers in accordance with applicable regulatory requirements.
- Action 3.1.4:** Obtain ambient air pollutant concentrations for particulate matter 2.5 microns in diameter or smaller (PM_{2.5}) on a continuous basis using automated samplers in accordance with applicable regulatory requirements.
- Action 3.1.5:** Collect 24-hour samples for particulate matter (including PM_{2.5} and PM₁₀), lead and air toxics per the national EPA Monitoring Schedule.
- Action 3.1.6:** Minimize data loss by ensuring that failed equipment is repaired or replaced within 5 business days after notification of instrument malfunction.

Tactic 3.2: Ensure data accuracy and integrity of the ambient air-monitoring network.

Measures: The number of complete and current Quality Assurance Project Plans (QAPPs); number of complete and current standard operating procedures (SOPs); percentage of quality-assured continuous ambient air monitoring data collected; percentage of quality-assured and valid particulate matter, lead, and air toxics samples collected; number of quality control checks performed on ambient air monitors; and number of ambient air monitoring performance evaluations conducted.

Baseline: EPA's 2015-2017 Kentucky Technical Systems Audit Results.

- Action 3.2.1:** Review 100% of the division's air monitoring QAPPs on an annual basis.
- Action 3.2.2:** Review 100% of the division's technical air monitoring SOPs on an annual basis.
- Action 3.2.3:** Develop SOPs for new methods within 6 months of start-up.
- Action 3.2.4:** Maintain 75% data recovery for each calendar quarter for all instruments within the ambient air-monitoring network.
- Action 3.2.5:** Conduct quality control precision checks on each automated analyzer that collects ozone at least once every two weeks, with results within $\pm 7\%$ difference.
- Action 3.2.6:** Conduct quality control precision checks on each automated analyzer that collects SO₂ data at least once every two weeks, with results within $\pm 10\%$ difference.
- Action 3.2.7:** Conduct quality control precision checks on each automated analyzer that collects NO_x data at least once every two weeks, with results within $\pm 15\%$ difference.
- Action 3.2.8:** Conduct quality control precision checks on each instrument that collects particulate matter samples at least once per month, with results within $\pm 4\%$ difference.
- Action 3.2.9:** Review and submit the annual ambient air quality data certification for each NAAQS pollutant measured by May 1, 2021.

Tactic 3.3: Administer the source-sampling program.

Measures: The number of source sampling events observed; number of test protocol reviews completed; and number of test report technical reviews completed in CY20.

Baseline: Corresponding measures for CY19.

- Action 3.3.1:** Review source-sampling protocols for adherence to standard test methods.

Action 3.3.2: Observe source sampling events to assure compliance with test protocols and permit requirements.

Action 3.3.3: Review source sampling test reports for adherence to standard test methods.

Action 3.3.4: Track source-sampling activities.

Action 3.3.5: Provide technical assistance to staff on source sampling methods and activities.

Objective 4 – Assure compliance and enforce air quality standards.

Tactic 4.1: Inspect sources of air pollution.

Measures: The number of major (Title V) and conditional major/Federally Enforceable State Origin Permit (FESOP) permits; the number of Title V and FESOP full compliance evaluations conducted; the number of annual compliance certifications for Title V major and FESOP sources reviewed; and the compliance rate of Title V and FESOP permit compliance evaluations.

Baseline: Trend data for 5 preceding calendar years.

Action 4.1.1: Complete full compliance evaluations at all Title V sources on a biennial basis.

Action 4.1.2: Complete full compliance evaluations at all FESOP sources on a biennial basis.

Action 4.1.3: Complete review of 100% of submitted annual compliance certifications for Title V and FESOP sources annually.

Tactic 4.2: Initiate enforcement actions regarding violations of air quality regulations.

Measures: Number of Letters of Warning (LOWs) and Notices of Violation (NOVs) issued on an annual basis; number of number of cases referred for further enforcement action on an annual basis; number of High Priority Violations identified on an annual basis.

Baseline: Trend data for 5 preceding calendar years.

Action 4.2.1: Initiate appropriate enforcement action on 100% of high priority violations within 60 days of discovery.

Action 4.2.2: Issue LOWs and NOVs in a timely manner.

Action 4.2.3: Refer unresolved violations for further enforcement action.

Tactic 4.3: Respond to air quality complaints.

Measures: The number of non-asbestos complaints received; number of non-asbestos complaint investigations conducted; number of open burning complaints received (401 KAR 63:005); number of fugitive emission complaints received (401 KAR 63:010); number of odor complaints received (401 KAR 53:010) and the number of LOWs and NOVs issued for these three complaint types.

Baseline: Trend data for 5 preceding calendar years.

Action 4.3.1: Complete complaint assessments, investigations and/or resolutions for 100% of complaints received on an annual basis.

Tactic 4.4: Administer the asbestos program.

Measures: The number of Asbestos Certification and Accreditations processed and number of each that took longer than 30 days to issue; number of Asbestos Hazard Emergency Response Act (AHERA) inspections conducted; number of AHERA school districts selected; number of National Emission Standard for Hazardous Air Pollutants (NESHAP) asbestos notifications received; and number of asbestos NESHAP notification inspections.

Baseline: Trend data for 5 preceding calendar years.

Action 4.4.1: Review and issue certification and accreditations within the 30-day regulatory timeframe (RTF).

Action 4.4.2: Complete inspection of 75% of NESHAP-regulated asbestos activities within the current fiscal year for which the division has received a required notification.

Action 4.4.3: Complete inspection of 20% of selected AHERA local education agencies (i.e. school districts) for the current fiscal year.

Action 4.4.4: Develop required Kentucky Asbestos Orientation Course in an online format.

Tactic 4.5: Administer the gasoline tank trucks leak prevention program.

Measures: The number of tanker truck sticker applications processed, the number of Kentucky pressure-vacuum test stickers issued, and number of each that took longer than 30 days to issue;

Baseline: Trend data for 5 preceding calendar years.

Action 4.4.1: Review and issue tank truck stickers within the 30-day regulatory timeframe (RTF).

Objective 5 – Participate in programs that improve Kentucky’s air quality.

Tactic 5.1: Participate in programs that reduce mobile and off road emissions.

Measures: The number of programs administered, partners, and any emission reduction results for FY21.

Baseline: Corresponding measures for FY20.

Action 5.1.1: Administer the Kentucky Clean Diesel Grant Program.

Action 5.1.2: Partner with the Kentucky Clean Fuels Coalition on initiatives such as promotion of electric vehicles, natural gas and other clean transportation fuels.

Tactic 5.2: Educate the public on Kentucky air quality issues.

Measures: The number of partnerships with teachers and environmental educators, students reached, educational resources developed, and programs initiated/conducted in FY20.

Baseline: Corresponding measures for FY19.

Action 5.2.1: Develop educational resources, including lesson plans, story maps, and online presentations for Kentucky’s primary and secondary educational institutions.

Action 5.2.2: Partner with state and regional organizations on environmental education opportunities.

Action 5.2.3: Develop educational materials including story maps, videos, and stories for social media that educate the public on air quality issues.

Action 5.2.4: Maintain and update the division's website.

Action 5.2.5: Coordinate and conduct public programs, events and exhibitions that educate the public on air quality issues.

Action 5.2.6: Develop and provide talking points, fact sheets, and background information to assist in media response and community outreach

Tactic 5.3: Foster networking through regional and national partnership.

Measures: The number of DAQ staff participating in leadership roles or as committee members in FY21.

Baseline: Number of staff in leadership roles or serving as committee members in FY20.

Action 5.3.1: Participate with AAPCA, AWMA, ECOS and SESARM on programs and initiatives that affect the division.

Goal 2: Clean and Safe Water

To manage, protect, and enhance the quality and quantity of the Commonwealth's water resources for present and future generations through voluntary, regulatory and educational programs.

Kentucky has an abundance of water resources that provide important sources for public water systems, recreation and tourism, and economic opportunities. Managing and protecting the state's waters, including lakes, streams and rivers, as well as the water beneath the ground's surface, is imperative to ensure safe water for human health, the subsistence of important ecosystems, and the prospect of economic development. The department is responsible for regulating and monitoring the quality of drinking water, surface water and groundwater resources and wastewater treatment systems and will evaluate the potential for environmental justice impacts across the state of Kentucky.

Effective regulatory oversight of water quality via federal and state regulations along with appropriate water quality criteria controls the amount of pollutants that can be discharged to water sources. Continuous improvement of water quality in Kentucky is achieved through permitting, compliance and inspection, monitoring, and other water quality improvement programs. Inspections of permitted facilities, in conjunction with collection and analysis of data from rivers, streams, lakes and wetlands throughout the state, enable the department to closely monitor the safety of the public's drinking water and the state's water resources.

The department not only protects the public's safety by regulating water quality, but also assists the federal government in the effort to protect Kentuckians from dam failures and flooding through permits issued by the department for construction, reconstruction and repair of dams issued by the department, and the regular inspections of dams. The National Flood Insurance Program is administered by the department, which also issues permits for construction in regulatory floodplains to prevent losses from flooding in Kentucky.

Through the support of regulatory, monitoring, and water quality improvement programs, Kentucky's water resources are enhanced and protected for present and future generations.

Objective 1 - Protect, manage and restore water resources.

Tactic 1.1: Develop and implement a strategy for completion of Total Maximum Daily Loads (TMDLs) and alternative plans.

Measures: Number of impaired waters scheduled for TMDL development in accordance with the Long Term Vision for Assessment Restoration and Protection under the Clean Water Act (CWA) § 303(d) program..

Number of watershed plans being implemented to address TMDL waterbodies.

Number of watershed plans accepted as TMDL alternatives.

Baselines: Number of impaired waters identified in the 2016 § 303(d) list in Kentucky and prioritized as low, medium, or high for TMDL development.

Action 1.1.1: Develop TMDLs or alternatives in accordance with the CWA § 303(d) Program and Performance Partnership Agreement.

Action 1.1.2: Complete the Statewide Bacteria TMDL Appendices for the Kentucky River Basin.

Action 1.1.3: Work with stakeholders to implement as a TMDL alternative plans and track progress of these plans.

Action 1.1.4: Develop watershed plans to assist in TMDL implementation.

Tactic 1.2: Implement a Nutrient Reduction Strategy.

Measure: Revise Nutrient Reduction Strategy (NRS) with updated priority watersheds. Development of Annual Report to highlight implementation activities..

Baseline: The 2014 Nutrient Reduction Strategy.

Action 1.2.1: Revise and re-issue the Kentucky NRS as an update and develop an annual report of the NRS by December 31, 2020, highlighting progress updating objectives, tactics, and actions, and revising tracking and reporting mechanisms.

Action 1.2.2: Utilize the Nutrient Loads and Yields Study and utilize to inform updated priority watershed selection process by December 31, 2020.

Action 1.2.3: Determine priority watersheds, and develop nutrient loading reduction goals.

Action 1.2.4: Participate in the Mississippi River/Gulf of Mexico Hypoxia Task Force and work to implement the 2008 Gulf Hypoxia Action Plan to meet 2035 goals of the Mississippi River/Gulf of Mexico Hypoxia Task Force.

Action 1.2.5: Participate in meetings of the Kentucky Agriculture Water Quality Authority.

Action 1.2.6: Work with the Agriculture Water Quality Authority to implement protocols and strategic plan with a focus on practices that improve soil health and reduce the loading of nutrients to Kentucky waters.

Action 1.2.7: Develop an Agriculture Water Quality Act (AWQA) education and outreach strategy and seek funding and other opportunities and partnerships to message the requirements and goals of the AWQA by January 1, 2021.

Action 1.2.8: Develop an approach for putting technology-based nutrients limits in KPDES major municipal permits.

Action 1.2.9: Continue collection and assessment of nutrient data to meet the monitoring obligation in the Performance Partnership Agreement.

Action 1.2.10: Determine the Division's path forward regarding numeric nutrient criteria development.

Tactic 1.3: Assess water quality to develop, implement, maintain and enhance aquatic resources.

Measures: Water quality standards developed to protect, maintain and restore water resources.
Number of surface water resources monitored and assessed.
Number of Primary Contact Recreation (PCR) or fish tissue consumption advisories issued or updated.

Baselines: Current water quality standards.
Surface waters assessed for support of the designated use in the 2016 Integrated Report to Congress (2016 IR).
Number of PCR or fish tissue consumption advisories issued or updated in SFY20.

Action 1.3.1: Collect surface water quality data in accordance with the state monitoring strategy and Performance Partnership Agreement to determine water quality conditions of the Commonwealth.

Action 1.3.2: Review and revise the statewide water quality monitoring strategy by June 30, 2021.

- Action 1.3.3:** Review and assess water quality monitoring data to determine designated use support for the waters of the Commonwealth for the 2018/2020 Integrated Report.
- Action 1.3.4:** Coordinate with other agencies to enhance water quality monitoring of the surface waters of the Commonwealth before March 1, 2021 for the 2021 monitoring season.
- Action 1.3.5:** Provide water quality data and geospatial information to coordinating agencies for harmful algal blooms (HABs) recreational and fish consumption advisories.
- Action 1.3.6:** Provide information through the Division’s website, the Water Maps, reports, meetings and press releases for the PCR and fish consumption advisories as they occur or are updated.
- Action 1.3.7:** Promulgate water quality standards through the KRS 13A process in SFY2021.
- Action 1.3.8:** Develop, implement and maintain volunteer monitoring programs.

Tactic 1.4: Assess and protect groundwater resources.

- Measures:** Number of new opportunities identified in the monitoring network.
 Procedure developed to prioritize Groundwater Protection Program efforts in Source Water Protection and Watershed Planning areas.
 Number of Groundwater Protection Plans within source water planning areas.
 Collaborative efforts with other agencies.
 Operational eForms for well installation records and well plugging records.
- Baseline:** Level of completion at end of SFY20.

- Action 1.4.1:** Revise the Groundwater Monitoring Strategy.
- Action 1.4.2:** Better integration Groundwater Protection, Source Water Protection and Watershed Planning programs.
- Action 1.4.3:** Investigate ESRI Collector Application for groundwater monitoring program.
- Action 1.4.4:** Build, maintain and strengthen relationships with Kentucky Rural Water Association, Kentucky Geological Survey, and US Geological Survey, and USGS on groundwater issues, including collaboration on grants, statewide projects and data sharing.
- Action 1.4.5:** Create and implement eForm for groundwater well submittals by December 31, 2020.
- Action 1.4.6:** Develop and implement Water Well Drillers Assistance Program by December 31, 2020.

Objective 2 – Measure Safe Drinking Water Act (SDWA) compliance and provide technical assistance to Kentucky Public Water Systems.

Tactic 2.1: Improving the assessment of public water system compliance with federal and state Safe Drinking Water Act (SWDA) and improving protocols for providing assistance.

- Measure:** Number of violations issued to Kentucky public water systems for non-compliance with the SDWA.
 Number of systems in enforcement due to SDWA or KY regulations violations.
 Number of systems provided assistance with compliance.
- Baseline:** Corresponding numbers from SFY20.

- Action 2.1.1:** Review compliance data submitted by public water systems for compliance with the SDWA.
- Action 2.1.2:** Review quarterly enforcement tracking tool results, patterns of non-compliance and refer public water systems for enforcement as necessary to ensure compliance..
- Action 2.1.3:** Ensure timely submittal of the SDWA primacy packages.
- Action 2.1.4:** Review Wellhead Protection Plans for compliance with SDWA and Water Supply Planning regulations.

Tactic 2.2: Provide assistance to drinking water systems.

Measures: Number of water systems provided technical assistance by the Drinking Water Compliance and Technical Assistance Section.
Number of water systems provided technical assistance.

Baseline: Corresponding numbers from SFY20.

- Action 2.2.1:** Review quarterly enforcement tracking tool results, patterns of non-compliance and use as a tool to determine systems who need technical and compliance assistance.
- Action 2.2.2:** Provide training, communication, and assistance with compliance to public water systems to improve compliance with state and federal SDWA rules.
- Action 2.2.3:** Provide technical assistance upon request to Kentucky’s drinking water systems utilizing internal and contractual staff.
- Action 2.2.4:** Provide targeted technical assistance to small drinking water systems that struggle with disinfection by-product compliance.
- Action 2.2.5:** Assist public water systems with emergencies or urgent situations.
- Action 2.2.6:** Conduct special studies and provide evaluations of drinking water systems that request technical assistance.
- Action 2.2.7:** Administer the Area Wide Optimization Program in Kentucky.
- Action 2.2.8:** Assist drinking water systems with source water protection plan development and implementation.

Objective 3 – Conduct effective water resources planning

Tactic 3.1: Integrate programs and promote the watershed approach.

Measures: Promotion and increased integration of Division programs to manage watersheds across the state.
Number of partners in Center of Excellence.
Promotion and increased usage of Recovery Potential Tool.
Number of “Straight-to-Implementation Plans” in progress.
Progress made in development of watershed success and tracking program.

Baseline: 1997 Watershed Framework.

- Action 3.1.1:** Develop a Healthy Watersheds Program.
- Action 3.1.2:** Target recoverable Watersheds for “Straight-To-Implementation Plans” and being development in targeted watersheds.
- Action 3.1.3:** Institutionalize use of the Recovery Potential Tool for the Division's programs.

- Action 3.1.4:** Promote the Kentucky Watershed Center of Excellence and involve and recruit Watershed Framework partners.
- Action 3.1.5:** Utilize the Public Water Systems Supply Sustainability workgroup to coordinate responses to common issues with water systems.
- Action 3.1.6:** Refine and implement the watershed success and tracking program.

Tactic 3.2: Promote the EPA’s Sustainable Infrastructure Initiative.

Measures: The number of dam safety inspections completed.
 The number of sustainable infrastructure outreach activities completed in.
 The number of projects approved that incorporated “green” methods or practices such as regionalization, conservation, water and energy. Expenditure of State-Owned Dam Repair (SODR) funds.

Baseline: The corresponding numbers from SFY20.

- Action 3.2.1:** Begin implementation of the Drinking Water Action Plan to assist Public Water Systems to implement Resilient and Sustainable Infrastructure Management.
- Action 3.2.2:** Work with Kentucky Infrastructure Authority to conduct training and public outreach workshops to implement changes to the Water Resource Information System to explain the Asset Management Tool and how it can help to implement sustainability by December 31, 2020.
- Action 3.2.3:** Reevaluate the State Revolving Fund project priority ranking systems to award more points to projects that implement sustainable concepts.
- Action 3.2.4:** Implement SODR program strategies and projects. Effectively manage the Bullock Pen and Scenic Lake Dam construction projects.
- Action 3.2.5:** Develop tools to assist local officials, floodplain coordinators, emergency management personnel, dam owners and the public to better understand the benefits and risks of dams.

Tactic 3.3: Plan for sustainable infrastructure.

Measures: The number of facility plans and asset inventories reviewed and approved.
 The number of dam safety inspections completed.
 The number of environmental information documents reviewed and approved.
 The number of projects approved which implement regionalization, and addresses the abandonment of aging private wastewater facilities.

Baseline: The corresponding numbers from SFY2020.

- Action 3.3.1:** Develop with Kentucky Infrastructure Authority, Public Service Commission, and other stakeholders regulations to implement the requirements of House Bill 513 by December 2020.
- Action 3.3.2:** Participate in the Area Development District Water Management Planning Council meetings to assist with planning future water infrastructure.
- Action 3.3.3:** Implement recommendations regarding the relationships between floodplain permitting, floodplain compliance, and dam safety by development of procedures and practices to ensure effective program management.

- Action 3.3.4:** Complete dam safety inspections as scheduled and take appropriate enforcement actions to ensure dams are properly maintained.
- Action 3.3.5:** Evaluate the Capacity Development program and revise the Capacity Development Strategy by December 31, 2020.
- Action 3.3.6:** Participate in and provide support for the Special Committee Public Water and Wastewater System Infrastructure Task Force by November 30, 2020.
- Action 3.3.7:** Develop an Asset Management program and regulations for Privately Owned Small Wastewater Treatment Plants.

Tactic 3.4: Support and coordinate water supply planning.

Measures: Coordinate Water Resources Board committee members and activities.
 Identification of current gaps in water resources planning.
 Status of Water Supply Planning process.
 Evaluation and assessment of current efficiency measures.

Baseline: Promulgation of 401 KAR 4:220 in 1991.
 Water Management Plan updates from 2008.

- Action 3.4.1:** Develop State Water Plan.
- Action 3.4.2:** Update Water Supply Planning process by December 31, 2020.
- Action 3.4.3:** Pilot the Water Efficiency Program with select public water systems.
- Action 3.4.4:** Implement the On-Farm Water Management Program with the Governor's Office of Agricultural Policy, Agricultural Development Board.

Objective 4 - Meet federal and state program requirements.

Tactic 4.1: Meet Federal grant guidance requirements.

Measures: Percentage of Performance Partnership Agreement (PPA) inspections conducted.
 Completion of sanitary surveys within the regulatory timeframe.
 Implementation of Drinking Water State Revolving Fund (DWSRF) set-asides work plans.
 Number of special appropriation projects (SPAP) inspected.

Baselines: FFY2018 and FFY2020 federal commitments.
 Completion of sanitary surveys within the regulatory timeframe during FFY2020.
 The number of SRF and SPAP inspections completed in 2020.

- Action 4.1.1:** Comply with the FFY2020 and FFY2021 PPAs.
- Action 4.1.2:** Develop the FFY2021 106 PPA work plan commitments in coordination with EPA.
- Action 4.1.3:** Submit the final FFY2021 CMS work plan inspections completed to EPA by due date.
- Action 4.1.4:** Meet federal work plans, primacy requirements and applicable National Program Measures within federal timeframes.
- Action 4.1.5:** Submit DWSRF set-asides work plans and Intended Use Plan Project Ranking to Kentucky Infrastructure Authority by April 2021.
- Action 4.1.6:** Conduct field inspections of projects that received SPAP grants in accordance with the federal grant work plans.
- Action 4.1.7:** Conduct field inspections of projects that received financial assistance from the SRF.

Action 4.1.8: Implement Risk MAP (Mapping, Assessment and Planning) watershed prioritization plan and conduct activities pursuant to the National Flood Insurance Program workplan.

Tactic 4.2: Review and revise administrative regulations, and propose legislative amendments to comply with federal regulatory requirements.

Measure: Legislative proposals drafted in the current fiscal year.

Baseline: Corresponding measure for SFY2020.

Measure: Regulatory packages developed, promulgated and finalized in the current fiscal year.

Baseline: Corresponding measure for SFY2020.

Action 4.2.1: Develop regulation packages for division programs that comply with federal and state statutory requirements to manage, protect and enhance the quality and quantity of the Commonwealth's water resources.

Action 4.2.2: Prepare draft legislative agenda to address any issues requiring legislative solutions.

Action 4.2.3: Develop regulation packages that are inclusive of stakeholder concerns.

Action 4.2.4: Coordinates the Division's response to federal and state proposed rule changes within the allotted comment period.

Tactic 4.3: Ensure water programs are fiscally and administratively viable.

Measure: The division staffing levels as compared to cap and budgeted amounts.

Baseline: Corresponding measure for SFY2020.

Measure: Number of grant programs administered and completed within the program period.

Baseline: Corresponding measure for SFY2020.

Action 4.3.1: Assist OAS budget staff with the development of the fiscal year budget based on the division's needs.

Action 4.3.2: Monitor revenues and expenditures to ensure programs are within designated budgetary amounts.

Action 4.3.3: Monitor staffing levels and ensure timely processing of personnel actions.

Action 4.3.4: Educate division staff on changes to Cabinet, Department and Division policies and procedures.

Action 4.3.5: Monitor grant programs to ensure compliance with federal and state requirements.

Tactic 4.4: Provide current information to the public through the division's website and educate staff regarding operations, special needs training and program opportunities within the division.

Measure: The SFY2020 number of information updates and staff trainings developed and conducted.

Baseline: The number of web updates and training seminars for SFY2020.

Action 4.4.1: Update website regarding programs, permitting process and personnel's contact information.

- Action 4.4.2:** Conduct employee orientation twice monthly for all new division employees. Maintain an updated orientation manual.
- Action 4.4.3:** Assist division employees and supervisors with the mandatory training requirements.
- Action 4.4.4:** Coordinate with division staff to identify specialized training needs. Assist in scheduling and facilitating of training. Maintain a training calendar on the Division's sharepoint site.

Tactic 4.5: Meet state requirements and maintain progress toward achieving and maintaining minimal permit backlogs.

- Measures:**
- The total number of permits pending.
 - The total numbers of permits pending that exceed regulatory timeframes (RTF).
 - The total numbers of “major” facilities with permit applications that exceed RTF.
 - The number of general permits that have expired and not been issued or that have not been addressed.
 - The number of general permits Notices of Intent (NOIs) for which coverage has not been issued or that have not been addressed.
 - The percentage of permit reviews completed within RTF.
 - The percentage of construction plan approvals issued within the RTF for drinking water facilities.
 - The percentage of floodplain permits issued within the RTF.
 - The percentage of dam safety construction permits issued within the RTF.
 - The percentage of 401 certifications issued within the RTF.
 - The percentage of water withdrawal permits issued within the RTF.

Baselines: The corresponding percentages from SFY2020.

- Action 4.5.1:** Meet RTF on permit issuances and plan reviews.
- Action 4.5.2:** Re-issue general permits scheduled to expire prior to expiration.
- Action 4.5.3:** Issue permits for all “major” facilities that exceed the RTF.
- Action 4.5.4:** Issue permits for all facilities that exceed the RTF by >1.5 years.
- Action 4.5.5:** Meet regulatory timeframes pertaining to 401 Water Quality Certifications.

Tactic 4.6: Maintain the Drinking Water and Wastewater laboratory certification programs in compliance with federal and state program requirements.

- Measures:**
- The number of water laboratories certified.
 - The number of wastewater laboratories certified.
 - The number of drinking water audits performed.
 - The number of wastewater audits performed.
 - The total number of laboratory accountability actions.

Baselines: Corresponding measure for SFY2020.

- Action 4.6.1:** Maintain a drinking water laboratory audit schedule of one audit per three-year cycle for all non-equivalent laboratories.
- Action 4.6.2:** Maintain a wastewater laboratory audit per five-year cycle for all non-equivalent laboratories.

Action 4.6.3: Address complaints and field referrals through investigations and audits.

Objective 5 - Promote better management and communication of data.

Tactic 5.1: Implement an integrated data management system for water quality data.

Measures: Implementation of Kentucky Water Assessment Data for Environmental Monitoring (K-WADE).

Successful data exchange with USEPA via K-WADE.

Baseline: Level of completion on July 1, 2016.

Action 5.1.1: Increase data type, flow, reporting and efficiency to the Division of Water and USEPA using the exchange network.

Action 5.1.2: Utilize the new KATTS (Kentucky Assessment and Total Maximum Daily Load (TMDL) Tracking System) database to flow assessment data to EPA.

Action 5.1.3: Implement goals from current Exchange Network grant that seek to facilitate incorporation between K-WADE and KATTS.

Action 5.1.4: Implement goals from pending 319 grant that seek to facilitate incorporation between K-WADE and KATTS.

Tactic 5.2: Promote better decision making through GIS and Data Analysis (GDA).

Measures: Number of GIS training events.

Number of data analysis projects completed.

Numbers of GDA help desk requests fulfilled.

Number of location corrections processed.

Number of National Hydrologic Database (NHD) and Geographic Names Information System corrections processed.

Number of Watershed Boundary Dataset (WBD) HUC 12 boundary updates and HUC 14 boundary creations processed.

Baseline: Corresponding measures for SFY2020.

Action 5.2.1: Conduct training events for Division staff regarding GIS and for management regarding GIS analysis and applications.

Action 5.2.2: Work with Division programs to continue systematically analyzing data from current databases.

Action 5.2.3: Evaluate the Kentucky portion of the NHD to ensure accurate data to adhere to federal standards.

Action 5.2.4: Update HUC 12 boundaries and create new HUC 14 boundaries through WBD stewardship program to adhere to federal standards.

Action 5.2.5: Develop GIS tools (including mobile applications and desktop solutions) for inspectors, permit writers, Division staff and the public.

Tactic 5.3: Improve management of drinking water data.

Measures: Maintain data in state and federal Safe Drinking Water Information System (SDWIS).
Implementation of state and federal tools for online data entry.

Maintain or improve data quality metrics for federal SDWIS.
Number of public water systems using eForms and ePortal.

Baseline: Level of completion for SFY 2019.

Action 5.3.1: Collaborate with the Cabinet and EPA to maintain SDWIS until SDWIS Modernization is implemented.

Action 5.3.2: Participate on SDWIS Modernization workgroups.

Action 5.3.3: Develop and implement an overall data management plan which encompasses SDWIS and ARM sync, updating electronic submittal process to eliminate data entry, and federal updates to SDWIS.

Tactic 5.4: Implement Integrated Compliance Information System (ICIS) data flows and data entry via the Discharge Monitoring Report (netDMR) to improve permit compliance, tracking and data analysis.

Measures: Implementation of permit, program reports, and compliance data flows into ICIS.
Implementation of netDMR.

Baseline: Status of flowing data to ICIS and entering data into netDMR for SFY19.

Action 5.4.1: Implement the electronic Notice of Intent system and flow permit data from ARM 2.1 into ICIS for applicable reissued general permits by the effective date of coverage.

Action 5.4.2: Implement electronic reporting for program annual reports for Pretreatment and MS4 communities from ARM 2.1 into ICIS.

Tactic 5.5: Improve the utility of ARM 2.1 to provide more accurate facility information data.

Measure: Improved accuracy demonstrated by ARM 2.1 audit report in SFY19.

Baseline: TEMPO audit reports generated during SFY17.

Action 5.5.1: Improve the utility of ARM 2.1 through data validation.

Action 5.5.2: Ensure new employees receive the latest version of ARM 2.1 training so they are effectively using all features of ARM 2.1.

Action 5.5.3: Regular auditing of water/wastewater permit locations by staff. Develop better methods for synchronization between Integrated Compliance Information System and ARM 2.1 database.

Action 5.5.4: Implement the latest version of ARM 2.1.

Tactic 5.6: Maintain and improve data quality.

Measures: Improved accuracy demonstrated by database audit reports.
Number of staff receiving quality assurance (QA) training in SFY2021.
Number of Division-approved standard operating procedures (SOP) for SFY2021.
Number of Quality Assurance Project Plans (QAPPs) reviewed for the Division.
Number of QAPPs reviewed from outside organization data.

Baselines: Audit reports and laboratory flags generated during SFY2020.
Number of Division-approved SOPs for SFY2020.

- Action 5.6.1:** Conduct regular training for Division staff regarding QA and the review process.
- Action 5.6.2:** Assure cross-database accuracy demonstrated by regular database audit reports.
- Action 5.6.3:** Pursue connection between updated Dam Safety database and ARM 2.1.
- Action 5.6.4:** Pursue connection between SDWIS Modernization and ARM.

Goal 3: Waste Management and Land Restoration

Preserve and restore Kentucky's land through the development and implementation of fair, equitable, and effective waste management programs.

As Kentucky's population grows, the number of homes, businesses, and industries that provide jobs, services, and goods for residents continues to increase. This population and economic growth results in increased use of chemicals and residential and industrial materials, which increases the waste streams and emergencies associated with these activities. The Department for Environmental Protection safeguards and ensures protection of human health and the commonwealth's land, air, water and groundwater resources. The Department will consider the environmental justice impact to communities and identify opportunities for engagement in agency actions.

To accomplish this, the department administers an array of programs that work together to protect human health and the environment from the impacts related to waste, ranging from hazardous, chemical, and petroleum contamination to illegal trash disposal. This strategy protects and benefits the commonwealth in a number of ways. It protects the citizens of the Commonwealth as well as protects and restores Kentucky's natural resources through preventive monitoring programs and remediation, and considers the environmental justice impact to communities. Programs also preserve existing green space through the restoration and reuse of brownfield space for new commercial and industrial ventures. They develop properties with existing infrastructure, beautify communities and raise the value of surrounding properties. They consider the unique concerns of the communities impacted by waste handling and disposal during characterization, remediation, and when the properties are reused. The department regulates and educates the public on these issues concerning solid and hazardous waste management, site remediation at contaminated properties, environmental justice, redevelopment and reuse of impacted properties, operation and corrective action of underground storage tanks, and recycling waste products.

The management of solid and hazardous wastes are achieved through comprehensive permitting, registration, monitoring, reporting, and training requirements. In addition, the department promotes solid and hazardous waste minimization, landfill inspections, conducts public hearings, and provides evaluation of waste streams to ensure proper protection of our state's natural resources on behalf of all the Citizens of the Commonwealth.

The human health and environmental threats from leaking underground storage tanks are managed by a two-fold approach that monitors and prevents leaks and spills, and assesses and remediates contaminated sites. Prevention is achieved through a focus on compliance with state and federal operation and maintenance requirements. The complementary focus on oversight of site assessment and cleanup is supported by the department's management of state funds available for these activities.

The department uses state and federal funds to address environmental emergencies, state-lead assessments, cleanup and remediation of State-Lead and National Priority List sites that are contaminated and abandoned which pose a serious threat to human health and the environment, and redevelopment programs to support and encourage redevelopment of properties with real or perceived adverse environmental conditions. Department personnel work with regulated businesses, contractors, government agencies, and stakeholders to characterize and remediate sites where contamination has been released into the environment. In addition, the department uses regional field offices to support the programs by performing inspections, and ensuring that facilities are compliant with regulatory requirements.

The department encourages public participation through various programs to protect our environment by recycling and reducing waste in order to minimize land disposal and to conserve energy and natural resources.

These programs educate citizens and industry on environmentally friendly practices in the proper management of waste while emphasizing the significant environmental and economic benefits of reducing, reusing, and recycling materials. The program administrators are receptive and sympathetic to public concerns and interests to ensure fair and equitable treatment of all communities.

Objective 1 - Ensure programs adhere to federal and state statutory and regulatory requirements.

Tactic 1.1: Review and revise administrative regulations, and propose legislative amendments to comply with federal regulatory requirements.

Measure: Number of legislative proposals drafted in the current fiscal year.

Baseline: Corresponding measure for FY2020.

Measure: Number of regulatory packages developed, promulgated and finalized in the current fiscal year.

Baseline: Corresponding measure for FY2020.

Measure: Number of public notices issued and public hearing conducted by branch.

Baseline: Corresponding measure for FY2020.

Action 1.1.1: Develop regulation packages for division programs that comply with state statutory and federal requirements in a manner protective of human health and the environment that accurately reflect programmatic policy.

Action 1.1.2: Prepare draft legislative agenda to address any issues requiring legislative solutions and pursue enactment.

Action 1.1.3: Develop regulation packages that are inclusive of stakeholder concerns.

Tactic 1.2: Provide resources and oversight to the regulated community to achieve compliance with federal and state regulations.

Measures: Number and percentage of underground storage tank owners/operators that have completed the required UST Operator Certification training.

Baseline: Corresponding measures for FY2020.

Measure: Number and percentage of solid waste sites complying with KRS 224.43-500, including those solid waste sites required to submit the Environmental Remediation Fee.

Baseline: Corresponding measure for FY2020.

Measures: The percentage of authorized hazardous waste facilities in compliance.
The percentage of registered underground storage tanks in compliance.

Baseline: Corresponding measures for FY2020.

Measure: Number of facility inspections completed by staff to ensure regulatory compliance.

Baseline: Corresponding measure for FY2020.

Action 1.2.1: Utilize Kentucky Tank Operator Online Learning System (KY TOOLS) as a program for UST Operator Certification in accordance with the federal Energy Policy Act. KY

TOOLS offers a site-specific approach to training and testing to support certification, which will significantly aid in increased overall compliance and leak prevention. Other certifications are accepted as well, as long as the training meets all requirements.

Action 1.2.2: Maintain and enhance ARM reporting to accurately track and report on measures.

Action 1.2.3: Inspect regulated sites at established intervals to facilitate and ensure compliance with agency requirements.

Action 1.2.4: Take enforcement action on regulated sites as necessary to facilitate and achieve compliance with agency requirements.

Tactic 1.3: Review and revise quality assurance documents annually and update as necessary.

Measure: Number of Standard Operating Procedures and guidance documents developed or revised in the current fiscal year.

Baseline: Corresponding measure for FY2020.

Measure: Number of Quality Assurance Project Plans developed or revised in the current fiscal year.

Baseline: Corresponding measure for FY2020.

Action 1.3.1: Develop and revise standard operating procedures that comply with state and federal requirements and agency policy.

Action 1.3.2: Revise Quality Assurance Annual Report.

Action 1.3.3: Prepare the division annual report and update the Strategic Operational Plan.

Action 1.3.4: Develop and revise Quality Assurance Project Plans as necessary.

Tactic 1.4: Ensure waste management programs are fiscally and administratively viable.

Measure: The division staffing levels as compared to cap and budgeted amounts.

Baseline: Corresponding measure for FY2020 directed CAP of 230.

Measure: Number of grant programs administered and completed.

Baseline: Corresponding measure for FY2020.

Measure: Amount of Environmental Remediation Fee collected.

Baseline: Corresponding measure for FY2020.

Action 1.4.1: Prepare the division budget for the state fiscal year.

Action 1.4.2: Communicate and coordinate with DEP budget staff on the needs of the division.

Action 1.4.3: Track expenditures and receipts to ensure programs are within designated budgetary amounts.

Action 1.4.4: Implement cabinet, department, and division's operational, personnel, and human resource policies and procedures.

Action 1.4.5: Monitor staffing levels and ensure timely processing of personnel actions.

Action 1.4.6: Educate division staff on cabinet, department, and division policies.

Action 1.4.7: Track grants programs and ensure grant programs are meeting expectations.

Action 1.4.8: Ensure accurate and timely data entry and reporting.

Action 1.4.9: Track amount of environmental remediation fee collected to build trending data on the success of division administration of the fee.

Objective 2 - Ensure permits are protective of human health and Kentucky's land resources.

Tactic 2.1: Issue appropriate, lawful permits in a timely manner.

Measures: Number of hazardous waste permit applications received.
Number of hazardous waste permits pending review.
Percentage of hazardous waste permit reviews completed within regulatory timeframes.
Number of solid and special waste permit applications received by type.
Number of solid and special waste permits pending review.
Number and percentage of solid and special waste permit reviews completed within regulatory timeframes.

Baseline: Average of the five previous state fiscal years.

Measure: Number of training classes completed by division staff.

Baseline: Corresponding measure for FY2020.

Action 2.1.1: Issue permitting actions that are inclusive of all federal and state regulatory requirements.

Action 2.1.2: Issue permitting actions within the regulatory timeframes.

Action 2.1.3: Utilize ARM to accurately track and report on permitting actions.

Action 2.1.4: Evaluate and implement streamlining opportunities to address procedural and institutional inefficiencies.

Action 2.1.5: Allocate staff as necessary to assist in data entry and permit review.

Action 2.1.6: Recruit qualified staff.

Action 2.1.7: Provide training to increase knowledge and enhance retention of qualified staff.

Tactic 2.2: Reduce, eliminate, and maintain zero permit and permit activity backlogs.

Measures: Number and percentage of hazardous waste permits pending review outside regulatory timeframes.
Number and percentage of hazardous waste permit reviews completed outside regulatory timeframes.
Number and percentage of solid and special waste permits pending review outside regulatory timeframes.
Number and percentage of solid and special waste permit reviews completed outside regulatory timeframes.

Baseline: Corresponding measures for FY2020.

Action 2.2.1: Obtain a zero backlog on all remaining applications beyond regulatory periods.

Action 2.2.2: Allocate staff as necessary to assist with data entry and permit review.

Objective 3 - Ensure remedial investigation, restoration, and management in place decisions are site specific, risk based, and environmental performance standards prone.

Tactic 3.1: Restore sites or manage contamination at sites with known or suspected releases to soil or groundwater.

Measures: Number of sites with known or suspected releases with potential human exposures where no further action is required or otherwise controlled as a result of implementing a management in place technique:
Number of underground storage tank cleanups conducted that resulted in a no further action being issued and number remaining.
Number of hazardous waste program corrective actions completed and number remaining.
Number of EPA environmental indicators corrective action measures achieved.
Number of historic landfills remediated and number remaining.
Number of historic landfills with on-going remediation projects.
Number of solid and special waste facilities in groundwater assessment.
Number of illegal open dumps remediated under the Kentucky Pride Program and number remaining.
Number of tire dumps remediated under the Waste Tire Trust Fund and number remaining.
Number of new Superfund sites.
Number of PRP-Lead State Superfund sites under review and number remediated.
Number of State-Lead sites that require remediation, number remediated utilizing the Hazardous Waste Management Fund, and number under review.
Number of sites with a release of petroleum or a petroleum product remediated from a source other than a petroleum storage tank and number under review.
Number of methamphetamine-contaminated properties reported and number decontaminated.
Number of emergency or incident responses made and number of cases closed.

Baseline: Corresponding measures for FY2020.

Action 3.1.1: Identify resource and program constraints hindering achievement of our measures; pursue program changes and request funding as necessary in budget. At a minimum, work to maintain current level of funding in cleanup programs.

Action 3.1.2: Provide technical oversight and directives for projects to investigate, remediate, manage, or restore properties with contamination.

Action 3.1.3: Review analytical and reporting data for projects.

Action 3.1.4: Issue letters upon the completion of all corrective actions for facilities.

Action 3.1.5: Inventory the list of sites with known or suspected contamination.

Objective 4 - Support and encourage economic redevelopment of property with real or perceived contamination.

Tactic 4.1: Provide oversight to the investigation, remediation, management or redevelopment of properties with real or perceived contamination.

- Measures:** Number of sites under review pursuant to the Voluntary Environmental Remediation Program.
Number of brownfield sites assessed under the Targeted Brownfield Assessment Program and number awaiting review.
Number of KRS 224.1-415 Brownfields Redevelopment Program applications received, number of eligibility letters issued, and number of concurrence letters issued.
- Baseline:** Corresponding measures for FY2019.

Action 4.1.1: Review project data and determine compliance with program requirements.

Action 4.1.2: Issue notices and letters for projects in accordance with regulatory guidelines.

Objective 5 - Minimize waste generation and disposal.

Tactic 5.1: Ensure proper management and disposal of waste.

- Measures:** The compliance rates for authorized solid waste management facilities.
The amounts, by weight, of litter, open dump waste, and household hazardous waste collected by counties through the Kentucky Pride program.
- Baseline:** Corresponding measures for FY2019.

Action 5.1.1: Inspect regulated sites at established intervals to facilitate and ensure compliance with agency requirements.

Action 5.1.2: Increase communications between permitting central office staff and field operations staff.

Objective 6 - Encourage beneficial reuse and recycling.

Tactic 6.1: Encourage reduced waste generation and disposal by promoting beneficial reuse, recycling, waste minimization, and pollution prevention.

- Measures:** Tonnage of municipal solid waste recycled or reused, by type.
Tonnage of material recycled through the State Government Recycling Program.
Tonnage of solid or special waste used as Alternate Daily Cover (ADC).
Percentage of solid or special waste used as Alternate Daily Cover (ADC).
Number of waste tires used in tire-derived fuel projects, crumb rubber grants and other beneficial reuse purposes as a percentage of number of tires generated.
Number of recycling grants and total amount of funding administered.
- Baseline:** Corresponding measures for FY2019.

Action 6.1.1: Maintain and enhance ARM reporting or other databases to accurately track and report on measures.

Action 6.1.2: Provide education and outreach for recycling opportunities.

Action 6.1.3: Update recycling fact sheets, as more current information is available.

Action 6.1.4: Administer grant programs in accordance with regulatory requirements.

Action 6.1.4: Publish The Marketplace for Recycling Commodities newsletter.

Action 6.1.5: Identify resource and program constraints hindering achievement of measures; pursue program changes and request funding as necessary in budget.

Objective 7 - Respond to environmental emergencies.

Tactic 7.1: Respond with efficient, coordinated, and effective action to minimize environmental damage.

Measure: Number and percentage of plans/procedures reviewed/revised.
Number and percentage of required training courses completed.
Number and amount requested of grant applications submitted.

Baseline: Corresponding measure for FY19 activities.

Action 7.1.1: Coordinate the activities of the Emergency Response Team (ERT) to effectively respond to environmental incidents.

Action 7.1.2: Develop and maintain all Standard Operating Procedures and Standard Operating Guidelines of the ERT to include ERT Operations and Procedures Plan, On-Scene Coordinators Field Guide, Drinking Water Emergency Plan, Response Coordinators Guidelines, and others as necessary.

Action 7.1.3: Coordinate training for the ERT On-Scene Coordinators to include HAZWOPER, QCS Training, Air Monitoring, Oil Spill Containment Training, Flood Control Training, Hazardous Materials Training, and others as necessary.

Action 7.1.4: The ERT will seek to upgrade outdated air monitoring equipment.

Action 7.1.5: The ERT will acquire three cargo trailers. The trailers will allow the Branch to outfit the trailers with supplies consisting of sample containers, absorbent pads and booms, etc. This will allow the Branch to respond quicker with supplies during spills throughout the Commonwealth.

Goal 4: Environmental Compliance

Ensure environmental compliance using a clear and consistent approach of enforcement.

Proper enforcement stops violators from releasing illegal pollution into the air, water and onto the ground. In situations where federal and state environmental laws have been violated, enforcement ensures responsible parties are held accountable for the contamination of the environment. Responsible parties are directed to clean up contaminated property or reimburse the department for the cleanup.

The Division of Enforcement serves both compliance and enforcement functions. Through its Compliance and Operations Branch, the Division's compliance efforts focus on identifying violations, notifying the regulated entity of the violations and returning the regulated entity back to compliance through informal processes without the assessment of penalties. This is uniquely different from the responsibilities of the Civil Enforcement Branch, which focuses on addressing violations that have already been cited, following formal administrative processes to resolve the violations and routinely assessing civil penalties as a part of the resolution.

The enforcement process is conducted through referrals either from the Department's program divisions or internally from the Compliance and Operations Branch. When regulated entities fail to return to compliance through the compliance process, the referring party prepares, organizes and summarizes case-specific documentation and refers the violation to the Division of Enforcement's Civil Enforcement Branch for formal enforcement action.

The Division's Compliance and Operations Branch operates an extensive program of performing compliance reviews of discharge monitoring reports (DMRs), which are submitted by facilities to demonstrate compliance with Kentucky Pollutant Discharge Elimination System (KPDES) Permits. The DMR compliance program has been critical in addressing numerous wastewater non-compliance issues in the Commonwealth, with most reviews being conducted of municipal and private wastewater treatment facilities and surface coal mining facilities. The Compliance and Operations Branch also issues Notices of Violation for violations referred by Central Office Programs from the Division of Air Quality, Division of Waste Management and the Division of Water.

Objective 1 - Facilitate the return of regulated entities to compliance with environmental statutes and regulations.

Tactic 1.1: Facilitate processes that result in the successful resolution of environmental enforcement cases.

Measure: The number of new cases received in the Division during the fiscal year.

Baseline: From July 2015 through June 2020, the Division received an average of 34 new cases per month and an average of 407 new cases per fiscal year.

Measure: The number of cases closed by the Division during the fiscal year.

Baseline: From July 2015 through June 2020, the Division closed an average of 17 cases per month and an average of 205 cases per fiscal year.

Measure: The total number of enforcement cases in the Division.

- Baseline:** From July 2015 through June 2020, the Division had an average of 644 open enforcement cases.
- Measure:** The number of cases open in the Division of Enforcement only for monitoring compliance with an Agreed Order or Secretary's Order.
- Baseline:** From July 2015 through June 2020, the Division had an average of 228 enforcement cases open for monitoring of an executed settlement document (Demand Letter, Agreed Order and Secretary's Order).
- Measure:** The number of cases in the Division that are unassigned.
- Baseline:** From January 2015 through June 2010, the Division had an average of 75 unassigned enforcement cases.
- Measure:** The total amount of civil penalties collected and supplemental environmental projects imposed from enforcement cases during the fiscal year.
- Baseline:** From July 2015 through July 2020, the Division collected and average of \$2,164,302 in civil penalties per fiscal year.
- Measure:** The number of Agreed Orders signed by the responsible party in enforcement cases or cases otherwise resolved.
- Baseline:** From July 2015 through June 2020, the Division has received an average of 6 Agreed Orders signed by the responsible party per month and has received and average of 71 Agreed Orders signed by the responsible party per fiscal year.
- Measure:** The number of Demand Letters or Settlement Letters issued per fiscal year.
- Baseline:** From July 2015 through June 2020, the Division mailed an average of 6 Demand Letters to the responsible party per month and an estimated average of 70 Demand Letters to the responsible party per fiscal year.
- Measure:** The number of agreed orders and Administrative Orders signed by the Secretary in enforcement cases per year.
- Baseline:** From July 2015 through June 2020, an average of 6 Agreed Orders was executed per month and an average of 67 Agreed Orders was executed per year.
- Action 1.1.1:** Maintain and update protocols and the mechanisms necessary to implement timely and effective enforcement of environmental laws.
- Action 1.1.2:** Develop staff expertise in air, waste management and water programs to allow the Division to more effectively facilitate compliance with environmental laws.
- Action 1.1.3:** Work closely with program divisions to resolve enforcement cases in a timely and effective manner.
- Action 1.1.4:** Develop criteria and format for monthly reporting of Division activities and accomplishments to program divisions and Department and Cabinet management.
- Action 1.1.5:** Develop and implement criteria and mechanism for prioritizing enforcement cases to be referred to Cabinet attorneys for legal action.

Tactic 1.2: Resolve enforcement cases in a timely manner.

- Measure:** The length of time required to draft a case resolution proposal for approval once a case has been assigned to staff.
- Baseline:** The average time is 41 days to draft a case resolution proposal once a case has been assigned to staff.
- Measure:** The length of time required to hold a settlement conference after a case resolution proposal has been drafted.
- Baseline:** The average time is 90 days to hold a settlement conference after a case resolution proposal has been drafted.
- Measure:** The length of time required to reach an agreement in principle or refer a case to EPLD after a case resolution proposal has been drafted.
- Baseline:** The average time is 153 days to reach an agreement-in-principle after a case resolution proposal has been drafted, and an average of 305 days to refer a case to EPLD after a case resolution proposal has been drafted.
- Measure:** The length of time required to draft an agreed order or demand letter once an agreement-in-principle has been reached.
- Baseline:** The average time is 22 days to draft an agreed order once an agreement-in-principle has been reached, and 17 day to draft a demand letter once an agreement-in-principle has been reached.
- Measure:** The length of time required to have the responsible party under an executed settlement document once a case has been assigned to staff.
- Baseline:** The average time is 336 days from case assignment to execution of a DEP agreed order, 196 days from case assignment to mailing of a demand letter, 909 days from case assignment to execution of an EPLD agreed order, 1,023 days from case assignment to execution of a Secretary’s Order, and 1,140 days from case assignment to execution of a court decision..

Objective 2 – Provide assistance to Department programs by issuing and tracking compliance with letters of warning and notices of violation.

Tactic 2.1: Facilitate processes for the issuance and tracking of compliance with letters of warning and notices of violation.

- Measure:** The number of letters of warning and notices of violation issued by DENF per year.
- Baseline:** From July 2015 through June 2020, the Division issued an average of 0 Letters of Warning per month and an average of 112 Notices of Violation per month. From July 2015 through June 2020, the Division issued an average of 1 Letter of Warning per fiscal year and an average of 1,341 Notices of Violation per fiscal year.

Action 2.1.1: Monitor and report on a yearly basis the number of letters of warning and notices of violation issued by DENF.

Action 2.1.2: Work closely with program divisions to issue letters of warning and notices of violation in a timely and effective manner.

Goal 5: Compliance Assistance and Environmental Stewardship

Promote responsible environmental stewardship.

The Division of Compliance Assistance administers four programs: certification and licensing, environmental compliance assistance, environmental leadership (KY EXCEL), and brownfield redevelopment. The division's innovative approach to facilitating compliance and excellence is improving the environment for all Kentuckians.

Certification – DCA provides training and testing services for environmental professionals certified for operators of wastewater, drinking water and solid waste facilities. These well-trained and knowledgeable professionals are entrusted with protecting public health.

Outreach – DCA is a technical resource for all individuals with environmental questions and needs. Understanding and complying with a very diverse and extensive set of environmental requirements can be confusing. Even committed and experienced environmental professionals face times when they simply need help. DCA provides email and telephone assistance for anyone seeking help with an environmental concern. DCA provides assistance with understanding environmental requirements to the public and adapts methods of communication based on the audience demographics

Recognition and Redevelopment – DCA strongly believes that the future of Kentucky's environment depends on the stewardship of its citizens. Every day, people make both large and small decisions in their homes, workplaces and communities that can benefit or harm the environment. DCA is helping these individuals and regulated entities become more aware of the economic and environmental benefit that result from sustainable decisions and provides recognition through its programs. Additionally, Kentuckians benefit both economically and environmentally from redevelopment of underutilized properties.

Education - DCA is providing Kentucky with the knowledge it needs to care for Kentucky's environment. In a 2008 survey, respondents identified a lack of knowledge regarding environmental requirements as one of the greatest barriers to ensuring environmental compliance. The training opportunities provided by DCA equip front-line environmental professionals with the information they need to succeed in their environmental efforts.

DCA is uniquely positioned to partner with Kentucky's corporate and private citizens to proactively build environmental values and facilitate positive behaviors throughout Kentucky. DCA is accomplishing this through partnerships, training, mentoring and technical support.

Objective 1 - Certify qualified environmental professionals.

Tactic 1.1: Certify environmental professionals to maximize appropriate actions and effective operations at regulated locations.

Measure: The number of certification licenses issued annually.

Baseline: In FY09, the Division of Compliance Assistance issued the following certification licenses:

Wastewater Certifications -	180
Wastewater Certification Renewals -	1068
Drinking Water Certifications -	273

Drinking Water Certification Renewals -	273
Solid Waste Certifications -	138

- Action 1.1.1:** Process certification applications and administer examinations in an accurate and timely manner to ensure that individuals possess the minimum competencies necessary to properly perform their professional duties.
- Action 1.1.2:** Participate in collaborative efforts with partner agencies to help promote the operator profession.
- Action 1.1.3:** Provide administrative support for the Kentucky Board of Certification of Wastewater System Operators and the Kentucky Board of Certification of Water Treatment and Distribution System Operators.
- Action 1.1.4:** Increase the program’s state and national involvement to stay informed of operator issues, ensure the program is prepared to respond to changing needs and influence the state and national policy related to certified operators.

Objective 2 - Help entities comply with Kentucky’s environmental requirements.

Tactic 2.1: Provide quality, one-on-one assistance services that help regulated entities comply with environmental obligations.

Measure: Changes in environmental knowledge and behavior resulting from one-on-one assistance activities.

Baseline: In FY08, the Division of Compliance Assistance responded to and received feedback from clients:

- Client Assistance Requests - 867
- Small Business Assistance Requests - 289
- Client Response - 72% indicated a change in knowledge
83% indicated a behavior change

- Action 2.1.1:** Implement effective, proactive and reactive multi-media compliance assistance services with a special emphasis on small businesses and communities to enhance environmental performance.
- Action 2.1.2:** Serve as point of contact and advocate for the public and entities regulated by the Department to ensure that department programs are appropriately implemented.
- Action 2.1.3:** Communicate the availability of compliance assistance and the benefits of the program.

Tactic 2.2: Implement meaningful programming that provides individuals with the knowledge needed to increase environmental compliance and performance.

Measure: Percent satisfaction from training events and the number of individuals reached through training and resources developed.

Baseline: FY12 indicators for communication tools and training:
88.5% satisfaction from training evaluations
1833 – Number of individuals trained on compliance topics (OCP and ECAP trainings)

11 – Number of regulatory resources developed

8 – Number of regulatory trainings provided

Action 2.2.1: Work with agencies within DEP to produce and facilitate quality training that includes accurate and timely technical and regulatory information.

Action 2.2.2: Work with agencies within DEP to provide resources that clarify environmental requirements and offer technical solutions to common challenges.

Action 2.2.3: Establish communication tools that empower the regulated community to determine the environmental obligations that apply to their location and the resources that are available to make it easier for them to comply.

Action 2.2.4: Work with other state and federal agencies to develop comprehensive educational resources for the public.

Objective 3 – Facilitate Environmental Stewardship

Tactic 3.1: Encourage environmental stewardship by making the public more aware of the opportunities they can act on to make their communities stronger and healthier.

Measure: Number of entities assisted with stewardship projects and individuals trained.

Baseline: FY12 indicators are as follows:

10 – Number of entities assisted with stewardship projects

112 – Number of individuals trained on stewardship topics (Brownfield and KY EXCEL)

10,586 – Audience reached through DCA communication tools (Facebook, Exhibits, Presentations and LAW)

Action 3.1.1: Provide quality, one-on-one assistance services that help individuals identify, plan, and implement environmental projects that are not required by Kentucky law.

Action 3.1.2: Offer quality environmental stewardship training to enable actions that improve Kentucky’s environment and create healthier, stronger communities.

Action 3.1.3: Develop and compile stewardship resources in partnership with organizations, state and local agencies, nonprofit entities and other stakeholders.

Action 3.1.4: Establish communication and technical assistance tools that empower the regulated community to determine the stewardship resources that are available to increase their sustainability.

Tactic 3.2: Recognize and publicize voluntary actions that improve Kentucky’s environment and promote environmental awareness.

Measure: The number of voluntary actions identified as a result of DCA programs.

Baseline: In FY10, the number of voluntary actions observed was as follows:

New KY EXCEL Voluntary Projects - 121

Environmental Stewardship Award Nominations - 44

Action 3.2.1: Implement KY EXCEL, an environmental leadership program that recognizes entities for their voluntary commitments to improve Kentucky's environment.

Action 3.2.2: Administer the Department's environmental stewardship award program and EXCEL recognition events.

Action 3.2.3: Communicate the successes of Kentucky's environmental stewards.

Tactic 3.3: Increase visibility of the Brownfield Redevelopment Program by providing technical and fiscal assistance opportunities.

Measure: The number of Brownfield communication and technical assistance tools developed and Targeted Brownfield Assessments conducted.

Baseline: In FY13, the DCA's Brownfield program conducted the following outreach and assessment activities:

22 - Communication tools developed

8 - Number of applicants assisted with grant applications

5 - Number of Targeted Brownfield Assessments (Phase I assessments, Phase I updates, Phase II assessments)

Measure: Amount of funds issued through and repaid to the Cleaner Commonwealth Fund.

Baseline: In FY13, the DCA's Brownfield program managed the following funding support activities:

5 - Number of grant or loan applications received

\$98,000 - Amount of CCF grants obligated

\$0 - Amount of CCF loans issued

Action 3.3.1: Serve as a resource that encourages environmentally sustainable communities and facilitates the cleanup and beneficial reuse of Brownfield properties.

Action 3.3.2: Establish communication tools that raise awareness and empower communities to initiate Brownfield redevelopment projects.

Action 3.3.3: Provide Targeted Brownfield Assessments with the goal of redevelopment.

Action 3.3.4: Evaluate and maintain standard operating procedures and tracking mechanisms for CCF.

Action 3.3.5: Promote federal funding opportunities and assisting eligible entities in grant preparation.

Action 3.3.6: Process applications for CCF and award eligible applicants.

Goal 6: Environmental Program Support

Improve quality, efficiency and effectiveness of environmental programs and activities through innovative strategies, tools and approaches.

The Department for Environmental Protection involves a range of activities that collectively provide support to ensure decisions made by the department are practical and consistent with the department's mission. These activities provide a foundation to achieve desired environmental benefits in the best interest of Kentucky's citizens. The Department assists with economic development activities to ensure they occur in a sustainable and environmentally beneficial manner.

Assessing the environmental status of Kentucky's air, land and water is important to determine potential threats, evaluate risks and identify solutions to protect the environment and safeguard human health. The department maintains a centralized laboratory that performs analytical sample testing of water and soil to determine the nature and extent of pollutants within the Commonwealth. The department also maintains a 24-hour emergency environmental response line for accidental spills and releases of toxic and hazardous material that threaten the environment.

Administrative support of information technology enables the department to efficiently manage data in a timely manner. Addressing the technological needs of our environmental management systems is an essential aspect of providing web-based electronic services to the public. Advancement of the department's technology and streamlining environmental response programs will provide the best possible service to Kentucky's local governments and communities.

Improvement in organizational and employee development, quality assurance and workplace safety are important areas to facilitate the accomplishment of the agency's mission and goals. The Department provides assistance with considering environmental justice in agency programs. Empowering employees with the tools, knowledge and skills to contribute effectively and efficiently enables employees to achieve long-term sustainable results to protect and enhance Kentucky's environment.

COMMISSIONER'S OFFICE (CO)

Objective 1 – Continue to support and coordinate ongoing department-level programmatic activities.

Tactic 1.1: Identify recommendations that will assist in providing the service and responsiveness required for carrying out the day-to-day activities in the Commissioner's Office.

Measure: Provide recommendations to the Commissioner on an ongoing basis.

Baseline: Corresponding previous fiscal year department-level activities.

Action 1.1.1: Coordinate e-clearinghouse and NEPA document reviews.

Action 1.1.2: Coordinate U.S. Army Corps of Engineers Public Notice Reviews.

Action 1.1.3: Coordinate review of Pollution Control Tax Exemption Certificates.

Action 1.1.4: In collaboration with EEC Office of Administrative Services, coordinate special projects including, Governor's Conference on the Environment, KECC, and other department-wide activities.

Action 1.1.5: Collaborate with the Economic Development Cabinet to provide information on permitting and environmental compliance.

Objective 2 – Develop an effective strategic planning process.

Tactic 2.1: Develop a Department for Environmental Protection strategic plan for SFY20.

Measure: DEP strategic plan development is coordinated by the Commissioner’s Office staff and completed at the beginning of the state fiscal year.

Baseline: Strategic plans are finalized in advance of deadlines.

Action 2.1.1: Ensure that the SFY20 Strategic Plan for the Commissioner’s Office and each of the six department divisions are finalized by June 1, of each year.

Action 2.1.2: Ensure the Department’s goals and objectives are compatible with the SFY20 Department budget.

Action 2.1.3: Align the Department’s strategic plan with Cabinet’s strategic plan.

Action 2.1.4: Complete the mid-year status update to the Strategic Plan in January 2020.

Action 2.1.5: Each division shall publish an annual report by September 15 of each year including results of the Strategic Plan measures and actions for the previous state fiscal year.

Tactic 2.2: Assist staff in understanding their role in the DEP strategic plans by ensuring that employees are clear about the objectives, goals and directions of the agency.

Tactic 2.3: Provide input into USEPA’s strategic planning processes at both the national and regional levels.

Objective 3 – Develop and implement annual participation documents with EPA.

Tactic 3.1: Develop Performance Partnership Agreement (PPA) for SFY20.

Measure: DEP shall submit the annual Performance Partnership Agreement (PPA) by August 1 of each calendar year.

Baseline: Performance Partnership Agreement finalized in advance of deadline.

Action 3.1.1: Review and comment on National Program Guidance to ensure Kentucky’s voice in the development of biannual EPA environmental priorities and implementation strategies.

Action 3.1.2: Negotiate annual DEP priorities and commitments list (P&C list) with EPA senior management in advance of PPA submittal.

Action 3.1.3: Work with EPA contact to develop P&C list negotiation schedule.

Action 3.1.4: Work with DEP divisions to develop annual PPA P&C list.

DIVISION OF ENVIRONMENTAL PROGRAM SUPPORT (DEPS)

Objective 1 – Provide accurate and defensible chemical analytical services to the program divisions of the Department for Environmental Protection.

Tactic 1.1: Analyze environmental samples collected by the Water, Waste Management, and Air divisions for chemical constituents.

Measure: The number of environmental samples analyzed each year.

Baseline: In calendar year 2019, there were 5998 samples analyzed by the Division of Environmental Program Support (DEPS) laboratory. There were 4706 samples in the previous year. The number of samples analyzed will be substantially less in the coming year due to COVID-19.

Action 1.1.1: Provide testing services for samples in accordance with the allocated budget.

Action 1.1.2: Maintain an average turn-around-time of less than 14 days for samples submitted beyond July 1, 2020. The average turn-around-time for all samples received in CY19 was 15.75 days. In CY 18 the laboratory averaged 17.70 days for 4706 samples.

Measure: The number of individual tests performed by the Division of Environmental Program Support laboratory.

Baseline: In calendar year 2019, there were 60,390 individual tests performed by the DEPS laboratory. In CY18 the laboratory performed 52,810 tests. The number of individual tests performed will be substantially less in the coming year due to COVID-19.

Action 1.1.3: Provide individual testing services in accordance with the allocated budget.

Measure: The number of individual chemical parameters reported by the DEPS laboratory.

Baseline: In 2019, there were 281,474 individual chemical parameters reported by the DEPS laboratory. In CY18 that number was 236,130. The number of individual chemical parameters will be substantially less in the coming year due to COVID-19.

Action 1.1.4: Provide chemical parameter reporting to meet department needs.

Measure: The number samples reported by the DEPS laboratory outside the 30 day from delivery.

Baseline: In 2019, there were 125 individual sample reports reported by the DEPS laboratory outside the 30-day mark. This represented 2.09% of the total samples for the year. In CY18 there were 256 individual samples reported outside the 30 day window which accounted for 5.44% of the total samples that year.

Action 1.1.5: Provide reports to clients within 30 days of delivery. The division goal is less than 5.0%.

Tactic 1.2: Maintain accreditation by USEPA and the National Environmental Laboratory Accreditation Program (NELAP).

Measure: Accreditation status of the Division of Environmental Program Support laboratory.

Baseline: The DEPS laboratory must maintain accreditation for around 240 drinking water parameters through the USEPA and over 300 non-potable, soil and tissue parameters through NELAP. An acceptable rating of greater than 95% is expected.

Action 1.2.1: Participate in a minimum of 2 Proficiency Testing (PT) studies approximately 6 months apart.

Action 1.2.2: Pass 2 out of the last 3 consecutive studies to maintain accreditation for various analytical methods.

Action 1.2.3: Secure funding through budget planning and contract writing that will pay for the on-site auditing fees biannually so that accreditation can be maintained.

Action 1.2.4: Review DEPS Laboratory analytical and administrative SOPs and Laboratory Operations and Quality Assurance Manual (LOQAM) annually and update as necessary. Maintain all SOPs with 23-point criteria.

Tactic 1.3: Upgrade the analytical instrument base of the DEPS laboratory.

Measure: The analytical capacity and dollar value of new and replacement instrumentation.

Baseline: The DEPS laboratory maintains a major analytical instrument inventory with a baseline dollar value in excess of \$2 million.

Action 1.3.1: Secure additional funding that will allow replacement of old or outdated equipment and instruments.

Action 1.3.2: Secure additional funding that will allow purchase of equipment that utilizes new technologies to meet the department's changing program needs and areas of concern for the future.

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