

Oklahoma Department of Environmental Quality



Fiscal Year 2004 Annual Report

This publication, printed by the University Of Oklahoma Printing Services, is issued by the Oklahoma Department of Environmental Quality as authorized by Steven A. Thompson, Executive Director. Eight-hundred copies have been printed at a cost of \$13,655.00. Copies have been deposited with the Publications Clearinghouse of the Oklahoma Department of Libraries. V:\DENISE\2004AnnualReport\ 8-18-04_ 10/14/04 Printed on recycled content paper.

Contents

Contents	3
Letter From the Executive Director	9
Employee Recognition Committee	10
Employees of the Year and Quarter	11
Awards and Special Recognition Section	
President's Achievement Award Winner	12
Award-Winning Partnerships	12
ScienceFest 2003 Oklahoma Wins First Team Builder Award	13
Hudson Refinery Team Receives EPA 2003 Strategic Alliance Award	14
Outstanding Alumnus Environmental Accomplishment Award Recipient	15
Land Reclamation Program Receives Keep Oklahoma Beautiful Award of Excellence	16
Fenton Road Receives Outstanding Public Service Award	16
Local Services Employees Receive the DEQ Award for Heroism	17
Local Services Employee Brings Environmental Knowledge to India	18
DEQ Receives National Recognition	20
DEQ Receives Award for Excellence in Business Recruitment	21
Marilyn Simpson, Financial Manager/Comptroller, Retires	22
Environmental Quality Board Rulemaking Activities	23
Environmental Quality Board	26
Councils	
Air Quality Advisory Council	27
Hazardous Waste Advisory Council	28
Solid Waster Advisory Council	28
Radiation Advisory Council	29
Waterworks and Wastewater Works Advisory Council	29
Water Quality Advisory Council	30
Small Business Advisory Panel	31
Laboratory Services Advisory Council	31
Environmental Enforcement and Supplemental Environmental Projects	34
Nexus Project	35
Tar Creek Stories Lead Media Coverage	36

Contents

Air Quality	
Air Quality: Guardian to a Prairie Sky	38
A Distinguished Public Servant Resigns	39
Major Changes to Minor Source Permitting	39
CLEARING THE AIR: Air Quality Division Compliance and Enforcement Activities	
Stress Emission Reductions to Promote Cleaner Air	40
AQD Looks Back: The First Years of Title V Permitting	42
Air Quality Division Models Air Quality	46
Talking to the Neighbors: Regional Air Planning	47
Air Quality Coordinates ScienceFest 2004	48
Visibility in the Wichita Mountain Wilderness Area	51
Ponca City Air Toxics Assessment	52
Air Monitoring Update 2003	53
Changes in Emissions Inventory Reporting	57
DEQ Provides Assistance to Quapaw Tribe Environmental Program	59
Asbestos Program: Regional Office at Tulsa	60
Land Protection	
Cement Kilns Find A Supplemental Fuel Source In Oklahoma's Waste Tires	65
Oklahoma Refining Company (ORC) Superfund Site	68
Cleanup of Greenway Environmental	70
Oklahoma Refinery Roundup	72
Tar Creek	76
DEQ Extends Sampling in the Tar Creek Superfund Area	80
Tar Creek Cooperative Project Underway	81

Contents

When Trash is a Treasure: Recovering Lost Radioactive Sources in Oklahoma	82
Unique EPA/State Coordination Makes Abandoned Site Investigation Happen	84
Horsehead Corporation Bartlesville Facility	86
Cimarron Center/Federated Metals Brownfield Site Nominated for International Development Award	88
DEQ Evaluates Alternate Landfill Covers	90
Solid Waste 2003 The Year in Review	91
Conference Attendees Glean Ideas for More Sustainable Living	93
DEQ Employees Involved as University Instructors	96
DEQ Recycles	98

Water Quality

DEQ Water Quality Activities	100
Completion of Five DWSRF Projects in Fiscal Year 2004	101
\$100 Million Increase in Revenue Bonds Planned	103
DEQ 'Rains Down' in Storm Water Outreach	104
2004 Water Quality Assessment Integrated Report	105
Progress Made on Minor Permit Backlog	106
DEQ Looks at Watershed-Based Permitting	107
Public Water Supply Security	108
Ground Water Monitoring	109
DEQ Implements the Oklahoma State STORET Program	110
Environmental Management Through GIS	110
Streamlining the Inspection Process	112
Keeping the State Parks Beautiful	113

Contents

Water Quality Division Software Development	115
Area Wide Optimization Program Training	116
Water Quality is On-line with Operator Certification	117
H ₂ Oklahoma Festival	118

Customer Services

Customer Services Introduction	120
DEQ Gears Up For Changes In Safe Drinking Water Act	121
State Environmental Laboratory Prepared for EPA Certification Audit	122
DEQ Co-Hosts Pollution Prevention Conference	124
DEQ Rewards Pollution Prevention Efforts in the State	125
Plastics Industry Focus of DEQ Outreach Effort	126
DEQ Responds to Grain and Feed Association Request for Help	127
Laboratory Accreditation Program Responds to Customers: New Categories Added	128
DEQ Makes Filing Hazardous Chemical Reports Easier	129
DEQ Assists With Production of a Pamphlet to Help Citizens	130
DEQ Investigates Links Between the Environment and Public Health	131
Publications and Graphics Support DEQ Programs and Activities	132

Contents

Local Services

Environmental Complaints and Local Services	134
Southgate Recycling	135
Saving Clean Air and Blue Sky	136
Coming Together State and Private Sector Join Forces	137
Stormwater Changes for Local Services	138
Local Services Granting Oklahoma a Cleaner Environment	140
Local Services Promotes Annual Poster Contest Program	141
Complaints Office Goes "Public"	143
Local Services Experiences Great Responses	146

Contents

Appendices

Air Quality	148
Land Protection	151
Water Quality	154
Customer Services	157
Local Services	159
Environmental Quality Report.....	163
2004 Solid Waste Report	189
2004 Tire Report	190

Letter From the Executive Director

Reading the annual report always lifts my spirits. I am reminded of the broad range of activities of DEQ; I am reminded that an agency that views itself as a problem solver is indeed solving problems; I am humbled by the many citizen policymakers who unselfishly give of their time and resources to make Oklahoma a better place; My belief that the DEQ has the best employees in state government is reinforced; I am surprised by the magnitude of public service activities that DEQ employees engage in after working hours.

So it should not be surprising that in partnership with others, Oklahoma has maintained attainment with all National Ambient Air Quality Standards. Land contaminated by historic activity is being returned to productivity. New, innovative solutions are emerging at Tar Creek. Drinking water supplies continue to become healthier and safer as new requirements are addressed. Historic wastewater problems at state parks are being fixed. Public knowledge of the quality of our water is improving. Outreach to help industrial and commercial sectors has shown positive results.

All this while we continue to operate our nationally recognized citizen complaints program and while we continue to assist in business recruitment to further improve the quality of life for our citizens.

With the help of many, the DEQ continues to strive – for a clean, attractive, prosperous Oklahoma.

A handwritten signature in black ink, appearing to read "Steve H. Casper". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Employee Recognition Committee

The Employee Recognition Committee (ERC) promotes good working relationships throughout DEQ and is comprised of a representative from each division. The committee members are asked to serve for a two-year period. These volunteers are responsible for planning agency-wide events, keeping their division apprised of upcoming events and actually doing the work involved in making the event happen.

Employee of the Quarter and Employee of the Year awards are presented each year by the Employee Recognition Committee. DEQ employees nominate co-workers for the Employee of the Quarter award. These employees are recognized for outstanding customer service, teamwork, problem solving and leadership. The selected employee is awarded a plaque, a gift certificate and use of a designated parking space for the quarter.

The Employee of the Year is selected from the four quarterly winners. The Division Directors select the employee they feel exceeds the normal standards for service to DEQ and the citizens of Oklahoma. The Employee of the Year is awarded a personalized plaque and a gift certificate. The employee's name is

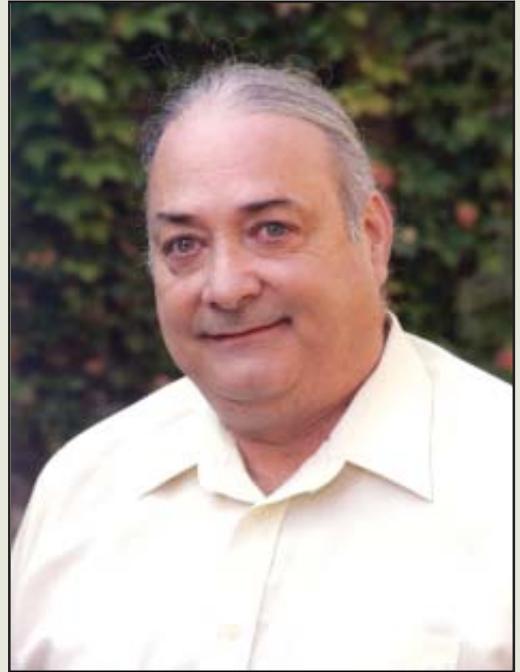
added to a traveling Employee of the Year plaque and the employee receives a designated parking space for the year.

The ERC sponsors agency-wide social functions to encourage interaction among employees. The ERC Committee honors agency employees with a luncheon and snacks during the Public Employee Recognition Week in May each year. The employees in the local offices across the state are recognized at their spring regional meetings with a gift bag from the ERC.

ERC serves refreshments for each New Employee Orientation throughout the year. The ERC helps to welcome our new employees by furnishing door prizes for these meetings.

The ERC is responsible for organizing the Christmas party and other agency-wide receptions or social events. The committee was responsible for planning and coordinating DEQ's 10th Anniversary celebration in July 2003. The ERC also sponsored a Christmas food drive for a church food pantry located near the DEQ building. The ERC and the church were overwhelmed by the amount of food under the Christmas tree. DEQ employees cheerfully shared their Christmas with less fortunate members of the community. ■

Employees of the Year and Employees of the Quarter



Denise Harkins and Morris Moffett were selected "Employees of the Year" for Fiscal Year 2004.



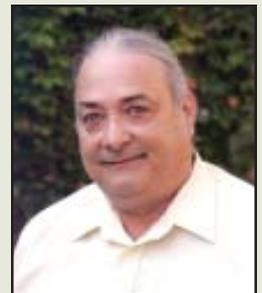
Bryan Sims



Denise Harkins



Melissa Sims



Morris Moffett

Awards and Special Recognition Section

President's Achievement Award Winner

Congratulations to Melissa Sims, Environmental Program Specialist, in the Air Quality Division! The Oklahoma Association for Environmental Education (OKAEE) selected Melissa for the President's Achievement Award for 2003-2004.

Melissa is recognized as an outstanding leader and motivator within the environmental education community. She is described as a creative non-traditional educator with strong environmental ethics, which she is able to impart to her audience through her knowledge and enthusiasm.

Melissa has been an active participant in planning and organizing many environmental education events throughout Oklahoma. She brings eagerness and creative ideas to meetings and projects which makes her an asset to any committee on which she serves.

Partnering with diverse groups to accomplish many great projects such as H2Oklahoma Festival, ScienceFest Oklahoma, and OKAEE Expo, Melissa always strives to make each year better than the last. ■



Melissa Sims with the President's Achievement Award for 2003-2004

Award-Winning Partnerships



The Oklahoma Environmental Education Coordinating Committee was awarded "Outstanding Organization of 2003" at OKAEE's annual awards ceremony.

The Oklahoma Environmental Education Coordinating Committee (OKEECC) was selected as the Outstanding Organization of 2003 by the Oklahoma Association for Environmental Education (OKAEE).

The OKEECC was formed in 1992 and is comprised of Oklahoma governmental agencies that are actively involved in providing environmental education to Oklahomans. Committee members include community and county agencies,

public institutions of higher education, state agencies, and federal agencies that have Oklahoma-based staff involved in environmental education. The mission of OKEECC is to foster an awareness and appreciation of Oklahoma's natural resources by coordinating environmental education efforts. The OKEECC has initiated and completed several projects that would not have been possible for a single agency to accomplish alone. These are the annual H₂Oklahoma Water Festi-

val, the "Guide to Community Environmental Improvement and Beautification," Seeds of Success, and the EnvironMentor Newsletter.

The Department of Environmental Quality, one of the original member agencies, continues to be an active member of OKEECC. DEQ representatives on the committee are Ellen Bussert, Administrative Services Division; Susie Shields, Land Protection Division; Melissa Sims, Air Quality Division; and Regina Clear, Water Quality Division. ■

ScienceFest 2003 Oklahoma Wins First Team Builder Award

Kee Oklahoma Beautiful presented the first "Team Builders Award" to Sciencefest 2003 during its 2003 awards ceremony.

ScienceFest was recognized as an extremely successful collaboration among state agencies, businesses and organizations that do not normally work side by side. The teamwork and partnerships displayed by the planning committee are truly unique.

Major sponsors of ScienceFest 2003 included the Oklahoma Department of Environmental Quality, OGE Energy Corporation, and the Association of Central Oklahoma Governments through a U.S. Department of Energy grant, the Oklahoma Department of Commerce State Energy Program, and the Office of Secretary of Environment. Other contributors were Oklahoma

Continued on next page



ScienceFest planning committee members and sponsors are winners in the first-ever "Team Builders" award presented by the Keep Oklahoma Beautiful organization.

City Zoological Park and Botanical Garden, Tinker Air Force Base, Oklahoma City Public Schools, and C.H. Guemsey Company.

The success of a year's planning was realized when 5,000 fourth and fifth grade students and teachers from across the state converged on the Oklahoma City Zoo for ScienceFest. Held on Earth Day 2003, students had the opportunity

to attend Oklahoma's premier science education event. The zoo was transformed into a learning laboratory with 30 hands-on interactive activity stations, six different workshops and many environmental exhibits.

The unqualified success of Sciencefest in reaching and engaging elementary school students is good news for Oklahoma's environmental future. ■

Hudson Refinery Team Receives EPA 2003 Strategic Alliance Award

EPA Region 6 awarded the 2003 Strategic Alliance Award to DEQ's Hudson Refinery Superfund Site team for the assistance it provided during the 1998 - 1999 Emergency Response and the 2002 - 2003 Removal Action. The award recognizes collaborative efforts between state and federal employees that enhance the project's results. According to EPA Regional Administrator Richard Greene, the "award recognizes the outstanding partnership between the Oklahoma Department of Environmental Quality and the U.S. Envi-

ronmental Protection Agency as we work collegially to protect human health and the environment in Oklahoma." The DEQ team was honored with individual plaques.

The Hudson Refinery closed in 1982. By 1998, it had deteriorated to the point that it presented an imminent threat to the surrounding community. DEQ assisted EPA during the critical cleanup activities and provided assistance with community relations, evacuation planning, press relations, radiological surveys, sampling, and technical assistance and support. ■

Team members from left to right: Angela Brunsman, Monty Elder, Marvin Boatright, Barbara Rauch, Kelly Dixon, Dr. Rita Kottke, Steve Hoggard, Ray Roberts, and Amy Johnson. Not Pictured: Dr. Mary Jane Calvey, Evelina Morales, Dr. Dennis Datin, Hal Cantwell, Pam Bishop, and Michael Dean



Outstanding Alumnus Environmental Accomplishment Award Recipient



Dr. Rita Kottke – OSU's 2004 "Outstanding Alumnus Environmental Accomplishment" Award Recipient.

Every year one distinguished alumnus from the Environmental Science Graduate Program at Oklahoma State University's (OSU) Environmental Institute is selected from a list of nominees to receive the "Outstanding Alumnus Environmental Accomplishment" Award. The individual chosen to receive the Award is recognized for his/her exemplary record of transdisciplinary accomplishments in the environmental profession. The 2004 award recipient was Dr. Rita Kottke, a 12-year veteran of DEQ. In recognition of her professional achievements, Dr. Kottke was presented with an

engraved glass trophy at the annual Environmental Awards Banquet. The banquet was sponsored by the OSU Environmental Institute, Environmental Science Graduate Program, and Environmental Science Undergraduate Program. Dr. Kottke's name will be permanently displayed on an alumni awards plaque, and the Environmental Science Graduate Program will allocate \$500 in her name to an Environmental Science graduate student who is likely to excel in a professional environmental career. Rita received her doctorate in Environmental Science from OSU in 1998. ■

Land Reclamation Program Receives Keep Oklahoma Beautiful Award of Excellence

The DEQ's unique Land Reclamation Program won the 2003 Keep Oklahoma Beautiful Government Agency Award in the category of Environmental Improvement. The program works with local governments to remove dilapidated structures. The demolition material is used to reclaim scarred land. The program saves municipalities thousands of dollars every year by diverting the waste from landfills into productive reclamation projects. ■

Marvin Boatright, Director of the Land Reclamation Program, displays the Keep Oklahoma Beautiful Award.



Fenton Rood Receives Outstanding Public Service Award



The Sierra Club bestowed its 2003 Outstanding Public Service Award on Fenton Rood, Environmental Programs Manager III, in the Land Protection Division. The award is presented annually to an Oklahoman for outstanding commitment and/or public service consistent with the conservation ideals of the Sierra Club. He was honored for his innovative methods for environmental problem solving and for inspiring others to think outside the box. Miles Tolbert, Oklahoma Secretary of the Environment, presented the award to Fenton at the annual awards banquet. ■

Fenton Rood displays his 2003 Outstanding Public Service Award.

Local Services Employees Receive the DEQ Award for Heroism



From left to right: Gary Collins, ECLS Division Director; Steve Thompson, DEQ Executive Director; Jonathan Robinson, ECLS Environmental Specialist; Paul Richardson, ECLS Environmental Specialist; Rick Austin, ECLS Regional Manager.

In January 2004, DEQ Executive Director Steve Thompson presented the DEQ Award for Heroism to Local Services employees, Paul Richardson and Jonathan Robinson.

Don Neal, an Environmental Specialist with Local Services, experienced a very serious heart attack while in the Wagoner office with Paul and Jonathan just before Christmas 2003. Working together, Paul and Jonathan immediately began perform-

ing CPR for Don and also called 911 for emergency response. Don's condition was extreme, so he was medi-flighted to a hospital in Tulsa for critical care.

According to his doctors, Don Neal is still with us only because of the immediate actions of Paul and Jonathan. On behalf of Don's family and Don's DEQ family, we want to thank Paul and Jonathan for their life-saving actions and quick thinking. ■

Local Services Employee Brings Environmental Knowledge to India

In late 2003, Richard McDaniel, a Regional Manager with Local Services, was selected to participate in a Group Study Exchange to India sponsored by Rotary International. Richard spent the month of January 2004 in the Indian state of Uttar Pradesh, where he exchanged ideas on the methods of public and industrial wastewater treatment, water supply concerns, and air quality issues with his counterparts in India.

Richard gained insight into the way the Indian culture and locales deal with issues similar to those faced by us. Richard says some areas lack basic sewage systems and, in these areas, raw sewage is discharged directly into the streets. While there, he toured an industrial wastewater treatment plant similar to those found in the United States and of-

fered ideas on upgrades and improvements in which his Indian peers had expressed interest. Air quality issues were also addressed concerning some industries.

Richard's exchange group spent some time touring the state of Uttar Pradesh, traveling to several cities and staying with Rotarians while there. The group also toured the Taj Mahal and other landmarks. Richard said cattle, goats and pigs roamed the streets; elephants are used for transportation; and monkeys fought all night long outside the window of his room in Faizibad.

Richard said the Indian architecture was beautiful and the people were great and treated the exchange group wonderfully. He also said the countryside in Uttar Pradesh was very similar to Oklahoma. ■



Sewage in the street



Offering ideas



Air quality concerns



Water quality



Elephant transportation



Monkeys in Faizbad



David Pruitt retrieves data from the DEQ web site GIS viewer .

DEQ Receives National Recognition

The DEQ has been selected to receive national recognition for outstanding work in the field of Geographic Information System (GIS) technology. The Environmental Systems Research Institute selected DEQ to receive the "Special Achievement in GIS" award from over 10,000 user sites worldwide for recognition among GIS professionals.

The Environmental Systems Research Institute has long been accepted as the leading producer of GIS application software being utilized by GIS professionals worldwide. Receipt of this award is true recognition among the international community of GIS professionals, and it showcases the dedication our professionals put into the DEQ web site GIS viewer that makes it unique worldwide. ■

DEQ Receives Award for Excellence in Business Recruitment



Pictured from left are Betty Kauer, Charles Kimbrough, Fenton Rood, Phillip Fielder, Dawson Lasseter, Dave Dillon, Kyle Arthur, Judy Duncan, John Reid, Vikki Dearing and Linda Dunn.

In December 2003, DEQ was recognized by the Oklahoma Department of Commerce, the Governor's Economic Development Team and the Oklahoma Business Roundtable for outstanding service to the growth of Oklahoma's economy. The DEQ, a member of the Governor's Economic Development Team, has for several years provided a "one-stop shop" service for numerous manufacturing projects interested in locating in Oklahoma.

The Customer Assistance Program, housed in the Customer Services Division, provides this "one-stop" service by acting as the single point of contact for DEQ during the initial stages of siting a new plant. This service involves forming a Permit Assistance Team, which coordinates with all the divisions in DEQ to advise a new company on the permitting and other regulatory requirements of DEQ. In addition, this service involves outlining typical timeframes for permitting

and the public review process. During FY 2004, DEQ met with 16 site locators from companies interested in doing business in Oklahoma. It was the rapid and professional service given to each company by DEQ that merited the agency's recognition as an outstanding business recruitment asset for Oklahoma. ■



John Reid, Director of Business Location at ODOC, presents DEQ's Executive Director Steve Thompson with award.

Marilyn Simpson, Financial Manager/Comptroller, Retires

Marilyn Simpson retired on August 1, 2003, with 33 years of service to the State of Oklahoma.

Marilyn began working part-time as a college student on March 27, 1970, in the Water Quality Service of the Oklahoma State Department of Health (OSDH). She was a Clerk I and earned \$107.50 a month. Her job responsibilities included working in the Central Files and entering bacteriological water analyses results in a log. She was also responsible for entering milk lab results in a log even though this was not a function of the Water Quality Service.

Marilyn began her work for the state at 3400 North Eastern (now Martin Luther King Blvd.) in a building that was formerly a Union Soldier's Home. In 1973 the agency moved to the building at NE 10th and Stonewall. They felt like they had moved to a castle. Little did she know at that time she would be involved in the huge undertaking of moving DEQ to its own building in 1998. She stated that it was a lot of work, but was well worth the effort for the agency to be housed in its own building.

During Marilyn's tenure with the state, she has served as secretary to the Service Chief of the Water Quality Service, as Administrative Assistant performing financial

duties in what is now the Land Protection Division, and as an Administrative Officer supervising the Environmental Health Finance Office. Her final position was the Financial Manager/Comptroller of DEQ.

As supervisor of the Environmental Health Finance Office, Marilyn was responsible for overseeing the implementation of the Hay Study for the OSDH Environmental Health Services in 1981. The study determined proper classifications and increases in salaries for state employees. The Finance Office was involved with many of the positions going before a review panel because of the amount of the salary increases, employees appealing their new classifications and volumes of paper work to implement the new changes.

Marilyn assisted in the implementation of a new financial computer system at OSDH called QS. The system had multiple problems and did not function properly for two or three years. In the meantime, all budgeting and accounting work was done manually or on dual systems.

Marilyn spent many hours assisting in the creation of DEQ. The financial and personnel data that had to be provided for the legislative process was enormous. Trying to

determine what funds and which personnel would be a part of the new agency was a very tedious, emotional, and time-consuming task. The new agency had to take on responsibilities that had previously been accomplished by the administrative staff of the OSDH. Some of the tasks were to provide personnel services, benefits management, budgeting with the Office of State Finance and processing of claims and payroll. Marilyn stated that one of

her most thrilling moments of the entire process was when she called her bank at 5:00 a.m. on July 31, 1993, and was able to verify that payroll had actually processed and automatic deposits had been made.

Marilyn's knowledge of the entire financial process of operating DEQ is appreciated and will be missed. Her efforts during the creation of DEQ and her expertise in managing the finance section will long be remembered. ■

Environmental Quality Board Rulemaking Activity

The Environmental Quality Board (EQB) is a 13-member body appointed by the Governor with the advice and consent of the Senate. Its members are drawn from a variety of industrial, commercial, governmental and public interest backgrounds. The Board is the rule-adopting body for the Department of Environmental Quality (DEQ). During Fiscal Year 2004, the EQB took rulemaking actions affecting 10 existing chapters of DEQ regulations and created one new chapter.

All rule proposals were reviewed and recommended by the appropriate advisory council before presentation to the EQB for adoption. Each advisory council is comprised of nine individuals represent-

ing a broad range of perspectives, all of whom have substantial experience and/or interest in those areas within the purview of that advisory council. Before taking action on any rule proposal, the councils offer the opportunity for written and oral comments by individuals and entities affected by or interested in the rule. The level of public participation is often high and helps to significantly shape the rules proposals that are eventually presented to the Board.

Rules adopted by the Board must be affirmatively approved by the Governor, and not disapproved by the Legislature, before becoming effective. All rules adopted by the Board in FY 2004 received affirma-

Continued on next page

tive gubernatorial and tacit legislative approval.

Many rule changes promulgated in FY 2004 simply clarified language or updated the incorporation by reference of federal rules as necessary to allow Oklahoma to retain primacy over federally delegated environmental programs. Among the more notable rule actions were:

- Amendments of Chapter 100 (Air Pollution Control) to adopt the 8-hour ozone standard, to add a “permit-exempt” category for relatively small air quality emission sources, and to make permanent a previous emergency amendment to address a historical rule anomaly that essentially prevented the construction of new glass manufacturing plants in Oklahoma

- Extensive revision of Chapter 410 (Radiation Management) to accurately define the scope of the program, enhance health and safety precautions and protections, etc.
- Revocation of Chapters 605 (Discharges – OPDES) and 648 (Land Application of Biosolids) and replacement with consolidated and streamlined Chapter 606 (Oklahoma Pollutant Discharge Elimination System Standards)
- Changes to Chapter 641 (Individual and Small Public On-Site Sewage Disposal Systems) to revise some standards and to increase fees to more adequately support the program
- Amendments of Chapter 710 (Water and Wastewater Works Operator Certification) to clarify and revise certification standards ■



The state game animal: the White-tail deer.

Environmental Quality Board Rulemaking FY 2004

CHAPTER	COUNCIL	SUBJECT	ADOPTED	TYPE	EFFECTIVE
4	Air Quality Advisory Council	Delete reference to enforcement hearings by Air Quality Council	9/09/03	Permanent	6/01/04
100	Air Quality Advisory Council	Revise NOx requirements for glass-melting furnaces	9/09/03	Permanent	6/01/04
100	Air Quality Advisory Council	Update incorporation by reference of NESHAPS and ozone standard	11/18/03	Permanent	6/01/04
100	Air Quality Advisory Council	Amend open burning rules; add "permit exempt" category	2/27/04	Permanent	6/11/04
205	Hazardous Waste Mgmt. Advisory Council	Update incorporation by reference of federal hazardous waste rules	2/27/04	Permanent	6/11/04
300	Laboratory Services Advisory Council	Adjust interim accreditation fee; miscellaneous cleanup and updates	2/27/04	Permanent	6/11/04
410	Radiation Mgmt. Advisory Council	Define expanded scope of program; revise health and safety standards	2/27/04	Permanent	6/11/04
605, 606, 648	Water Quality Mgmt. Advisory Council	Revoke Chapters 605 and 648, and replace with consolidated Chapter 606	2/27/04	Permanent	6/11/04
616	Water Quality Mgmt. Advisory Council	Clarify beneficial use definition; simplify language on separation requirements	2/27/04	Permanent	6/11/04
641	Water Quality Mgmt. Advisory Council	Revise standards and increase fees	2/27/04	Permanent	6/11/04
710	Waterworks/Wastewater Works Advisory Council	Clarify and revise certification standards	2/27/04	Permanent	6/11/04

Environmental Quality Board

MEMBER	PROFESSIONAL REALM	APPOINTED BY	TERM
Brita Haugland Cantrell	Environmental Organization	Governor	01/31/2008
Mike Cassidy	Agriculture Industries	Governor	01/31/2005
Jack Coffman	Manufacturing Representative	Governor	01/31/2008
Anthony (Tony) Dark	Water Usage	Governor	01/31/2009
Bob Drake	Rural Water Association	Governor	01/31/2007
Jennifer Galvin	Petroleum Industry	Governor	01/31/2009
Jerry Johnston	Local Governing Board of City or Town	Governor	01/31/2005
Steve Mason**	Hazardous Waste Industry	Governor	01/06/2006
Ken Purdy	Solid Waste Industry	Governor	01/31/2007
Herschel J. Roberts	Environmental Professional	Governor	01/31/2008
Sandra Rose	Non-profit Statewide Env. Org.	Governor	01/31/2009
Karol "Terri" Savage	Non-profit Statewide Env. Org.	Governor	01/31/2007
Richard Wuerflein *	Conservation District Representative	Governor	01/31/2006

* Chair ** Vice Chair



Brita Haugland Cantrell



Mike Cassidy



Jack Coffman



Anthony "Tony" Dark



Bob Drake



Jennifer Galvin



Jerry Johnston



Steve Mason



Ken Purdy



Herschel Roberts



Sandra Rose



Terri Savage



Richard Wuerflein

Air Quality Advisory Council

Member	Professional Realm	Appointing Official	Term Expires
David Branecky	Utility	Governor	06/15/2006
William B. Breisch	Engineering	Governor	06/15/2006
Bob Curtis	Transportation	Governor	06/15/2007
Robert Lynch **	Higher Education	Governor	06/15/2011
Gary Martin	Political Subdivision	Governor	06/15/2008
Sharon Myers *	General Industry	Governor	06/15/2009
Donald Smith	General Public	Governor	06/15/2005
Rick Treeman	Agriculture	Governor	06/15/2010
Joel Wilson	Petroleum Industry	Governor	06/15/2005

* Chair ** Vice Chair

The Air Quality Advisory Council held extensive hearings on changes to Minor Source Permits this year. Using input from a staff/industry workgroup, the council weighed the pros and cons of reducing the permit burden on facilities that emit 40 tons or less of any regulated pollutant and decided that the amendments would indeed reduce the regulatory burden on what are commonly referred to as “mom and pop” type operations without jeopardizing the state’s air quality. The new rules were adopted by the DEQ Board on February 27, 2004 and became effective June 11, 2004.

The council also held hearings on open burning, the control of fugitive dust, and the State 111D/129 Plan for Commercial and Industrial Solid Waste Incinerators. It updated hazardous air pollutant rules and primary/secondary ambient air quality standards to meet new federal standards.

In January the council re-elected Sharon Myers, chair, and Robert Lynch, vice chair, to second terms. Two members, Gary Kilpatrick and Sandra Rose, resigned their membership to the council. Mr. Kilpatrick has retired, and Ms. Rose has accepted membership on the Environmental Quality Board. Governor Henry appointed Donald Smith and Robert Curtis as new members. ■

To the right is a photograph of the state butterfly, a black Swallowtail butterfly.



Hazardous Waste Management Advisory Council

Member	Professional Realm	Appointing Official	Term
Bob Kennedy	Industry	Governor	03/01/2005
Kathy Martin	Environmental Organization	Governor	03/01/2006
Bruce Elwell	Political Subdivision	Governor	03/01/2005
Steve Tomberlin	Political Subdivision	Pro Tempore	03/11/2006
Michael D. Graves	General Public	Pro Tempore	03/11/2004
Wesley Anderson	Industry generating HW	Pro Tempore	03/11/2005
Jody Reinhart **	Hazardous Waste Ind.	Speaker of the House	03/28/2006
David Bradshaw, P.E.*	Geology	Speaker of the House	10/22/2006
Gerald S. Ihler	Engineering	Speaker of the House	10/23/2006

* Chair ** Vice Chair Members serve until replaced.

The Hazardous Waste Management Advisory Council is responsible for reviewing and recommending rule changes that affect the handling of hazardous waste in the state. The council met on January 8, 2004, recommending rule amendments to six permanent rulemaking actions. Rulemaking action one was an amendment to adopt 40 CFR 260-279 published July 1, 2003. This incorporation by reference pertained to zinc fertilizers, radioactively contaminated batteries, and air standards for hazardous waste combustors.

The remaining rulemaking actions were continued until the April 8, 2004, council meeting in Fairview. Rulemaking

action two included corrections to adopt changes in previous 40 CFRs and to implement the waste exclusion rule in Oklahoma. Rulemaking action three was a fee structure to cover the implementation of the waste exclusion rule. Rulemaking action four addressed additional requirements for excluding a waste from a particular facility. Rulemaking action five was the adoption of a new appendix for fees, and rulemaking action six was a new appendix for listed wastes excluded in Oklahoma. Due to fees being included in the later rulemakings, these proposed rules were not presented to the DEQ Board Meeting on June 22, 2004, as the legislature was no longer in session. ■

Solid Waste Management Advisory Council

Member	Professional Realm	Appointing Official	Term
Ken Purdy	Environmental Organization	Governor	resigned 01/19/2004
Ralph Triplett, Jr.	County Commissioner	Governor	03/01/2005
Jay Stout**	General Public	Governor	03/01/2005
Bill Torneten*	Geology	Pro Tempore	03/01/2006
Guy Hylton	Political Subdivision	Pro Tempore	03/11/2004
Steve Landers	Industry Generating SW	Pro Tempore	03/01/2005
David K. Griesel	SW Disposal Industry	Speaker of the House	03/07/2005
Jeffrey A. Shepherd	Engineering	Speaker of the House	06/19/2004
Casey Elliott	Transportation	Speaker of the House	09/11/2003

* Chair ** Vice Chair Members serve until replaced.

The Solid Waste Management Advisory Council reviews proposed solid waste rules and recom-

mends rule changes to the Environmental Quality Board. The council met on September 18, 2003. ■

Radiation Management Advisory Council

Member	Professional Realm	Appointing Official	Term
Karen Jennings	Environmental Organization	Governor	07/01/2006
Steve Woods**	Engineering	Governor	07/01/2005
Donald Brewer	Industry using radiation sources	Governor	Resigned 04/23/2004
Rod Beuttel	Industrial Radiography	Pro Tempore	03/03/2004
Nadine Barton	General Public	Pro Tempore	01/03/2005
George MacDurmon	University	Pro Tempore	01/03/2006
David Gooden, J.D., Ph.D. *	Medical Industry	Speaker of the House	10/22/2006
Steve Clark	Petroleum Industry	Speaker of the House	12/01/2005
Monte Goucher	Transportation Industry	Speaker of the House	11/17/2005

* Chair ** Vice Chair Members serve until replaced.

The Radiation Management Advisory Council reviews and approves radiation management rules and recommends them to the Environmental Quality Board for further action. In the past, radioactive materials covered by the Atomic Energy Act and those not governed by the Act were governed by two different schemes of regulation. There was no safety

or technical basis for this distinction. The council approved rules that consolidated these two programs into one consistent scheme, which will simplify compliance. The council also passed some other rules changes that simplified, updated, and corrected minor errors in the existing rule. Finally, the council approved a fee increase for radioactive materials licensees. ■

Waterworks and Wastewater Works Advisory Council

Member	Professional Realm	Appointing Official	Term
Jim Pumphrey**	Waterworks Operator	Governor	06/30/2005
Robert Carr Jr.	Oklahoma Municipal League	Governor	06/30/2006
Carl Gray	Higher Education	Governor	06/30/2004
Donald Spence	Oklahoma Rural Water Association	Pro Tempore	06/30/2005
Rick Stebbens	Oklahoma Water & Pollution	Pro Tempore	06/30/2006
Woody Epperson	Oklahoma Water & Pollution	Pro Tempore	06/30/2007
Bill Jones	Waterworks Operator	Speaker of the House	06/28/2004
Karl Potochnik	Oklahoma Rural Water Association	Speaker of the House	07/08/2005
Rick Ritter*	Wastewater Works Operator	Speaker of the House	06/28/2004

* Chair ** Vice Chair Members serve until replaced.

The Waterworks and Wastewater Works Advisory Council met three times in FY 2004: October 17, January 23 and May 14. During the January meeting the council addressed the requirements for a "class A" laboratory operator in rule OAC 252:710 "Waterworks & Waste Waterworks Operator Certification." The council voted in favor of recommending a change to the rule that would allow for some substitution of experience in lieu of education for ob-

taining a laboratory operator license. At the May meeting, council members discussed instructor qualifications and the submission of payments and exam applications for on-line exams.

In October, the council recognized the untimely passing of council member and former Council Chairman, Jesse Vaughn. Mr. Vaughn had just been named Oklahoma Rural Water Association "Man of the Year" for 2004. His hard work and dedication will continue to be appreciated long after his passing, and he will be deeply missed. ■

Water Quality Management Advisory Council

Member	Professional Realm	Appointing Official	Term
Jeffrey Short	Engineering	Governor	03/01/2004
Brian Campbell	General Public	Governor	03/01/2005
Michel Paque	Environmental Organization	Governor	03/01/2006
Cathy Canty	Industry	Pro Tempore	03/15/2005
Joseph Warren	Oil Field Related	Pro Tempore	03/01/2004
Glen Brown	Geology	Pro Tempore	03/01/2003
Michael E. Thomas**	Political Subdivision	Speaker of the House	08/12/2007
Lowell Hobbs*	Agriculture	Speaker of the House	08/12/2007
Lyle Collins	Rural Water District	Speaker of the House	06/26/2007

*Chair **Vice-Chair Members serve until replaced.

The Water Quality Management Advisory Council held meetings on August 5, 2003, October 7, 2003, and January 13, 2004. Three new members were welcomed to the council this year. Cathy Canty was appointed to represent industries, Glen Brown was appointed to represent the field of Geology, and Michel Paque was appointed to represent environmental organizations.

A major rulemaking accomplishment was achieved with the merging of the two National Pollutant Discharge Elimination System rule chapters into one simplified chapter. Chapters 252:605 and

252:648 of the Oklahoma Administrative Code (OAC) were merged to create OAC 252:606 "Oklahoma Pollutant Discharge Elimination System Standards."

The rule change was made to make compliance with the Clean Water Act easier to understand for the regulated communities. An additional rulemaking action clarified language and made Chapter 252:616 "Industrial Wastewater Treatment Systems" consistent with other DEQ rule chapters. Finally, changes and updates were made to Chapter 252:641 "Individual and Small Public On-site Sewage Disposal Systems." ■

The Redbud Tree is the state tree.



Small Business Compliance Advisory Panel

Member	Professional Realm	Appointing Official	Term
Matt Robison	No specific requirements	Executive Director of the DEQ	01/15/2009
Brett Hamm	General Public	Governor	03/01/2005
William Wortman	General Public	Governor	03/01/2003
Robert Henry **	Owner of a small business	Minority Leader of the Senate	11/08/2010
Tim Dowd	Owner of a small business	Minority Leader of the House	01/15/2005
Patrick K. Jaynes, Ph.D.	Owner of a small business	Pro Tempore	08/03/2009
Michael Rohlfling *	Owner of a small business	Speaker of the House	01/15/2010

* Chair ** Vice Chair Members serve until replaced.

During FY 2004 the Small Business Compliance Advisory Panel, in conjunction with the Small Business Assistance Program and the Small Business Ombudsman, continued to be an advocate for the small business community in Oklahoma. The Panel welcomed two new appointments during FY 2004, Dr. Patrick Jaynes and Mr. Mike Rohlfling.

During the last year the Panel continued to represent the needs and concerns of the small business community in Oklahoma relative to environmental issues. The Panel's mission includes offering opinions on such things as the effectiveness of the Small Business Assistance Program and its initiatives, and rulemaking within DEQ which may affect small businesses. ■

Laboratory Services Advisory Council

Member	Professional Realm	Appointing Official	Term Expires
James W. Engman	Permit holders required to routinely submit laboratory analyses results to the department	Governor	07/01/2004
Terry Lyhane**	Field of Hydrogeology	Governor	07/01/2005
Elaine Stebler	Microbiology	Pro Tempore	09/09/2005
William J. Janacek	Public Laboratory	Pro Tempore	09/09/2004
Larry Brim	Private Laboratory	Pro Tempore	09/09/2003
Anthony Bright*	Environmental Chemistry	Speaker of the House	07/20/2006
Harry L. Gearhart	Permit Holder	Speaker of the House	07/20/2006

* Chair ** Vice Chair Members serve until replaced.

The Laboratory Services Advisory Council met in FY 2004 to discuss proposed changes to the Laboratory Certification Rules found in 252:300. The council approved and recommended forwarding to the DEQ Environmental Quality Board for consideration revised Quality Assurance manual rules and the addition of a new category "Petroleum Hydrocarbon" to the Gen-

eral Water Quality Program and the "Radionuclides" category to the Drinking Water Program. These new rules were based on EPA and National Environmental Laboratory Accreditation Conference (NELAC) recommendations. The council continued to track changes in the NELAC standards for potential future incorporation into Oklahoma's laboratory accreditation program. ■

Environmental Quality Board

Steven A. Thompson | Executive Director

Jimmy Givens | General Counsel
Martha Penisten | Deputy General Counsel

Craig Kenamer | Executive Deputy Director
Wendy Caperton | Director of Policy and Planning

ADMINISTRATIVE SERVICES DIVISION

Larry Gales, Director
David Dyke, Assistant Director
Patrick Farris, Comptroller

- Payables & Grant Management
- Revenue Management & Budget
- Human Resource Management
- Acquisition Management
- Building Operations
- Information Management

AIR QUALITY DIVISION

Eddie Terrill, Director
Beverly Botchlet-Smith, Assistant Director
Scott Thomas, Env. Prog. Mgr
Dawson Lasseter, Division Engineer

- Rules & Inventory Section
- Technical Resources & Projects Section
- Monitoring Section
- Existing Source Permit Section
- New Source Permit Section
- Enforcement Section
- Compliance Section
- Regional Office at Tulsa Air Program

Air Quality
Advisory Council

COMPLAINTS & LOCAL SERVICES DIVISION

Gary Collins, Director
David Freede, Assistant Director
Robert Huber, Env. Prog. Mgr

- Complaints Office
- West Region
- Central Region
- Southeast Region
- Northeast Region
- South Central Region
- North Central Region

CUSTOMER SERVICES DIVISION

Judith A. Duncan, Director
Dave Dillon, Assistant Director
Chris Armstrong, Laboratory Manager

- GC/MS Organics Section
- GC Organics Section
- Env. Micro/Radiochemistry Section
- General Chemistry/Metals Section
- Customer Asst. Program Section
- Customer Services Program Management Section
- Laboratory Customer Assistance Section

CSD

Oklahoma Hazardous
Materials Emergency
Response Commission

Small Business Compliance
Advisory Panel

Laboratory Services
Advisory Council

LAND PROTECTION DIVISION

Scott Thompson, Director
Catherine Sharp, Assistant Director
Saba Tahmassebi, Division Engineer
Fenton Rood, Env. Prog. Mgr

- Radiation Management Section
- Site Remediation Section
- Voluntary Cleanup & Brownfields Section
- Hazardous Waste Compliance Section
- Hazardous Waste Permitting & Corrective Action Section
- Solid Waste Permitting Section
- Solid Waste Compliance Section

Hazardous Waste Management
Advisory Council

Solid Waste Management
Advisory Council

Radiation Management
Advisory Council

LPD

Central Interstate Low Level
Radioactive Waste Compact
Commission

WATER QUALITY DIVISION

Jon L. Craig, Director
Glen Jones, Assistant Director
Carl Parrott, Division Engineer
Shellie Chard-McClary, Env. Prog. Mgr

- Water Quality Program Mgmt. Section
- Public Water Supply Section
- Municipal/Industrial Compliance Section
- Drinking Water SRF/Construction Permit Section
- Wastewater Discharge Permit Section
- Watershed Planning and Toxics Control Section
- Operator Certification and Compliance Tracking Section

WQD

Oklahoma Water Quality
Monitoring Council
Environmental Trust Authority

Waterworks and Wastewater
Advisory Council

Water Quality Management
Advisory Council

Advisory Councils

Advisory Councils recommend rules to the Environmental Quality Board.

MISSION STATEMENT

The Department of Environmental Quality
...for a clean, attractive, prosperous Oklahoma.

FISCAL YEAR 2004 GOALS

GOAL ONE:

Administer within the Department and promote within the Federal system, effective rules and efficient regulatory processes.

GOAL TWO:

Produce standardized, effective, timely and enforceable permits.

GOAL THREE:

Provide help to business, local government and citizens on issues within the Department's mission.

GOAL FOUR:

Provide a responsive, equitable and timely environmental complaints process and emergency response system.

GOAL FIVE:

Provide consistent inspection, monitoring and enforcement within the bounds of the Department's statutory jurisdiction.

Environmental Enforcement And Supplemental Environmental Projects

The goals of DEQ revolve around environmental compliance and enforcement; its mission is to help create and sustain a cleaner, more attractive, and more prosperous Oklahoma. The DEQ legal staff contributes to the agency's goals and mission by working closely with the regulatory divisions to ensure compliance with environmental statutes and regulations.

Options for Settlement

Enforcement of environmental statutes and regulations involves the assessment of penalties for certain violations. Often, however, a formal enforcement action results in a consent order, where DEQ and the responding party agree to settle the case under specified terms and conditions. The terms of the consent order may include settlement of the penalties by a combination of cash penalty and Supplemental Environmental Project ("SEP").

As part of the settlement, the responding party voluntarily agrees to undertake a SEP in exchange for a penalty reduction. A SEP, therefore, must meet certain criteria in order to be accepted.

First, acceptance of a proposed SEP will depend in part on the circumstances involved in the case and any specific program restrictions or federal/state agreements that may apply. Repeat violators may not qualify for SEPs or may be given less credit toward penalty reduction. Therefore, acceptance of a SEP as a settlement option is within the agency's discretion.

Second, a SEP, by nature, is an environmentally beneficial project, the performance of which must not otherwise be legally required of the responding party.

Third, an acceptable SEP will improve, protect, or reduce risks to public health or the environment at large and should advance the goals and mission of the agency. There are several categories of SEPs that may be considered, including:

- Pollution Prevention or Reduction
- Environmental Restoration and Protection
- Environmental Assessments and Audits
- Promotion of Environmental Compliance
- Protection of Public Health
- Emergency Planning and Preparedness
- Other Types of Projects and Environmental Enhancements

SEPs in FY 2004

In FY 2004, DEQ attorneys managed over 450 formal enforcement actions. Many of these cases were settled to include SEPs of various types. Some of the more notable SEPs in FY 2004 include those accepted by DEQ to settle enforcement actions initiated through the Air Quality, Water Quality, and Land Protection Divisions.

In the Air Quality cases, the responding parties installed equipment that caused a reduction of approximately 2,500 tons of air pollutants, specifically carbon monoxide (CO) and nitrogen oxide (NO_x), per year in Oklahoma. These SEPs resulted in pollution prevention and reduction as well as protection of public health and the environment.

In a Water Quality case, the responding parties' SEP was designed to provide city water to an economically distressed area where residents have been using contaminated ground water for drinking, irrigation, or both. The ground-water in this area is contaminated with

tetrachloroethylene (PCE) and trichloroethylene (TCE), both potential human carcinogens. Upon completion of the project, this SEP will result in the protection of public health.

In the Land Protection cases, the responding parties' SEPs are designed to support various land reclamation projects around the state. These projects typically involve the removal of uncontaminated dilapidated buildings and foundations in Oklahoma towns with subsequent use of the demolition debris to prevent the erosion of land in the same locality. These SEPs restore areas affected by erosion to

usefulness and enhance the appearance of the Oklahoma landscape.

There are many other worthwhile SEPs that have been completed in the past and many still to come. DEQ legal staff is committed to the enforcement goals of DEQ but also to providing fair settlement options for those regulated by environmental laws through the appropriate use of SEPs. That these projects allow DEQ to help create a cleaner, more attractive and prosperous Oklahoma is simply added incentive to the legal staff to incorporate them into compliance and enforcement actions. ■

'Nexus' Project

One of the many challenges faced by DEQ as well as the EPA is the integration of information among the various regulatory entities. Within DEQ, the need is to integrate data among the various divisions, such as Air Quality, Water Quality, Land Protection, etc. Paralleling this challenge is the need to properly convey key information to the EPA in a format consumable by its data management systems. Subsequently, the EPA faces the challenge of integrating its data between the various states, territories, and tribes in an effort to support a truly 'national' system for the sharing of environmental regulatory data. The ultimate goal is to have key data available within and across divisions as well as state borders.

EPA has initiated and funded an information integration project in the form of its Centralized Data Exchange network (CDX), featuring a set of agreed upon data standards and methods, as well as web-based availability. DEQ's response to this set of challenges was to initiate an agency-wide database integration project known as 'Nexus'. Nexus is a project by DEQ to develop a cross-division tracking and reporting system which captures the significant events in the life-cycle of a permit or an enforcement compliance action. It is geared around the concept of a facility with a

unique set of GIS coordinates; the idea being, once DEQ shares a common set of 'facility entities', the tracking and reporting components start to take care of themselves. This will facilitate a variety of diverse reporting options; with information made available for consumption by internal staff, the EPA, regulated industries, and the public.

The DEQ project is funded chiefly by technology grants made available from the EPA.

The majority of the funding is used to contract with technical expertise. A dozen or more DEQ staff and contractors are tasked with this project to varying degrees, representing 20 percent to 50 percent of their time. DEQ personnel from every division participate in this project. The developers/programmers come from the Information Technology unit and are paired with a handful of developers from each of the divisions. The divisional personnel are trained Environmental Specialists or Professional Engineers. These personnel are adept at their internal business processes of their respective divisions (Air Quality, Water Quality, etc.). They, in conjunction with contractors and IT staff, participate in joint efforts to develop an improved suite of tools to address the agency's information management needs. ■

Tar Creek Stories Lead DEQ Media Coverage

The Tar Creek Superfund site was the major environmental story in Oklahoma during FY 2004. It received the greatest number of media inquiries to DEQ, 50, and had the largest percentage of media coverage, 24 percent. As a group, water quality stories comprised 25 percent of the year's media coverage. Other stories of major interest included ozone alerts and regulations, aquifer proposals, disinfection by-products in drinking water, Superfund sites, recycling, and tribal issues. DEQ was also covered as an agency in general stories about state government. Inquiries were received from a variety of media outlets. Newspapers made the most requests for information with 67 different papers making at least one contact with DEQ. Most of these were in-state newspapers but there were several inquiries from out-of-state media including the New York Times, which asked about the "Safe

Harbor" report. A total of 12 TV stations and six radio stations requested information. Additionally, DEQ sent out 60 press releases covering a variety of topics in FY 2004. These press releases were sent directly to the media and were also available on the agency web site.

Media coverage was not the only way DEQ reached Oklahomans in FY 2004. DEQ personnel provided 213 presentations, seminars and training programs across the state. A total of 14,342 people benefited by directly interacting with DEQ staff at these events.

DEQ demonstrated its continued commitment to providing information to Oklahomans about their environment through the various media outlets, via the web site, and in a variety of interactive forums. The DEQ worked hard to make sure Oklahoma had accurate and timely information on environmental concerns and solutions. ■

DEQ in the Media

