

KATHY J. MARTIN, PE

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CURRENT OCCUPATION

ENVIRONMENTAL CONSULTANT, PRESIDENT, MARTIN ENVIRONMENTAL SERVICES, LLC NORMAN, OK

Professional Engineer in Civil Engineering - providing expertise in environmental permits for air quality, non-hazardous industrial wastewater, and closure of surface impoundments. Perform engineering review and critique of permit applications submitted by livestock facilities to state and federal regulatory agency with respect to wastewater treatment technology and compliance with environmental regulations.

EDUCATION

UNIVERSITY OF OKLAHOMA

M.S. Civil Engineering, 1989

Thesis: The Removal of Polychlorinated Biphenyls from Topsoil Using Nonionic Surfactants

UNIVERSITY OF OKLAHOMA

B.S. Petroleum Engineering, 1987

National Dean's List, 1986-87

EXPERIENCE

HYDRAULIC FRACTURING AND INJECTION WELL ISSUES

As Martin Environmental Services, 2009 to present

Provide guest lecturer and other speaking arrangements regarding potential environmental impacts of hydraulic fracturing of shale gas and shale oil formations. Perform technical and regulatory review of salt water injection well permit applications to determine if regulatory and environmental concerns are adequately addressed.

MOBILE MEAT HARVESTING UNIT

Team member, 2010 to present

Provide technical assistance in developing water and wastewater treatment strategies including potable water treatment, slaughter waste treatment and disposal, HAACP, and other USDA requirements for small slaughterhouses.

ADJACENT LANDOWNERS TO LIVESTOCK FACILITIES

Subcontracted as Martin Environmental Services, June 1997 to present

Perform technical and regulatory review of approximately 150 CAFO permit applications in 21 states nationally to determine if the application is sufficient for a permit writer to draft a permit. The purpose was to determine if there were technical and/or regulatory deficiencies in the application and prepare a

written report for use in administrative proceedings by concerned citizens and adjacent landowners.

SEWARD COUNTY COMMISSIONERS, SEWARD COUNTY, KANSAS

Subcontracted as Martin Environmental Services, June - October 1998

Drafted environmental regulations for confined animal feeding operations (CAFOs) with respect to the design, construction, operation, maintenance, and closure of surface impoundments and the disposal of CAFO waste by land application. The resulting work product was a set of regulations that is a complete permitting program including public notice, hearings, permit application processes and fees, as well as provisions for compliance and enforcement.

DEPARTMENT OF ENVIRONMENTAL QUALITY

Environmental Engineer II, July 1, 1993 to November 1, 1996

Special training in areas of Air Quality and Hazardous Waste permits and regulatory requirements. Provided technical and regulatory assistance to business and industry with respect to environmental permits issued by the ODEQ in water quality, air quality, and solid waste programs.

OKLAHOMA WATER RESOURCES BOARD

Environmental Engineer I, April 1990 to June 30, 1993

Special training in areas of industrial wastewater disposal permits and inspections. Drafted state regulations for surface impoundments and land application of non-hazardous industrial wastewater. Issued state permits for non-discharge facilities. Project officer of Tar Creek Superfund Site.

TECHNICAL EXPERTISE

- 17 years continuing education regarding CAFO waste management systems

- Extensive research and knowledge of lagoon liner systems and waste/liner compatibility
- 13 years continuing education regarding pathogen transport and fate from CAFOs
- 15 years continuing education regarding air pollution and odors from CAFOs
- Other topics of continuing education: GPS, perimeter tile design, concrete, flow meters, backflow prevention, fate and transport, and soil science
- Drafted Oklahoma state regulations for permitting of surface impoundments and disposal by land application used by facilities with non-hazardous industrial wastewater
- Drafted county regulations for CAFO impoundments and land application of manure
- Familiarity with CAFO regulations in AR, CA, CO, GA, IA, ID, IL, IN, KS, KY, MO, MS, ND, NE, NM, OK, PA, SD, TX, UT, and WY
- Professional Engineer in Oklahoma (No. 18254) February 1997 to present;
Professional Engineer in New Mexico 2012 (No. 21522)
- Coordinated Superfund activities between USGS, Oklahoma State and EPA
- Interacted with State Legislators (OK and KS) on technical issues related to CAFOs
- Provide expert testimony regarding CAFO waste management systems in Arkansas, Indiana, Kansas, Kentucky, Missouri, Nebraska, New Mexico, Oklahoma, and Utah

- Provide technical and regulatory reviews of CAFO permit applications in AR, CA, CO, GA, IA, ID, IL, IN, KS, KY, MO, MS, ND, NE, NM, OK, PA, SD, TX, UT, WI, and WY
- Graduate Degree coursework included: Groundwater Protection, Groundwater Seepage, Groundwater Modeling, Groundwater Pollution Control, Air Pollution Controls, Air Pollution Engineering, Environmental Impact Assessment, Risk Assessment, Industrial Hygiene, Reservoir Dam Engineering, Open Channel Flow, Chemical and Biological Aspects of Environmental Engineering, Advanced Wastewater Treatment, Soil Classification, Soil Science, Hazardous Waste Control, Solid Waste Engineering/Landfill Design, Land Use Management, Surfactants and Colloidal Science, Corrosion Engineering, Field Applications, and Nonparametric Statistics.
- Three years Chinese language
- Ten years leadership positions in local, state, and national organizations
- Developed state-wide foundry and metal casting facility environmental program in Oklahoma -- and trained state agencies in Louisiana and Arkansas to do the same.
- Active contributor to proposed regulatory language with respect to CAFOs at local, state, and federal levels, especially OK, KS, NE, CO, NM, IN, and IL.
- Provided lectures on CAFO environmental issues to groups in Oklahoma, Kansas, Nebraska, Indiana, Pennsylvania and Utah to groups as large as 600 people at a time.

ORGANIZATIONS AND BOARD POSITIONS

- STRONGER NATIONAL BOARD MEMBER – ENVIRONMENTAL STAKEHOLDER (2006-2010)
- DEQ Hazardous Waste Management Council - governor appointed member (past)

- STRONGER Audit Team - Oil and Gas Environmental Regulations in Oklahoma (2005), Kentucky (2006) and Tennessee (2007)
- Oklahoma Corporation Commission - Citizen Advisory Board member (past)
- Oklahoma Society of Environmental Professionals – Past President, Past Newsletter Editor, Past Secretary, Past Engineering Board Member
- American Society of Agricultural and Biological Engineers (ASABE) – member
- Society of Petroleum Engineers - Past Executive Committee two years, member 10 years
- National Association of Professional/Graduate Students - Past Board member and National Conference Chairperson
- Graduate Student Senate, University of Oklahoma - Past Chair two years, Past Vice Chair, Past Senator for Civil Engineering Department
- Oklahoma Chapter of Sierra Club - past member, 1 year
- Engineering Club of Oklahoma City - past member, 6 years
- OU Petroleum Engineers Club - past Vice President, member 4 years
- OU Society of Women Engineers - past President, member 7 years
- OU Engineer's Club - Loyal Knight of St. Pat, member 7 years

Expert Witness Testimony and Deposition History

Kathy J. Martin, PE (OK#18254)

List updated April 2014

Location	File Name	Date	Other
Okla Water Resources Board	Seaboard - Nichols Radcliffe Nursery Beaver County, OK	Oct 1997	OWRB Water permit administrative hearing
Okla Dept of Ag	BAR-D swine finisher Caddo County, OK	Dec 1997	CAFO permit administrative hearing
Okla Dept of Ag	Seaboard Fisher facility Texas County, OK	Dec 1997	CAFO permit administrative hearing
Okla Water Resources Board	PIC Gilt Facility Woodward County, OK	Aug 1997	OWRB Water permit administrative hearing
Utah DEQ	Circle Four Farms Administrative Hearing	mid 1998?	CAFO permit Board hearing
Okla Dept of Ag	Hanor/Kronseder Huffman Fac. Woodward County, OK	Jan 1998	CAFO permit administrative hearing
Okla Water Resources Board	Murphy Family Farms Luthi Facility Ellis County, OK	Jan 1998	OWRB water permit administrative hearing
Okla Dept of Ag	Tyson Chapman Facility Seminole, OK	Dec 1999	OWRB water permit administrative hearing
Okla Water Resources Board	Land of Lakes Taylor Facility Beaver County, OK	Mar 2000	OWRB water permit administrative hearing
Platte County Nebraska	TeVelde Dairy District Court	Nov-Dec 2000	County Permit Appeal to District Court
Okla Dept of Ag	Seaboard - Kendra East Beaver County, OK	May 2001	CAFO permit administrative hearing
Iowa French Creek	Wayne Weber hog farm Sierra Club, et al v Weber	2001	Deposition
Okla Dept of Ag	Land of Lakes Reddick Beaver County, OK	Mar 2002	CAFO permit administrative hearing
Okla Dept of Ag	Seaboard Schnackenberg Texas County, OK	Jan-Feb 2003	CAFO permit administrative hearing
Okla Dept of Ag	Land of Lakes, T Venable Beaver County, OK	Jan-June 2005	CAFO permit administrative hearing
Okla Dept of Ag	Land of Lakes, J. Venable Beaver County, OK	Jan-June 2005	CAFO permit administrative hearing

Okla Dept of Ag	Land of Lakes - Ferguson Nursery #1 & #2 Beaver County TX	Jan-Jun 2005	CAFO permit administrative hearing
Location	File Name	Date	Other
Okla Dept of Ag	C&M Cattle Feedlot Cimarron County, OK	April 2006	CAFO permit Administrative hearing
Kentucky Cabinet of Public Health and Environment	9 contract hog operations (Tosh) Fulton, Hickman and Carlisle counties combined into one hearing (wean-to-finish)	Jan 2007	CAFO permit (KDNOP) Administrative hearing Deposition
Kentucky Circuit Court	9 contract hog operations (Tosh) Fulton, Hickman and Carlisle counties combined into one hearing (wean-to-finish)	Oct 2007	Stay Hearing on agency permit action – air toxics
Indiana Office of Environmental Adjudication	Union Go Dairy (Vreba-Hoff) Appeal of Permit Issuance Appeal Hearing	Jan-Feb 2008	CAFO Permit (NPDES) Administrative Hearing
Missouri Administration Hearing Commission	Ozbun Poultry Facility Appeal of Permit Issuance Appeal Hearing	Jan 2009	CAFO Permit (state) Administrative Hearing
New Mexico Environmental Department	ParaSol Dairy Appeal of Ground Water Discharge Permit	Feb 2009	Discharge permit (state) Administrative Hearing
Indiana Office of Environmental Adjudication	Steuber Hog Farm Appeal of Permit Issuance Appeal Hearing	Feb 2009	CAFO Permit (NPDES) Administrative Hearing
Indiana Office of Environmental Adjudication	Duckwall Hog Farm Appeal of Permit Issuance Appeal Hearing	June 2009	CAFO Permit (NPDES) Administrative Hearing
Indiana Office of Environmental Adjudication	Optima Dairy (Vreba-Hoff) Appeal of Permit Issuance Appeal Hearing	July 2009	CAFO Permit (NPDES) Administrative Hearing Deposition
New Mexico Water Quality Control Commission	Dairy Rule-Making Hearing Technical testimony	June 2010	Rule-making
New Mexico Oil Conservation Commission	Pit Rule-Making Hearing Technical rebuttal testimony	Aug 2012	Rule-making
Indiana Office of Environmental Adjudication	Union Go Dairy (Vreba-Hoff) Appeal of Permit Modification Appeal Hearing	Jan 2013	Deposition
State of Wisconsin Div of Hearings and Appeals	Richfield Dairy Appeal of Permit Issuance Adams County, WI	June 2013	Plans and Specifications Administrative Hearing
Scott County, Illinois	Marsh, et al v Sandstone North, LLC, et al	Aug 2013	Deposition
Lea County, New Mexico	Pearson, et al v Rock View Dairy, High Lonesome Dairy, Rick Schaap, and Eddie Schaap	Oct 2013	Deposition

Superior Court of California, County of Santa Clara	Acoba, et al v Olivera Egg	Nov 2013	Deposition
State of Wisconsin Div of Hearings and Appeals	Kinnard Dairy Appeal of Modified Permit Kewaunee County, WI	Feb 2014	Plans and Specifications Administrative Hearing
State of Indiana	Mark Holder v Trotter Farms, Inc, Ronald E. Trotter, Rosemary Trotter, and Barry Trotter	Feb 2014	Deposition (Indianapolis, IN)
State of Delaware	Brownfield Remediation Plan - Pinnacle Foods/Vlassic and proposed site of Allen-Harim poultry processing facility Technical Testimony	May 2014	Brownfield Remediation Plan Appeal Hearing Dover, Delaware
State of Indiana	Mark Holder v Trotter Farms, Inc, Ronald E. Trotter, Rosemary Trotter, and Barry Trotter	May 2014	Deposition (continuation in Kansas City, MO)