

# Resume

Larry Dunbar

**LAWRENCE G. DUNBAR, P.E.**  
Water Resources/Environmental Engineer/Consultant  
6342 Dew Bridge Drive  
Sugar Land, TX 77479  
281-980-2225  
713-782-5544 (fax)

## **EDUCATION**

- B.S. - University of Notre Dame  
1975 - Civil Engineering
- M.S. - Illinois Institute of Technology  
1981 - Environmental Engineering
- J.D. - University of Houston  
1989 - Law

## **WORK HISTORY**

- 1988 to Present - Lawrence G. Dunbar, P.E. (Houston, TX)  
Water Resources/Environmental Engineering Consultant
- 1986 to 1988 - Espey Huston & Associates (Houston, TX)  
Water Resources Group Leader
- 1984 to 1985 - State of Indiana (Indianapolis, IN)  
Section Head of Dam Inspection and Lake Permitting
- 1983 to 1984 - Espey Huston & Associates (Austin, TX)  
Water Resources Engineer
- 1981 to 1982 - Keifer Engineer, Inc. (Chicago, IL)  
Water Resources Engineer
- 1975 to 1981 - U.S. Army Corps of Engineers (Chicago, IL)  
Flood Control Section Chief, Hydrology and Hydraulics Branch

## **FIELDS OF EXPERIENCE**

Flood Control	Water Quality
Drainage	Wetlands
Stormwater Management	Landfills
Floodplain Analysis/Management	Land Development
Reservoir Regulation	Coastal Engineering
Stream Hydrology/Hydraulics	Unsteady Flow Modeling
Watershed Modeling	Water/wastewater systems
Flood Forecasting	

## **PROFESSIONAL ACTIVITIES**

Licensed Professional Engineer in Texas since 1983 (previously in Illinois and Indiana)

American Society of Civil Engineers

Association of State Floodplain Managers

## **TECHNICAL PUBLICATIONS**

“Hydrologic and Hydraulic Analyses for a Major Urban Flood Control Study”  
Proceedings of the International Symposium on Urban Hydrology, Hydraulics and  
Sediment Control, Lexington, Kentucky, July 1982

“Hydrologic Methodology for Evaluating Urban Development”  
National Water Conference, Univ. of Delaware, July 1989

## **EXPERIENCE EXAMPLES**

Technical expert for Corps of Engineers during U.S. Supreme Court hearings on Lake Michigan Diversion lawsuit between Illinois and Wisconsin

Project manager of Corps of Engineers' review and permitting of Chicago's \$2B Deep Tunnel Project to control storm water/waste water discharges

Project manager for flood control project in Manila, Philippines

Project manager for development of Master Drainage Plans and the Drainage Criteria Manual for Fort Bend County

Frequent seminar speaker throughout Texas on current issues involving storm water regulations

Expert witness in numerous judicial and administrative proceedings on behalf of cities, counties, developers, engineers, and land owners regarding water resource/environmental engineering issues

Consultant to various water, utility and drainage districts

LARRY G. DUNBAR  
SUGAR LAND, TEXAS 77479  
Home: 281/980-2225  
Work: 713/782-4646

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RESUME

**EDUCATION**

- J.D.           University of Houston Law Center  
December, 1988
- M.S.           Illinois Institute of Technology  
1981 - Environmental Engineering
- B.S.           University of Notre Dame  
1975 - Civil Engineering

**EXPERIENCE**

- 1997 to present     Partner  
DUNBAR, HARDER & BENSON, L.L.P.  
Houston, Texas
- 1994 to 1997        Partner  
DUNBAR, PRICE & HARDER  
Houston, Texas
- 1990 to 1993        Associate  
MORRIS, TINSLEY & SNOWDEN  
(after merger in 1992 became Morris, Lendais, Hollrah & Brown)  
Houston, Texas)
- 1989 to 1990        Associate  
EVANS, KOSUT, REED & WITHERSPOON  
Houston, Texas
- 1988 to present     Private Consultant  
WATER RESOURCES AND ENVIRONMENTAL ENGINEERING  
Sugarland, Texas

- 
- 1986 to 1988      Water Resource Group  
ESPEY, HUSTON & ASSOCIATES, INC.
- 1983 to 1984      TEXAS WATER RESOURCES GROUP  
Austin/Houston, Texas
- 1984 to 1985      Engineering Department - (Staff Engineer)  
INDIANA BOARD OF HEALTH, LAND POLLUTION CONTROL  
DIVISION
- Dam Inspection and Lake Permitting Section. (Section Head)  
INDIANA DEPARTMENT OF NATURAL RESOURCES, DIVISION  
OF WATER
- 1982                Water Resources Group  
KEIFER ENGINEER, INC.  
Chicago, Illinois
- 1975-1981        Hydrology and Hydraulics Branch. (Chief, Flood Section)  
U. S. ARMY CORPS OF ENGINEERS,  
Chicago District

**EXPERIENCE**

Legal

Areas of practice include:

- Environmental
- Drainage
- Corporate
- Real Estate
- Tort Litigation (including DTPA)
- Water

Technical

(Fields of Experience)

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- Flood control/drainage
  - Stormwater management
  - Floodplain management
  - Reservoir regulation
  - Stream hydrology/hydraulics
  - Flood forecasting
  - Coastal engineering
  - In-stream water quality
  - Water supply/distribution
  - Wastewater collection
  - Hazardous/solid waste management
  - Land Development

(Job Assignments)

- Planning studies
- Design plans/specifications
- Computer modelling
- Operating/maintenance activities
- Project management
- Supervision of employees
- Permitting activities
- Establishment of design criteria
- Review/interpretation of legislation
- Construction inspection and management
- Marketing of engineering services
- Contract administration and services

(Regulatory Agencies)

Federal

- U.S. Army Corps of Engineers
- U. S. Environmental Protection Agency
- Federal Emergency Management Agency

State

- Illinois (IDWR, IEPA, ISWS)
- Indiana (IDNR, IBOH)
- Wisconsin (WDNR)
- Texas (TWDB, TNRCC, TPWD)
- Louisiana (LDOTD)

#### Local

- Numerous cities, counties, utility districts, water districts, levee districts, river authorities, and planning commissions.

#### (Legal Proceedings)

- Technical expert for Corps of Engineers during U. S. Supreme Court hearings on Lake Michigan Diversion lawsuit between Illinois and Wisconsin.
- Expert witness in federal district court lawsuit concerning flood damages in Odem, Texas
- Expert witness in state district court hearings on establishing lake levels in Indiana
- Expert witness in a Texas Water Commission hearing concerning water rights dispute and a water withdrawal permit.
- Expert witness in a Texas Parks and Wildlife hearing concerning a sand and gravel permit involving flooding issues.
- Expert witness in a landfill application hearing near Dallas, Texas regarding floodplain issues.
- Expert witness to Plaintiff's attorney in drainage case involving subdivision near Dallas, Texas.
- Expert witness for Fort Bend County in case involving localized drainage issues.



- Expert witness for protestants of a proposed landfill in Houston, Texas regarding floodplain and drainage issues.
- Consultant to plaintiff's attorney in flood case along Greens Bayou involving floodplain issues.
- Consultant to defendant's attorney in flood case along Clear Creek involving floodplain issues.
- Consultant to plaintiff's attorney in flood case along Spring Creek in Woodlands, Tx
- Consultant to Fort Bend County in case involving county landfill.
- Expert witness for defendant's attorney in flood case along Buffalo Bayou.
- Expert witness for opponent to Harris County Boot Camp near Katy, Texas regarding floodplain and drainage issues.

## PROFESSIONAL ACTIVITIES

### Professional Societies and Associations

American Bar Association (Section on Natural Resources, Energy and Environmental Law)

Texas Bar Association (Section on Environmental and Natural Resources Law)

American Society of Civil Engineers (Water Laws Committee)

### Technical Publications

*"The Effects of Increased Lake Michigan Diversion at Chicago on Downstream Flooding"*, M.S. Thesis, Illinois Institute of Technology, November 1980

*"Hydrologic and Hydraulic Analyses for a Major Urban Flood Control Study,"* Proceedings of the International Symposium on Urban Hydrology, Hydraulics and Sediment Control, Lexington, Kentucky, July 1982 (with C. Shadic)

*"Hydrologic Methodology for Evaluating Urban Developments,"* presented at the National Water Conference, University of Delaware, July 1989 (with Leo Beard)

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*"Proper Use of Effective Flow Boundaries,"* presented at the National Water Conference, Univ. Of Delaware, July 1989 (with D. Patterson)

# Resume

Shari B. Libicki, Ph.D.  
ENVIRON International Corporation

## Shari B. Libicki, Ph.D.

### Education

- 1985 Ph.D., Chemical Engineering, Stanford University
- 1981 M.S., Chemical Engineering, Stanford University
- 1979 B.S.E., Chemical Engineering, University of Michigan

### Experience

Dr. Libicki is a Principal at ENVIRON Corporation. She has technical expertise in chemical fate and transport, including estimation and measurement of air emissions from industrial processes, and landfills; and air dispersion and deposition modeling to evaluate chemical movement in the air. She has conducted this type of work to support risk assessments, emergency release evaluations and other evaluations involving airborne contaminants. She uses this information to negotiate complex technical agreements and permits with agencies, assist facilities with compliance programs, and provide technical expertise to litigation teams. She has also conducted extensive air quality regulatory assessments for NSR/PRD permitting and compliance auditing. Dr. Libicki is a member of the faculty of the Chemical Engineering Department at Stanford University. Her work here has included the following:

- Provided technical support to attorneys on a litigation case where an accidental release of a particulate and liquid material from an industrial facility was alleged to have caused harm to thousands of plaintiffs. This included an engineering evaluation of the release quantity, meteorological data analysis, and an evaluation of dispersion and deposition of aerosols in complex and intervening terrain.
- Provide nationwide compliance assistance to six iron and steel mini-mills. Work conducted includes: preparation of Title V permit applications and supporting emissions estimates; preparation of Prevention of Significant Deterioration (PSD) permits and associated emissions and dispersion modeling; evaluation of RACT controls for mini-mills.
- Provided expert assistance on a litigation case where a release of mercaptans from a refinery was alleged to cause harm to students in a nearby school. The work involved analysis of samples to evaluate the composition of the released materials, an analysis of the release quantities, and the dispersion of those emissions.
- Managed PSD permit applications for two aluminum smelting facilities. This work included preparation of the emissions inventories, managing the Class I and Class II modeling effort, conducting the BACT analysis, and preparing the technical document. She also negotiated permit conditions with the agencies, and assisted with cross-border discussions with other impacted agencies.
- Directed a yearlong ambient air-monitoring program to measure particulate matter and diesel particulate matter (DPM) at the boundary of a large landfill in Los Angeles and a nearby school. The results of the monitoring program were analyzed temporally and as a function of meteorology. The results of the program showed that nearby freeways provided an overwhelming fraction of the measured DPM.

**Shari B. Libicki, Ph.D.**

- Prepared comprehensive air quality analysis for two large municipal solid waste landfills in Southern California. Evaluation included impact of exhaust from non-road heavy equipment, dust from waste operations, and emissions from landfill gas escaping the collection system. Projects included public testimony on results of analysis.
- Managed the preparation of an application for an Authority to Construct for a state-of-the-art hazardous waste treatment storage and disposal facility, which included a risk assessment for the project, and successfully negotiated permit conditions with state and local agencies. Currently working with facility and regulators to implement permit conditions.
- Provided impartial technical assistance to both the plaintiffs and defense in a toxic tort case involving aerosolized air emissions from a large acid manufacturing facility in Arkansas. Particular issues in the case surrounded the potential for particulate formation under certain meteorological conditions; evaluation of control technology, and overall evaluation of emissions from the facility.
- Worked as a technical advisor to the Imperial County Air Pollution Control District for the permitting of a rail-haul landfill. This landfill is proposed to be the largest landfill in the United States, and had monitoring, modeling, and enforceability issues associated with the permit.
- Provided expert assistance on a litigation case where subsurface methane gas from a rogue landfill was alleged to damage property values in a housing development. Developed methods to evaluate trace chemicals and extent of gas migration.
- Evaluated the potential contribution of airborne dioxin releases from a refinery to deposit within a defined boundary and contribute to measured dioxin concentrations in wastewater. Analysis included estimation of dioxin releases from a variety of units; selection of units most likely to contribute to dioxin deposition; selection of deposition modeling technique; and analysis of results.
- Provided independent technical assistance to the court's mediator on landfill gas migration and control issues for a landfill toxic tort litigation involving a very large landfill (several square miles) in the Eastern United States.
- Gave an invited lecture series to senior environmental professionals in Mexico on the technical basis of the estimation of the impacts of sudden releases of toxic and flammable materials, in the wake of the Guadalajara explosions.
- Served as a technical expert in a case to evaluate the potential off-site migration of subsurface landfill gas from a hazardous waste site. Also evaluated impacts from landfill gas that escaped the surface of the landfill.
- Provided expert assistance to attorneys on a litigation case where ammonia was released from a refrigeration system. This included an analysis of the opposing expert's work, creation of a model to describe the release from the system, and evaluating alternative scenarios.
- Managed the consequence analysis for several Risk Management and Prevention Programs (RMPP). Projects included scenarios with acids, toxic gases, and chemical

**Shari B. Libicki, Ph.D.**

reactions. Analysis involved using standard analytical tools as well as some state of the art tools.

- Designed a complex fourteen-station ambient air monitoring network to measure the concentrations of 19 toxic chemicals in both gaseous and particulate phase for risk assessment purposes and negotiated approval with local, state and federal regulators.
- Provided technical support to attorneys for a litigation case evaluating the potential for cross-contamination via process exhausts, within an industrial facility. The potential for the airborne particulate contaminant to contribute to trace concentrations in the product was analytically evaluated. Provided expert report and deposition.
- Designed and conducted the compliance ambient air monitoring program for a large hazardous waste facility. The ongoing program collects whole air and total suspended particulate samples at five stationary sites. Prepared risk assessment based on the program, and quarterly reports for review by the local air district and the California EPA's Department of Toxic Substances and Control.
- Provided technical support to attorneys in a litigation involving the impacts from a chlorine tank spill. The spill was modeled and the impact of meteorological conditions and varying spill scenarios was evaluated.
- Evaluated the potential of deposited arsenic-based pesticide to contaminate adjacent property. Transport pathways examined included wind-blown dust, surface water transport, and vehicle trackout.
- Conducted preliminary evaluation of whether patterns of measured lead in soil supported contention that lead resulted from airborne emissions from a lead emitting stack located at the site. Concluded that insufficient data was available for analysis.
- Provided litigation support for an evaluation of pesticide contamination to determine whether pesticide at site was a result of spills and leaks or airborne deposition as a result of pesticide milling at the site.
- Gave lecture series on the harmonization of the State and Federal Risk Management Programs in California, and how to best implement the unified program.
- Provided expert assistance in cases where the impacts of facility emissions were compared to Proposition 65 thresholds. Several of the cases were in active litigation.
- Prepared and submitted several Federal Operating Permit Applications under Title V of the Clean Air Act for industrial facilities. Currently working on ongoing negotiation for permits.
- Analyzed the impacts of potential accident scenarios prior to the construction of several new industrial facilities. The results of the analyses were used to make recommendations as to how to improve the safety and minimize the risks to the surrounding community.
- Prepared and negotiated a settlement proposal with regulators for a large facility which included new methods for calculation of organic emissions, additional controls on processes, and monitoring requirements.

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- Managed technical support team for large toxic tort litigation that involved estimating current and historical emissions from several large facilities, comparing and choosing appropriate meteorological data for the analysis dispersion modeling, mapping of impacts with respect to plaintiffs, and comparison with air quality guidelines and toxicological end points.
- Analyzed the particulate emissions from a basic chemicals processing plant containing over 90 separate sources, conducting a dispersion and culpability analysis, and evaluating the effectiveness of proposed and implemented source controls.
- Designed, negotiated and managed a novel cost-effective ambient air monitoring program that yielded real-time information on the health impacts of a site remediation. This study is the basis of a well-received paper.
- Analyzed the results of a complex multi-year total suspended particulate monitoring program to understand the sources of arsenic in the ambient air, and to evaluate the health risks of the arsenic levels that could be related to nearby facility emissions.
- Estimated emission from contaminated ground water under residential neighborhood and resulting indoor air concentration, using regulatory models and alternative models.
- Designed a protocol for estimating the quantities of specific hazardous chemicals disposed of in California by region and waste type, and worked with the Department of Health Services to verify protocol.
- Participated in the design of a hazardous waste treatment storage and disposal facility.
- Estimated emissions due to volatilization and erosion from hazardous waste sites to support health risk assessments, cleanup levels, and Proposition 65 warning radius.
- Managed AB 2588 emission inventory plans, emissions inventories, and health risk assessments; negotiated reduced emission inventory for a major manufacturer with SCAQMD; conducted AB 2588 screening assessments.
- Estimated emissions and impact of emissions on ambient air quality for a planned municipal solid waste landfills and co-disposal site.
- Modeled dispersion of air emissions from multi-source industrial facilities and estimated increases in ambient air concentration of specific emissions to determine scope of potentially impacted area.

Prior to joining ENVIRON, Dr. Libicki held the following positions:

**Physical Sciences Officer; Bureau of Oceans and Environmental and Scientific Affairs, U.S. Department of State.**

- Developed and implemented a successful negotiation strategy for cooperative scientific projects with Japan and the Soviet Union.
- Worked with Japan's Science and Technology Agency to initiate a Japanese funding organization for innovative international biotechnological studies.

**Shari B. Libicki, Ph.D.****Staff Scientist, Alza Corporation.**

- Led teams that created, designed, tested, and patented controlled release transdermal and osmotic pump drug delivery systems.
- Studied the correlation between drug physical-chemical data and dermal transport and absorption.
- Designed and implemented systems to provide effective membrane thickness control in the manufacture of miniature osmotic pumps.

**Lecturer, Department of Chemical Engineering, Stanford University.**

- Taught courses in Chemical Engineering Laboratory and Technical Speaking and Writing.

**Patents**

H.F. Sanders, Y.L. Cheng, D.J. Enscore, S.B. Libicki. *Transdermal Drug Composition with Dual Permeation Enhancers*. Patent Number: 4,820,720. April 11, 1989.

R.M. Gale, D.J. Enscore, D.E. Nedberge, M. Nelson, Y.L. Cheng, S.B. Libicki. *Transdermal Administration of Progesterone, Estradiol Esters, and Mixtures Thereof*. Patent Number: 4,788,062. November 29, 1988.

**Awards And Honors**

American Association for the Advancement of Sciences Diplomacy Fellow, 1987-1988

United States Department of State Meritorious Honor Award, March 1989

**Professional Affiliations**

Member, American Association for the Advancement of Science.

Member, American Chemical Society.

Member, Air and Waste Management Association.

**Publications And Presentations**

Libicki, S.B. When Good Data Goes Bad: What the Numbers Really Mean. American Bar Association Section of Environment, Energy and Resources 7<sup>th</sup> Section Fall Meeting, San Diego, California. Oct. 1999.

Libicki, S.B. and R. Van de Griend. *RMPs, RMPPs and SB 1889: Consolidation of State and Federal Risk Management Programs*. Presented as a Minimum Continuing Legal Education course at various law firms. San Francisco, California. November-December, 1996.



**Shari B. Libicki, Ph.D.**

- Stuart, A.L., S. Jain and S.B. Libicki. The Use of Long-Term Meteorological Information to Predict Impact Probabilities Resulting from Toxic Chemical Releases. PSA >96- International Topical Meeting on Probabilistic Safety Assessment. American Nuclear Society, Park City, Utah. October 1996.
- Libicki, S.B. The Use of Simplified Quantitative Risk Analysis in Risk Management Decisions at Small and Medium-Sized Process Plants. 88th Annual Air & Waste Management Association Annual Meeting, San Antonio. June 1995.
- Jain, S. and Libicki, S.B. Estimating the Additional Airborne Release Due to Heat of Reaction and Aerosolization When Strong Acids React With Water During a Release. Air & Waste Management Association Annual Meeting, San Antonio. June 1995.
- Libicki, S.B. Emergency Release Modeling: Software options and usage strategies. Southwest Safety Congress and Exposition. May 1994.
- Libicki, S.B. and R. van de Griend. Practical Compliance Strategies for Laboratory and Production: Ensuring Compliance from the Ground Up. Bio International '94. Toronto. May 1994.
- Libicki, S.B., A. Andersen and R. Scofield. The Use of Ambient Air Monitoring Data for the Evaluation of Risks due to Particulate-Borne Metals: A Case Study. California Mining Association Annual Meeting. April 1994.
- Libicki, S.B. and R. Scofield. *Issues and Solutions in Air Toxics Source Impacted Ambient Air Monitoring for Use in Risk Assessment*. Fourth Annual West Coast Regional Conference: Current Issues in Air Toxics. November 1993.
- Gates, L.J., S.B. Libicki, R. Scofield, and J. Wilhelmi. A flexible real-time ambient air monitoring program during Superfund Site redevelopment. *EPA/AWMA Field Screening Methods for Hazardous wastes and Toxic Chemicals*. February 24-26, 1993.
- P.M. Salmon, S.B. Libicki, and C.R. Robertson. 1988. A theoretical investigation of convective transport in the hollow-fiber reactor. *Chemical Engineering Communications* 66:221-248.
- Libicki, S.B., P.M. Salmon, and C.R. Robertson. 1986. Measurement of inert gas permeabilities in compact bacterial cell aggregates using an annular reactor. *Annals of the New York Academy of Sciences*, Vol. IV; and *Biochemical Engineering* 469:145-151.
- Karel, S., S. Libicki, and C.R. Robertson. 1985. The immobilization of whole cells: Engineering principles. *Chemical Engineering Science* 40(8):1321-1354.
- Campbell, J.H., P. Peters, S.B. Libicki, M.L. Gregg, and J.E. Clarkson. 1981. Analysis of the operation of Occidental's modified *in situ* retort 6. In *Fourteenth Oil Shale Symposium Proceedings*, Golden, Colo.: Colorado School of Mines Press.
- Campbell, J.H., J.H. Raley, F.H. Ackerman, W.A. Sandholtz, and S.B. Libicki. 1980. Investigation of critical parameters in modified *in situ* retorting. In *Thirteenth Oil Shale Symposium Proceedings*, Golden, Colo.: Colorado School of Mines Press.

# Resume

John Worrall  
John Worrall Consulting

**JOHN A. WORRALL**

*John Worrall Consulting*

[jworrall@att.net](mailto:jworrall@att.net)

512.415.9727

**EDUCATION**

1983 - M.B.A., College of St. Thomas, St. Paul, MN

1976 - B.S., Urban Studies, University of Minnesota, Minneapolis, MN

**COMMUNITY ACTIVITIES**

Leadership Austin - (1989-1990)

Downtown Commission - Chairman (1988-1990)

Mr. Worrall has been a land planning consultant since 1977, including twenty years as an associate, a principal and senior vice president at RVi Planning + Landscape Architecture. His professional experience encompasses comprehensive community planning, park system planning, and downtown redevelopment planning for cities, as well as land use analyses for solid waste and reclamation projects throughout Texas.

**Land Use Compatibility Studies for Solid Waste Facilities**

Preparation of land use analyses for solid waste facilities throughout Texas. Managed and provided services including expert testimony, visual and aesthetic analyses, growth trends research, design of entries and screening features, and phasing/operating recommendations. Facilities include:

- 121 Site Landfill Collin County
- Arlington Municipal Landfill Arlington
- Austin Community Landfill Expansion Austin
- Blue Flats Disposal Palo Pinto County
- CSC Landfill Andover
- DFW Recycling and Disposal Facility Lewisville
- Denton Municipal Landfill Denton
- ECD Landfill Ennis
- Lacy Lakeview Landfill Expansion Waco
- Long Point Landfill Ft. Bend County
- North County Type IV Facility League City
- Panama Road Landfill Palo Pinto County
- Ponderosa Regional Landfill Laredo
- Rio Grande Valley Donna
- Skyline Landfill & Recycling Center Ferris
- Spring Cypress Type IV Facility Harris County
- Sunset Farms Landfill Austin
- TASWA Landfill Grayson County
- Tessman Road Landfill Expansion San Antonio
- Trinity Oaks Landfill Dallas
- Waco Municipal Landfill Waco
- Weatherford Landfill Weatherford
- Westside Recycling and Disposal Facility Ft. Worth

# Resume

Charles Heimsath  
Capitol Market Research

# CHARLES H. HEIMSATH

605 Brazos, Suite 300  
Austin, TX 78701  
(512) 476-5000  
cheimsath@cmraustin.com

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## PROFESSIONAL EXPERIENCE

### Capitol Market Research, Austin, Texas

*June 1986 - present*

#### PRESIDENT

Real Estate research, market feasibility analysis, small area forecasting, economic impact assessments.

- Produce comprehensive market studies to determine feasibility of proposed real estate development projects.
- Conduct economic impact studies of policy decisions that affect land values and real estates markets.
- Chief operating officer of the company, project manager and principal client liaison.

### R. Robinson & Associates, Austin, Texas

*February 1984 – June 1986*

#### PROJECT MANAGER

Real estate research, market and demographic studies, land-use forecasting.

- Responsible for quality control and all work products.
- Prepared absorption studies to be used in conjunction with real estate valuations.
- Conducted city wide market surveys and trend reports.
- Prepared highest and best use studies and site selection analysis.

### South Main Center Assoc., Houston, Texas

*February 1983 - February 1984*

#### ASSOCIATE DIRECTOR

Construction management, office administration, policy development, community outreach.

- Responsible for the construction of the Jesse H. Jones Fountain on Fannin Street.
- Prepared policies and plans for improvement to the area covered by SMCA.
- Responsible for community contact and liaison with property owners.

### Rice Center, Houston, Texas

*October 1978 – February 1983*

#### SENIOR ASSOCIATE

- Senior project manager responsible for real estate research, urban development and economic forecasting.

### Mayor's Office, Houston, Texas

*October 1976 – October 1978*

#### URBAN ECONOMIST

- Responsible for the development of the Overall Economic Development Plan ROEDP for the Pocket of Poverty in Houston, Texas.
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## EDUCATION

### RICE UNIVERSITY, HOUSTON, TEXAS

*1980-1981*

Post Graduate Studies

### UNIVERSITY OF TEXAS, AUSTIN, TEXAS

*August 1976*

M.S. in Community and Regional Planning

### UNIVERSITY OF VERMONT, BURLINGTON, VERMONT

*June 1972*

B.S. in Economics

# Resume

Donna Carter  
Carter and Associates

**Donna Carter, AIA**  
**President, Carter Design Associates**

**DONNA CARTER, AIA** has extensive experience as both project architect and project manager as well as over twenty years of experience in programming, planning, design, architectural production and management. A substantial portion of this experience has been with institutional governmental entities. She will be an active "hands on" planning and design team member. Her experience extends to transportation and transit related projects involving both long range planning and design. Recent projects include Streetscape Guidelines, transportation improvements plans for The University of Texas and it's surrounding neighborhoods, Downtown Austin, Georgetown, Texas and Fort Worth Texas.

Ms. Carter's community service includes service on the Downtown Revitalization Task Force, the Congress Avenue Task Force, and the Land Development Code Task Force of AustinPlan. She was involved in the R/UDAT effort for Austin and Co-Chaired the Implementation Committee. The implementation effort culminated in the publishing of *A Call To Action*. Past board responsibilities include the Ecology Action, Capital City Chamber of Commerce, Women & their Work, Holy Cross Hospital, Austin Chapter of the American Institute of Architects, Texas Society of Architects, Leadership Austin, Heritage Society of Austin, Texas Historical Commission State Board of Review and Texas Historical Commission Antiquities Advisory Committee.. She is currently serving on the Seton Fund Board, The Seton Hospital Board and the Mueller Implementation Commission.

Donna is a Texas registered architect and is certified by the National Council of Architectural Registration Boards. She received her Master of Architecture from the University of California. She holds a Bachelor of Arts from Yale University. She was a Ford Foundation Scholar at the American University in Cairo, Egypt. Her professional affiliations Fellow, Center for Heritage Conservation, Texas A & M University; Association of Preservation Technology; the Construction Specifications Institute; the American Planning Association and the American Institute of Architects.

**Publications:** Urban Design Guidelines / Studies

*East 11th and 12th Streets Commercial Corridors Urban Design Guidelines (1982); East 11th and 12th Streets Commercial Corridors Master Urban Design Plan (1982); East 11th Street Neighborhood Conservation Combining District Draft(1982); R/UDAT Austin ... A Call to Action ( Co-Chair Implementation Committee) (1991); Martin Luther King Boulevard Main Street Plan (Dallas Texas); Pedestrian Gateways (1997); Guide to Better Streets (1999), Southwest Downtown Round Rock Principles of Design (2004).*

**Recent Urban Design and Guidelines Projects:**

Transit Oriented Development Station Area Planning, Regulatory Plan.  
Capital Metro Light Rail – Rapid Rail Transit Project; Downtown Access Mobility Study; Design consultation - The Sutton Company; Great Streets, City of Austin; Berry Street Improvements, Fort Worth; Transit Alternatives Analysis, Fort Worth, Great Streets Master Plan, Austin, Texas; South Congress Ave. Improvements, Austin, Texas; University Area Transportation Plan, Austin, Texas; Bicycle and Pedestrian Plan, University of Texas Transportation Plan.

# Resume

Michael S. Hunt, P.E.  
Hunt Air Strategies



## Michael S. Hunt

### Fields of Competence

Project management; air emissions inventory; air dispersion modeling; preparation of air quality permits; environmental assessments; regulation interpretation; expert witness; and BACT analysis.

### Experience Summary

Twenty-six years of project experience in environmental engineering, air permitting, estimating air emissions, dispersion modeling utilizing ISCST, ISCLT, TEM, TCM, SCREEN, PTPLU, CDM, and RPM-IISS, performing downwash analyses, performing environmental assessments, determining PSD applicability for new and modified sources, and performing health effects assessments.

### Registration

Registered Professional Engineer in the State of Texas, No. 76804

### Credentials

B.S., Mathematics, University of Texas (1976)  
M.S., Civil Engineering, University of Texas (1983)

### Publications and Presentations

Hunt, M.S., "Quantification of Emissions at a Hazardous Waste Facility in Texas," proceedings of the APCA Southwest Section 1987 Annual Technical Meeting in Dallas, TX, February 12, 1987.

Hunt, M.S., "Benzene Emissions from a Gasoline Loading Facility," presented January 11, 1988 at the ASME National Conference in New Orleans.

Hunt, M.S. and Parmley, R.D., "Photochemical Modeling of Emissions from an Expansion at a Major VOC Facility," proceedings of the AWMA 84th Annual Meeting in Vancouver, British Columbia, June 16-21, 1991.

Hunt, M.S. and Sloan, R.L., "Ambient Air Management Program at the French Limited Superfund Site," proceedings of the AWMA 88th Annual Meeting in San Antonio, TX, June 18-23, 1995.

### Key Projects

- Prepared TACB permit application and PSD application for an industrial hazardous waste incinerator. Calculated emissions, performed BACT analysis and atmospheric dispersion modeling.
- Performed atmospheric dispersion modeling for several expansion projects at major chemical manufacturing facilities.
- Air Quality Manager of French Limited superfund site in Texas. Was responsible for weekly atmospheric dispersion modeling reports utilizing on-site data and monthly Air Management reporting. Responsible for ensuring that at the end of cleanup, projected impacts at nearby residences were below acceptable levels.
- Taught a one week course in atmospheric dispersion modeling at a chemical plant in France.
- Prepared Air Quality Addendum to RCRA Part B application for a commercial hazardous waste incinerator. Emissions of more than 120 "worst-case" compounds were calculated and modeled in atmospheric dispersion models. Testified at the public hearing in support of the project.
- Prepared Air Quality Addendum to RCRA Part B application for an industrial hazardous waste incinerator. Calculated emissions and performed atmospheric dispersion modeling of over 30 compounds.
- Derived an innovative technique to quantify fugitive emissions from process units in lieu of using SOCOMI emission factors which would have greatly over-predicted emissions.
- Performed ozone modeling using the Reactive Plume Model version II-SS for a large chemical plant in Texas.
- Prepared emissions inventories for several facilities in Texas and Louisiana. Identified emission sources, calculated emissions, and prepared EIQ forms.
- Performed emissions calculations and atmospheric dispersion modeling to determine regional air quality impacts associated with the leasing of federal lands for coal mining in Colorado, Wyoming, and Montana.
- Prepared an air permit application for an electronics manufacturer near Dallas. Calculated emissions for over 25 processes using over 170 products resulting in over 100 air contaminants.
- Prepared air permit applications for several railcar painting facilities. Projects included emissions calculations, BACT analysis, and atmospheric dispersion modeling.
- Supervised a test soil-vapor extraction project in New Jersey. Prepared the air permit application to allow the project to proceed.
- Audited a dozen sites in Kansas and Missouri to determine their compliance status in regards to local, state, and federal air regulations.
- Audited seven Air Force bases in Texas, Arizona, Oklahoma, and Illinois to determine their compliance status in regard to local, state, federal, and Air Force regulations.
- Inspected approximately 30 aerial pesticide applicator sites in the RCRA program to determine the extent of soil and ground water contamination. Audits included site visits, interviews with site operators, and review of operating records and permits. Project also included collecting soil and ground water samples.
- Calculated baseline emissions inventory for railcar painting facilities in Texas, California, Indiana, and Georgia. Evaluated impact of Clean Air Act Amendments on the facilities as they are currently operated and based on several future expansion scenarios.
- Expert witness in several civil litigation cases concerning possible exposures to air contaminant emissions.

# Resume

Mitcheal David Wilson

Titanium Environmental Services, LLC

**MITCHEAL DAVID WILSON  
PO Box 4029  
211 EAST TYLER STREET, SUITE 600  
LONGVIEW, TEXAS 75607  
(903) 234-8443**

**Experience**

**Principal**

Titanium Environmental Services, LLC  
P.O. Box 4029, Longview, Texas

**05/00 - present**

Titanium Environmental Services, LLC is involved in all phases of environmental consulting. The firm's projects include preparation of air permit applications, industrial environmental compliance audits, injection well permitting, drilling and completion and development, injection well operating programs, oil and gas related remediations, and environmental litigation support.

**Principal**

Godsey, Wilson & Associates, LLC  
P.O. Box 1904, Longview, Texas 75606

**02/97 - 05/00**

Godsey, Wilson & Associates was an environmental consulting firm that was formed in mid-1997. Godsey, Wilson was involved in all phases of environmental consulting. Most of the firm's projects involved industrial permitting, real estate transactions, oil production site remediations, and litigation support.

**Vice President of Environmental Health and Safety**

Mobley Environmental Services, Inc.  
P. O. Box 1640, Kilgore, Texas, 75663

**10/89 - 02/97**

Mobley Environmental was a industrial waste management service company consisting of deepwell injection, solvent recycling, fuel blending, treatment, and small quantity generator businesses) and Mobley Company, Inc. (an oilfield service company involved in the transportation, management, and disposal of various liquids used in oil and gas drilling and production). Mobley Environmental designed, permitted and constructed a used oil distillation plant.

Duties include all those listed under previous position, along with broader corporate responsibilities for the environmental matters of the two sister companies. During my tenure in this position, Mobley Environmental divested itself of two municipal landfills and associated collection services. Mobley also entered a joint venture with CEMEX Corporation of Mexico to build and operate a waste fuels blending facility in Torreon, Mexico. In my capacity, I was involved in the permitting of this facility with Mexican authorities.



**Environmental Compliance Manager**

Mobley Environmental Services, Inc.  
P. O. Box 1640, Kilgore, Texas, 75663

**12/84 - 10/89**

This position required interpretation of state and federal regulations as they applied to the industrial waste management business activities. This position included the monitoring of waste handling procedures, waste acceptance decisions, plant operating procedures, inspection schedules, construction plans, contingency plans, training programs, and any procedures requiring notification of the Texas Water Commission (TWC), U.S. Environmental Protection Agency, Texas Air Control Board (TCEQ), or other regulatory agencies.

In this position, Mr. Wilson was responsible for submitting permit applications and reports concerning the facility's two Class 1 hazardous waste injection wells. Mr. Wilson also had the lead role in the preparation of a "no-migration" petition for the company's two Class I wells. The company received the first approval of a "no-migration" petition in the nation granted by the EPA for the injection of hazardous waste.

As a commercial hazardous waste management firm, Mobley had to provide its customers with advice and assistance concerning waste management regulations. In this position, it was necessary to maintain a working knowledge of the regulations associated with RCRA, HSWA, TSCA, SARA, CAA, and the CWA.

Active participation in the Local Emergency Planning Committees (LEPCs) of both Gregg and Smith counties. At Mobley, the environmental compliance staff was responsible for safety and health programs such as hazardous operations training and industrial hygiene monitoring.

**Laboratory & Quality Control Manager**

Gibraltar Chemical Resources, Inc.

**05/81 - 12/84**

Duties included the supervision of laboratory technicians, development of analytical procedures for the testing of hazardous wastes and technical support for sales personnel. This position also included responsibility for planning and presenting safety meetings, as well as consultation with production and transportation personnel concerning appropriate safety equipment.

**Laboratory Manager**

Ana-Lab Corporation  
2600 Dudley Road, Kilgore, Texas 75662

**08/77 - 05/81**

Duties included chemical analyses related to environmental issues. Operated and trained others in the use of AA, GC, TOX, TOC and IR instrumentation. Customer relations responsibilities included assistance with Texas Department of Health and NPDES reporting. Management duties included supervision of three degreed individuals and fifteen technicians. This position also required evaluation of quality control measures and new procedure development.



# Resume

Kevin Carel, P.G.  
The Carel Corporation

## RESUME

KEVIN T. CAREL

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### PROFESSIONAL REGISTRATION

Licensed Professional Geoscientist in the State of Texas, License Number 960

### EDUCATION

Bachelor of Science in Geology. The University of Oklahoma, Norman, Oklahoma;  
1986

#### Continuing Education:

- "Design and Construction of RCRA / CERCLA Final Covers," USEPA; 1990
- "Clay Liners and Covers for Waste Disposal Sites," The University of Texas; 1991
- "Safety at Hazardous Materials Sites," The National Ground Water Association; 1992
- "Design Operation and Closure of Municipal Solid Waste Landfills," USEPA; 1992
- "Groundwater Statistics and Regulations." The International Groundwater Modeling Center; 1995
- "Running a Profitable Small Business," Texas Wesleyan University, 1997
- "Micropurge Low-Flow Purging and Groundwater Sampling," The Nielsen Environmental Field School, Inc.
- "Fundamentals of Groundwater Geochemistry," The National Ground Water Association; 1999
- "Applications of Groundwater Geochemistry," The National Ground Water Association; 1999

### HONORS AND AWARDS

- University of Oklahoma Academic scholarship award, 1984
- University of Oklahoma Academic scholarship award, 1985
- Graduated with Special Honors, 1986

### PROFESSIONAL EXPERIENCE

#### 1997 to Present

#### **President, The Carel Corporation**

Responsible for completion and coordination of projects related to environmental, groundwater and solid waste management. Services include: Expert witness; permitting support; groundwater sampling, including low-flow purging and sampling; statistical analysis of groundwater data and report preparation; preparation of groundwater

sampling and analysis plans; preparation of statistical analysis plans; monitor well installation; alternate source demonstrations; investigations concerning the nature and extent of environmental releases; assessment of corrective measures; groundwater remediation; and air monitoring.

**1993 to 1997**

**Director of Environmental Management,  
Laidlaw Waste Systems, Inc.**

Responsible for engineering and environmental compliance primarily for Laidlaw's Western US facilities. Responsibilities included a variety of managerial and technical issues including: management of a staff of environmental professionals; environmental compliance reviews of landfills; due diligence; landfill permit modifications and new permits; budget support; support of legal issues associated with environmental contamination, coordination of environmental monitoring activities and project management.

**1991 to 1993**

**Regional Environmental Manager,  
Laidlaw Waste Systems Inc.**

Responsible for engineering and environmental compliance for facilities located within the former Sunbelt Region. Responsibilities included a variety of managerial and technical issues including: recruiting, hiring and management of a staff of environmental professionals; environmental compliance reviews of landfills; due diligence; landfill permit modifications and new permits, coordination of environmental monitoring activities and project management.

**1989 to 1991**

**Assistant Regional Engineer/Geologist,  
Laidlaw Waste Systems, Inc.**

Provided support on environmental compliance for facilities located within the former Sunbelt Region. Responsibilities included environmental compliance reviews of landfills; due diligence; support on landfill permit modifications and new permits, coordination of environmental monitoring activities and project management.

**1988 to 1989**

**Geoscience Systems Analyst,  
CONOCO, INC.**

Provided support to a staff of exploration geologists and geophysicist with computer applications in oil and gas exploration. Activities included computer generation of geological and geophysical maps and cross-sections and analysis of potential and remaining oil and gas reserves.

**1986 to 1988**

**Project Manager / Office Manager,  
Wilson E. Nolan, Inc.**

Responsible for a variety of environmental projects associated with solid waste management, sludge management and environmental consulting. Activities included design and installation of monitoring networks for solid waste landfills and sludge application sites, preparation of permit applications for solid waste landfills and sludge

management plans, attendance at public hearings and meetings; management of sludge application projects, pilot projects and environmental impact studies.

### **PROFESSIONAL AFFILIATIONS**

National Ground Water Association  
Association of Groundwater Scientists and Engineers  
American Association of Petroleum Geologists

### **PUBLICATIONS AND PRESENTATIONS**

Carel, Kevin T., "A Low Flow Purging and Sampling Demonstration at Three Solid Waste Landfills in East Texas", Proceeding of the 1996 Options for Texas Conference, 1996, pp. 547-557.

Brady, Warren, Allendorf, Mark A., Schramm, William H., Carel, Kevin, and Kerfoot, Henry, "Geochemical and Hydrologic Characterization to Identify the Source of Low Level Benzene in the Chicot Aquifer Groundwater", Proceedings of the First Annual Louisiana Groundwater Symposium, Louisiana Groundwater – A Stressed Resource, 2006.



# Resume

H. C. Clark, Ph.D.

H.C. Clark  
2300 Bolsover  
Houston, Texas 77005  
[hcclark@rice.edu](mailto:hcclark@rice.edu);  
[713]529-0090; [254]7892271

Consulting Geology and Geophysics

Rice University, Geology and Geophysics, retired faculty

#### Education

PhD, Geophysics, Stanford University, 1967

MS, Geophysics, Stanford University, 1966

BS, Geology and Geophysics, University of Oklahoma, 1959

#### Teaching

courses in geophysics and geology, geologic hazards, engineering geology, and engineering geophysics

Research Interests: Current - Geophysical techniques applied to the study of shallow features, geophysical measurements and hydrogeologic problems, sustainable pasture development; Past - paleomagnetism, geophysical measurements and crustal studies, detection of dynamic fractures

Texas Registered Professional Geoscientist, number 1777.

Appointed by the Commissioners to the Municipal Solid Waste and Resource Recovery Advisory Council of the Texas Commission on Environmental Quality, 2003, re-appointed in 2007 to term ending 2013, representing the Public

Appointed Director of Student Advising at Rice in 1979 and served in various combinations with Susan Clark until retiring in 1989.

Board of Directors Urban Harvest, Committee Chair--Bayou City Farmers' Market to 2008

Organizations — American Geophysical Union, Society of Exploration Geophysicists [and Near Surface Section], Houston Geological Society, Geophysical Society of Houston

Appointed to Task Force 21 of the Texas Natural Resource and Conservation Commission

Appointed to EPA/ASTSWMO Industrial Waste Management Guidance Stakeholders Group [1997-completion]

At Rice University from 1966 to 1989

#### **Consulting Projects**

Browning Ferris- CECOS Gulf West Hazardous Waste Landfill, Chambers Co., Seismic study of active fault, groundwater geology

BFI 521 Municipal Landfill, Fort Bend Co., Texas, Geology, groundwater, active faulting and salt dome  
 BFI McCarty Road Municipal Landfill, Harris Co., Texas, Geology, active faulting  
 BFI Stratton Ridge Injection Well, Brazoria Co., Texas, Geology, fracture potential  
 CECOS Livingston Hazardous Waste Landfill, Livingston Parish, Louisiana, Geology  
 BFI Galveston County Landfill, Galveston Co., Texas, Resistivity study, baseline data  
 City of Houston, Crystal Chemical Injection Well, Harris Co., Texas, Active faulting, geology of reservoir  
 Rice Center for Community Design and Research, Chambers County Natural Factors Study, Chambers  
 Co., Texas, Geology components  
 Texas Coast Project, Two County Tier, Texas, Geology components  
 Metropolitan Transit Authority Project, Harris Co., Texas, Composite fault map metropolitan area  
 Citizens, Willis, Montgomery Co., Texas, Municipal Landfill, Geology and groundwater  
 Citizens and County, Matagorda Co., Texas, Phillips 66 Landfarms, Landfills, Contaminated  
 Water Ponds, Geology, groundwater, systems design  
 Fayette County Resource Watch, Fayette Co., Texas, Cummins Creek Lignite Mine Geology, geophysics  
 and groundwater  
 Citizens, Katy, Texas, CMI Municipal Landfill, Cypress Creek, Geology, faulting  
 Citizens, East Houston, Texas, Municipal Landfill—Negev, now Bluebonnet, Geology, faulting  
 Citizens, North Houston, Texas Municipal Landfill—Atascocita, Geology, geophysics  
 Citizens and Power Systems Equipment, Chappel Hill, Washington Co., Texas Municipal Landfill,  
 Geology, geophysics, groundwater  
 CASE, Beaumont-Port Arthur, Jefferson County, Texas, CWMI Injection Well  
 Campbell, Foss, and Buchannan, Inc. Eureka, Nevada, Mine Exploration  
 Magnetic measurements and interpretation Norse-Windfall Mines, Eureka, Nevada  
 Magnetic and seismic refraction measurements and interpretation  
 Anderson and Frierson, Geologists Central Texas Oil Exploration  
 Gravity and magnetic measurements and interpretation  
 U S Army Corps of Engineers, Galveston, Texas Galveston Bay Sand Supply Study  
 Data compilation and interpretation  
 U S Air Force, Office of Ballistic Missile Research Micro-blast rapid tunnel excavation. Sunburst Recovery  
 Seismic recording, CSM Experimental Mine, Golden, Colorado  
 Tenneco Oil, Exploration and Production, Houston, Texas  
 Magnetic ranging system for detection of well blowout, patent  
 Allied Chemical, Norfolk, Virginia, Magnetic survey, steel tank construction site  
 SanJacinto Development Corp., Landslide and groundwater influence, downstream Livingston Dam; San  
 Jacinto Co., Texas  
 Vinson and Elkins, Attorneys, Houston, Fault study. West Houston  
 Keplinger Associates, Petroleum Engineers, Houston, Oil Mining Study, Ohio, Geophysical measurements  
 and interpretation Mining Prospect, Alaska, laboratory magnetic measurements and interpretation  
 Universal Savings Association, Houston  
 Hazardous waste study—former pipeline terminal and sludge storage pits  
 Soil borings, monitor well installation; soil, sludge, groundwater  
 sampling, interpretation of chemical test results  
 Hazardous waste study—former manufacturing facility  
 Waste disposal audit, supervision of testing program  
 Active surface fault study—former manufacturing complex Field surface study and interpretation of  
 surface, photo, and subsurface data

Hazardous waste study—office park and landfill area  
 Soil borings, monitor well installation; soil, sludge, groundwater sampling, interpretation of chemical test results

ERM Southwest, Houston, Texas, Pesticide Manufacturing Plant, Dallas County, Texas  
 Seismic refraction interpretation

Testing Unlimited, Houston, Texas, Conroe Jail, Montgomery County, Texas, Seismic study, basement heave

General Dynamics, Fort Worth, Texas Air Force Plant 4, Fort Worth, Texas, Seismic reflection study, groundwater problem

McClelland Engineers, Houston, Texas, Bosque Dam Construction Planning, Seismic refraction study, outlet works

Police Jury, Calcasieu Parish, Louisiana Chemical Waste Management Hazardous Waste Landfill, Lake Charles Facility-Geologic and hydrologic study

Commissioners Court, Matagorda County, Texas -Phillips 66 Landfarm- geohydrologic study of landfarm operation

Citizens of Security, Texas-Montgomery County Contractors Type I Landfill, geology and geohydrology — Permit amendment for special wastes

Texas Environmental Coalition, Concerned Citizens of Winona-Land Banned Waste Exemption Petition - WDW 186, Gibraltar Chemical Resources, Winona, Texas

Citizens, Fort Bend County, Texas-Fort Bend County Landfill - proposed expansion

Resolution Trust Corporation-Former Industrial Facility - ground water contamination  
 Fault study - seismic reflection profile study-splay faults and contaminant transport

City of League City, Texas-Waste oil processor-Hazardous waste and ground water

Calhoun County Resource Watch, Texas-Union Carbide Plant Hazardous Waste Landfill Faulting, geology, and ground water; British Petroleum Plant-Hazardous waste landfill geology and performance

Mitchell Development Corporation-Bald Head Island Beach erosion and relationship to Wilmington Channel Dredging

Allen County [Ohio] Citizens for the Environment Workshop on deep well injection

Louisiana Department of Environmental Quality-Workshop on deep well injection

Law Engineering, Houston, Texas-Workshop on landfills

Citizens, Fort Bend County, Texas-Fort Bend County Landfill - methane migration and groundwater

Citizens, Waco, Texas-City of Waco Landfill Expansion,geological and geophysical analysis

City of Petronila, Nueces County, Texas Texas Ecologists Hazardous Waste Disposal  
 Analysis of application for two injection wells

Numerous groups in Texas, Louisiana, Ohio: Critical comments on hazardous waste injection wells including: Gibraltar Chemical; Chemical Waste Management, Port Arthur and Corpus Christi, Texas; Vickery, Ohio; DSI, Empak, Waste Water Inc, Dupont, Celanese, American Cyanamid, Cecos, Rollins, BP Green Lake, IMC Fertilizer, BP Lima Harris County, Texas-Westbelt Landfill, geological and geophysical analysis;American Envirotech Hazardous Waste Incinerator, geological and geophysical analysis

City of Houston and Harris County-Hunter Industrial Facilities salt dome storage of hazardous waste, geological and geophysical analysis City of Wilmer, Texas Laidlaw Wilmer Landfill Remand Hearing, geological analysis

Citizens, Lacy-Lakeview(Tirey Trust) Lacy-Lakeview Landfill Expansion, groundwater and geology

CASE-CWMI Port Arthur Landfill-audit of landfill documents-geologic analysis

Citizens, Fairview (COFF), McKinney Landfill Expansion, geological and geophysical analysis  
 Lower Colorado River Authority-Tricil Landfill, Altair, Texas geological and geophysical analysis  
 City of Del Rio-CWMI Dryden Landfill, Dryden, Texas  
 CONTROL [Citizens of Justin, Texas] Sentry Landfill Proposal, Denton, Texas-geological analysis  
 West Harris County MUDS-Madden Road Landfill geological and geophysical analysis  
 Sierra Club, Eagle Pass, DOS Republicas Coal Mine  
 geological and agricultural analysis of alluvial valley floor  
 Citizens Live Oak County, Texas IEC Injection Wells 156, 159, geological and geophysical analysis  
 Citizens Winnsboro, Texas East Texas Landfill, geological analysis  
 Citizens East Fort Worth, Laidlaw Landfill, MSW 2145, geological analysis  
 City of Lancaster, Texas WMX Skyline [Ferris] Landfill, 42-C, geological analysis  
 Citizens Walker County, Texas DDI Landfill, geological analysis  
 Citizens Palo Pinto County and Fawcett XO Ranches-Blue Flats Landfill, geological analysis  
 MOSES [Mothers Organized to Stop Environmental Sins] Injection Wells 186 and 229, Smith County,  
 Texas-injection well, geological and geophysical analysis  
 Citizen groups Jefferson County NORM facility, geological and geophysical analysis  
 CCAP Wharton County-Hazardous waste caverns, injection, geology and geophysics  
 Baggett, McCall & Burgess, Lake Charles PPG Plant contamination plume  
 ABLE, Canyon, Texas-BFI Canyon Landfill expansion proposal geological analysis  
 Frost Family Farms, Liberty County Class I [non-hazardous] injection well proposal, geophysical and  
 geological analysis  
 Spring Cypress Landfill Coalition, Harris County-Type IV landfill, geology and hydrogeology  
 Sierra Blanca Legal Defense Fund, Hudspeth County, Texas, Low Level Nuclear Waste Disposal license  
 application, geophysical analysis  
 Citizens groups, Kinney County, Adobe Landfill proposal, geophysical and geological analysis  
 Bill Sutton family, Fort Bend County Long Point Dome landfill, geophysical and geological analysis  
 North Texas Municipal Utility District 121 Landfill design team, geological and geophysical measurements  
 Raytheon [McBride Ratcliff Engineers], Active fault and BMC Software complex, Houston  
 Limestone County, Texas-Hansen Aggregates quarry design and hydrogeology analysis  
 Citizens, Hays County, Texas-Aquasource water treatment and discharge facility, geology and  
 hydrogeology  
 BFI-Blueridge Landfill expansion geology and hydrogeology  
 McFadden Family-Dupont Beaumont no-migration exemption renewals for injection wells, analysis  
 Frost, FPL Farming Ltd-Amendment to injection well permits WDW316 and 317  
 Chambers County, TSP Cypress Point Industrial Landfill, geologic issues analysis, industrial rules analysis  
 Citizens Fort Bend County, Juliff Type IV Landfill application  
 Individuals, various LPST and drycleaner contamination cases  
 BVSMA, Grimes County, landfill application  
 O'Connor Ranches, Victoria, groundwater resources in South Texas and analysis of issues  
 BFI-McCarty Landfill expansion  
 BFI-Blueridge Landfill expansion  
 State of Nevada, Agency for Nuclear Projects, Yucca Mountain, repository geology and geophysics  
 Sierra Blanca Ranch, Hudspeth County, quarry site reclamation, geologic issues  
 Lafitte's Cove Nature Society, Galveston, comments on hurricane sever potential related to cut and fill  
 development  
 Cooke County citizens, Salt Water Disposal well and Barnett Shale operations

Erath County citizens, Salt Water Disposal Well and Barnett Shale operations  
Goliad County, geologic hazards and uranium exploration project  
TJFA as protestant, Williamson County Landfill Expansion  
TJFA as protestant, Comal County Landfill Expansion  
Groesbeck, Limestone County, rock mining and aquifer system

## **Publications**

- Keller, M.F., and Clark, H. C. Jr., 1964, Prediction of magnetic anomalies due to four buried spheres, in *Computers In the Mineral Industries*, Stanford University Press.
- Clark, H. C. Jr., 1966, A Study of a Thick Oligocene Sill as a Paleomagnetic Record of Secular Variation, (abs.): *Trans. Am. Geophys. Un.*, V.47,p. 79.
- Clark, H.C. Jr., 1967, A Fused Quartz Curie-point Balance in *Methods in Paleomagnetism*, Developments in Solid Earth Geophysics: Amsterdam, Elsevier Publ. Co., v. 3, pp. 438-439.
- Clark, H. C. Jr., 1967, Variation of Remanent Magnetic Properties Related to the Differentiation of the Mary's Peak Sill, Oregon, (abs): *Trans. Am. Geophys. Union*, v. 48, p. 79.
- Lankford, R. R., Clark, H. C. Jr., Warne, J. E., and Rehkemper, L. J. 1969, Galveston Bay Estuarine system - Case study in *Case Studies of Estuarine Sedimentation and its Relation to Pollution of the Estuarine Environment*: Gulf Universities Research Corporation, Houston, Texas, pp. A-1 - A-64.
- Gilliland, M. W., Clark H. C. Jr., and Sutler, J. F., 1969, Paleomagnetism of the Buck Hill volcanic series. Big Bend, Texas (abs.): *Trans. Am. Geophys. Un.*, V. 50, p. 131. Clark, H. C. Jr., 1959, Remanent Magnetism, Cooling history, and Paleomagnetic Record of the Mary's Peak Sill, Oregon: *Journal of Geophysical Research*, V. 74, ff. 1, pp. 3143-3160.
- Clark, H. C. Jr., Flournoy, L. D., and Haupt, L., 1969, Late Pleistocene to Holocene Secular Variation Observed in Cores from the Gulf of Mexico: *Trans. Am. Geophys. Union*, V. 50, p. 606.
- Clark, H. C. Jr., and Hickcox, A. E., 1970, Remanent magnetic stability and cooling history of the Mary's Peak Sill, Oregon (Abs.): *Bull. Geol. Soc. Am.*, V 2, p. 276.
- Clark, H. C. Jr., and Johnson E. A., 1971, Paleomagnetism of Oaxaca State, Mexico (abs), *Trans. Am. Geophys. Un.*, V. 52, p. 190.
- Clark, H. C. Jr., and Kennett, J. P., 1972, Confirmation of the reality of the Laschamp Geomagnetic Polarity Event in cores from the Gulf of Mexico (abs.): *Trans. Am. Geophys. Un.*, V. 53, p. 423.
- Clark, H. C. Jr., and Kennett, J. P., 1973, Paleomagnetic excursion recorded in Late Pleistocene deep sea sediments. Gulf of Mexico: *Earth and Planetary Science Letters*, V. 19, pp. 267-274.
- Clark, H. C. Jr., Fryer, G. E, Gasparini, P., Roberti, N., Scandone, R., 1973, II laboratorio de

paleomagnetismo dell'osservatorio vesuviano: Prod. Associane Geofixica Italiana.

- Kennett, J. P., Huddleston, F., Clark, H. C. Jr., 1973, Paleoclimatology, paleomagnetism, and teprochronology of late Pleistocene sedimentary cores, Gulf of Mexico. In CNRS Symposium Volume: Les Methodes quantitative d'Estudes des variations du climat au cours du Pleistocene. No. 219, p. 239-250.
- Clark, H. C. Jr, Remanent magnetism of volcanic rocks, 1974, Physical Volcanology (Gasparini, P. and Civetta, L., Editors), 20 pages, Elsevier. Amsterdam.
- Clark, H. C. Jr., and Bradbeer, G. E., 1974, Geology and natural environmental factors. Chambers County. Texas In Environmental Analysis for Development Planning, Chambers County, Texas. Rice Center for Community Design and Research and Southwest Center for Urban Research. 28 Manuscript pages and figures.
- Clark, H. C. Jr., 1975, Geology, Map 9 In Texas Gulf Coast Project, Research Report 1, Williams, D. L., and Rowe, P.G., ed., Rice Center Community Design and Research, Houston, 261 pages.
- Gevirtz, J. L., Clark, H. C. Jr., Rowe P. G., 1975, Environmental Description for Land-Use planning, Abstracts with Programs, Geological Society of America, Vol. 8, Number 1,p.21.
- Clark, H. C. Jr., Georges, D., and Rowe, P. G., 1976, Geologic Hazards and Land Use Planning in the Gulf Coast, Abstracts with Programs, Geological Society of America, Vol. 8, Number 1, p. 14.
- Anderson, J. B., Weaver, M.F., Clark, H. C. Jr., 1977, Sediments and Sedimentary Processes on High Latitude Continental Shelves, Offshore Technology Conference, V. 9,2738, 8 pages.
- Anderson, J. B., and Clark, H. C. Jr,1977, Geologic Studies for the Galveston County Shore Erosion Study, U.S. Army Corps of Engineers, Galveston District, 52 pages.
- Clark, H. C. Jr., and Gilliland, M. W.. 1975, "Paleomagnetism of Early Tertiary Volcanics, Big Bend, Texas." Cenozoic Geology of the Trans Pecos Volcanic Field of Texas; Conference Proceedings, Alpine, May 21-25,1978.
- Watson, C. W. and Clark, H. C. Jr, 1978, "Gravity measurements and the Big Bend, Texas, as Part of a Continental Rift." Cenozoic Geology of the Trans Pecos Volcanic Field of Texas; Conference Proceedings, Alpine, May 21-25, 1978.
- Clark, H. C. Jr,1978, Geologic Hazards and Houston, Houston Engineer, May-June, 1978, p. 23-24.
- Fainstein. R., and Clark, H. C. Jr., 1975. The Crustal Structure beneath the Victoria-Trinidad Ridge, Revista Brasileira De Geosciencias, v. 8, p. 170-283.
- Metcalf, C. W. and Clark, H. C. Jr.,1978, Gravity Analysis of the Big Bend, Texas, as part of a Continental Rift, Abs., Transactions Am. Geoph. Union, V. 59, Number 12, p. 1189.
- Gilliland, M. W. and Clark, H. C. Jr., 1979, Paleomagnetism of Early Tertiary Volcanics, Big Bend, Texas,

- Guidebook 19, Cenozoic Geology of the Trans-Pecos Volcanic Field of Texas, Anthony W. Walton and Christopher D. Henry, Texas Bureau of Economic Geology Guidebook Series.
- Metcalfe, C. W., and Clark, H. C. Jr., 1979, Gravity Measurements and the Big Bend, Texas, as part of a Continental Rift," Guidebook 19, Cenozoic Geology of the Trans-Pecos Volcanic Field Of Texas, Anthony W. Walton and Christopher D. Henry, eds., Texas Bureau Of Economic Geology, Guidebook Series.
- Clark, H.C. Jr, and Metcalfe, C. W., 1979, Ouachita Orogenic Belt Offset, Central Texas, ABSTRACT, Transactions of the American Geophysical Union, V. 60,46.
- Clark, H. C. Jr., Greene, L. A. Jr., and Sealy, C. O., 1979, Ground and Surface Water, Geologic Hazards, and Waste Disposal: Houston, Texas. ABSTRACT, Trans. Am. Geoph. Union, V. 60,46, p. 230.
- Clark, H. C. Jr., and Georges, D., 1981, Deep Well Injection of Liquid Waste: Hazards and Planning, Abstract, EOS, Transactions of the American Geophysical Union, V, 62, p. 865.
- Clark, H. C., 1982, Ouachita Orogenic Complex, Central Texas - Geophysical Measurements and Basement Offset, Transactions of The Gulf Coast Association of Geological Societies., (M. Malek-Aslani, ed.), 32, p.157-163.
- Clark, H C. Jr., Young, Chapman, Barker, Ronald., 1984, "Field Tests of the Stem-Induced Explosive Fracturing Technique, Society of Petroleum Engineers of the AIME, Proceedings of the Unconventional Gas Recovery Symposium, SPE 12840; May 23, 1984, 8 pages.
- Young, C., Barker, D., and Clark, H. C., 1986, Field Tests of the Stem Induced Explosive Fracturing Technique, Society of Petroleum Engineers, Journal of Production Engineering, p. 266-273.
- Clark, H.C., 1993, Geophysical Measurements and Environmental Problems in the Regulatory Process, Special Session, Third International Congress of the Brazilian Geophysical Society, Rio de Janeiro [Invited Paper].
- Clark, H.C., 1995, Geophysical Measurements and the Public Environmental Process [Best of SEG], American Association of Petroleum Geologists Annual Meeting, p. 17a, Houston.
- Clark, H.C., 1996, Overview of Environmental Problems and Non-Invasive Geophysics and Their Role in the Legal/Regulatory Framework, Looking Into the Earth, Geophysical Society of Houston, Environmental Applications Special Interest Group, p. 19-20.
- Clark, H.C., 2006, Our Bayou City Farmers' Market; a Public Place, Guide, Urban Harvest, Houston, Winter, 2006, p. 1-2.
- Clark, H.C., 2007, Landscape On The Move, Houston Atlas of Biodiversity, Houston Wilderness, p. 2-4, Texas A&M University Press, College Station.
- Patent: Waters; Robert L. (Austin, TX); Roberts; George F. (Georgetown, TX); Walters; Philip H. (Austin, TX); Clark; Howard C. (Houston, TX); Fitzgerald; Don D. (Houston, TX); Stelly, II; Otis V. (Lafayette, LA), 1988, Downhole Combination Tool, 5,064,006 USPO, 1991



# Resume

Brad Dugas

Allied Waste Industries, Inc.

**Brad Dugas**  
**Market Vice President**  
**Allied Waste Industries, Inc.**

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Brad Dugas has been in the solid waste industry since 1989 where he worked on the DOE Waste Isolation Pilot Plant in Carlsbad New Mexico. In 1992 he assumed the President and General Manger role with JOAB Inc. a solid waste landfill operator, where he assisted in the permitting, construction and operation of two class A landfills and the closure of a pre-subtitle D landfill in New Mexico. He has served as the General Manager of operations at several Landfills and Hauling divisions in Arizona and Texas for Allied Waste. Prior to his role in the Solid Waste Industry he had been in the construction industry working on several major construction projects that ranged from, 80,000 SF tilt-wall buildings to wastewater treatment facilities, a major water distribution and lift station and road construction.

**EXPERIENCE**

- **Allied Waste Industries, Inc.** June 1995 to Present
  - Market Vice President  
South Region March 2008 to Present
  - District Manager  
Southwest Region April 2006 to March 2008
  - General Manager  
Austin/San Antonio landfills February 2004 to April 2006
  - General Manager  
Arizona District June 1995 to February 2004
  
- **JOAB Inc./ Rubbish Removal**
  - President / General Manger June 1992 to June 1995
  
- **Westinghouse Electric** June 1989 to June 1992
  - WIPP site Carlsbad NM.
  - Senior Engineer/ Construction Manager
  
- **JE Boyd Construction** May 1986 to June 1989
  - El Paso Texas
  - Project Manager

**EDUCATION**

- **New Mexico State University**
  - Bachelors of Science December 1983

# Resume

Lee Kuhn

South Region Director

Engineering Environmental Management

Allied Waste

**Lee Kuhn**  
**Director, Engineering and Environmental Management**  
**Allied Waste Industries, Inc.**

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Lee Kuhn began his career in the solid waste industry in 2002 when he joined Allied Waste as a District Environmental Manager for the Oklahoma and West Texas Markets. Lee was promoted in October 2003 to serve as the District Environmental Manager in Austin for the South Central Texas Markets. In March 2005, Lee transitioned into operations in order to convert a city owned and operated landfill to an Allied Waste operated landfill. Lee served as the Landfill Manager until August 2005 when he was promoted to Region Engineer for the Southwest Region. Most recently, Lee was promoted to Director, Engineering & Environmental Management as part of the new South Region.

**EXPERIENCE**

• **Allied Waste Industries, Inc.**

Director, Engineering  
& Environmental Management  
South Region

March 2008 to Present

Region Engineer  
Southwest Region

August 2005 to March 2008

Landfill Manager  
J.C. Elliott Landfill

March 2005 to August 2005

District Environmental Manager  
South Central Texas District

October 2003 to March 2005

District Environmental Manager  
Oklahoma/West Texas District

June 2002 to October 2003

• **B&L Lumber Recycling**

Owner and Operator

March 1998 to June 2002

**EDUCATION**

• **Sam Houston State University**

Masters of Business Administration

May 2002

• **Texas A&M University**

Bachelors of Science

December 1999

# Resume

Scott Trebus

Regional Environmental Manager

**SCOTT A. TREBUS, P.E.**

3046 TEXAS OAK DRIVE  
KATY, TEXAS 77449  
281/398-3140 (HOME)  
281/222-8251 (CELL)  
STREBUS@COMCAST.NET

**Employment History:**

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***Region Environmental Manager***

Houston, Texas

Allied Waste Industries, Inc.  
March 2008 to Present

Region Environmental Manager in the South Region for Allied Waste Industries, Inc. Responsibilities include preparation/review of yearly environmental/construction budgets for the above Region, Technical review of Gas Control and Collection System Design and Construction and Technical review of Cell Construction.

***Environmental Manager***

Houston, Texas

Allied Waste Industries, Inc.  
August 2005 to March 2008

Environmental Manager for 7 active landfills, 4 closed landfills, 3 Transfer Stations and 3 Hauling Divisions. Responsibilities include preparation of yearly environmental/construction budgets for the above facilities, currently over \$9 million for 2007. Manage and review Permit Modifications and Engineering Designs and Construction projects, such as GCCS Expansions, Cell Construction. Responsible for Profit and Loss (P&L) for the environmental budget mentioned above. Responsible for managing budget and providing technical expertise for three (3) expansion sites in the Houston Market. Responsible for managing two (2), Environmental Specialist and one Environmental Manager in the Houston District. Duties include training, preparation of goals and providing Performance Reviews.

***Region Vice President/Construction Region Manager***

Houston, Texas

Shaw Environmental, Inc./EMCON/OWT, Inc. / The IT Group, Inc.  
June 2003 to August 2005

Develop, organize and manage over \$10 million dollar revenue with Direct Margin (DM) of 15% landfill gas construction business within 2 years of inception. Conduct Project Manager Responsibilities on various Landfill Gas Extraction Systems (GCCS) construction projects with revenues ranging from \$150,000 to \$1.8 million. Manage 50 equipment operators, technicians, laborers and 3 Project/Area Managers. Responsible for Marketing, Bid Preparation and Project Execution, as well as, Profit and Loss (P&L) monitoring for the region. Prepare Business Plans and Financial Projections for the construction division on a monthly basis. Prepare and facilitate annual performance reviews for staff.

***Region Vice President/Field Services Region Manager***

July 1998 to June 2003

Responsible for management and operations of over 50 landfill gas collection and control systems (GCCS) located within the Central Region. Services managed included weekly/monthly balancing and monitoring of GCCS and landfill methane detection probes, maintenance and/or repair on condensate collection systems, and compression/blower flare systems. Provided management for Tier I and Tier II Analysis and Surface Emissions Monitoring as required by either the New Source Performance Standards (NSPS) or Emission Guidelines (EG) regulations. Prepared GCCS designs and remediation plans for related systems. Responsibilities include Profit and Loss (P&L) management for the Regions Field Services revenue, as well as supervising 7 area/project managers and 20 landfill gas/groundwater technicians within the Central Region. Prepared and facilitated employee annual

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performance reviews. Additional accomplishments include: successfully marketing several million dollars of related landfill cell/cap construction, GCCS construction, and design.

***Houston Facility Director***

January 2000 to April 2003

Responsible for the management of the IT Group/EMCON/OWT, Inc. Houston facility. Duties include management of facility budget, office equipment and supplies, office build-outs and supervision of facility employees. Prepared and facilitated employee annual performance reviews.

***Senior Gas Systems Engineer***

Browning-Ferris Industries, Inc.  
Engineering Services  
May 1997 to July 1998

Houston, Texas

In addition to the duties of Gas Systems Engineer, added responsibilities included: the training of new engineers, organizing and negotiating various vendor equipment contracts, and construction contracts, as well as incorporating new ideas and researching these new practices for better performance of the GCCS nationwide.

***Gas Systems Engineer***

Browning-Ferris Gas Services, Inc.  
August 1993 to May 1997

Handled the complete design of methane gas extraction systems, prepared construction specifications, managed and oversaw construction of all aspects of these methane gas extraction projects, and assumed the position of Project Manager of energy recovery plant for South Barrington Landfill which utilized two (2) Caterpillar 3516 combustible engines. Prepared GCCS training seminar and conducted training for compliance and technician field level staff.

***District Engineer***

Browning-Ferris Industries, Inc.  
June 1991 to July 1993

Atwater, Ohio

Acted as Surveyor and Construction Engineer for Best Available Technology (BAT) landfill liner and cap closure for the Willow Creek Landfill in Ohio. Duties also included Project Manager for the site stormwater plan, Project Coordinator for groundwater monitoring, responsible for leachate collection redesign (toe-drain trench system), Liaison with Ohio Government Regulatory Bodies. Reviewed permit and construction plans prepared by the company's consulting engineers, engineered in-house design projects and construction drawings, and prepared cost proformas for various engineering projects. Prepared airspace volume calculations.

***Structural Engineer/Construction Inspector***

L. Robert Kimball  
April 1991 to June 1991

Coraopolis, Pennsylvania

Inspector of sanitary sewer and water lines. Assisted in structural stability inspections, analysis, and design for various tunnels located West Virginia.

***Civil Engineer***

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H-TECH Services, Inc.  
July 1990 to March 1991

Bridgeville, Pennsylvania

Prepared structural design and analysis calculations for various projects located within Pennsylvania and West Virginia. Designed foundations, footers, containment dikes, and retaining walls for the Monnessen by-products plant located in Monnessen, Pennsylvania. Prepared drawings manually and with AutoCAD. Assisted inspection crew on various structural inspections.

***Draftsman/Surveyor***

Horace McLean and Associates  
October 1989 to March 1991

Niles, Ohio

Prepared sub-division plan and profile and construction plans. Assisted in the design of various sanitary sewer projects located within Ohio. Assisted survey crew with the above projects.

**Education:**

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Our Lady of Lake University  
Master of Business Administration (MBA)  
Management/Finance

Houston, Texas

Youngstown State University  
Bachelors of Applied Science in Civil Engineering  
Minor in Mathematics

Youngstown, Ohio

**Continuing Education:**

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Continuing landfill education courses - University of Wisconsin  
Dale Carnegie Human Relations and Management Course  
Leadership 2000 Training – IT Group

Wisconsin, Illinois

**Professional Associations:**

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Registered Professional Engineer (P.E.) in the state of Pennsylvania  
American Society of Civil Engineers

**Technical Papers:**

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Innovative Program for Performing the NSPS Tier III Test and Evaluating the NSPS Design Guidelines, Presented at the Ninth Annual Options for Texas, Texas Solid Waste Management Conference written with Bryce Lloyd and Paul Stout, P.E.

Design and Construction of Landfill Gas Extraction System, Presented at the Moving into the 21st Century Symposium By the American Society of Civil Engineers written with Juene Franklin, E.I.T. and Rick Buffalini, P.E.

Landfill Gas to Energy, Presented for the New York Bar Association, New York, written with Rick Buffalini, P.E.



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### Technical Experience and Background:

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- Managed 9.2-acre cell construction for Landfill in Beaumont, Texas. Project duties included review and approval of designs, procurement of Construction Company and Construction Quality Assurance Firms. Review and approval of required documents to the state. Responsible for the overall budget.
- Managed several Landfill Gas Designs and Construction of the facilities in the Houston Market. Project duties included review and approval of designs, procurement of Construction Company and Construction Quality Assurance Firms. Review and approval of required documents to the state. Responsible for the overall budget.
- Managed budget and provided Technical experience for three (3) current landfill expansions in the State of Texas. Duties included, managing budgets and work product from consultants, providing technical reviews and attending/participating with Public Meetings related to the expansions.
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- Managed the construction of a 6-acre closure in Rio Rancho, New Mexico. Project duties included obtaining project equipment, procurement of materials and supplies and day-to-day management of the construction activities. Responsible for the Profit and Loss (P&L).
- Managed and designed LFG collection and control systems for the Gothard Street Landfill, Huntington Beach, California. Project work included the design; permitting and preparation of design permit plans, details and specifications for the LFG system. Engineering responsibilities included the LFG Generation Model, system design (well spacing and depth, flowrate and pressure loss calculations required for sizing the piping, blowers and destruction device) and selection of construction materials, coordinating design of structural and electrical systems.
- Managed and designed LFG collection and control system Phase II for the Los Angeles Landfill, Albuquerque, New Mexico. Project work included the design plans, details and specifications for the LFG system. Engineering responsibilities included the LFG generation model, system design (well spacing and depth, flowrate and pressure loss to ensure adequate sizing of existing blowers and flare). Review of as-built drawings and operation and maintenance manual (O&M). Provided support to the City for general O&M related to the LFG wellfield.
- Managed and designed the passive LFG control system for the Mongahlen Landfill in West Virginia. Project work included the design, details and specifications for the passive LFG system. Engineering responsibilities included the LFG generation model, system design (well spacing and depth, radius of influence calculations, and selection of construction materials).
- Managed and designed the passive LFG control system for the Levittown Landfill in Pennsylvania. Project work included the design, details and specifications for the passive LFG system. Engineering responsibilities included the LFG generation model, system design (well spacing and depth, radius of influence calculations, and selection of construction materials).

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- Managed modified Tier 2 test for the Colonial, Jefferson Davis Landfills located in Louisiana. Project work included managing and coordinating sub-contractor to perform field-testing, review of analytical data from field-testing, and review of final report issued to the state.
- Managed modified Tier 2 test for the Whispering Pines Landfill located in Texas. Project work included managing and coordinating sub-contractor to perform field-testing, review of analytical data from field-testing, and review of final report issued to the state.
- Managed the design capacity and Tier 1 project for the Sunset Farms, Sinton, Kerrville, Altair and Whispering Pines landfills located in Texas. Project work included review flyovers and site-specific volume quantities to prepare correct design capacity reports. Reviewed Tier 1 calculations and final report submitted to the State.
- Managed and designed LFG collection and control systems for the Sunset Farms Landfill located in Texas. Project work included the design; permitting and preparation of design permit plans, details and specifications for the LFG system. Engineering responsibilities included the LFG Generation Model, system design (well spacing and depth, flowrate and pressure loss calculations required for sizing the piping, blowers and destruction device) and selection of construction materials, coordinating design of structural and electrical systems.
- Managed and designed LFG collection and control systems for the McCarty Road Landfill located in Texas. Project work included the design; permitting and preparation of design permit plans, details and specifications for the LFG system. Engineering responsibilities included the LFG Generation Model, system design (well spacing and depth, flowrate and pressure loss calculations required for sizing the piping, blowers and destruction device) and selection of construction materials, coordinating design of structural and electrical systems.

Other LFG collection and control systems I have managed and designed, including preparation of permit, bid and construction level drawings, specifications and construction management are as follows:

- |  |                                     |
|--|-------------------------------------|
| - Land Reclamation Landfill – New York | - Pelham Landfill – New Hampshire   |
| - Rockingham Landfill – Vermont        | - Conestoga Landfill – Pennsylvania |
| - Imperial Landfill – Pennsylvania     | - Ottawa County Landfill – Ohio     |
| - Lorain County/Landfill – Ohio        | - Lorain County 2 Landfill – Ohio   |
| - Glenwillow Landfill – Ohio           | - Willowcreek Landfill – Ohio       |
| - CLD/Lewis Landfill – Ohio            | - Carbon Limestone Landfill – Ohio  |
| - Muskingum Landfill – Ohio            | - Big Foot Landfill – Ohio          |
| - Bob Meyer Landfill – Ohio            | - Amarillo Landfill – Texas         |
| - Itasca Landfill – Texas              | - Mexia Landfill – Texas            |
| - Colonial Landfill – Louisiana        | - Crescent Acres – Louisiana        |
| - Tower Road Landfill – Colorado       | - Foothills Landfill – Colorado     |
| - Chateau Fresno Landfill – California | - Chestnut Landfill – California    |
| - South Barrington Landfill – Illinois | - Arbor Hills Landfill – Michigan   |
| - Central Landfill – Florida           | - Area 90 Landfill – Louisiana      |

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- Solly Road Landfill – Maryland
  - Sinton Landfill – Texas
  - Abilene Landfill – Texas
  - Norris Farms Landfill – Maryland
  - Tessman Road Landfill – Texas
  - Whispering Pines Landfill - Texas
  - Broken Arrow Landfill – Oklahoma
  - Victoria Landfill – Texas
  - Pinelands Park Landfill – New Jersey
  - Quad Cities Landfill – Iowa
  - Galveston Landfill – Texas
- Project Engineer for a 20-acre landfill Subtitle D cell in Northern Ohio. Project work included reviewing consultant’s design and surveying layout of the cell clay placement and protective cover.
  - Project Engineer for a 15-acre landfill Subtitle D closure in Northern Ohio. Project Duties included reviewing consultant’s design and surveying layout of the cell cap placement and vegetative soil cover.
  - Managed the construction of an 8-acre cell for Construction and Demolition Waste (C&D) in Houston, Texas. Project duties included obtaining project equipment, procurement of materials and supplies and day-to-day management of the construction activities. Responsible for the Profit and Loss (P&L).