

Environmental Services

John J. Kuhl

Notable Results: Travis County Tenure 1998-2007

NREQ Division Director and Environmental Officer Role

- ❖ Served as Natural Resources Division Director and Environmental Officer for the County.
- ❖ As Division Director, hired, managed and cultivated a multi-disciplinary staff of 17 environmental scientists, ecologists and administrative support professionals to execute a variety of projects, studies and outreach endeavors in support of defined county goals.
- ❖ As Environmental Officer, provided in-house consultation to the Travis County Commissioners Court on a wide variety of environmental, regulatory and legislative concerns. These efforts required extensive research, external agency coordination and problem solving and typically culminated in filing of formal written comments, and/or providing oral testimony to lead action agencies. Examples of a few of these projects are listed below:
 - ◆ Legislative Monitoring and Consultation in five legislative sessions – bill tracking, coordination with lobbyists, state elected officials and staffs, briefings and testimony in commissioners court, house and senate committee venues.
 - ◆ TNRCC/TCEQ Edwards Aquifer Rules Updates – review and formal comment
 - ◆ Various transportation projects including SH 130, SH 45 SE and SW – review, participation in technical guidance committees, formal comment and technical and policy consultation
 - ◆ Longhorn Pipeline (and other petroleum pipelines), City of Austin Pipeline Ordinance – reviews and formal comments
 - ◆ TCEQ TAC Chapter 330 MSW Landfill and Standard Operating Procedure rule updates – review and formal comment both at agency and legislative venues
 - ◆ Local Landfill expansion, sludge land application and composting applications – permit review, negotiations, mediation, and formal comments
 - ◆ Groundwater Conservation District creation and feasibility for Trinity and Colorado Alluvial Aquifers in Travis County – commissioners court and work session briefings and extensive stakeholder educational program
 - ◆ Aggregate Mining Project oversight – extensive stakeholder coordination, technical and policy briefings and industry negotiations regarding permit terms, mitigation plans and compliance in Colorado River alluvium
 - ◆ City of Austin Water Treatment Plant #4 siting – review, liaison and formal comment

Balcones Canyonlands Conservation Plan and Preserve

- ❖ Cultivated and directed creation of a nationally recognized team and program successfully administering and managing the nation's first multi-species conservation plan and preserve
- ❖ Increased Travis County owned preserve land from 400 to 5,000+ acres, while directing \$85 million-dollar acquisition portfolio (Total preserve was at 28,000-acres or 92% completion on departure)



Environmental Services

- ❖ Analyzed administrative operations, implementing highly successful changes in fee schedules and variety of mitigation options to enhance participation from essentially zero to upwards of \$2 million dollars per year
- ❖ Directed administrative operations to consistent high customer satisfaction results and mitigation fee volume in the \$1-2 million dollar/year range in last two fiscal years
- ❖ Negotiated and co-authored first conservation easements and accompanying operation and maintenance plans and budgets
- ❖ Developed and directed appropriate land management and annual reporting activities
- ❖ Managed staff support for Coordinating, Scientific Advisory and Citizens Advisory Committees and advised on and directed key actions related to administration, research, land management and acquisition and public access
- ❖ Provided technical and policy guidance to U.S. Fish and Wildlife Service and other agencies regarding management and recovery of the endangered songbirds and invertebrates covered under the BCCP Regional 10(a) permit as well as other species of concern (e.g. Baron Springs and Jollyville Plateau salamanders).

Natural Resources, Open Space and Parks

- ❖ Team member working to plan two and implement three bond initiatives, acquire, design, build and manage four major metropolitan parks and open spaces including: Southeast Metropolitan Park, Northeast Metropolitan Park, East Metropolitan Park, Reimers Ranch Park, Reimers Ranch Parkland Reserve, Pogue Springs Preserve and various floodplain buyout properties. Approximately 2,000 acres in land acquisition and \$110 million dollars in combined acquisition and construction
- ❖ Team member in Parks and Open Space Planning and document preparation
- ❖ Obtained Commissioners Court authorization and created internal permitting process used for non-native, invasive, exotic and nuisance species management and external permitting process to guide research on park and preserve lands. Included very successful deer and feral hog management program with appropriate safety controls and net annual contribution of hundreds of meal equivalents to feed the hungry indigent population
- ❖ Worked with Parks management and staff to guide day-to-day natural and cultural resources and environmental health and safety management

Cultural Resources

- ❖ Enhanced Travis County's overall awareness for compliance needs in CIP projects and operations through implementation of consistent project application and training events – training held for CIP Project Managers, Road and Bridge staff, Parks staff and Preserve staff
- ❖ Hired staff with cultural resource background at strategic locations to foster compliance and protection
- ❖ Encouraged documentation and interpretation of known historic and pre-historic sites through coordination with Texas Historical Commission (THC) and in master planning processes for parks
 - ◆ BCP ranger received stewardship award for documentation of new sites on Balcones Canyonlands Preserve



Environmental Services

- ◆ Worked with non-profit to draft and approve first THC preservation easement -- historic Nameless School

Environmental Compliance in County Operations & Capital Improvement Projects (CIP)

- ❖ Created and implemented Environmental Management System, based upon ISO 14001 principles for use primarily in Road and Bridge Services Fleet and Maintenance facilities and, to a lesser extent, in Parks
- ❖ Created CIP Environmental Compliance manual and checklist for Parks and Transportation Project Managers
- ❖ Assisted in planning and budgeting for environmental compliance for bond initiatives and during scoping, awarding and construction phases
- ❖ Provided project guidance to ensure compliance with appropriate regulatory requirements throughout construction and post-construction phases

Development Review, Stormwater, and General Water Quality

- ❖ Directed creation of draft Phase II NPDES General Permit and worked with department staff and other agencies to begin early implementation of minimum control measures, map municipal separate storm sewer system (MS4), revise existing Travis County Code, etc.
- ❖ Co-author and technical advisor in drafting of two major subdivision code revisions relating to water quality protection and conservation development (first of its kind for a Texas County)
- ❖ Represented department and Commissioners Court in ensuring compliance, negotiating additional environmental protections, etc... on case-by-case bases with developments in sensitive areas

Air Quality

- ❖ Directed efforts in creating the regional Early Action Compact, an innovative multi-agency regional effort designed to decrease emissions significantly enough to avoid non-attainment status under the Clean Air Act in the Austin/Round Rock MSA
- ❖ Directed technical and policy briefings related to air quality and assured appropriate engagement with various committees and organizations responsible for local air quality improvement (e.g., Clean Air Force, Early Action Compact Work Group, Clean Air Coalition, Texas Clean Air Working Group, State Near Non-Attainment Areas Coalition, Texas Cities for Clean Air Coalition, etc.)
- ❖ Ensured all feasible programmatic efforts were in place to reduce emissions and comply with Early Action Compact and related regulations. Examples include: Ozone Action Day notification and response, adherence to and reporting on the many transportation emission reduction measure strategies, the Low-Income Vehicle Repair and Replacement Assistance Program, business evaluation and right sizing for entire county fleet and replacement with hybrids and alternative fuel vehicles as appropriate.



Environmental Services

Grant and Buyout Programs

- ❖ Cultivated and directed diverse and very successful grant program focused upon park and preserve land acquisition, park development, floodplain buyout, solid waste enforcement, etc. with typical funding entities including the U.S. Fish and Wildlife Service (Section 6 ESA HCP), Texas Parks and Wildlife Department (Park Development, Outdoor Recreation), Texas Dept. of Public Safety (Hazard Mitigation Grant Program), Texas Water Development Board, U.S. Department of Housing and Urban Development, among others
- ❖ Increased overall portfolio from approximately \$5 million to \$18 million
- ❖ Created successful new line of floodplain buyout business for Travis County exemplified by FEMA invitation for key staff member to serve as local government representative on external stakeholder work group
- ❖ Worked with County Judge's Office and Department of Housing and Human Services to make Travis County an entitlement community under the HUD Community Development Block Grant Program – my program became responsible for all environmental reviews for host projects

Solid Waste and Related Areas

- ❖ Member of Capital Area Council of Governments Solid Waste Advisory Committee – active in permit review, regional solid waste management planning and grant funding for solid waste projects in 10-County region.
- ❖ Member of Regional Environmental Task Force – active in preventing illegal dumping and other environmental crimes through education and coordination of efforts in 10-county CAPCOG region
- ❖ Led Commissioners Court and many stakeholders through successful adoption of two major ordinances involving solid waste facility siting and operation (see publications and presentations).
- ❖ Acted on behalf of Commissioners Court in formal permitting processes at the TCEQ regarding various wastewater treatment plant sludge land application and composting facilities. Activities included comment letter generation, filing of motions to overturn, presentation at TCEQ Commission hearings, formal mediation and contested case hearing support.
- ❖ Acted on behalf of Commissioners Court in local landfill permit review and comment processes.
- ❖ Negotiated various operating agreements, odor study protocols, performance-based contracts, etc... with major landfill industry representatives and their legal counsel.
- ❖ Directed management of closed county landfills including multi-million-dollar closure activities involving capping, leachate sampling, management and disposal and agency coordination.
- ❖ Directed diverse county waste minimization and recycling programs including household hazardous waste disposal, paper, plastic, metal, tire, waste oil and oil filter, anti-freeze, auto battery, cell phone, toner cartridge, and Christmas tree recycling and dead animal composting.
- ❖ Directed creation of computer and electronics buy-back contracting program with Purchasing Department.



Kuhl Resources

Environmental Services

Environmental Enforcement

- ❖ Worked with Commissioners Court and department to create new civil environmental enforcement program
- ❖ Coordinated with County Attorney's Office, Travis County Sheriff's Office and various other agencies to enhance effectiveness of existing criminal environmental enforcement program – my group was instrumental in increasing their effectiveness through lobbying for additional investigators, equipment and provision of staff resources where appropriate
- ❖ Ensured leadership role for Travis County was maintained through participation in Regional Environmental Task Force, CAPCOG Solid Waste Advisory Committee and through hosting of monthly Travis County Dumping Committee where civil servants and law enforcement personnel shared information and supported overall enforcement mission



Kuhl Resources

Environmental Services

John J. Kuhl

Projects, Publications and Reports Private Sector 1987-2000

Early Teal. The Texas Game Warden. Spring Edition, 1988.

20+ technical reports concerning threatened and endangered species submitted to the U.S. Fish and Wildlife Service, 1988-1990.

Vegetation Resource Evaluation. Pursuant to City of Austin's Lake Austin Comprehensive Watershed, Tree and Landscape Ordinances. Ten-mile waterline project for Black and Veatch Engineers. April 1987 (with Environmental Technical Services Co. Staff).

Vegetation Resource Impacts Analysis. Proposed State Highway 45 (Austin Outer Loop). Subcontract to DLS Associates and LAN/HNTB Joint Venture. August 1987 (with Environmental Technical Services Co. Staff).

Oak Hill Wastewater System Improvements Environmental Assessment. October 1987 (with Abbe-Garrett Engineering, Inc. and Environmental Technical Services Co. staff for the City of Austin).

Lone Oak Subdivision Vegetation Resource Evaluation. Pursuant to City of San Marcos Landscape/Tree Ordinance. December 1987 (with Environmental Technical Services Co. staff for Raba-Kistner Engineering).

Hydrological Evaluation and Reservoir Renovation Strategy. Harris Branch Subdivision. January 1988 (with Environmental Technical Services Co. staff for Provident Development Corp.).

Superconducting Supercollider Proposal – Ellis Co. Site. Prepared Ecological and Agricultural sections of Environmental Information Document submitted to National Laboratories Commission (with Radian Corp. and Environmental Technical Services Co. staff).

Cameron County Regional Water and Wastewater Study. Texas Water Development Board. August 1990 (with Horizon Environmental Services, Michael Sullivan and Associates, and Donald G. Rauschuber & Associates staff).

Performed investigations and drafted environmental and legal briefs related to the publication of *The Maquiladora Boom on the Texas/Mexico Border: Environmental and Public Health Implications and Potential Legal Remedies.* Texas Center for Policy Studies. June 1990.

City of Eagle Pass Wastewater System Improvements Environmental Information Document. City of Eagle Pass, Texas Water Works System. October 1990 (with Mariah Associates staff).

City of Argyle Wastewater System Improvements Environmental Information Document. City of Argyle, Texas. March 1991 (with Donald G. Rauschuber & Associates and Mariah Associates staff).



Environmental Services

Cameron Park Subdivision Economically Distressed Areas Program Phase I Facility Engineering Plan and Environmental Assessment. Public Utilities Board of Brownsville, Texas. April 1991 (with Michael Sullivan and Associates, Donald G. Rauschuber & Associates, and Mariah Associates staff).

Hacienda Gardens Economically Distressed Areas Program Phase I Facility Engineering Plan and Environmental Assessment. Public Utilities Board of Brownsville, Texas. May 1991 (with Michael Sullivan and Associates, Donald G. Rauschuber & Associates, and Mariah Associates staff).

Lake Eastex Regional Water Supply Planning Study – Environmental Inventory and Issues. Angelina & Neches River Authority. August 1991 (with Lockwood, Andrews and Newman and Mariah Associates, Inc. staff).

United States Presidential Permit Application, Brownsville Navigation District, Port of Brownsville International Crossings (Ecology Section of Environmental Assessment). Brownsville Navigation District. October 1991 (with Parsons Brinkerhoff and Mariah Associates, Inc. staff).

United States Presidential Permit Application, Brownsville Navigation District, Port of Brownsville International Crossings (Endangered Species Surveys – Ocelot, Jaguarundi, and Aplomado Falcon) January-July 1993 with subsequent falcon surveys through 1996.

Willacy County Economically Distressed Areas Program Phase I Facility Engineering Plan and Environmental Assessment. Commissioners Court of Willacy County, Texas. October 1991 (with Michael Sullivan and Associates and Mariah Associates, Inc. staff).

Engineering Assessment and Environmental Inventory and Issues Report – Artificial Recharge Enhancement – Onion Creek, Hays County, Texas. Barton Springs/Edwards Aquifer Conservation District and the Texas Water Development Board. November 1991 (with Donald G. Rauschuber & Associates, and Mariah Associates staff).

Draft Environmental Assessment on the Proposed International Bridge Between Eagle Pass, Texas and Piedras Negras, Coahuila, Mexico. City of Eagle Pass International Bridge Board. March 1992 (with Groves & Associates and Mariah Associates, Inc. staff).

Land Use Information at the Jewett Lignite Mine. Northwestern Resources Company. Submitted to Railroad Commission of Texas. August 1992 and March 1994 (with Mariah Associates, Inc. and Hicks & Company staff).

Section 404 Wetland Delineation at the Jewett Lignite Mine. Submitted to Railroad Commission of Texas. Northwestern Resources Company. August 1992 and March 1994 (with Mariah Associates, Inc. and Hicks & Company staff).

Fish and Wildlife Resources Information at the Jewett Lignite Mine. Northwestern Resources Company. Submitted to Railroad Commission of Texas. August 1991 and March 1994 (with Mariah Associates, Inc. and Hicks & Company staff).



Kuhl Resources

Environmental Services

Threatened and Endangered Species Surveys at the Jewett Lignite Mine (Spiranthes parksii, Abronia macrocarpa, Houston Toad and Bald Eagle). Northwestern Resources Company. August 1992 and March 1994 (with Mariah Associates, Inc. and Hicks & Company staff).

Borrowers Environmental Report for the 1992 CTEC Rebuild Project in Gillespie, Kendall, Kerr, Mason and Llano Counties, Texas – Endangered Species Habitat Assessments and Surveys on 126 miles of electrical distribution ROW. Central Texas Electric Cooperative. August 1992 (with Mariah Associates, Inc. staff).

City of Santa Rosa Economically Distressed Areas Program Phase I Facility Engineering Plan and Environmental Assessment. City of Santa Rosa, Texas. (with Hicks & Company, Michael Sullivan and Associates, and Donald G. Rauschuber & Associates staff).

Endangered Cat Survey and Reptile Relocation Plan. Eagle Pass Mine. Dos Republicas Resource Corporation. Summer and Fall 1993 (with Hicks & Company staff).

Report of Biological Investigations of the Proposed Camino Columbia Toll Road Project, Webb County, Texas. July 1992 (with Hicks & Company staff).

Laredo State University Campus Siting Environmental Assessment, Ecological and Threatened and Endangered Species Sections. July 1992. (with Hicks & Company staff and Parsons, Brinkerhoff, Quade and Douglas for Texas A&M University).

Breeding Survey for the Interior Least Tern, Falcon State Park & Falcon Lake, Starr and Zapata Counties, Texas. Bechtel, Inc. July 1993 (with Hicks & Company staff).

Reptile Relocation Plan and Report (Texas indigo snake, Texas horned lizard, and Texas tortoise). Bechtel, Inc. July 1994 (with Hicks & Company staff).

Draft Environmental Impact Statement for the Balcones Canyonlands Conservation Plan. City of Austin. August 1993 (with RECON, Inc. and Hicks & Company staff).

Draft Environmental Impact Statement for the New Austin Airport at Bergstrom. City of Austin and the Federal Aviation Administration. August 1993 (with Greiner, Inc. and Hicks & Company staff).

Houston Toad Survey Report, Butler Powerline and Substation Project – Freestone & Leon Counties, Texas. Brazos Electric Power Cooperative. August 1993. (with Hicks & Company staff).

Cameron County Colonia Wastewater Treatment Planning Study – Draft Baseline Report. Texas Water Development Board. February 1994. (with Michael Sullivan and Associates, Inc. and Hicks & Company Staff).

Wetland and Endangered Species Assessments – Oletha, Sutton and Woodhaven Substation Projects. Brazos Electric Power Cooperative. February 1995.



Kuhl Resources

Environmental Services

Ocean Drive (Corpus Christi, Texas) Improvements – Environmental Assessment. Naismith Engineering Company for the Texas Department of Transportation. 1995-7.

State Highway 96, East-West Thoroughfare Environmental Assessment. City of League City, Dannenbaum Engineering and Texas Department of Transportation. 1995-7.

State Highway 49 – Tyler, Texas Draft Environmental Impact Statement. Carter Burgess for Texas Department of Transportation. 1995-8.

West Texas Routing Study – Proposed Lubbock to I-10 Freeway, Draft Environmental Impact Statement. Carter Burgess and Texas Department of Transportation. 1995-7.

U.S. 287 – Freestone County, Texas Environmental Assessment. Vegetation Sampling and Bald Eagle Survey. Spring/Summer 1995.

Endangered Species Assessments – Eleven Powerline Re-build and Upgrade Projects in Central and North Texas. Brazos Electric Power Cooperative. August 1996.

Killeen Business Park – Cultural Resources Permitting. Killeen Economic Development Corp. September 1996 (with the Wallace Group).

Chacon Creek Wastewater Interceptor – Environmental Information Document, Endangered Plant Survey and Cat Habitat Evaluation. U.S. E.P.A. (with Groves & Associates and Frontera Inc.). 1997-8.

Nolan Creek Wastewater Interceptor – Natural and Cultural Resource Permitting, City of Killeen, Texas. (with the Wallace Group). Spring 1998.

Naval Station Ingleside – Endangered Cat Survey. U.S. Navy. (with Turner, Collie and Braden, Inc.). Fall 1997 – Spring 1998.

U.S. 190 – Copperas Cove, Texas, Draft Environmental Impact Statement/Major Investment Study. HDR Engineering for Texas Department of Public Safety. 1995-7.

Endangered Species Habitat Assessments and Permitting Support -- New Hope Loop Transmission Line, Johnson and Somervell Counties, Texas. Brazos Electric Power Cooperative. 1997-8.

Boca Chica/South Bay Piping Plover Survey. Volunteer Effort Conducted with Mr. Lee Elliott, TPWD. February 1996.

Lee County Houston Toad Surveys. Volunteer Effort Conducted with Mr. Jim Yantis, TPWD. Spring 1996 and 1997.



Kuhl Resources

Environmental Services

Gulf Coast/Laguna Madre de Tamaulipas, Mexico Piping Plover Survey. Volunteer Effort with Mr. Lee Elliott, TPWD. Provided map and logistical support. Spring 1998.

Expert Witness — Lee County Houston Toad Population for Neighbors for Neighbors in Alcoa Surface Mine Hearings at Railroad Commission of Texas. Spring 2000.



Environmental Services

John J. Kuhl

Projects, Publications and Reports Private Sector 2007-2019

Big Spring MSW Landfill. Project Manager for ecological and archeological services in support of Texas Commission on Environmental Quality expansion permit. Parkhill, Smith & Cooper for City of Big Spring. Summer 2007.

Little Walnut Creek Stream Restoration Project Austin, TX. Ecological evaluations and revegetation/restoration plan preparation for 2-mile section of urban creek. With Hicks & Company Staff and URS Corporation for the City of Austin. Fall 2007

Laredo Outer Loop Corridor Study, Laredo, Webb County, TX. Project Manager for multi-disciplinary constraints analysis and corridor study for a proposed 50-mile plus long loop around the City of Laredo, Texas in Webb County. Included socioeconomic, soils, geological resources (including petroleum and hazmat sites), archeological and historical resource, and ecological analyses (including habitat assessments for endangered cats and several rare, threatened and endangered plants and animals). With Hicks & Company staff and TEDSI Infrastructure for the Laredo District of the Texas Department of Transportation. Fall 2007.

Webberville 2800-Acre Tract, Travis County, TX. U.S. Army Corps of Engineers Jurisdictional Determination, ecological and archeological investigations for proposed industrial site. With Hicks & Company Staff and Geomatrix for the City of Austin. Fall 2007-Winter 2009.

FM 973 Waterline, Travis County, TX. QA/QC Role for Environmental Assessment, archeological investigations and Phase I ESA for 3-mile long water line extension along FM 973. With Hicks & Company Staff and Alan Plummer & Associates for the City of Austin. Fall 2007.

Brazos Electric Power Cooperative Wild Cat Electric Transmission Line & Substation Site, Johnson County, Texas. Project Manager for ecological and archeological investigations and permitting/clearances for six-mile rural line and 5-acre substation site. Fall 2007.

Brushy Creek Road Widening Environmental Assessment Williamson County, Texas. QA/QC and Endangered Species consultations for City of Cedar Park/ Austin District of the Texas Department of Transportation two mile widening project. With Kimley Horn Fall 2007 to Spring 2009.

City of Pleasanton, TX Wastewater System Expansion. U.S. Army Corps of Engineers Jurisdictional Determination and ecological field work for 3-mile project along Atascosa River. Summer 2008.

American Electric Power (AEP)/Southwest Electric Power Company (SWEPCO) Caplis to McDade Electric Transmission Line Routing Study, Shreveport, Bossier Parrish, LA. Project manager and field ecologist for Socioeconomic, archeological, historical, ecological and wetlands evaluations for seven-mile 138kV transmission line and substation project. Spring-Fall 2008.

South Pleasant Valley Water Line Extension. Project Manager for Environmental Constraints Analysis including U.S. Army Corps of Engineers Jurisdictional Determination, ecological and archeological investigations for 1-mile long water line extension. With Hicks & Company Staff and Raymond Chan Associates for the City of Austin. Fall 2008 – Spring 2009.

Williamson Creek Tributary II Erosion Control/Stream Restoration. Austin, TX. QA/QC role for Environmental Assessment, ecological, U.S. Army Corps of Engineers Section 404 permitting and



Environmental Services

archeological investigations in support of erosion control and stormwater related improvements along 3,000-foot section of Williamson Creek Tributary II. With Hicks & Company Staff and PBS&J for the City of Austin. Summer 2008.

East Bouldin Creek Stormwater facility Improvements, Austin, TX. QA/QC role for ecological and archeological investigations in support of erosion control and stormwater related improvements along East Bouldin Creek. With Hicks & Company Staff and TCB for City of Austin. Summer 2008.

WCID #17 Serene Hills Drip Irrigation Vegetation Analysis. Western Travis County, TX. Project Manager for quantitative woody and vegetative analysis of a proposed drip irrigation site for a residential development west of Austin, TX. Conducted in support of Texas Commission on Environmental Quality permitting requirements for Tree Clinic and River City Engineering. Summer 2008.

San Antonio Water System Carrizo Water Well Field Constraints Analysis. Southeastern Bexar County, TX. Performed QA/QC Role on Ecological and Archeological Constraints Analysis for expanded water well site in conjunction with their Aquifer Storage and Recovery Pipeline. With Hicks & Company Staff and CH2M for the San Antonio Water System. Summer 2008.

Goliad In-Situ Recovery Project Socioeconomic and Ecological Assessment (SEA). Goliad County, TX. Project Manager for SEA conducted in support of Uranium Energy Corporation uranium mine permit application for submission to Texas Commission on Environmental Quality. Full scope of work included socioeconomic evaluations, quantitative plant surveys, wetland delineations, bird surveys and general wildlife surveys. Attwater's Greater Prairie Chicken habitat assessment included. With Hicks & Company Staff for Craig Holmes and Uranium Energy Corporation. Document prepared and submitted to client, TPWD, & USFWS in Spring 2008, clearances received Summer 2008. Expert witness testimony provided in Texas State Office of Administrative Hearing proceedings in Spring 2010.

Pruett, Centers No. 1 & Zimmerhanzel Petroleum Exploration Site Habitat Assessments. Bastrop County, TX. Project Manager and lead ecologist for habitat assessments for the Houston Toad and Navasota Ladies-tresses at three proposed well sites in Bastrop County. With Hicks & Company Staff and Strategic Environmental Compliance for Geo Southern Energy Services. Summer 2008.

Balcones Canyonlands Ribelin Tract Golden-cheeked Warbler Territory Mapping. Travis County, TX. Project Manager and Lead Ecologist for avian survey and Golden-cheeked Warbler Territory Mapping project on Ribelin Tract within Balcones Canyonlands Preserve. For Travis County Transportation and Natural Resources Department. Summer 2008.

Ft. Worth Sewer Main M253 Environmental Information Document. Project Manager for Texas Water Development Board funded EA in support of a four-mile wastewater interceptor project. Included socioeconomic, ecological, archeological, U.S. Army Corps of Engineers Jurisdictional Determination and public involvement. With Hicks & Company Staff and Transystems for the City of Fort Worth. FONSI received November 2008.

East Mountain Creek Interceptor Environmental Assessment & Mitigation Plan. Dallas County Texas between Joe Pool Lake and Mountain Creek Lake. Project Manager for Texas Water Development Board funded EA in support of a four-mile wastewater interceptor project. Includes socioeconomic, ecological, archeological, U.S. Army Corps of Engineers Jurisdictional Determination, public involvement and mitigation plan. With Hicks & Company Staff and Transystems for the Trinity River Authority. Winter 2008 to Spring 2014.

City of Pflugerville, TX Wilbarger Detention Facility. U.S. Army Corps of Engineers Jurisdictional Determination, ecological fieldwork and mitigation planning for proposed stormwater detention facility



Environmental Services

and park on 100-acre site on Wilbarger Creek. With Hicks & Company staff and Klotz Associates. Summer 2008-Summer 2009.

Colorado Bend State Park Black-capped Vireo Territory Monitoring. San Saba and Lampasas Counties TX. Project Manager and Conducted avian surveys, including territory mapping for the Federally Endangered Black-capped Vireo. Texas Parks & Wildlife Department. Summers 2009 & 2018.

Country Club Creek at Riverside Drive Environmental Assessment. Austin, TX. QA/QC Role for US Army Corps of Engineers Jurisdictional Determination and permitting consultation. With Hicks & Company Staff and KEC Engineering for the City of Austin, Texas. Summer 2009.

Bastrop Economic Development Corporation Houston Toad Habitat Assessment. Habitat assessment and USFWS coordination for 84-acre site that is being evaluated for alternative uses. Winter 2009/2010.

Austin Community College 100-acre Leander Site Habitat Assessment and Jurisdictional Determination Williamson County, Texas. Project Manager for habitat assessment and wetland evaluation on a 100-acre site for proposed campus site. Habitat Assessment focused upon Black-capped Vireo, Golden-cheeked Warbler and karst invertebrates. With Hicks & Company Staff and Geomatrix. March 2010.

City of Austin Water Quality Protection Lands Bird Surveys, Hays and Travis Counties, Texas. Project Manager for habitat assessments, presence/absence surveys and territory mapping for Endangered Golden-cheeked Warbler and Black-capped Vireo on approximately 6,923 acres. With Hicks & Company Staff and Blanton & Associates staff. Spring/Summer 2010.

US 83 Reliever Route-Roma to Rio Grande City, TxDOT – Pharr District, Starr County, TX – Project Manager for 22-mile reliever route around the cities of Roma and Rio Grande City. Includes surveys and a Biological Assessment for the endangered Zapata bladderpod and several other rare, threatened and endangered plants and animals, socioeconomic and Environmental Justice effects, cultural resource studies, and public involvement. With Hicks & Company staff and S&B Infrastructure. 2007-2010.

Edwards Aquifer Recovery Implementation Program Habitat Conservation Plan & Environmental Impact Statement. Ecology team and agency coordination participation in support of HCP and QA/QC and agency coordination role for DEIS. With Hicks & Company staff and RECON, Inc. 2009-2010.

Dunlap Substation Environmental Assessment, Austin Energy, Austin, Texas. Project manager for City of Austin Environmental Assessment for new electrical substation site. Included wetlands and cultural resources investigations and permitting for an undeveloped 20-acre site in eastern Travis County. With Hicks & Company staff and Intera, Inc. Spring 2011.

SH 130 Plum Creek Wetland Mitigation Site Monitoring. Lead ecologist for wetland vegetation monitoring and U.S. Army Corps of Engineers coordination at 250-acre site. Activities consisted of annual quantitative wetland vegetation analysis and monitoring report preparation. With Lonestar Infrastructure team staff, TxDOT Austin District staff and Hicks & Company staff. Summers 2011 to 2013.

Lone Star Rail Environmental Impact Statement. Project Manager for 117-mile multi-disciplinary NEPA project adding commuter rail capacity to existing UPRR freight line between Georgetown and San Antonio, TX. Responsibilities included delineation of jurisdictional waters, wildlife habitat assessment, surveys of archeological resources and non-archeological properties, analysis of cumulative and indirect effects, socioeconomic and community effects, and public involvement. With Jacobs for Lone Star Rail District. Summer 2010 to Spring 2011.



Environmental Services

Lone Star Freight Rail Relocation Constraints Analysis. Lead ecologist in support of Alternative Alignment Analysis and Preliminary Engineering Study for proposed Union Pacific Railroad freight mainline relocation between Taylor and Seguin, Texas. Primary focus was identifying jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas along six approximately 85-mile long alternatives. With Jacobs and Hicks & Company staff for Lone Star Rail District. Summer 2011.

Hamilton Creek Interceptor Biological Survey and Preliminary Jurisdictional Determination. Project manager for ecological study of a Texas Water Development Board funded suite of water and wastewater improvements in and around the City of Burnet, Texas. Primary focus areas included jurisdictional waters delineation, general wildlife habitat analysis and rare, threatened and endangered species habitat assessment along Hamilton Creek and tributaries (Haynie and Daugherty Branches). A preconstruction breeding bird survey was also conducted to comply with the Migratory Bird Treaty Act. With Hicks & Company staff and Thonhoff Consulting Engineers for the City of Burnet. Summers 2011 and 2012.

Dowlen Road Extension Environmental Assessment. Lead ecologist for biological investigations along a proposed two-mile new location roadway extension in Beaumont, Jefferson County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. With Hicks & Company staff for TxDOT Beaumont District via Environmental Affairs Division contract. Fall 2011.

Valentine Biological Survey. Project manager for ecological investigations at a proposed five-acre petroleum well pad site near Lockport, LaFourche Parrish, Louisiana. Performed biological assessment of the site focusing upon vegetation and wildlife, including rare, threatened and endangered species. Key issues included coordination with the Louisiana Department of Wildlife and Fisheries Natural Heritage Program regarding potential impacts to colonial waterbird rookery and Bald Eagle nesting sites. With Hicks & Company Staff and Strategic Environmental Compliance, Inc. for Repsol E&P, USA Inc. Fall 2011.

Windham Road Substation Environmental Assessment. Project manager for a U.S. Department of Agriculture – Rural Utility Service required Environmental Assessment for a proposed electrical substation at a new location 44-acre site. Responsibilities included delineation of jurisdictional waters, wildlife habitat assessment, surveys of archeological resources and non-archeological properties, analysis of cumulative and indirect effects, land use, socioeconomic and community effects, and public involvement. With Hicks & Company staff for Brazos Electric Power Cooperative for USDA RUS. Fall 2011.

Brown Giebel In-Situ Recovery Project Socioeconomic and Ecological Assessment (SEA). Live Oak County, TX. Project Manager for SEA conducted in support of radioactive material license (uranium mine) permit application for submission to Texas Commission on Environmental Quality. Full scope of work includes archeological surveys, land use and socioeconomic evaluations, quantitative plant surveys, wetland delineations, threatened and endangered species habitat assessment, bird surveys and general wildlife surveys. SEA document to be prepared for submittal to Texas Commission on Environmental Quality. Fall 2011 to Spring 2012.

Waller Creek-Reilly Pond Riparian Restoration Plan. Supporting ecologist for stream and flood retention water quality pond restoration project. Key tasks include jurisdictional waters determination and



Environmental Services

restoration plan development for an approximately 1,100-foot-long stretch of Waller Creek and an associated water quality detention structure referred to as Reilly Pond. With Hicks & Company staff and Espey Consultants for the City of Austin. Fall 2011 to Spring 2012.

Boggy Creek Bikeway Environmental Assessment. QAQC and agency coordination role on EA supporting a proposed hike and bike trail and bridge over Boggy Creek in Austin, Texas. Included jurisdictional water impact analysis and U.S. Army Corps of Engineers consultation. With Hicks & Company and Raymond Chan Associates, Inc. staff for the City of Austin. Summer 2013.

LCRA Cushman Transmission Line Expert Witness Testimony. Lead ecologist for expert witness testimony preparation for Public Utility Commission hearing. Focus was riparian habitat impacts at crossing of proposed 138-kV electrical transmission line over the Guadalupe River in Guadalupe County, Texas. With Hicks & Company and Lloyd Gosselink Attorneys at Law staff on behalf of private landowner. Winter 2011.

SH 30 at FM 2244 Categorical Exclusion and Preliminary Jurisdictional Determination. Lead ecologist for project involving proposed intersection and drainage improvements in Carlos, Grimes County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. Pre-Construction Notification (PCN) submitted to the USACE Under Nationwide 14 (Linear Transportation Projects) for unavoidable impacts to jurisdictional waters. State Categorical Exclusion approved July 2012 and PCN approved December 2013.

Sonora and Sheffield Habitat Assessments. Project manager for evaluation of proposed maintenance sites along existing petroleum pipeline near Sonora (Edwards County) and Sheffield (Terrell and Crockett Counties), Texas. Habitat assessments primarily focused upon potential impacts to Tobusch fishhook cactus and black-capped vireo habitat at approximately 25 proposed repair sites along a natural gas line. With Hicks & Company staff for Enterprise Resources, Inc. Spring 2012.

Line 146 Maintenance Habitat Assessments, Pecos to Sonora and Sonora to Real Pipeline Segments in Sutton, Crockett, Edwards and Real Counties, Texas, Enterprise Products. – Habitat assessments for the endangered Black-capped Vireo, Golden-cheeked Warbler, and Texas Snowbells and presence absence surveys for the Tobusch fishhook Cactus. Assessments and surveys were conducted along an existing natural gas pipeline in anticipation of upcoming maintenance and repair excavation at 30 proposed dig sites. Spring 2012 and 2013.

Shidler Electrical Substation Habitat Assessment. Project manager for habitat assessment at a proposed substation expansion site outside Shidler, Osage County, Oklahoma. Project involved overall rare, threatened and endangered species habitat assessment; however, primary species of concern was American Burying Beetle. Tasks included consultation with USFWS Tulsa Ecological Services Office and Oklahoma Department of Wildlife Conservation and Oklahoma Natural Heritage Inventory. With Hicks & Company staff for American Electric Power. Spring 2012.



Environmental Services

McFarland Road at Dickinson Bayou Programmatic Categorical Exclusion. Lead ecologist for biological investigations at a proposed bridge replacement site over Dickinson Bayou in Galveston County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. With Hicks & Company staff for TxDOT Houston District via Environmental Affairs Division contract. Initiated Spring 2012. Programmatic Categorical Exclusion approved March 2013.

Lifeline Ventures Due Diligence Assessment. Project manager for due diligence studies conducted prior to acquisition of a new location 55-acre proposed residential and retirement home project site near San Marcos, Hays County, Texas. Deliverables included Threatened and Endangered Species Habitat Assessment, Jurisdictional Waters (including Wetlands) Determination, Geologic Assessment and Phase I Environmental Site Assessment. With Hicks & Company staff for Lifeline Ventures, Inc. Spring 2012.

U.S. 59 Victoria Wetlands Delineation. Lead Ecologist for jurisdictional waters (including wetlands) determination in Victoria, Victoria County, Texas. With Hicks & Company staff for TxDOT Yoakum District via Environmental Affairs Division contract. Spring/Summer 2012.

Hill Country Conservancy Triple C Ranch Golden-cheeked Warbler Habitat Assessment & Survey. Project Manager for habitat assessment, presence/absence surveys and territory mapping for Endangered Golden-cheeked Warbler and Black-capped Vireo on approximately 1,200 acres. With Hicks & Company Staff. Spring/Summer 2012.

C13 Wastewater Improvements Environmental Assessment, San Antonio Water Systems, Bexar County, TX – QA/QC role in biological investigations for wastewater improvements in Bexar County, Texas. Work included environmental and habitat assessments, including a tree survey in accordance with the City of San Antonio regulations, and preparation of an Environmental Assessment. January 2012 to November 2012.

FM 457 Swing Bridge Environmental Constraints Analysis – Lead ecologist and agency/landowner coordination roles for constraints analysis project supporting proposed swing bridge replacement at the Gulf Intracoastal Waterway in Sargent, Matagorda County, Texas. Primary focus was to identify jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas and assess impacts and permitting solutions. With Hicks & Company staff for TxDOT Yoakum District via Environmental Affairs Division contract. 2014 - FONSI March 2016.

La Palangana In Situ Recovery Project Ecological Surveys. Project manager for required ecological evaluations at proposed ISR expansion area in support of radioactive material license (uranium mine) expansion permit application for submission to Texas Commission on Environmental Quality. Scope of work includes quantitative plant surveys, jurisdictional waters (including wetlands) delineations, threatened and endangered species habitat assessment, bird surveys and general wildlife surveys. La Palangana Ranch, Duval County, Texas. With Hicks & Company staff for Craig Holmes and Uranium Energy Corporation. Spring/Summer 2012.

Lake Oaks Subdivision Environmental Assessment, Travis County, Texas – Project Manager for NEPA compliant Environmental Assessment supporting HUD Community Development Block Grant funded roadway improvements. Conducted ecological evaluations, habitat assessment and USFWS consultation under §7 of the Endangered Species Act. For Travis County Health and Human Services Department. 2012.



Environmental Services

Southside Wastewater Improvements Environmental Constraints Evaluation, City of Kyle, Hays County, TX – Ecologist for biological investigations for wastewater improvements in Hays County, Texas. Conducted environmental and habitat assessments, including a waters of the U.S. jurisdictional determination, and assisted in the preparation of the technical memorandum. November 2012 to August 2013.

US 62/US 180 (Montana Avenue) from Yarbrough Drive to Loop 375 State Categorical Exclusion, TxDOT El Paso District, El Paso County, TX – QA/QC role for biological investigations supporting roadway improvements in El Paso County, Texas. Primary focus areas were identifying and assessing impacts to valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. August 2012 to May 2013.

Pontotoc to Wapanucka Transmission Line Habitat Assessment, American Electric Power (AEP) – Project Manager and Lead Ecologist for desktop and field habitat assessments at a proposed 6.4-mile long 138 kV transmission line on new location south of Stonewall, Oklahoma in Pontotoc and Coal Counties. The project involved consideration of all potentially occurring rare, threatened and endangered species; however, the primary species of concern was the American Burying Beetle. A habitat report assessment was completed for the client's use. October 2012 – May 2013.

Landa Park Golf Course Design Services, Terra Design, Comal County, TX – Lead Field Ecologist and QA/QC roles for biological investigations for proposed renovations to the Landa Park Golf Course in Comal County, Texas. Activities consisted of identification of jurisdictional waters and assessing impacts to valuable wildlife habitat and potential rare, threatened and endangered species habitat areas associated with Comal Springs and the Comal River. The project included informal consultation with the U.S. Fish and Wildlife Service and the development of a Riparian Restoration and Enhancement Plan. December 2012 to November 2013.

Environmental Manual, TxDOT Environmental Division, Travis County, TX – Quality Assurance/Quality Control role for Water and Ecological Resources chapters for the TxDOT Environmental Manual. Primary focus included regulatory background, pathways to compliance and procedural and documentation requirements. April 2013 to December 2013.

Westbrook Communication Tower Golden-cheeked Warbler and Black-capped Vireo Survey, Community of Oatmeal, Burnet County, TX – Project Manager and Lead Ecologist for habitat assessment and presence/absence surveys for Endangered Golden-cheeked Warbler and Black-capped Vireo on approximately 0.38 acre. Spring/Summer 2013.

US 281 Loop 1604 to Borgfeld Rd. Environmental Impact Statement. San Antonio, Bexar County, TX – Endangered Species and Wildlife resources task leader for 7.5-mile project. Extensive threatened and endangered species (Golden-cheeked Warbler, and Karst Invertebrates) and direct, cumulative and indirect impact assessment. Biological Assessment preparation (§7 Consultation). With Hicks & Company staff and Jacobs for Alamo Regional Mobility Authority and San Antonio District of TxDOT. A Record of Decision (ROD) was issued for the project on July 17, 2015.



Environmental Services

US 69 Lindale Reliever Route Environmental Impact Statement, TxDOT Tyler District, Lindale, TX – Project Manager for seven-mile new location reliever route for US 69 around Lindale, Texas. Included Coordination Plan under SAFETEA-LU guidelines, delineation of wetlands, wildlife habitat assessment, surveys of archeological resources and non-archeological historic properties, including a Historic Resources Reconnaissance Survey, analysis of cumulative and indirect effects, socioeconomic and community effects, and public involvement. A Record of Decision (ROD) was issued for the project on April 24, 2015.

FM 1626 Roadway Improvements, Environmental Assessment, TxDOT Austin District, Hays County, TX – Project Manager for three-mile expansion of FM 1626 in a rapidly developing part of Hays County. Includes socioeconomic and community effects, threatened and endangered species and wildlife habitat assessments, analysis of cumulative and indirect effects, cultural resource studies, and public involvement. A Finding of No Significant Impact (FONSI) was awarded July 2015.

Interstate 35 Planning and Environmental Linkages Study, TxDOT-Austin District, Williamson, Travis and Hays counties, TX – Lead Ecologist for an environmental constraints analysis along approximately 28 miles of Interstate 35 for future transportation projects. Environmental constraints evaluation including jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas. May to September 2014.

Howard Lane Extension Travis County, Texas. Project Manager for Environmental Assessment for three-mile new location roadway for Travis County/City of Austin. Includes wetlands and cultural resources investigations and permitting. With Hicks & Company staff and Jacobs, Inc. 2010 to 2012.

City of Austin Jollyville Water Transmission Line Constraints Analysis, Environmental Assessment and Permitting. Austin, Travis County, TX. Project Manager for Constraints analysis, Environmental Assessment, Environmental Commissioning and federal permitting for 6-mile 84” new location water line through Balcones Canyonlands Preserve in Travis County. Key issues include water quality, endangered species permitting, and impacts assessment for the federally listed Black-capped Vireo and Golden-cheeked Warbler, Jollyville Plateau Salamander and karst invertebrates. Extensive agency coordination regarding regional 10(a) permit. With Hicks & Company Staff and Black & Veatch for the City of Austin. Spring 2009 to 2014.

Interstate 35 & State Highway 130 Connector Feasibility Study, TxDOT Austin District, Hays, Caldwell, Guadalupe & Comal Counties, TX – Lead Ecologist for an environmental constraints analysis for a potential roadway connection between I-35 and State Highway 130. Primary focus was identifying potential environmental constraints including jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas. February 2013 to July 2014.

Altair Waste Disposal Site, Geosyntec Consultants, Colorado County, TX – Lead Field Ecologist for biological investigations at a proposed waste disposal site in Colorado County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas, and development of an Environmental Constraints technical document. January 2013 to April 2014.

Iowa Well Site Wetland Determination and Ecological Survey, Strategic Environmental Compliance, Jefferson Davis Parish, Louisiana – Ecologist for biological investigations at a proposed oil and gas well



Environmental Services

site in Jefferson Davis Parish, Louisiana. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas. October 2013 to November 2013.

Realignment of FM 3503 (JBS Parkway) Categorical Exclusion, TxDOT Odessa District, Ector County, TX – Lead Ecologist for biological investigations at a proposed road realignment in Ector County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. September 2013 to February 2014.

State Highway 289 (Preston Road) Programmatic Categorical Exclusion, TxDOT Dallas District, Collin County, TX – QA/QC role for biological investigations supporting a proposed road expansion site in Collin County, Texas. Primary tasks included identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas including the completion of a Biological Evaluation form and Tier I Site Analysis. January 2013 to June 2014.

Loop 1604 at State Highway 151, TxDOT-San Antonio District, Bexar County, TX – Lead Ecologist for biological investigations at a proposed road expansion site in Bexar County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. April 2014 to September 2014.

Loop 1604 from Potranco Road to Culebra Road, TxDOT San Antonio District, Bexar County, TX – Lead Ecologist for biological investigations at a proposed road expansion site in Bexar County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. November 2013 to November 2014.

Fort Worth C&D Landfill, Geosyntec Consultants, Tarrant County, TX – Lead Field Ecologist for biological investigations supporting a proposed expansion at an existing waste disposal site in Tarrant County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas, and development of an Environmental Constraints technical document. November 2013 to July 2014.

Dahlstrom Ranch Public Access Area Biological Survey, County of Hays, Hays County, TX – Project Manager and Lead Ecologist for habitat assessments and surveys for the federally listed endangered Golden-cheeked Warbler and Black-capped Vireo; one candidate plant species, the bracted twistflower; two state-listed species, the horned lizard and Zone-tailed Hawk, and three species of greatest conservation need, the spot-tailed earless lizard, Texas garter snake and the plains spotted skunk on an approximately 360 acre site in Hays County, Texas. For Hays County. May 2014 to August 2014.

Jewett Mine Houston Toad Surveys in Leon, Freestone, and Limestone Counties, Blackland Environmental–Lead Ecologist and Survey Coordinator for presence/absence surveys for the Houston toad on two permit areas of the Jewett Mine in Leon, Freestone, and Limestone counties. Surveys were conducted as required by the mining permit for areas covered under the USACE individual permit. Over 2,000 acres were surveyed during four breeding seasons. Survey design and duration was coordinated with U.S. Fish and Wildlife staff and followed their survey protocol. Nearest known localities of the Houston toad were also monitored during each breeding season to document chorusing behavior. The survey consisted of a combination of listening stops, pond surveys and audio recording survey. Pond survey locations were visually inspected for toads, tadpoles, and egg strands, and play-back tapes were



Environmental Services

utilized following a five-minute listening period to confirm the absence of the Houston toad. Additionally, audio recorders were utilized within the survey areas throughout the duration of the breeding season. A total of 13 anuran species were identified within the surveyed areas. Surveys over the four breeding seasons within the permit areas resulted in negative findings for the Houston toad; however, Houston toads were heard chorusing on multiple nights over multiple breeding seasons at one of the nearest known locality sites. January 2014 to July 2017.

City of Hempstead Pintail Landfill; Waller County, Texas (SOAH Docket No. 582-14-3597/TCEQ Docket No. 2012-0302-MSW) – Project manager and Expert Witness assisting City of Hempstead in opposing a proposed Type I Municipal Solid Waste Landfill. Conducted field investigations, provided disposal and disposal review services, and prepared expert witness testimony regarding U.S. Army Corps of Engineers jurisdictional waters and rare, threatened and endangered species in and around the proposed site. With Kelly Hart & Hallman April 2014 to August 2015.

Centerpoint CCN Expert Witness Testimony; Grimes, Waller and Harris Counties, Texas (SOAH Docket No. 473-15-3595/PUC Docket No. 44547) – Project Manager and Expert Witness providing testimony on a proposed Certificate of Convenience and Necessity for a 345-kV transmission line proposed by CenterPoint Houston Electric, LLC. Mr. Kuhl conducted fieldwork, research and prepared testimony for two private landowners (McCord and Cardan) in the vicinity of proposed project alternatives. With Lloyd Gosselink Rochelle and Townsend March to July 2015.

LCRA Blumenthal Substation and Transmission Line CCN Expert Witness Testimony; Blanco, Gillespie, and Kendall Counties, Texas (SOAH Docket No. 473-15-1589/PUC Docket No. 43599) – Project Manager and Expert Witness providing testimony on a proposed Certificate of Convenience and Necessity amendment for a substation and 138-kV transmission line proposed by the Lower Colorado River Authority Transmission Services Corporation. Mr. Kuhl conducted fieldwork, research, prepared testimony and testified before SOAH on behalf of affected landowners organized as the Jenschke Lane Preservation Alliance. With Thompson & Knight, LLP December 2014 to May 2015.

Interstate 35 West from Eagle Parkway to State Highway 114, TxDOT Dallas District, Denton County, TX – Lead Ecologist for investigations supporting proposed roadway improvements in Denton County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. The CE was approved in August 2015, and the project was let in September 2015.

Hill Country Conservancy Lazy Bend Ranch Transaction Screen Assessment; Hays County, Texas - Project manager for Hill Country Conservancy County due diligence evaluations supporting the acquisition of a conservation easement property 150-acre undeveloped parcel at 4500 CR 220 (Mt. Gainor Road) in rural Hays County near Dripping Springs. The property was evaluated in general accordance with the American Society of Testing and Materials (ASTM) Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (ASTM Designation: E1528). September 2015.

US 281 from FM 3248 to FM 1421, TxDOT Pharr District – Lead Ecologist for the development of an Environmental Assessment for improvements to US 281 from FM 3248 to FM 1421 in Brownsville. Major issues include potential impacts to threatened and endangered species and impacts to waters of the



Environmental Services

U.S. and associated USACE permitting. Mr. Kuhl was responsible for the development of the water and biological resources technical reports for the project. This included field investigations, vegetation mapping, waters of the U.S. and Section 404 Permit assessment and completion of a Biological Evaluation for coordination with Texas Parks and Wildlife Department (TPWD). A FONSI was issued in October 2015.

MoPac (Loop 1) Intersection Improvements, Central Texas Regional Mobility Authority – Mr. Kuhl serves as the Lead Ecologist for the biological and indirect and cumulative impact investigations for proposed intersection improvements from north of Slaughter Lane to south of La Crosse Avenue in Austin. This task involves identifying and assessing impacts to wildlife and rare, threatened and endangered species habitat and indirect and cumulative impact assessment in support of an EA being prepared for the project. A habitat assessment and presence/absence survey for the Golden-cheeked Warbler were conducted during Spring/Summer 2014. A public hearing was held for the project on July 30, 2015 and a FONSI was issued by TxDOT in December 2015.

Oran-Advance Transmission Line Construction Monitoring, Brazos Electric Power Cooperative – Project Manager and Lead Ecologist on endangered species (Golden-cheeked Warbler) habitat protection monitoring effort. Tasks included contractor and landowner coordination and assessing, mapping and assuring construction activities did not negatively affect occupied habitat adjacent to the right of way during rebuild of a 169-kV transmission line in Palo Pinto County, Texas. October to December 2016.

SH 45 Southwest, TxDOT Austin District – Lead Ecologist with primary task of conducting avian surveys to identify and avoid active nests in advance of vegetation clearing and other construction activities in order to document compliance with the Endangered Species Act and Migratory Bird Treaty Act. Surveys also target state listed and Species of Greatest Conservation Need noted in the SH 45 Southwest Environmental Compliance Management Plan (ECMP) (2015) including two federally endangered songbirds, one state-listed threatened reptile, and twelve Species of Greatest Conservation Need. November 2016 to the present.

USFWS Buff-breasted Sandpiper Surveys – Independent surveyor with the volunteer Gulf Coast survey team in conducting 45-mile, 31 stop point count surveys documenting Buff-breasted Sandpiper, Upland Sandpiper, Hudsonian Godwit and Golden Plover by sight and vocalization in a wide range of coastal prairie habitat types in Lavaca and Wharton Counties. The surveys involved documenting numbers and distances of birds observed using binoculars, spotting scopes, GPS and rangefinders and documenting climactic and habitat characteristics at each stop. Periodic and final survey results were provided in excel spreadsheet format and survey design and methodology input provided to survey coordinators verbally and in writing. USFWS Coordinator – Kelli Stone; TPWD Coordinator – Brent Ortego (retired). Spring 2016 and 2017.

South Llano River State Park Avian Survey and Black-capped Vireo (BCVI) Territory Mapping – for Texas Parks and Wildlife Department in Kimble County, TX – Project manager and lead ecologist for a survey for all avian species with specific focus upon territory mapping for the Black-capped Vireo within a 182-acre portion of the park proposed for visitor center development. A total of 53 avian species were detected and twenty-six BCVI territories were mapped during this survey effort. Two Golden-cheeked Warbler territories were also identified. Conducted and approved by Texas Parks and Wildlife Department in April 2016.



Environmental Services

Owassa Road from Jackson Road to US 281 Environmental Assessment, TxDOT Pharr District, Hidalgo County, TX – Ecologist for biological investigations at a proposed road expansion site in Hidalgo County, Texas. Primary focus was identifying and assessing impacts to jurisdictional waters, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as supporting indirect and cumulative impact assessment. The EA was approved by TxDOT in May 2015 and a FONSI was issued in January 2016.

US 181 Harbor Bridge, TxDOT Corpus Christi District – Mr. Kuhl served as the Endangered Species and Wildlife Resources Task Leader on this EIS project to reconstruct US 181 and replace the Harbor Bridge in Corpus Christi. The project followed FHWA's SAFETEA-LU Section 6002 requirements and was also part of FHWA's Everyday Counts Initiative. Hicks & Company managed the preparation of the EIS document for the engineering consultant and the Corpus Christi District. Major ecological tasks included endangered species habitat assessment, coastal wetlands and tidal waters delineation, marine mammal and shorebird habitat evaluations and indirect and cumulative effects analysis. Final EIS approved by FHWA November 26, 2014 and the Record of Decision was issued by FHWA in January 2016.

Brazos Electric Power Cooperative Lacey Oak Substation and Transmission Line Environmental Report/Route Study & Certificate of Convenience and Necessity (CCN) Preparation; Denton County, Texas – Project Manager for environmental review pursuant to NEPA for the USDA RUS and preparation of an application for a CCN according to Public Utility Commission of Texas requirements for the proposed construction of a new electric substation and 3-5-mile long 138 kV transmission line, in Denton County, Texas. Mr. Kuhl led a multidisciplinary team that defined study area, conducted and prepared a routing study and environmental assessment/report, coordinated a public meeting, collected and addressed comments from the public, civic leaders and regulatory agencies, and will serve as an expert witness and provide testimony once the application is filed and a hearing date is set by the PUCT. September 2016 to present.

Brazos Electric Power Cooperative Morgan Substation Environmental Investigations; Bosque County, Texas – Project Manager USDA RUS-funded 4.88-acre new location substation. Managed cultural and environmental investigations. Services included archeological and historical resource surveys, waters of the U.S., including wetlands, evaluation and an endangered species habitat assessment. July to September 2016.

FM 150 West Corridor Plan/Nature and Character Plan, TxDOT Austin District, Hays County, TX – Project Manager and Lead Ecologist for pre-NEPA environmental studies documents supporting proposed improvements to FM 150 from Arroyo Ranch Road west of Kyle to Ranch Road 12 in Dripping Springs in rural Hays County, Texas. Project evaluates needed safety and engineering improvements in the context of environmental and cultural constraints along a very scenic Hill Country Heritage roadway. The project utilizes a panel of community members (primarily landowners along the roadway) and a technical team to determine how best to accomplish transportation while respecting and hopefully enhancing community and natural values of the area. Primary focus areas will include a full environmental constraints analysis with emphasis on regulatory guidance in the context of aesthetic and cultural resource protection. February 2014 to October 2017.

Cameron Road Environmental Resources Inventory, County of Travis, Travis County, TX – Project Manager and Lead Ecologist for a proposed road expansion in Travis County, Texas. Project focus was



Environmental Services

development and submittal of a Travis County Environmental Resource Inventory Document. Primary task areas included public involvement, identifying and assessing impacts to socioeconomics, land use, jurisdictional waters, water quality, valuable wildlife habitat and potential rare, threatened and endangered species habitat areas. Impacts to special aquatic site (wetland) under Nationwide 14 (Linear Transportation Projects) required Pre-Construction Notification to U.S. Army Corps of Engineers. March 2014 to July 2017.

Brazos Electric Power Cooperative Parvin Electrical Transmission Line and Substation; Denton County, Texas - Project Manager for environmental and cultural resource technical studies supporting the proposed USDA RUS funded 3.84-mile 138-kV transmission line Parvin Electrical Transmission Line and Substation in Denton County, Texas. Services and evaluations included archeological and historical resource surveys, a threatened and endangered species habitat assessment and determination of the occurrence of waters of the U.S., including wetlands. Results of these evaluations were included in an Environmental Constraints Report. April to November 2016.

City of Lakeway Justice Center Environmental Services; Lakeway, Travis County, Texas – Project Manager for preparation of a Phase I Environmental Site Assessment, Environmental Assessment, Golden-cheeked Warbler Survey and archeological investigations for a proposed nine acre proposed police department facility at the intersection of Lohmans Crossing Road and Lohmans Spur Road. December 2016 to December 2017.

Delta Drive USACE Section 404 Pre-Construction Notification and Compensatory Mitigation Plan, TxDOT El Paso District, El Paso County, Texas– Lead Ecologist for the development of a compensatory mitigation plan in support of a Pre-Construction Notification for impacts to waters of the U.S. resulting from the construction of the Loop 375 Border Highway West Extension Project. Activities consisted of the identification and delineation of waters of the U.S., including wetlands, on an approximately twenty-acre preservation site and the development of a compensatory mitigation plan for approximately four acres of this site. May to September 2017.

FM 150 Realignment Environmental Impact Statement Avian Surveys, Hays County and TxDOT Austin District –Lead Ecologist and Field Project Manager for a survey for all avian species with specific focus upon presence/absence surveys for the Golden-cheeked Warbler and Black-capped Vireo for the proposed FM 150 new location corridor located generally south and west of Kyle, Hays County, Texas. March 2017-present.

SAS Institute Ecological Services, Austin, TX – Annual services including Golden-cheeked Warbler (GCWA) territory mapping, Jollyville Plateau salamander (JPS) surveys and general ecological consultation are provided at the 100-acre Austin office complex and surrounding green space. A total of 45 avian species were detected and six GCWA territories mapped during the 2017 survey effort. Hicks & Company staff also assisted Travis County with JPS survey where a small number are consistently documented (2-5 individuals) in the spring fed creek and canyon. Annual March-June contract initiated in 2016.

Alliance Regional Water Authority Well Fields Environmental Constraints Analysis, Caldwell County, TX – Lead Ecologist providing environmental constraints evaluation services for an ARWA well field focused upon four well pad sites and associated infrastructure in Caldwell County. The environmental



Environmental Services

constraints evaluation included assessment of potential impacts and associated permitting requirements to Waters of the U.S. regulated by the USACE under the CWA, and T&E species regulated under the ESA. Fall 2017 to present.

City of Austin Waller Creek Tunnel Fish & Wildlife Removal, Austin, Texas – Project Manager and Lead Ecologist providing fish and wildlife removal services to the City of Austin for the Waller Creek Tunnel Dewatering and Maintenance project. Led a group of ecologists collecting and relocating fish and wildlife species from the Waller Creek tunnel outlet at Waller Beach to nearby Lady Bird Lake. Involved confined space and other safety protocol training as ecologists wearing waders, personal flotation devices, hard hats, and confined gas detection meters were lowered in a personnel basket 70 feet by crane into the tunnel outlet where aquatic species were seined, removed by hand and dip net and placed in water-filled containers for transport out of the tunnel outlet and released into Lady Bird Lake. With Johnson Lake Management and National Power Rodding Corp. March to April 2017.

Wheless Tract Phase I Environmental Site Assessment; Austin, Texas - Project manager for Travis County due diligence evaluations supporting the purchase of a 2,322-acre undeveloped Balcones Canyonlands Preserve tract from the Lower Colorado River Authority. The Wheless Tract is located on the north shore of Lake Travis between the Cypress Creek and Sandy Creek arms, due north of the community of Volente. A Phase I Environmental Site Assessment (ESA) was conducted to evaluate environmental conditions and assess the potential liability for contamination in accordance with the ASTM E1527-13 standard. March – June 2017

Trace Development Due Diligence Evaluations, Design and Construction Support, Highpointe Communities, Inc., Hays County, TX – Project Manager and Lead Ecologist for a variety of due diligence and design support investigations at a proposed 420-acre mixed use development site between San Marcos and New Braunfels, Hays County, Texas. Prior to acquisition, the primary focus areas were identifying and assessing jurisdictional waters (including delineating wetlands), valuable wildlife habitat and potential rare, threatened and endangered species habitat areas as well as background cultural resources investigations and Phase I Environmental Site Assessment. This initial environmental compliance documentation supported the development through City of San Marcos entitlement processes resulting in conceptual plat approval and creation of a Planned Unit Development. Design/Construction Phase environmental services include: 1) USACE permitting consultation and jurisdictional determination preparation documenting Nationwide Permit compliance with the U.S. Army Corps of Engineers; 2) providing design and consultation support as necessary for ecological restoration in green spaces and buffers; 3) preparation and implementation of a wildlife management plan in support of the Hays Central Appraisal District 1-D-1 Open Space Process for Wildlife Exemption; and, 4) preparing a TxDOT Categorical Exclusion (CE) documenting minimal impacts associated with a deceleration lane and driveway from Interstate Highway 35 to access the proposed development. November 2012 to present.

U.S. Fish and Wildlife Service Texas Coastal National Wildlife Refuge Cultural Resource Overview; Jefferson, Chambers, Brazoria, Matagorda, Aransas, Calhoun, Willacy, Cameron, Hidalgo and Starr Counties, Texas – Co-author and editor of a summary of prehistory and history of 12 National Wildlife Refuges on the Texas coast: Texas Point, McFadden, Anahuac, Moody, Brazoria, San Bernard, Big Boggy, Aransas, Matagorda, Laguna Atascosa, Santa Ana and Lower Rio Grande Valley. Mr. Kuhl co-



Environmental Services

authored the environmental summary of the refuges, authored the Executive Summary and provided overall editorial and QA/QC services throughout the document. March 2016 to February 2018.

E.On Breunning Breeze Post Construction Mortality Monitoring (Bats and Birds); Willacy County, Texas. Conducted monitoring and data gathering on 35 wind turbine sites which included carcass search and identification with a companion canine (my personal dog). October 2018 and January 2019.

Magic Valley III/Raymond Wind Power Project; Willacy County, Texas. Conducting Pre-Construction General Avian Surveys. Fall 2018 to Summer 2019.

Lincoln Clean Power Helena Wind Project; Bee County, Texas. Conducting Pre-Construction General Avian and Eagle Point Count Surveys. November 2018.

E.On. Peyton Creek Proposed Wind Power Project; Matagorda County, Texas. Conducting listed avian species surveys with a focus upon Bald Eagle, Red Knot, Whooping Crane and Piping Plover. Project also included Bald Eagle nest monitoring. November 2018 to July 2019.

Baird North Wind Project; Callahan and Shackelford Counties, Texas. Conducting Pre-Construction General Avian and Eagle Point Count Surveys. December 2018.

Line W Loop Extension from Bowie to New York Station, Clay and Montague Counties, Texas. Conducted a two-phase study to evaluate potential environmental constraints for a proposed 21.5-mile, 20-inch natural gas pipeline to be constructed within a 75-foot right of way (ROW) near Bowie, Texas. Focus of the first phase evaluation was to identify resources with regulatory compliance importance including Waters of the U.S. (WOTUS) (including wetlands), Listed Species and Cultural Resources. Second phase consisted of a WOTUS delineation and listed species habitat assessment. Conducted for Atmos Energy as a subcontractor to Balcones Field Services, LLC. January to March 2019.

Schoolhouse Solar Project; Lee County, Texas. Conducted vegetation and land use analysis and drafted the endangered Houston toad habitat assessment section of the Critical Issues Analysis report for a proposed utility level solar project on a 2,800-acre site. February 2019.

Texas Central Rail Project; Grimes and Leon Counties, Texas. Lead presence-absence field surveys for the endangered Houston toad. Spring 2019.

Birds, Bats, Music & Wildflowers Tour, Central Texas. Lead all around ecological “Reader’s Roundup” tour for Bird Watcher’s Digest. Subcontractor to Field Guides, Inc. Spring 2019.

Grand Prix Pipeline Project; Leon County, Texas. Conducted presence-absence surveys for the endangered Houston toad and provided construction monitoring support in pipeline right of way. Subcontractor to Bio-West, Inc. Spring-Summer 2019-2020.



Environmental Services

Eagle Pass Mine Permit Extension Wildlife Surveys, Maverick County, Texas. Conducted baseline wildlife surveys for amphibian, reptile, avian and mammal species on a proposed permit expansion area for Dos Republicas Mining Company and North American Coal. Subcontractor to Blackland Environmental, LLC. Winter, Spring and Fall 2019.

MISAE Solar Protected Resources Survey; Childress County, Texas. Conducted a protected resources survey with a focus upon listed wildlife species and waters of the U.S. (streams) potentially U.S. Army Corps of Engineers jurisdictional under Section 404 of the Clean Water Act. Project area consisted of a 23-acre polygon and 250-foot wide/2.6-mile-long linear transmission line easement near Childress, Texas. Subcontractor to ESE Partners, LLC. July 2019.

Crane Solar Park Project; Crane County, Texas. Conducted protected and listed species survey on a 1,300-acre proposed utility level solar project near McCamey, Texas. Primary focus was upon nesting avian species protected by the Migratory Bird Treaty Act and the State-Listed Texas horned lizard. Project was conducted for Mortenson Construction as a subcontractor to ESE Partners, LLC. August 2019.

San Miguel Mine Permit Expansion Wildlife Surveys, McMullen County, Texas. Primarily responsible for quantitative avian surveys but also assisted with baseline wildlife surveys for amphibian, reptile, avian and mammal species on a 13,000-acre proposed permit expansion area near Tilden, Texas. Project was conducted for San Miguel Electric Cooperative, Inc. Subcontractor to Blackland Environmental, LLC. Fall 2019.

Oncor Jewett to Crockett Transmission Line Rebuild Project: Leon County, Texas. Conducted on site construction coordination and monitoring to avoid impacts to the endangered Houston toad and other wildlife on a 7-mile portion of a 164kV electric transmission line rebuild project. Served as coordinating liaison for Oncor between SWPPP/construction inspectors, construction contractor and matting contractor and performed right of way inspection in advance of all earth, equipment, and material movements. Subcontractor to Bio-West, Inc. June 2020.

