



MEDINA CONSULTING COMPANY, INC.

CAPABILITY STATEMENT

Prepared by:

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MCC Capabilities

Medina Consulting Company, Inc. (MCC) is pleased to present our capabilities to assist in the response to the recent hurricanes. MCC previously provided environmental responders in 2008 to Hurricane Ike under a contract with Weston Solutions, who was contracted to EPA.

MCC was incorporated in August of 2002 and has been in business for more than 15 years at 6391 De Zavala Road in San Antonio, Texas 78249. MCC has six full time employees and three part-time employees that work on an as needed basis. Resumes of key personnel are attached. Mr. Douglas McGookey, a licensed Professional Geologist and Corrective Action Project Manager, will be the Senior Environmental Project Manager. He has over 30 years of environmental and geologic professional experience. He will take the lead in managing CERCLA related projects including Phase I, II, and III Environmental Site Assessments (ESAs), Brownfield Assessments, and LPST Assessments. Ms. Palani Whiting, a biologist permitted by the USFWS and TPWD, has over 12 years of professional environmental experience providing NEPA documentation, and will manage NEPA related projects. Other project managers and support staff include Mr. Terry Dudley, REM, Ms. Joan Falkenberg, P.G., Ms. Hope Hernandez, and Mr. Kerry McEntire. MCC commonly subcontracts with selected suppliers to provide additional services or support for large projects. MCC and our subcontractors have the necessary personnel, experience, and capabilities to respond to any request for environmental services anticipated. All employees selected to mobilize for environmental services have 40-hour HAZWOPER training

The table below lists services provided by MCC.

Contamination Assessment

- Phase I Environmental Site Assessments (ESA)
- Phase II & III ESAs
- Construction Oversight
- Asbestos Surveys
- Mold Assessments
- PCB Testing Reports
- Lead-Based Paint Surveys
- Geologic Assessments (GA)

NEPA Services

- National Environmental Policy Act (NEPA)
- Environmental Assessments (EA)
- Categorical Exclusions (CE)
- National Historic Preservation Act (SHPO) Reviews
- Biological Assessments
- Tree Surveys
- Waters of the US and Wetland Delineations
- Endangered Species Habitat Surveys
- Threatened & Endangered Species – Presence/Absence Surveys
- Archeological Project Management

Clients

A partial list of clients that MCC has worked with includes:

- AT&T Mobility
- AT&T Wi Fi
- Bain Medina Bain
- Chubb Insurance Group
- City of San Antonio CIMS
Environmental Services Department
- City of San Antonio Parks and
Recreation Department
- Clear Channel Outdoors
- Cooper Land Development
- Daugherty Sprague Environmental
- Earth Tech/AECOM
- Golden Wok
- GMAC
- Green Spaces Alliance of South Texas
(Formally Bexar Land Trust)
- HNTB
- J. M. Waller
- Kimley Horn
- Sprint/Nextel
- HEB Grocery, Environmental Affairs
- ITEX Property Management
- Los Alamos Technical Associates
(LATA)
- Merrick
- MWH Global
- Pape Dawson Engineers
- Parsons Corporation
- Prudential Alamo Realty, Commercial
Division
- San Antonio Water System (SAWS)
- T-Mobile USA
- Total Cellular
- TxDOT
- TCEQ
- Travelers Casualty Property
- University of Texas System
- URS
- Wardlaw Claims Service
- WT-Communications

Sample Projects

The following highlights some of our accomplishments. The name of the project is provided with the client in parenthesis.

Skyplace Landfill Remediation Oversight (City of San Antonio Environmental Services Department {COSA ESD}) The San Antonio International Airport is expanding to meet current and future needs for lease space for commercial and industrial facilities. In the process of assessing available property on the north side of the airport it was determined a 9-acre area was underlain by construction and demolition debris (CDW) and municipal solid waste (MSW). Medina was contracted to provide



Skyplace Remediation Oversight

remedial construction oversight for the removal of waste and soil mixed with waste. The material is being removed to its vertically observed extent throughout the project area. Services provided by Medina include waste profiling, providing on-site environmental professionals to observe and document construction activities, manifesting of waste moved off site, air monitoring, ensuring clean soil used to backfill the excavation, and confirmation sampling and reporting.

Tower Location Due Diligence (T-Mobile USA) Medina has worked for T-Mobile USA continuously for over five years. Medina is the primary environmental services provider for T-



Tower under construction

Mobile's Austin, Dallas, and Corpus Christi regions. Our service packages for these regions include a Phase I ESA, Geotechnical Engineering Investigation, Resistivity Testing, and a National Environmental Policy Act (NEPA) Review, and we have provided over 500 such projects in the last two years. We also perform the same service package for Sprint Together With Nextel via our contract with Parsons (the turnkey provider). For over two years Parsons has contracted with Medina exclusively for the San Antonio and Austin markets. We have also provided environmental consulting for

AT&T and the former Cingular Wireless. When NEPA concerns arise for the various proposed cellular tower sites we often perform Archeological Surveys, Habitat Evaluations, Endangered Species Surveys, Biological Assessments (BA) and Environmental Assessments (EA) for federal review. These projects are primarily lump sum projects and therefore do not have a flexible budget. We are required to stay within the projected lump sum budget.

During the NEPA process for a proposed self-support cellular tower site potential habitat for the federally endangered Tobusch Fishhook Cactus, the Black-capped Vireo, and the Golden-cheeked Warbler was identified. As a result of these findings, a Presence/Absence Field Survey for the Tobusch Fishhook Cactus, Black-capped Vireo, and the Golden-cheeked Warbler (GCW) was conducted by Medina. During the Survey the GCW was observed on and adjacent to the site, which subsequently led to the completion of a Biological Assessment (BA) for the GCW for the site. Medina conducted the BA and determined that the proposed project "may affect, is likely to adversely affect" the Golden-cheeked Warbler. However, it was our opinion that the project was unlikely to result in jeopardy to the GCW population as a whole and was unlikely to adversely affect more than a few birds foraging in the area. Our findings were reviewed by the US Fish and Wildlife

Service. Based on the findings of the BA, an Environmental Assessment (EA), (pursuant to Federal Communications Commission (FCC) regulations in 47 CFR Part 1) was completed by Medina. To complete the EA, several environmental criteria outlined in 47 CFR Section 1.1307 were examined to identify the potential for significant environmental impact. Our findings were reviewed by the Federal Communications Commission (FCC). The FCC issued a Finding of No Significant Impact (FONSI) and the project was granted approval.



Habitat Evaluation

Over the course of the past five years, the service packages provided to our various cellular tower clients has provided Medina with the opportunity gain experience with a variety of regional issues that are specific to San Antonio and Bexar County. Medina has conducted many NEPA Reviews for proposed cellular tower sites where we evaluated vegetation and karst features to determine if the property contained Federally listed threatened or endangered species for the County. For one particular site, it was determined that a cave was located adjacent to the Site that may have contained federally endangered karst invertebrates. A karst survey was conducted and submitted to the US Fish and Wildlife for review. A Section 106 Review was also conducted and the results submitted to the State Historical Commission for approval. Additionally, we also reviewed the Texas Parks and Wildlife Department, the United States Forest Service, Texas Biological and Conservation Data System (TBCDS), the United States Bureau of Land Management, the United States Fish and Wildlife Service, and the United States National Park Service databases and or websites. Wetlands, Floodplains, and Sole Source Aquifer concerns were also addressed. According to the EPA Region VI, Sole Source Aquifer Office, in Dallas, Texas, the site was not located over a sole source aquifer. The project did not exceed the proposed lump sum cost and was completed in a timely manner.

HUD Environment Review Clearance Process: Since 2005, MCC has completed multiple Environmental Review Process packages for several apartment and single-family projects in the southeast Texas area. The projects were seeking funds under either the Texas Department of Housing and Community Affairs (TDHCA) Disaster Recovery Program, Tax Credit Assistance Program (TCAP), Neighborhood Stabilization Program (NSP), U.S. Department of Housing and Urban Development HOME Investment Funds, or a Section 221(d)(4) Loan. The regulations require that the environmental review be conducted using the guidance provided by the agencies. The TDHCA review process includes the completion of a Phase I ESA, with inquires into the status of asbestos containing material (ACMs), Lead Based Paint, and lead in drinking water, and a

recommendation for a noise survey where applicable. When the client has applied for the HUD HOME Investment Program, the Environmental Review process in relation to the policies of the National Environmental Policy Act (NEPA) must be completed. The purpose of the environmental assessment is to evaluate the subject property for adverse environmental impacts and indicate when mitigation actions may be available to minimize environmental harm. MCC has developed a working relationship with the Regional HUD Environmental Officer and the TDHCA Environmental reviewers to identify and mitigate any unforeseen concerns or delay of the approval process.

Eagleland (COSA ESD) Between November and December of 2005, Medina performed a Phase II Environmental Site Assessment (ESA) for selected areas in the vicinity of the proposed Eagleland Hike and Bike Trail between Eagleland Drive and South Alamo Street in San Antonio, Texas. The purpose was to assess subsurface soils for potential impacts associated with past operations at the Big Tex Grain facility and the Blue Star Complex. We were able to delineate three Areas of Concern (AOC) within the alignment of the hike and bike trail and the additional retaining walls and drainage



Eagleland Hike and Bike Trail

upgrades based on previous subsurface investigations. Our approach consisted of borings advanced using a Geoprobe unit and hand auger along the proposed trail, drainage outfalls, and retaining walls, and the collection of soil samples to complete the assessment of environmental impacts caused by selected chemicals of concern in soils and, if present, groundwater that would be encountered during the project excavation. Based on the laboratory analytical results, three soil samples located near the Big Tex facility exceeded the TCEQ requirements for worker safety of dieldrin and lead. Medina concluded that workers potentially exposed to these soils be provided with safety training and equipment to avoid adverse health impacts from contact with the soils. Additionally, we recommended that a waste management plan be implemented for the excavated soils during construction operations for transport and disposal procedures.

Commerce Street (COSA ESD) In March and April of 2006, Medina performed a Phase II Environmental Site Assessment for selected areas along East Commerce Street in San Antonio, Texas. The purpose of our services was to identify previously identified adverse environmental impacts to soil or groundwater from underground storage tanks (USTs) for the installation of waterline utilities for the San Antonio Water System (SAWS). Additionally, the subsurface investigation

included an underground conversion which included both underground storage tanks and cemeteries that may adversely affect the environmental quality of soil to be encountered during excavations for the East Commerce Street Railroad Tracks to Palmetto Avenue Project. Twenty-three borings were advanced using a geoprobe unit to collect samples to complete a subsurface assessment of environmental impacts caused by hydrocarbon impacts from USTs as well as arsenic, mercury, and formaldehyde impacts from cemeteries. None of the soil samples collected from the borings exceeded the Texas Commission on Environmental Quality (TCEQ) Protective Concentration Levels (PCLs) for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), arsenic, mercury, or formaldehyde. Additionally, none of the samples contained concentrations of contaminants of concern that exceed levels for disposal at a Class II landfill.



Commerce Street Phase II ESA

Culebra Drainage Ditch (COSA ESD) Between November of 2006 and January of 2007, Medina provided oversight and construction observations for the plugging and abandonment of a shallow water well, removal of a buried natural gas tank, removal and manifesting of existing soil stockpiles and construction and demolition debris, confirmation sampling in areas of concern, and air monitoring within the boundaries of construction for the Culebra #58F Drainage Project, Phase II for the City of San Antonio Environmental Services Division. The purpose of the construction project was to construct drainage improvements along Zarzamora Creek south of Culebra Road.

Prior Phase I and Phase II Environmental Site Assessments (ESAs) determined the presence of Construction and Demolition Waste (CDW) and Municipal Solid Waste (MSW) within the project boundaries. The initial scope of work included air monitoring within the project boundaries, the removal of 12,380 cubic yards of soil, construction and demolition debris, and MSW, and the collection of confirmatory soil samples. However, during construction activities, a 250-gallon propane underground storage tank (UST) and a shallow water well were discovered. Since the Texas Commission on Environmental Quality does not regulate tanks or USTs that contain substances that are not a liquid at standard temperature and pressure, the UST was removed and clean backfill was imported to fill the tankhold. After investigation of the shallow water well, the Edwards Aquifer Authority authorized plugging of the well as a shallow groundwater aquifer well and issued a permit for the plugging of the well. Medina contracted with Haskins One-Pump, Ltd. to remove the water well. The COSA resumed construction activities and Medina remains on-call

to investigate any additional undiscovered concerns.

Skyplace (COSA ESD) Skyplace Phase I and Phase II ESAs, 2006: This project consisted of a 25-acre property at the San Antonio Airport south of Skyplace Boulevard between the Sino Swearingen Aircraft, Inc. and Cessna Aircraft Company. The COSA requested a Phase I for the due diligence prior to leasing the property. An adjoining property was listed as a closed Leaking Petroleum Storage Tank (LPST) facility, and both the Sino Swearingen and Cessna facilities contain aircraft fueling stations that pose an environmental concern. During the Phase I, only minor environmental concerns were identified and a Phase II ESA was



Geoprobe Sample Collection at the San Antonio International Airport

recommended. The Phase II ESA consisted of the collection of soil samples to determine if widespread disposal of hazardous materials formerly took place in that area of the airport, the collection of soil from stockpiles, the advancement of five borings to a depth of 15 feet, and one boring to groundwater to determine if landfill materials, which were previously recorded in that area, or hydrocarbon or hazardous materials were present. Medina obtained San Antonio Airport security badges and driving permits for the completion of the project. Based on the analytical results of the soil and groundwater samples collected, no further assessment was recommended with the exception of the plugging of a groundwater monitoring well and the maintenance of an oil water separator located on the property. The Phase I ESA report was submitted within 60 days of the proposal and was completed on budget.

Tesoro Lease (COSA ESD) In April of 2007 Medina performed a Phase II Environmental Site Assessment (ESA) for the 1.07-acre area designated as Tesoro Lease Areas B and C at the San Antonio International Airport located northeast of the intersection of John Saunders Road and South Terminal Drive. A prior Phase I ESA report concluded that there is a potential for past releases from a former underground storage tank (UST) system on the site, industrial activities on the site, and from properties and facilities surrounding the site that presented a potential environmental concern to the site. The purpose of the surface and subsurface investigation was to determine if contaminated soil, contaminated groundwater, contaminated fill material, or landfill materials are present. Soil samples were collected from fourteen subsurface borings completed using a geoprobe, ten surface soil samples were collected using a hand trowel, and groundwater samples were collected from two temporary monitoring wells installed in two of the borings. Based on the laboratory analytical

results, Medina determined that no chemical of concern (COCs) are present in the soil or groundwater that present an environmental concern. No additional assessment was recommended.

Mission Trails (COSA ESD) In April of 2007 Medina performed a Phase II Environmental Site Assessment (ESA) for the San Antonio Mission Trails Package IV project. The purpose of our services was to identify adverse environmental impacts to the hike and bike trail/path and lanes, storm sewer and associated drainage improvements, right of way (ROW) acquisitions, retaining walls, rip rap, and reconstruction of Mission Road between Roosevelt and Mitchell Streets. Twenty-seven soil borings were completed to depths between 3 and 14 feet in five Areas of Concern (AOCs). The purpose was to assess subsurface soils for potential impacts associated with past operations at a City Public Service service center and maintenance facility with an underground storage tank (UST), a former refinery, a power plant, and two commercial properties with USTs. Based on the laboratory analytical results, all soils tested qualify as Class II non-hazardous wastes except for one soil sample, which would be classified as a Class I non-hazardous waste. Medina concluded that a site specific health and safety plan should be implemented in two of the five areas of concern to protect worker safety. Additionally, we recommended that soil stockpiles generated during construction should be sampled periodically to ensure soils generated during construction are properly handled and manifested.

Master Plan for Proposition 3 Parklands in San Antonio (COSA Parks and Recreation Department): MCC provided geological guidelines for protection of the Edwards Aquifer for the Master Plan for Proposition 3 Parklands provided to the City of San Antonio Parks and Recreation Department. Proposition 3 Parks were acquired by the City of San Antonio through a referendum in an effort to provide recreational areas for the residents of the City as well as protection for the Edwards Aquifer.

Medio Creek and O'Connor Road – Phase I, RAP, APAR (SAWS): MCC performed a Phase I Environmental Site Assessment (ESA) for an area of the Medio Creek Water Recycling Center and and O'Connor Road Staging Area that contained large soil piles found to contain small amounts of asbestos containing cement pipe (transite pipe). Medio Creek is located on an approximate 12.0-acre tract of land and O' Connor Road is located on an approximate 16.949-acre tract of land, both in Bexar County, Texas. MCC prepared a Response Action Plan (RAP) for the Texas Commission on Environmental Quality (TCEQ) and an Affected Property Assessment Program (APAR) for both locations.

HEB Lone Oak Hanger (HEB Environmental): MCC conducted a SPCC Plan for H-E-B on a private hanger and fuel facility located at the San Antonio International Airport to meet the requirements of the Oil Pollution Act of 1990 and other applicable regulations. The facility houses two 12,000-gallon above-ground storage tanks (ASTs) to provide aviation fuel to aircrafts. The plan was presented in a user-friendly format to allow for the responsible party to review and follow

actionable items. The plan was reviewed and approved by a Professional Engineer and signed with their professional seal.

Spill Prevention and Response Plan, UTSA Main Campus (UT Systems): Managed the completion of an Edwards Aquifer SPRP for the UTSA campus. The work was performed under MCC's 5-year contract with the University of Texas System. The services required visiting each of laboratories and physical plants on the campus to verify an inventory of hazardous materials. The plan was reviewed, modified, and accepted by EAA staff.

Orange Navy II (ITEX Property Management): MCC completed a Phase I ESA and Environmental Review both in conformance with the ASTM standards, as well as the Texas Department of Housing and Community Affairs (TDHCA) and HUD requirements. The client was requesting funds under the Community Development Block Grant (CDBG) Disaster Recovery Program for Hurricane Ike. The project was located in Orange, Texas, and included the rehabilitation of a 25-unit apartment complex and off-site new construction of eleven single family homes on scattered sites. The project required an Environmental Assessment level of review which includes compliance determinations in regards to historic preservation, floodplains, wetlands, coastal zone management, airport clear zones, endangered species, clean air, noise, and a long list of other related factors. Since the properties were located within the Orange Navy Nationally Designated Historic District, MCC coordinated a Memorandum of Agreement (MOA) between the Texas State Historical Preservation Officer (SHPO), the city, and the developer in order to allow for the construction. The properties were also located within the 100-year floodplain, so MCC completed the required 8-step process to determine alternatives and mitigation requirements to allow for the construction. Both HUD and the TDHCA concurred with our findings and provided Authority to Release Funds documentation to allow for the project to proceed.

Resumes

Douglas McGookey, PG Vice President|Senior Project Manager| Principal Geologist|14 Years with Medina

Education

B.A. Geology	University of Texas at Austin 1977
M.A. Geology	University of Texas at Austin 1985

Affiliations and Certifications

Professional Geologist License No. 368 by the Texas Board of Professional Geoscientists
Texas Commission on Environmental Quality LPST Project Manger (CAPM) No. PM 0000171
Region L Water Planning Group, Member Term Starting 2013
Air and Waste Management Association (AWMA), Alamo Chapter Chairman 2003
Society of Independent Earth Scientists (SIPES) Secretary 2015
Society of American Military Engineers (SAME) Committee Chairman and Executive Committee Board Member 1995-2005
SAME Leadership Development Course Advisory Committee 2010-2015
Helotes Little League Coach 2008-2013
President, Alamo Hills Homeowners and Renters Association 2009

Professional Experience

Mr. McGookey is Vice-President and Principal Geologist for MCC. As Chief Operations Officer, he is responsible for project management, marketing, and profit and loss for the company. In 10 years the firm has grown to ten professionals and has provided services to the City of San Antonio, HEB, SAWS, the TCEQ, TxDOT, several cellular tower corporations, and numerous engineering, architectural, and developer companies.

Prior to joining MCC, Mr. McGookey was the environmental division manager at Drash Consulting Engineers. He was responsible for all environmental division operations and for profit and loss of the division. During the two years he worked at Drash, the environmental department more than doubled in revenue and staff and the client base was greatly increased. Mr. McGookey concentrated on training of staff and ensuring that projects were completed accurately and on budget. Clients were very satisfied with the division's work and most of the work was repeat business.

Prior to Drash, Mr. McGookey was the manager of the San Antonio Satellite Office of Law Engineering for eight years. In this capacity he was involved in a full scope of environmental consulting including extensive involvement in soil and ground-water contamination assessments, feasibility studies, and remedial action. This included involvement in environmental assessments of commercial and light industrial real estate relative to soil and groundwater contamination, underground storage tanks, and other sources of environmental concern or potential environmental concern. Many of these projects required the direction and coordination of geographically dispersed regulatory personnel, employees, and various subcontractors.

Before joining Law Engineering, Mr. McGookey worked seven years at the Bureau of Economic Geology at the University of Texas at Austin as an Associate Research Scientist on the Department of Energy project to determine the feasibility of storing high-level nuclear waste in salt beds in the Texas Panhandle. After leaving the Bureau, Mr. McGookey worked as an independent geologist performing geologic oil well logging services and generating drilling prospects. At the Bureau of Economic Geology and as an independent geologist Mr. McGookey obtained extensive experience in the use of geologic methods including generation and interpretation of well logs, geologic maps, and cross sections to determine surface and subsurface compositions, relationships, and groundwater flow. Duties included using electric logs to identify salt dissolution zones, determining the stratigraphy and occurrence of playa lakes of the Southern High Plains, and assisting in environmental monitoring of a geothermal test well. Numerous abstracts and articles were published in professional and University publications regarding this work.

Mr. McGookey worked for Western Geophysical as a Geophysical Technician from January 1978 to May 1978. His duties were to perform geophysical data processing.

Mr. McGookey completed two years of military service with the U.S. Army Air Defense Command (ARADCOM). He was a Specialist 4th Class in the Military Police working as a sentry dog handler on an air defense missile site (NIKE) at the time of his discharge.

Selected Project Experience

Provided geohydrologic consulting and prepared a *Preliminary Water Availability Assessment* for a proposed 1,454-acres residential development west of San Antonio to recommend location of water wells and depths of completion for an on-site water system. Also logged water wells and provided regular updates on progress.

Provided review of Geologic Features for a document titled *Land Use and Management Plan for Proposition 3 (Edwards) Properties* that provides a master plan for development of natural areas on properties acquired by the City of San Antonio as part of the Proposition 3 initiative.

Managed completion of several hundred Transaction Screen Site Assessments (ESAs), Phase I ESAs, and NEPA reviews for cellular tower sites in Texas and across the country. The assessments were performed for a number of cellular service providers and tower builders.

Managed completion of an Underground Storage Tank removal at Kelly AFB. Environmental Closure of the site was conducted under the Texas Risk Reduction Program (TRRP).

Managed project to complete environmental site assessments of several miles of right of way for a proposed high voltage electrical transmission line in Corpus Christi. Much of the assessment was performed in refinery properties that were impacted with high concentrations of volatile organic compounds (VOCs) so that personal protective equipment was required.

Managed completion of Water Pollution Abatement Plans (WPAPs) Aboveground Storage Tank Management Plans, and Geologic Assessments for properties that lie over the Recharge and Transition Zones of the Edwards Aquifer.

Performed Underground Storage Tank removals and assessments on over a hundred retail gasoline stations for clients including Stop and Go, 7-Eleven, Chevron, Central Freight Lines, Ryder Truck Rental, and others. Also conducted hundreds of environmental site assessments of gasoline station properties.

Conducted environmental site assessments for the Texas Department of Transportation (TxDOT) over hundreds of square feet of highway right of way. Determined the source of contamination within the right of way and the direction and extent of contaminants. The assessment and recommendations were accepted by the TCEQ in a timely manner and construction was not delayed.

Conducted assessment of environmental impacts resulting from a fire at Columbia Industries, the world's largest bowling ball manufacturer. The fire was the largest in San Antonio history. Volatile Organics used in the factory were washed by water used in fighting the fire into a nearby creek. Surface water samples were collected along the creek to determine the concentration and extent of impacts.

Completed Stormwater Pollution Prevention Plans (SWPPP) for industries including Columbia Industries.

Completed environmental assessments and inspections for dozens of sites at Lackland AFB. The assessments were conducted as part of a project to remove all underground gasoline storage tanks on the base and replace them with new underground storage tanks that were placed in below ground vaults. The services were provided for the Ft. Worth office of the Corps of Engineers.

Publications

Atlases, Maps, Cross Sections

McGookey, D.A., Gustavson, T.C., and Hoadley, A.D., 1988, *Regional Structure Sections of Mid-Permian to Quaternary strata of the Texas Panhandle: distribution of evaporites and zones of evaporite dissolution and collapse*: The University of Texas at Austin, Bureau of Economic Geology Cross Sections (Available for purchase from Bureau of Economic Geology at: <http://begstore.beg.utexas.edu/store/20-cross-sections-and-maps>).

Articles

McGookey, D.A., 1981, *Application of Glorieta-Flowerpot facies analyses to map and distinguish between salt dissolution and facies transitions, western Amarillo Uplift and adjacent areas*, p. 156-165, in Gustavson and others, *Geology and geohydrology of the Palo Duro Basin, Texas Panhandle, a report on the progress of nuclear waste isolation feasibility studies* (1981): The University of Texas at Austin, Bureau of Economic Geology Geological Circular 81-3 (Available for purchase from Bureau of Economic Geology at: <http://begstore.beg.utexas.edu/store/geologic-circulars>).

McGookey, D.A., and Goldstein, A., 1982, *Structural influence on deposition and deformation at the northwest margin of the Palo Duro Basin*, p. 28-37, in Gustavson and others, *Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle, a report on the progress of nuclear waste isolation feasibility studies* (1981): The University of Texas at Austin, Bureau of Economic Geology Geological Circular 82-4 (Available for purchase from Bureau of Economic Geology at: <http://begstore.beg.utexas.edu/store/geologic-circulars>).

McGookey, D.A., and Budnick, R.T., 1983, *History of faulting in the Palo Duro Basin*, p. 6-13, in Gustavson and others, *Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle, a report on the progress of nuclear waste isolation feasibility studies* (1982): The University of Texas at Austin, Bureau of Economic Geology Geological Circular 83-4 (Available for purchase from Bureau of Economic Geology at: <http://begstore.beg.utexas.edu/store/geologic-circulars>).

Caran, S.C., and McGookey, D.A., 1983, *Quaternary paleoclimatology of the Texas High Plains--preliminary summary*, p. 142-146, in Gustavson and others, *Geology and Geohydrology of the Palo Duro Basin, Texas Panhandle, a report on the progress of nuclear waste isolation feasibility studies* (1982): The University of Texas at Austin, Bureau of Economic Geology Geological Circular 83-4

(Available for purchase from Bureau of Economic Geology at:
<http://begstore.beg.utexas.edu/store/geologic-circulars>).

Abstracts

McGookey, D.A., 1984, *Cenozoic Epeirogenic uplift of the Palo Duro Basin, Texas, and its influence on structure, salt dissolution, and topography*, (abs.): American Association of Petroleum Geologists, v. 68, no. 4, p. 505.

McGookey, D.A., Hovorka, S.D., and Kolker, A., 1984, *Depositional environments and source areas of Middle and Late Permian terrigenous clastic rocks, Palo Duro Basin, Texas* (abs.) Geological Society of America, Abstracts with Programs, v. 16, no. 2, p. 108.

Palani K. Whiting

Senior Project Manager | Senior Biologist | 2+ Years with Medina

RESUME HIGHLIGHTS

- **Project Management**
- **Jurisdictional Waters and wetland surveys and delineations**
- **Obtained TPWD and USFWS permits to conduct GCWA presence/absence surveys and habitat determinations**
- **CEs and ERRs**

Education
BA, Animal Conservation (1993) University of Hawaii, Manoa
MS, Environmental Science (2003) Minnesota State University, Mankato

Training
Master Naturalist (2007)
38-hour USACE Wetland Delineation Training Program (2006)

Ms. Whiting is an Environmental and Geographic Information System (GIS) specialist. She has over 15 years of experience with environmental science studies and natural resources management. Her responsibilities include project management, endangered species compliance, habitat evaluations and surveys for endangered and threatened species, wetland and jurisdictional waters determinations/delineations and 404 permitting, tree surveys for compliance with city tree ordinances, data analysis, report preparation, and regulatory compliance. She has monitored cave preserves in accordance with karst management and maintenance plans as well as endangered bird conservation areas. Her background also consists of collecting and managing spatial data related to the physical and cultural features of the landscape. Ms. Whiting has over ten years of professional and academic experience in the fields of GIS and mapping.

RELEVANT EXPERIENCE

City of Orange and West Orange, Orange Housing Authority (OHA): Orange County, TX: Ms. Whiting performed the fieldwork and report prep for the Environmental Review Record for a Categorical Exclusion for seven properties, as well as an Environmental Assessment for one of the parcels. Two years of annual reports for OHA to submit to HUD were completed.

City of San Antonio GMA projects: Bexar County, TX: Ms. Whiting has acted as the Project Manager as well as performed fieldwork and report preparation for numerous Tier I and II Environmental Reviews, Categorical Exclusions, and Environmental Review Records.

City of Kirby: Bexar County, TX: Ms. Whiting performed fieldwork and report preparation for the City of Kirby Hike and Bike Trail. MS. Whiting completed the Biological Evaluation for a Categorical Exclusion (CE) as well as all the EMST calculations and Scope Development Tool. Ms. Whiting met with TxDOT and city personnel to coordinate completion of all necessary documents for submittal to TxDOT.

Jurisdictional Waters determinations and 404 permitting: Ms. Whiting has performed fieldwork and report preparation for numerous projects in Bexar, Jefferson, Kendall, Kenedy, Orange, and Webb Counties, Texas. She has coordinated with the USACE in the Ft. Worth and Galveston Districts for compliance issues and NWP permitting.

Golden-cheeked warbler surveys: Ms. Whiting has performed numerous GCWA habitat evaluations as well as presence/absence surveys in Bexar, Comal, Palo Pinto, and Williams Counties, Texas.

Joan Falkenberg, PG **Senior Project Manager |Senior Geologist**

RESUME HIGHLIGHTS

Phase I ESA & Phase II ESA

- **Environmental Oversight**
- **Geologic Assessments**
- **WPAP CZP MDP SCS**
- **Plats Category Determinations**
- **Project Management**
- **Contract Management**

Education

BS, Geology (1977)

MS, Environmental Management (1988) University of Texas San Antonio

Licenses and Certifications

Professional Geoscientist, Texas, #5671 (2003)
OSHA 40-Hour HAZWOPER, 40CFR1910.120 Training

Professional Affiliations

South Texas Geological Society
San Antonio Geophysical Society
Air & Waste Management Association

Ms. Falkenberg has worked in the utility, municipal and consulting environment prior to joining MCC in 2017. She has more than 25 years of environmental project management experience. She also has experience in developing, implementing and auditing environmental programs in land use development, water, wastewater, storm water, solid and hazardous waste programs, conservation, reuse and recycling, oil, gas and uranium projects for compliance and sustainability.

RELEVANT EXPERIENCE

COSA Department of Environmental Management; Environmental Protection Officer I, and Department of Water Resources Environmental Protection Officer II: Ms. Falkenberg worked in conjunction with the San Antonio Metropolitan Health Department on citizen complaint resolution concerning odor, noise, illegal dumping and vector issues. She prepared reports and performed site inspections. As an intricate part of the Landfill Compliance team, she monitored methane and leachate levels in monitoring wells at all open and closed landfill sites, methane readings at adjacent properties, and compiled compliance reports for the Texas Department of Health. She assisted in setting up the first recycling area at Nelson Gardens Landfill and Household Hazardous Waste Site at the Culebra Road site. She ensured methane and leachate collection systems were in operating order, and calibrated and maintained automatic monitoring equipment. She monitored Underground Storage Tank installations and removals. She drafted bid documents for abandoned water-well closures, and monitored well installations and closures on City owned properties. She responded to hazardous material, chemical, wastewater, and other spills to provide technical advice and assistance when on-call. She has conducted Phase I and Phase II ESAs. As an Environmental Protection Officer II, she worked in the Edwards Aquifer Protection Program conducting site visits and providing geological assessments for projects located over the Recharge, Contributing and Transition Zones. She gave numerous presentations to citizen groups, regulatory agencies and environmental organizations, City of San Antonio's Planning and Zoning Commissions and City Council. She was on call as a first responder to Hazardous Waste spills over the Recharge Zone.

SAWS; Engineer I, Environmental Compliance Supervisor and Wastewater Compliance Manager: Ms. Falkenberg was responsible for revising and implementing the Significant Industrial User (SIU) Pretreatment Program. She developed a program of Records of Decision on user permitting, sampling, enforcement and implementation by developing long range plans and programs to enhance the Pretreatment Program and maintain sustainability of wastewater quality, sludge quality and metals reduction. EPA recommended that these changes should be submitted for a program modification to replace the existing Program. She also developed the concept for a plan to protect the treatments plants, which became known as the SAWS Treatment Plant Action Plan (TPAP), and laid out what actions to be taken at different intervals in a known or suspected accidental of slug discharges to the sanitary sewer.

SAWS; Geologist: Ms. Falkenberg was responsible for Aquifer Protection and Evaluation, land development review of WPAPs, Contributing Zone Plans, Sewer Collection System Plans, Plat Reviews, Planned Unit Development Plans, Municipal Development Plans, and Category Determination Requests. Her prior experience in geology and hydrogeology, and characteristics of surface and subsurface geology allowed for evaluation of assessment reviews, environmental issues and development activities to insure compliance with local and state regulations. In

cooperation with other Departments, she assisted in the Grease Reduction Program conducting inspections and interviews for local restaurants, Underground Storage Tanks, Storm Water Basins, and Sewer Lift Stations. She developed a pre-compliance check list for the permitted users of underground storage tanks over the Edwards Aquifer Recharge and Transition Zones.

Kerry McEntire

Environmental Scientist | 1 Year with Medina

RESUME HIGHLIGHTS

- **Phase I ESA**
- **Project Management**
- **Disaster Case Management**
- **Jurisdictional Waters and wetland surveys and delineations**

Education

BS, Multidisciplinary Sciences (2011) University of Texas, San Antonio

Mr. McEntire is an Environmental Scientist. His responsibilities include Phase 1 Environmental Site Assessments, Stormwater Pollution Prevention Plans, data analysis, report preparation, and regulatory compliance. His background in energy has given him experience in Photovoltaic (Solar) System Design, Biodiesel Production, and Liquefied Petroleum Gasses (LPG). Mr. McEntire has over five years of professional and academic experience in the fields of GIS and mapping. His education focused on Environmental Science & Environmental Law.

RELEVANT EXPERIENCE

BCFS IDCM—Immediate Disaster Case Manager for FEMA Responses: San Antonio, TX: Mr. McEntire has been deployed in response to declared disasters in 2014 and 2016-2017. He has completed several FEMA Emergency Management Institute courses.

City of Grey Forest, Board Member of Grey Forest Community Board: Grey Forest, TX: Mr. McEntire assists the board to manage, preserve and protect the unique, historic public spaces owned by the City, and helps to provide guidance on civil, regulatory, and environmental issues.

City of San Antonio GMA projects: Bexar County, TX: Mr. McEntire has performed fieldwork and report preparation for Tier I Environmental Reviews, Categorical Exclusions, and Environmental Review Records.

Build Native: Mr. McEntire performed photovoltaic site assessments, designed photovoltaic systems, and created technical proposals for potential clients.

Alamo Biodiesel & Diesel Green: Mr. McEntire worked for both companies at times when they were the only local retail sources of biodiesel in Austin and San Antonio. The companies collected waste vegetable oil (WVO) and recycled it into biodiesel. Mr. McEntire performed WVO collection, site set-ups, and contract negotiations.

Amerigas Propane: Mr. McEntire held Railroad Commission of Texas certifications for Service & Installation Technician, and for Bobtail Driver while gaining experience in safety, HAZMAT, and construction/industrial environments.

Hope Hernandez

Wildlife Biologist | Staff Scientist

RESUME HIGHLIGHTS

- **Phase I ESA & Phase II ESA**
- **ESA, NHPA**
- **MSGP**
- **NEPA**
- **Habitat Evaluation**

Education

BA, Biology- Wildlife (2014) Texas State University, San Marcos

Training

OSHA 40-Hour HAZWOPER, 40CFR1910.120 Training
Master Naturalist (2015)

Ms. Hernandez's professional experience include site visits for Categorical Exclusion evaluations, natural and cultural resource surveys required to satisfy the NEPA requirements of the Federal Multi-Sector General Stormwater Permit (MSGP), Phase I and Phase II Environmental Site Assessments (ESA's), following HUD regulations, Environmental Record Reviews (ERRs), Jurisdictional Waters delineation and determinations, vegetation surveys, management plans, and habitat evaluations. Ms. Hernandez has written Tier II ERRs and Phase I ESAs and performed data analysis, report preparation for Department of Defense (DOD) Stormwater Protection Plan's (SWPPP), assisted with National Environmental Policy Act (NEPA) reports, and regulatory compliance. She completed National Pollutant Discharge Elimination System (NPDES) small Municipal Separate Stormwater Systems (MS4) annual reports. Ms. Hernandez monitored construction sites for Endangered Species. Ms. Hernandez is proficient in the use of field equipment (i.e., collecting GPS data with a Trimble or Garmin), taking water samples, trapping and handling animals, and identifying plant species.

RELEVANT EXPERIENCE

Phase I Environmental Site Assessments (ESA): Ms. Hernandez has extensive experience completing site assessments for Phase I ESA's for multiple clients.

Spieß Construction Co., Inc. Ms. Hernandez collected groundwater samples throughout the construction of the San Antonio Water System (SAWS) Western Watershed Sewer Relief pipeline.

City of San Antonio (COSA) Grants Monitoring and Administration (GMA) Department: Ms. Hernandez performed site visits and assisted in report writing for numerous Tier I and II

Environmental Record Reviews and Categorical Exclusions.

City of El Paso: Ms. Hernandez monitored for endangered species at construction sites. She also visited industrial sites around the county to conduct annual training and site inspections for MSGP regulations. Stormwater runoff samples were taken and analyzed for multiple sites. She also assisted with updating and writing SWPPP's. Ms. Hernandez researched receiving waters, water quality standards, and impairments for regulated facilities under the MSGP and prepared their Notices of Intent.

New Mexico State University and City of Las Cruces: Ms. Hernandez collected information and created the Municipal Separate Storm Sewer System (MS4) Annual Reports for two MS4s in New Mexico. All tasks required exercising judgment to comply with regulations while meeting the clients' needs and were performed while working closely with others on project teams.