



**EXPERIENCE:** Wally has over 14 years of consulting experience on a wide range of environmental projects. His project experience includes groundwater quality assessment, groundwater modeling, soil and groundwater remediation, property assessments related to real estate transactions, permitting and waste handling issues. Wally has experience with the Texas Risk Reduction Program (TRRP), the Texas Risk Reduction Rules, the Texas Voluntary Cleanup Program (VCP) and petroleum storage tank issues. Brief summaries of a portion of the projects Wally has dealt with are provided below:

**KEY PROJECTS:**

***Low-Pressure Gas Pipeline Gathering System and Gas Plant – Central Oklahoma. Project Manager:*** Conducted assessment and remediation of mercury-impacted soil at 25 former mercury meter stations associated with a low-pressure gas pipeline gathering system. Project tasks included preparation of Assessment and Clean-up Workplans for Oklahoma Department of Environmental Quality (ODEQ) approval, soil and sediment sampling, waste characterization and profiling, and oversight of soil excavation and disposal activities. Prepared Final Site Clean-up Report and received closure from the ODEQ.

***Bulk Chemical Distribution Facility – Houston, Texas. Project Manager:*** Reviewed project files and prepared a report summarizing historical regulatory compliance issues and subsurface investigation results at a bulk chemical distribution facility. Conducted a health-based risk assessment to develop cleanup goals under the Texas Risk Reduction Rules. Based on the results of the risk assessment, prepared a Response Action Workplan to remediate soils impacted by chlorinated solvents. Installed and operated a soil vapor extraction system to remediate impacted soils. Conducted groundwater monitoring and sampling to document the occurrence of natural attenuation. Prepared and implemented a closure plan for an interim hazardous waste management unit under RCRA regulations.

***Decommissioned Petroleum Refinery – Beaumont, Texas. Project Manager:*** Provided project management for a subsurface investigation conducted to collect data for a health-based risk assessment at a decommissioned petroleum refinery. The subsurface investigation included the use of a mobile laboratory and innovative soil gas sampling techniques in low



permeability soils that resulted in cost savings of over \$100,000 to the client. Installed dual-cased wells to delineate hydrocarbon impacts in two separate groundwater zones. Coordinated a semi-annual groundwater monitoring program that included sampling of approximately 90 monitoring wells.

***Municipal Solid Waste Landfill – Oklahoma City, Oklahoma.***

***Project Manager:*** Performed a hydrogeologic investigation and designed a groundwater monitoring plan for a municipal solid waste landfill to comply with the requirements set forth in RCRA Subtitle D (40 CFR Part 258). The investigation included installation of nested monitor wells at several locations around the landfill perimeter to evaluate hydrogeological characteristics of multiple perched groundwater zones and the deep regional groundwater flow system. Geologic conditions dictated that water-rotary drilling techniques be used to install the monitor wells; therefore, subsurface geophysical logging data were used to determine monitor well construction requirements. The data collected during the hydrogeologic investigation were used to develop a groundwater monitoring plan that would establish background water quality and reliable release detection monitoring at the downgradient point of compliance.

***Emergency Response/Corrective Action – Dallas, Texas.***

***Project Manager:*** Managed emergency response and corrective action activities related to several environmental issues encountered during a major renovation project in the downtown area of Dallas, Texas. An emergency subsurface investigation and vapor extraction feasibility testing were conducted during the three days following an explosion caused by petroleum hydrocarbon vapors encountered during utility tunneling/installation operations. The investigation resulted in identification of the hydrocarbon source (former UST facility). The vapor extraction feasibility testing allowed critical decisions to be made regarding safe and cost effective completion of utility installation. Conducted emergency response activities when a buried cistern was ruptured and oil was released into the subsurface. Response activities included spill containment and



cleanup, waste classification, and hazardous and non-hazardous material segregation and profiling for disposal. Conducted health and safety monitoring and vapor abatement during installation of a water utility line in an area where phase-separated hydrocarbons were seeping into the utility trench.

***Former Agricultural Property - Corrales, New Mexico. Project Manager:*** Pesticide-impacted soil and groundwater were discovered at a former apple orchard being considered for residential development. Wally developed a sampling plan to characterize approximately 25 acres of land with respect to pesticides in soil and groundwater. On behalf of the developer, Wally negotiated risk-based cleanup standards with the New Mexico Environment Department (NMED). Approximately 200 cubic yards of impacted soil were removed from the site and a deed restriction was prepared to minimize potential exposure to impacted groundwater. Upon receipt of a “no further action” letter from the NMED, the property was redeveloped for residential use.

***Bulk Fuel Terminal – Albuquerque, New Mexico. Project Manager:*** Conducted assessment and remediation of soil and groundwater at a bulk fuel terminal in the area designated as the South Valley Superfund site. Conducted assessment and remediation of two separate groundwater-bearing zones. Remediation methods included air sparging, vapor extraction, and pump and treat.

***Petroleum Pipeline Pump Stations – Texas and New Mexico. Project Manager.*** Wally supervised subsurface investigation, groundwater monitoring and hydrocarbon recovery activities at four petroleum pipeline pump stations in West Texas and Eastern New Mexico.

***Industrial Waste Landfill – East Texas. Project Manager.*** Wally conducted a subsurface investigation of an inactive non-hazardous industrial waste landfill. The investigation results were used to prepare a closure plan for the landfill according to the Texas Risk Reduction Rules.



***Municipal Solid Waste Landfills – North Central Texas. Project Manager.*** Wally conducted due diligence assessments at two landfills in the Dallas-Fort Worth area. The assessment included installation and sampling of groundwater monitoring wells and sampling of existing landfill gas monitoring wells.

***Petroleum Storage Tanks - Texas. Project Geologist and Project Manager:*** Provided field investigation and project management for over 500 petroleum storage tank locations for various clients.

**EDUCATION:** Bachelor of Science, Geology; New Mexico State University; 1984

**WORK HISTORY:** Senior Project Manager; Cirrus Associates, Dallas, June 2002 to present

Branch Manager; EA Engineering, Science, and Technology, Houston, May 1999 to June 2002

Project Manager, EMCON, Houston, April 1997 to May 1999

Project Manager, Applied Earth Sciences, Albuquerque, April 1995 to April 1997

Project Manager/Environmental Geologist; CURA, Inc., Dallas, Texas; March 1988 to April 1995.

**AFFILIATIONS:** Member, Association of Ground Water Scientists and Engineers