

PETER T. KALLAY, P.E.

EDUCATION

M. S. Hydrology - New Mexico Institute of Mining and Technology, Socorro, New Mexico
B. S. Civil Engineering - Florida International University, Miami, Florida
A. A. Engineering - Miami-Dade Community College, Miami, Florida

SUMMARY

Mr. Kallay has 18 years of experience in the Environmental Consulting and Services field. He has managed Underground Storage Tank closures, site assessments, and preparations of Corrective Action Plan Part A and Part B Plans. He has performed groundwater fate and transport modeling, and managed UST site remediation activities including automated free product recovery, soil vapor extraction, thermal oxidation, bioventing, bioremediation, air stripping, carbon adsorption, excavation and landfarming. He has conducted groundwater pumping tests and analysis, regulatory compliance inspections, pilot vent testing, and secured site closure. He has performed numerous Phase I, Phase II, and Phase III Environmental Site Assessments. Mr. Kallay also prepares SPCC Plans, Contingency Plans, evaluates industrial waste treatment options, and manages regulatory Compliance Audits. Mr. Kallay has experience providing services at fueling facilities, both Underground and Aboveground, Industrial facilities, Hazardous Sites and Facilities, landfills, bulk fuel storage facilities, commercial facilities, residential facilities, and undeveloped land.

PROFESSIONAL REGISTRATION

Professional Engineer in Georgia, Florida, Alabama, North Carolina, and South Carolina
Professional Geologist in Tennessee
Pollutant Storage System Contractor in Florida (inactive)

PROFESSIONAL AFFILIATION

National Groundwater Association
Association of Groundwater Scientists and Engineers
American Association of Professional Geologists
American Society of Civil Engineers
American Geophysical Union
Atlanta Geological Society

CAREER HISTORY

FORCON INTERNATIONAL - Consultant- Environmental Claims - Conducts investigations and provides expert witness services related to claims and litigation associated with underground storage tank leaks, groundwater and land contamination and remediation, waste treatment, hazardous waste, and a variety of other types of environmental issues.

ATLANTA ENVIRONMENTAL CONSULTANTS - Manager, Environmental Services - Managed projects and led project teams in underground storage tank (UST) environmental services, corrective action plans preparation, remedial action plans preparation, Phase I environmental site assessments, Phase II environmental site assessments, preparation of spill prevention control and countermeasure (SPCC) plans, industrial site investigations and remediation, and a variety of other types of investigations.

AMERICAN CONTAINMENT SERVICES - Project Manager - Report to company president. Led project teams in environmental assessments, corrective action and remedial action plan development, and remediation projects at UST, hazardous waste, and other sites.

CLAYTON GROUP SERVICES - Atlanta Regional Office - Project Engineer/Hydrogeologist Reported to regional Environmental Services manager, with overall responsibility Managing environmental investigations. Led project teams in environmental assessments, corrective action planning, risk-based corrective action (RBCA) assessments, and remediation projects at UST, hazardous facilities, and other sites.

ADVANCED ENVIRONMENTAL MANAGEMENT - Environmental Engineer - Reported to company president. Led project teams in tank closures, contamination assessment, corrective action planning, compliance status reporting, and remediation projects at UST sites, hazardous facilities, landfills, and other sites.

M. P. BROWN & ASSOCIATES, INC. - Environmental Engineer - Reported to company president. Led project teams in tank closures, contamination assessments, corrective action planning, and remediation at UST sites, hazardous facilities, landfills, and other sites. Installed fuel storage tanks and UST upgrades. Inspected and maintained compliance at UST, industrial, and other facilities. Conducted air quality inspections, monitoring, and permitting.

AB2MT CONSULTANTS, INC. - Project Manager - Reported to company president. Managed teams in tank closures, contamination assessments, remedial action planning, and remediation at UST, commercial, industrial, landfill, and other sites. Managed team completing closure of USTs in a multistate region for a closed oil retailer.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY - SE Region - Engineer - Reported to Southeast Regional manager. Team leader in tank closures, contamination assessments environmental audits, and corrective action planning at UST, commercial, development, and other

sites. Reviewed and critiqued EPA Records of Decision (ROD). Evaluated and approved computer groundwater modeling software.

SELECTED PUBLICATIONS AND PRESENTATIONS

Cones of Influence and the 210-Day Travel Time.
ASCE South Florida Conference, Fort Lauderdale, Florida, 1984.

A Natural system of Wastewater Treatment.
ASCE Miami Meeting. Miami, Florida 1985.

A Spectral-Perturbation Model of Water-Driven Oil Flow in Porous Media.
New Mexico Institute of Mining and Technology. Socorro, New Mexico 1988.

FID vs. PID for Screening Organic Vapors in Monitor Well Cuttings.
Florida Water Well Association, Orlando, Florida, 1992.

Using Bioventing to Clean up BTEX and MTBE in Groundwater.
Clayton Group Services, Atlanta, Georgia, 2002.

SELECTED PROJECT LEVEL EXPERIENCE

Managed investigation and remediation of a gasoline release from a rental car company at Miami International Airport, Miami, Florida, in an area impacted by other releases. Issues included determining (or estimating) which portion(s) of a contaminant plume resulted from our client's release and which portions resulted from others' releases.

Managed an investigation and cleanup of a release from a service station in southwest Georgia that had migrated offsite onto an apartment complex. Issues included determining the estimated ages of multiple releases, potentially affecting what portions of the release would be covered by the Georgia Underground Storage Tank (GUST) Trust Fund.

Conducted an investigation of a fuel release due to a construction accident at a service station in Central Florida for an insurance company. Issues included questions regarding adequacy of subsurface investigation of utility lines and piping prior to initiating subsurface horizontal boring, errors on the part of a petroleum equipment repair firm resulting in a larger fuel release, emergency response cleanup continuing well beyond the point where it was cost-effective, failure to initiate a formal Contamination Assessment investigation as required by Florida law, and emergency response cleanup efforts expended on an old, unrelated fuel release that was not the responsibility of the insurer affording coverage to the construction company.

Supervised a large free product recovery effort of a 100,000+ gallon gasoline release at a bulk oil terminal in Charlotte, North Carolina. Gasoline in the ground was flowing into a creek. Issues

included conducting cost-effective recovery of gasoline and expending sufficient, timely effort to keep gasoline from flowing downstream in the creek, to minimize potential fire and contamination hazards and the attendant liability. Methods employed included damming the creek, skimming free product, collecting seeping fuel in tubs, bailing wells, collecting and disposing of recovered bulk fuel, etc.

Managed an environmental assessment and conducted remedial action planning at a former metal plating facility in Miami, Florida following a chromic acid release onto the street. Issues included efforts to investigate and cleanup the property and several surrounding properties impacted by the release within a budget not exceeding the value of the property. The scope and extent of the required cleanup exceeded the financial means of the small mortgage company that had purchased the property, and the property was eventually placed in the Superfund program.

Conducted assessment and soil remediation at an industrial facility, a machine shop, where high concentrations of lead and other metals were found in soils. The site was scheduled to be converted to residential use. Issues included sufficiently cleaning up metals contamination and placing clean fill over all impacted areas to make the area safe for future residents.

Managed initial remedial action, assessment, and remedial action planning at a high rise condominium in Miami, Florida where over 100,000 gallons of heating oil was released under the building. Issues included conducting cost-effective cleanup, conducting assessment and cleanup using methods that minimize disruption of residential living facilities and residents' normal daily activities, and meeting regulatory requirements.

Investigated and proposed remediation of a former pest control company site at which high concentrations of arsenic, chlorinated pesticides and organo-chlorine pesticides were released to soils and groundwater. Issues included cost-effective cleanup on a relatively low-value property, cleanup to residential standards to make the property more marketable, and effectively remediating each of a large number of different, highly persistent pesticides and arsenic in both soils and groundwater.

Investigated a fuel release near a bulk oil plant in Birmingham, Alabama. The investigation centered on determinations regarding whether an apparent release some distance downhill of the facility could have originated at the facility, or possibly from other sources.

Prepared a Spill Prevention Control and Countermeasure (SPCC) Plan for a chemical manufacturing plant in Alabama. The Plan was prepared following a large fuel release to a navigable river in Alabama, and presented detailed preventive, mitigation, and control measures designed to supersede a previous, inadequate SPCC Plan. Providing for appropriate SPCC and

Contingency planning prior to an accident, including informing and training key personnel, is an important strategy to minimize the potential of serious accidents. These steps assist in minimizing future liability.

Prepared a Contingency Plan for a metal plating job shop in North Carolina. The Contingency Plan was prepared following an accident in which fuel flowed into a storm sewer on the property. This Contingency Plan, which incorporated a SPCC Plan, was designed to minimize the potential for serious accidents, and, thus, limit liability.

Investigated a fuel release at a service station in Atlanta. At issue was fuel released onsite versus fuel released uphill of the site and commingling with the onsite release, resulting in the appearance to downhill property owners that the release had come from the Subject Property. In fact, the majority of the release was from an offsite source.

Investigated a printing ink release to sanitary sewer from a newspaper publisher in the Atlanta, Georgia area. Prepared and presented expert witness testimony in court regarding responsibility of the generator in preventing ink releases to sanitary sewer; specific violations of law in allowing the release, failing to notify authorities, or cleanup the release; and potential liability. The case involved a lawsuit by the industrial building owner attempting to recover damages to the facility from the now-defunct newspaper publisher.

Design of a Remedial Action Plan and implementation of remediation of a fuel release at a rental car facility at the Orlando International Airport, Florida. A separate release on another part of the property occurred from a used oil tank that was removed. During an Airport expansion, the Airport Authority conducted de-watering activities as part of construction of a large-diameter storm sewer between the two releases on this facility. Numerous investigations and correspondence over several years ensued regarding allegations that the two contaminant plumes had commingled during the de-watering activity. Since one of the contaminant plumes was covered by the Florida Petroleum Liability Insurance and Restoration Program trust fund, and the other contaminant plume was not, the State of Florida was arguing that cleanup of the de-watering area should not be paid for by the trust fund because any cleanup efforts would result in expending trust funds to cleanup some ineligible contamination.

Supervised an emergency response cleanup of several hundred gallons of diesel fuel spilled during a truck collision on I-75 north of Atlanta. The fuel entered a storm sewer, flowed under the Interstate Highway, flowed into an earthen channel, and pooled in and infiltrated soils in depressions in the channel. In addition to conducting an effective, rapid response cleanup, at issue was how far to proceed using relatively costly emergency response cleanup methods versus transitioning into a less urgent, but more cost-effective, routine environment assessment and cleanup mode.

PROJECT MANAGEMENT EXPERIENCE

Designed municipal sanitary sewer collection systems for the City of Miami. Drafted proposed sewer lines and appurtenances.

Operations and maintenance of a package wastewater treatment plant utilizing trickling filters and activated sludge process.

Operation and maintenance of a wastewater treatment research project utilizing forage grasses for initial treatment.

Managed tank closure, contamination assessment and corrective action projects in Georgia, Tennessee, North Carolina, South Carolina, and Alabama for a major national oil company.

Managed tank closure and contamination assessment projects in Georgia, Alabama, and South Carolina for another major national oil company.

Modeled groundwater flow, transport, and bioremediation at various contaminated sites using a computer model

Prepared parts of a hydrogeological/water resources report of southeast U.S. for a major national oil company

Prepared a major part of a tank closure report for 156 underground storage tanks for a U.S. Air Force Base in Florida.

Supervised a large free product recovery effort at a bulk oil terminal in North Carolina for a major national oil company.

Reviewed Remedial Investigation (RI), Feasibility Study (FS), and Remedial Design (RD) reports for RCRA/CERCLA sites as part of Record of Decision (ROD) review. Evaluated and critiqued reports regarding sufficiency and appropriateness of remedial actions proposed.

Managed an environmental assessment and remedial action planning at a former metal plating facility in Miami, Florida following a chromic acid spill.

Managed soil and groundwater treatment systems design, construction, startup, operation, maintenance, and decommissioning for a major national rent a car company

Managed soil and groundwater treatment systems design, construction, startup, operation, maintenance for another major national rent a car company

Conducted Phase I and II environmental site assessments (ESA) at industrial facilities, fueling facilities, retail, landfill, and other locations in Florida and Georgia.

Managed soil and groundwater assessments of former municipal landfills in Miami and Ft. Lauderdale, Florida areas in conjunction with USEPA investigations. Identified and prepared water resources protection plans for the surrounding areas.

Prepared remedial action plans (RAP)/corrective action plans (CAP) for a number of locations of a former independent gasoline station chain proposing air stripping, carbon adsorption, and short-term pumping and disposal.

Prepared Health and Safety Plans (HASP) for remedial investigations and remedial actions at hazardous/non hazardous waste sites including landfills, metal plating facilities, petroleum contaminated sites, chlorinated solvent spill sites, wood treating facilities, and other sites.

Designed and performed short- and long-term groundwater pumping tests at a number of sites in Georgia and Florida. Evaluated, processed, interpreted, and reported data
Managed subcontracting of environmental consulting services in Alabama, Georgia, Florida, Kentucky and Tennessee for an independent oil company. Selected consultants for tank closures, contamination assessments, and CAPs/RAPs; supervised and reviewed consultants' work and invoices.

Secured trust fund eligibility for a large number of UST sites in several southeastern states for an independent oil company.

Managed initial remedial action (IRA) and contamination assessment of a large diesel fuel spill under a high rise condominium on the seacoast in Miami, Florida.

Designed soil and groundwater remediation systems for several gasoline stations in the Miami, Florida area.

Prepared plans for fuel storage system installations, upgrades, leak monitoring systems, and related construction for a number of clients.

Constructed fuel storage facilities, secondary containment facilities, UST upgrades and automatic tank gauging systems for a major rent a car company

Managed fuel storage system compliance, design and construction of 1998 UST upgrades for a major national rent a car company.

Designed and planned installation of a soil and groundwater remediation system for a large agricultural packing house.

Managed underground storage tank (UST) system upgrades and construction at a number of sites for a major rental car company.

Installed above ground fuel and oil tanks, fuel dispensers, dispenser islands, and lubrication facilities at a number of locations for a major rental car company.

Constructed secondary containment areas, tank pads, canopy footers, and other structures related to environmental contaminant capture, containment, or protection for various clients.

Designed sanitary sewer laterals and connections for industrial and agricultural clients.

Operated and maintained a remediation system using air stripping at an industrial facility in Miami. Contaminants included BTEX, MTBE, and chlorinated solvents. Soil remediation was also completed. The site was monitored and received a clean closure.

Designed, installed, operated, and maintained a soil and groundwater remediation system at a major airport rental car facility at Miami International Airport. The system incorporated soil vapor extraction (SVE), groundwater pump-and-treat, a recharge gallery, and a thermal oxidizer. The system cleaned up the site to applicable standards in one year. A new release occurred, and the system was restarted and again cleaned up the release rapidly.

Installed and operated air stripping remediation systems at a number of UST facilities in the South Florida area.

Evaluated and designed modifications, additions, and upgrades to various industrial wastewater treatment systems, including automotive repair facilities, commercial car washes, agricultural packing houses, industrial equipment washes, and others.

Designed and supervised construction of storm water drainage systems for a new car dealership and other commercial/industrial clients.

Evaluated storm water drainage systems at a number of commercial and industrial facilities. Recommended, permitted and implemented actions, as required, ranging from french drain cleanout to complete new stormwater drainage system design.

Designed and installed automatic tank gauging (ATG) systems for UST installations at two major national rental car companies' facilities in Florida

Completed state and local air permitting for a number of industrial facilities in the Miami, Florida area. Evaluated quantities of air pollutants generated and sufficiency of air pollution control systems for various unit operations.

Designed and supervised construction of secondary containment structures for automotive repair facilities, industrial facilities, and fueling facilities.

Designed, installed, operated and maintained evaporators at a number of industrial manufacturing facilities in the southeast.

Designed, installed, operated, and maintained physical-chemical industrial wastewater treatment systems for an industrial laundry facility. The system incorporated solids separation, bag filters, an equalization tank, chemical precipitation, polymer feed, flocculation, settling, pH adjustment, carbon adsorption, and discharge to sanitary sewer.

Prepared a Spill Prevention Control and Countermeasure Plan (SPCC Plan) for a chemical manufacturing facility and tank farm in Alabama

Prepared a Contingency Plan for a chromium metal plating job shop in North Carolina

Prepared preliminary design of a 500,000 gallon equalization tank, piping, pumping and associated facilities for a chicken processing plant in Alabama

Managed RI/FS and RAP preparation for a chlorinated solvent spill site associated with a dry cleaning facility in the Atlanta, Georgia area.

Managed CAP Part A and CAP Part B report preparation for a gasoline station chain in Georgia. Corrective actions proposed included no further action (NFA), monitoring only (MO), groundwater pump-and-treat, soil vapor extraction, passive and active free product recovery, multiphase liquid pumping, and phytoremediation.

Prepared Compliance Status Report (CSR) and CAP for an industrial chlorinated solvent spill site in Georgia under the Georgia Hazardous Sites Response Act (HSRA). Provided engineering supervision in installation of pump-and-treat remediation system.

Managed Phase I/II Environmental Site Assessments (ESA) of commercial real estate, including industrial facilities, landfills, commercial facilities, residential areas, and undeveloped sites.

Designed free product, soil, and groundwater remediation system for a UST site in Smyrna, Georgia with a private water well onsite. The system included soil vapor extraction (SVE), groundwater pump-and-treat, Oxygen Release Compound (ORC) for plume control, and redevelopment of the site with the system operating.

Designed underdrain systems for a municipal Construction and Demolition (C & D) type landfill in Georgia.

Operated, maintained, evaluated, and modified a bioventing system designed for groundwater remediation at a UST site in Alabama. The system cleaned up the site to applicable standards, but subsequent releases required modifying, restarting, and continuing operation of the system. Work at the site also included deep-well assessment of the underlying ancient limestone formation, assessing impact on an adjacent stream, lake, and city park, and conductin an Alabama Risk-Based Corrective Action (ARBCA) evaluation.

Operated and maintained a free product system utilizing an internal combustion engine at a UST release site in Alabama.

Designed a free product, soil, and groundwater remediation system for a UST release site located on fractured rock in Birmingham, Alabama. The system incorporated a number of recovery wells in rock, pneumatic free product and groundwater recovery, groundwater treatment using low-profile air stripping, soil vapor extraction (SVE), off gas treatment using thermal and/or catalytic oxidation, oil-water separation, and discharge of treated water to sanitary sewer.

Conducted Risk-Based Corrective Action (RBCA) evaluations at a number of UST facilities.

Designed water line replacement for a UST site with shallow groundwater contamination potentially impacting drinking water supplies.

Contamination assessment of an industrial facility manufacturing boilers. Contaminants included tetrachoroethene (PCE), metals, and petroleum.

Assessment of soil and groundwater contamination at a number of dry cleaning facilities in the southeast.

Tank closures at USTs located on residential sites.

Site Assessment and proposed Remedial Action Plan (RAP) at a UST facility in south Florida located adjacent to an old industrial area designated as a brownfields area. Contaminants included BTEX, MTBE, lead, chloroform, and chlorinated solvents. Remediation via Oxygen Release Compound (ORC) was proposed.

Site Assessment and corrective action plan (CAP) preparation at a 40-year-old UST system in Georgia. Work also included system upgrades to bring site into compliance, proposed tank closure, and efforts to track old financial records to apply for Georgia Underground Storage Tank (GUST) Trust Fund eligibility. Free product was identified at this site 200 feet from the Chattahoochee River, used by two nearby municipalities for drinking water supply.