

<b>EXPERTISE</b>	Environmental Geology
<b>EDUCATION</b>	M.S./1990/Geology/University of South Florida B.S./1988/Geology/Western Michigan University
<b>EMPLOYMENT HISTORY</b>	Herrygers Environmental Services, LLC – President – 2004-Present Schnabel Engineering – Associate/Senior Geologist – 2000-2004 Earth Management Systems – Project Geologist – 1995-2000 Applied Technology & Management – Geologist – 1990-1995
<b>CERTIFICATION &amp; REGISTRATION</b>	Professional Geologist: South Carolina, Florida, Georgia, Washington, Pennsylvania Asbestos Inspector & Asbestos Management Planner: South Carolina, North Carolina, Virginia, Pennsylvania Lead Inspector & Lead Risk Assessor: EPA Region 4, SC & FL 40 hour OSHA Trained
<b>SUMMARY</b>	<p>Mr. Herrygers is a hydrogeologist with 22 years professional experience as an environmental consultant. He has considerable project management experience with Environmental Expert Witness Legal Assistance, Pollution Incident Insurance Investigations, Emergency Spill Cleanup Management, Forensic Petroleum Contamination Investigations, Phase I &amp; II Environmental Assessments, Asbestos Inspections/Management Planning, Groundwater Resource Investigations, UST Investigations, Environmental Remediation Projects, Groundwater/Surface Water Evaluations, Air Analysis, Radon Investigations, Lead Contamination Investigations, Coastal Erosion Management Plan Development, Turn-Key Beach Nourishment/Dredge Fill Projects, Wetland Delineation/Mitigation, Marina Siltation Investigations and Hydrogeologic Statistical Modeling. Mr. Herrygers' environmental expert legal work has included depositions, trial testimony, mediation/arbitration testimony, extensive document review, forensic petroleum contamination investigations, environmental regulatory compliance audit and overall attorney consulting. Mr. Herrygers has been a licensed Asbestos Inspector/Management Planner in numerous states for 18 years. Mr. Herrygers has been a licensed Lead Inspector/Risk Assessor in numerous states for 13 years.</p>
<b>SPECIALIZED EXPERIENCE</b>	<ul style="list-style-type: none"><li>◆ <b>Pollution Incident Insurance Investigations and Spill Cleanup Management:</b> Performed more than 2,600 pollution incident insurance investigations and managed spill cleanup of sites throughout the United States. Investigated sites for insured pollution transportation companies, industrial facilities, etc. Investigations have included emergency spill incidents at non-contaminated sites and site with pre-existing contamination. Provided oversight for spill cleanup, remedial activities, active management of spill cleanup, interaction with environmental regulatory agencies, and review of contractor spill response/remediation invoices including preparation of reports and obtaining “no further action” letters from governing regulatory agencies.</li><li>◆ <b>Expert Witness Testimony/Environmental Legal Consulting:</b> Provided assistance to clients involved with legal disputes concerning various environmental matters. Provided law firms with environmental guidance pertaining to sites involved with environmental lawsuits or potential lawsuits. Has extensive experience reviewing environmental documents and performing forensic contamination assessments at sites with histories of multiple spills. Provided expert witness testimony during depositions, mediation, arbitration and jury trials. Routinely performs review of large volume of documents in order to synthesize key legal environmental issues and compile information summary in a report to be used to assist with the legal defense/prosecution.</li></ul>

- ◆ **Environmental Liability (Phase I & II) Assessments:** Performed more than 1,200 turn-key real estate liability site assessments and contamination assessments for a variety of clients including: pollution insurance companies, schools, developers, oil companies, law firms, financial institutions, various industries, banks, etc. Properties evaluated included: large tracts of land in wetland sensitive areas, retail centers, industrial facilities, schools, lumber yards, gasoline stations, auto/heavy equipment repair/salvage facilities, manufacturing plants, bulk petroleum storage facilities, golf courses, industrial printing plants, historical properties, spill sites, etc. Reviewed hundreds of environmental assessments performed by other firms. Approximately one-third of the Phase I assessments included Phase II (subsurface investigations) investigations. Developed long term monitoring and remediation plans for various sites obtaining closure for numerous sites from governing regulatory agencies.
  
- ◆ **Regulatory Compliance Issues:** Provided regulatory compliance information to various clients for several areas of concerns including: lead-based paint, RCRA metals, CERCLA, asbestos, PCBs, UST regulations, Voluntary Cleanup Agreements, air quality emission standards and procedures, radon gas guidelines, drinking water quality guidelines, etc. Prepared correspondence for clients to environmental regulatory agencies pertaining to the above listed issues, including performance of State required site investigations and preparation of State required reports (IGWA, SLA, RAP, Tier 1, Tier 2, Voluntary Cleanup Agreement Plans, etc.).
  
- ◆ **Asbestos Services Throughout the SE United States:** Performed more than 1,000 Asbestos Inspections in several States for residential, commercial, industrial and government-owned properties. Inspections involved sample collection and report preparation according to applicable regulations generally for the purposes of either managing the asbestos in place, building renovations or demolitions. Types of buildings inspected included: retail shopping centers, manufacturing plants, mills, warehouses, commercial buildings, motels, theaters, large public housing projects and multi-level office buildings. Most projects included follow-up work such as: Oversight for abatement activities and preparation of asbestos management plans.
  
- ◆ **Dry Cleaning Contamination Investigations Throughout the Eastern United States:** Performed various levels of investigation of more than 100 sites with dry cleaning fluid contamination (originating from both commercial and industrial dry cleaners). Worked closely with environmental regulatory agencies in order to assure client compliance with applicable Federal and State regulations. For facilities eligible for State Cleanup fund reimbursement, assisted with reimbursement of funds for site assessment/cleanup activities.
  
- ◆ **Investigation for Former Unregulated City Landfill Site, Charlottesville, Virginia:** Performed extensive investigation of a former unregulated dump site. Performed a comprehensive review of numerous historical documents. Implemented an extensive subsurface investigation delineating the horizontal and vertical extent of different types of sources of contamination in soils, buried debris, shallow and deep groundwater aquifers. Assisted prospective purchaser with obtaining legal assurance documentation from governing environmental regulatory agencies allowing the property to be safely re-developed.
  
- ◆ **West Side Ice and Fuel Company Chromium Contamination Assessment:** Performed inspection of ice manufacturing facility with a 50 year history of usage of sodium dichromate. Performed assessment of chromium contamination in soil and groundwater.

- ◆ **Savannah River Site Radiological Investigations:** Provided technical oversight and performed hydrogeological evaluation for the installation of approximately 40 monitoring wells at a nuclear contaminated site. Monitoring wells were used to determine levels of radioactive constituents potentially originating from buried nuclear material. Installed a vertical recirculating well to be used in the remediation of on-site contamination.
- ◆ **Harbortown Marina Remediation, Hilton Head, South Carolina:** Performed an environmental investigation of a gasoline contaminant plume. Determined the horizontal and vertical extent of free phase gasoline. Developed a model for predicting contaminant plume migration and fluctuation due to tidal forces.
- ◆ **Kiawah Island Dock and Shellfish Master Plan Study, Kiawah Island, South Carolina:** Performed a four year study of shellfish impact due to planned development at Kiawah Island. Mapped oyster beds in vicinity of all planned dock development. Performed laboratory analyses and statistical comparative analysis of oysters to determine their durability in pollution stressed environments. Developed a dock construction plan which would minimize impacts to existing shellfish beds at Kiawah Island. Developed a surface water quality model for anticipated dispersion of expected pollutants. Provided professional information, exhibits and other assistance to attorney who successfully defended against a law suit filed to prevent development.
- ◆ **Tybee Beach Nourishment Project, Tybee Island, Georgia:** Performed grain size and sediment compatibility analysis for borrow site and native beach for Tybee Beach Nourishment Project (and many other beach nourishment projects). Supervised borrow site vibracoring work and performed on-site stratigraphic analysis. Determined sediment compatibility information for different stratigraphic units within the borrow sites.

***PROFESSIONAL  
AFFILIATIONS***

Geological Society of America – Mentoring Program  
 National Ground Water Association  
 Society of Sedimentary Geology  
 South Carolina Association of Environmental Professionals – Board of Directors

***PROFESSIONAL  
ACTIVITIES***

Presentations at environmental seminars and conferences, lectures with various geologic and environmental educational organizations

***PUBLICATIONS  
AND LECTURES***

Bahr, L. and Herrygers, R.F., 1991. Oyster Inventory of Key Location Areas, Kiawah Island, South Carolina: October, 1991

Davis, R.A., Herrygers, R.F., Hogue, R.C., Kemble-McKeena, K., and Inglin, D.C., 1990. "Performance of the Redington Beach Nourishment Project; July, 1988 – July 1989". Proceedings of the third annual National Beach Preservation Technology Conference, American Society of Civil Engineers, New York, p. 69-85.

Davis, R.A., Herrygers, R.F., and Hogue, R.C., 1991. "Effect of Shell on Beach Performance: Examples from the West-Central Coast of Florida". Proceedings of Coastal Zone '91, American Society of Civil Engineers, Long Beach, California, July 8-12, 1991.

Herrygers, R.F., 1990. Effect of Shell on Beach Nourishment Performance at Redington Beach. M.S. thesis, University of South Florida.