

# SCOTT A. RUTHERFORD, P.E.

## SENIOR PROJECT ENGINEER

PARAGON

### PROFESSIONAL EXPERIENCE

Mr. Rutherford is a founding member of Paragon Consulting Group. He is a senior project engineer in the firm. His responsibilities include developing scopes of work, preparing sampling plans, analysis of field data, preparation of remedial plans, designing remedial systems, writing specifications, coordinating project activities, tracking budgets and writing reports. His experience includes managing RCRA, CERCLA, geohydrologic, water quality, air quality and UST projects.

While at Paragon and other consulting firms, Mr. Rutherford has provided supervisory and technical support on more than 500 projects in Colorado, Utah and Wyoming. Specific tasks have included:

- Emergency response;
- Tank closure assessments;
- Conducting site assessments;
- Preparation of reports;
- Conducting slug and pump tests to evaluate aquifer conditions;
- Performing pilot testing for remedial actions;
- Development of Corrective Action Plans;
- Design of remedial systems;
- Preparation of construction drawings, specifications and cost estimates;
- Coordination of the bidding process;
- Development and implementation of site closure plans; and
- Preparation of reimbursement applications.

At another consulting firm, Mr. Rutherford participated in projects involving closure of hazardous waste disposal facilities, pilot studies for industrial pretreatment processes, asbestos abatement and groundwater/soil remediation. He has also worked as a technician in the laboratory sampling and testing materials including air, water, wastewater and hazardous waste.

### PROJECT EXPERIENCE

- Former Manufactured Gas Plant, Fort Collins, Colorado  
Observed the excavation of MGP process piping, process tanks, and building remnants; collected samples to obtain information regarding conditions at the site; observed the segregation of materials including the use of a screen; observed the sealing of the ends of the apparent MGP process pipes discovered at the site that extended outside the excavation boundaries; coordinated the disposal of approximately 508 cubic yards of impacted soil and 425 cubic yards of debris; designed and observed the installation of an underslab vent system; prepared a work plan for an EPA-requested assessment to satisfy the requirements of an Administrative Order on Consent for Removal Action (AOC); reviewed and summarized previous assessment reports; performed subsurface exploration including the installation of double-cased wells; collected and analyzed soil and groundwater samples; coordinated disposal of the assessment-generated wastes; prepared summary reports; and coordinated with regulatory agencies and other PRPs.

### EDUCATION

*Master of Science, Civil Engineering, 1989,  
Colorado State University.*

*Bachelor of Science, Civil Engineering, 1986,  
University of Colorado.*

### REGISTRATION

*Professional Engineer, Colorado and Wyoming*

### AFFILIATIONS

*Chi Epsilon, Honorary Civil Engineering  
Fraternity*

*American Society of Civil Engineers*

*Association of Groundwater Scientists and  
Engineers*

*National Water Well Association*

### WORK HISTORY

*Paragon Consulting Group, Inc., Senior Project  
Engineer, 1997 - present.*

*Terracon Environmental, Inc., Senior Project  
Engineer, 1993 - 1997, Project Manager 1990  
- 1993, Project Engineer, 1989-1990.*

*Stewart Environmental Consultants, Project  
Engineer, 1986 - 1989; Laboratory and Field  
Technician, 1981-1985.*

- Coil Coater, Denver, Colorado  
Provided regulatory support for seven (7) years. Activities included sampling, testing, data evaluation, reporting and coordination with regulatory agencies for air emissions, Hazardous Materials Inventory Statement (HMIS) for the local fire department; RCRA hazardous waste, SARA Title III, stormwater, and process wastewater discharges to the sanitary sewer. In addition, a Fire Incident Report was prepared for a suspected arson fire that caused significant damage to the facility.
- Former Dry Cleaner, Denver, Colorado  
Prepared a CAP Addendum/Work Plan for remediation of soil impacted by tetrachloroethene (PCE) and trichloroethene (TCE); observed the excavation of approximately 315 cubic yards of contaminated soil from inside the facility; collected samples for laboratory analyses; coordinated disposal of impacted soil including the preparation of a contained-out request letter; designed and observed installation of horizontal SVE pipes in the abatement excavation; installed additional monitoring wells; performed quarterly groundwater monitoring; operated an SVE system; performed slug testing to estimate a hydraulic conductivity at the site; completed modeling to estimate PCE concentrations at the property boundary based on contaminant concentrations in the source area; prepared reports; and coordinated with regulatory agencies.
- Shopping Center, Thornton, Colorado  
Designed underslab vent systems for five (5) structures located overtop of plumes of petroleum hydrocarbons and/or dry cleaning solvents from both on-site and off-site sources. Other activities included construction observation during installation of the underslab vent systems; pilot testing (air flow versus vacuum) to size the blowers for the active vent systems; preparation of a Completion Report/Request for No-Action-Determination (NAD); preparation of an operation & maintenance (O&M) plan; quarterly site visits for O&M; measurement and recording of vacuum readings at the blowers and monitoring points during the quarterly site visits; collection of off-gas samples from each blower on a quarterly basis for laboratory analyses of volatile organic compounds (VOCs); and yearly reporting of the quarterly O&M data to the regulatory agency.
- Sick Building Syndrome, Fort Collins, Colorado  
Reviewed building occupant complaints; evaluated possible causes; selected initial parameters for testing at the site; performed indoor air monitoring; evaluated the data; made recommendations for building improvements; and prepared a summary report.
- Farm Dump Cleanup, Windsor, Colorado  
Coordinated work-plan scope with county health department; coordinated off-site disposal of the waste from the former farm dump, observed excavation of the waste materials, and prepared a summary report to the regulatory agency including a request for a No-Further-Action determination.
- Mystery Tote Sampling, Fort Collins, Colorado  
Performed sampling & analyses of mystery tote abandoned along a public road; evaluated the analytical results; and coordinated the disposal activities.
- Airpark, Fort Collins, Colorado  
Performed subsurface exploration; performed pilot testing; prepared CAP and TFFA; designed remedial system; installed remedial wells; prepared construction plans and specifications; obtained bids; prepared permit applications including building permit, APEN, reinjection and recovery well/consumptive use; performed

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construction oversight; performed system shakedown & startup; performed system operation & maintenance; performed quarterly groundwater monitoring; prepared reimbursement applications; and coordinated with regulatory agencies. Corrective actions consisted of excavation of contaminated soil at the source area; groundwater recovery with reinjection of treated effluent; soil-vapor extraction; and air sparging.

- JB's Convenience Store, Fort Collins, Colorado  
Performed subsurface exploration; performed pilot testing; prepared CAP and TFFA; designed remedial system; installed remedial wells; prepared construction plans and specifications; obtained bids; prepared building permit application; performed construction oversight; performed system shakedown & startup; performed system operation & maintenance; performed quarterly groundwater monitoring; assisted with reimbursement applications; coordinated with regulatory agencies; and performed system decommissioning. Corrective actions consisted of soil-vapor extraction.
- Florquist, Steamboat Springs, Colorado  
Designed remedial system; installed remedial wells; prepared construction plans and specifications; prepared permit applications including building permit, reinjection and recovery well/consumptive use; performed construction oversight; performed system shakedown & startup; performed system operation & maintenance; performed quarterly groundwater monitoring; prepared reimbursement applications; and coordinated with regulatory agencies. Corrective actions consisted of groundwater recovery with reinjection of treated effluent and soil-vapor extraction.
- Bulk Plant/Scout 66, Fort Collins, Colorado  
Performed subsurface exploration; performed pilot testing; prepared CAP and TFFA; designed remedial system; installed remedial wells; prepared construction plans and specifications; obtained bids; prepared building and APEN permit applications; performed construction oversight; performed system shakedown & startup; performed system operation & maintenance; performed quarterly groundwater monitoring; prepared reimbursement applications; and coordinated with regulatory agencies. Corrective actions consisted of excavation of application of ORC® and soil-vapor extraction.
- Western Mobile/Former Home Oil Supply, Denver, Colorado  
Designed remedial system; installed remedial wells; prepared construction plans and specifications; obtained bids; prepared permit applications including building permit, APEN, railroad crossing and right-of-way; performed construction oversight; performed system shakedown & startup; performed system operation & maintenance; performed quarterly groundwater monitoring; assisted with reimbursement applications; and coordinated with regulatory agencies. Corrective actions consisted of application of ORC® and soil-vapor extraction.
- WDEQ LUST Remediation Projects, Wyoming  
Preparation of Project Management Plans, Health & Safety Plans and Work Plans; geoprobe assessments; completion of soil borings; installation of groundwater monitoring wells; analyses of soil and groundwater samples; aquifer testing; bioremediation feasibility studies; pilot testing; remedial equipment evaluation; cost analyses; preparation of Remedial Action Plans; remedial system design; preparation of plans and specifications; coordination of the bidding process; construction oversight & management; and remedial system shakedown & startup.