

Paul E. VanMiddlesworth

607 E. Lakeside Ave. - Coeur D Alene, ID 83814 - (208) 755-3002

prism.enviro@gmail.com

EXPERIENCE:

- Owner/Principal Geochemist of PRISM Environmental Services LLC, 2010 – Present.
- Perform site risk assessments to determine Remedial Action Objectives of LUST sites for Idaho Department of Environmental Quality and Petroleum Storage Tank Fund.
- Design and direct environmental drilling and monitor well construction, borehole logging, soil/groundwater sampling, multi-level piezometer installation, downhole-geophysics, and pump testing for hydrogeologic groundwater investigations.
- Develop and implement work plans for Phase I/II Environmental Site Assessments, Remedial Investigation/ Feasibility Studies (RI/FS), and hydrogeochemical studies at municipal, commercial, mining and oil/gas facilities to comply with state Department of Environmental Quality Cleanup Programs.
- Compile and upload soil and groundwater databases to Washington Department of Ecology, Environmental Information Management system.
- Prepare monthly NPDES Discharge Monitoring Reports at mining facilities and submit to Washington Department of Ecology.
- Perform Nutrient-Pathogen Studies to model fate and transport of nitrate compounds from proposed community septic systems.
- Perform hydrogeochemical modeling, geochemical forensics, bench-scale tests and column-leaching experiments to evaluate fate and transport of contaminants in groundwater systems and determine remedial action objectives.
- Manage in-situ soil vapor extraction systems, air sparging, and soil bioventing remediation at Fairchild's Air Force Base to comply with AFCEE requirements.
- Groundwater Research & Development at Hanford Nuclear Reservation, designing micro-measurement of water levels to enhance remediation of hexavalent chrome contamination in groundwater.
- Perform Phase I & II Environmental Site Assessments, locally and across the USA.
- Monitor water quality and soil remediation at NPL and Superfund cleanup sites.
- Perform Risk Assessments to determine human health and environmental exposure to hazardous or toxic substances.
- Spill Prevention, Containment, and Countermeasure (SPCC) tank inspections.
- Develop aqueous geochemical database and speciation models for Rare Earth Element chemical components in natural geothermal systems of the Idaho Batholith.
- AHERA Asbestos Inspection and Asbestos Management Planning for school districts.

EDUCATION:

M.Sc., Aqueous Geochemistry, University of Idaho, Moscow, 1996

B.Sc., Geology, University of Tennessee, Knoxville, 1992

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CERTIFICATIONS:

EPA AHERA Asbestos Building Inspector, *BI-2012-022, BIR-2020-02-0005*

EPA Asbestos Abatement Supervisor, *CAS-2012-016*

EPA RRP Lead Paint Renovator, *NAT-F184249-1*

Post Falls School District, AHERA Asbestos Management Planner, *DP20170304-1*

Idaho AGC Water Pollution Control Manager, *AGC-66-100708-2013*

ASTM Phase I & II Environmental Site Assessments Training

40-hour OSHA HAZWOPER Initial Site Worker & Confined Spaces

MSHA Mine Safety for Surface Mines & Confined Spaces

PUBLICATIONS:

VanMiddlesworth, P., S.W. Petersen, R.S. Edrington, R.O. Mahood, 2011. **Automated Water Level Measurements in Small-Diameter Aquifer Tubes at the Hanford Nuclear Facility.** *Waste Management 2011 Symposium*, Arizona.

VanMiddlesworth, P. and S.A. Wood, 1998. **The Aqueous Geochemistry of the Rare Earth Elements (REE), Yttrium, Thorium and Uranium in hydrothermal springs associated with the Idaho Batholith.** *Applied Geochemistry*, v.13, no.7, pp.861-884.

Wood, S.A., P. VanMiddlesworth, P. Gibson and A. Ricketts, 1997. **The Mobility of REE, U, and Th in Geological Environments of Idaho with Relevance to Radioactive Waste Disposal.** *Journal of Alloys and Compounds*, v.249, pp.136-141.

Oak Ridge National Lab., Tennessee. 1986. **Global Distribution of Radioactive ¹³¹Iodine in Thyroid Glands Following the Chernobyl Nuclear Accident.** July, 1986.

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WORK EXPERIENCE:

- 2010 – 2022 PRISM Environmental Services, LLC** **Coeur d’Alene, Idaho**
Owner/Principal Aqueous Geochemist
Asbestos inspections and testing for site mitigation and remediation. Application, investigation, implementation, and review of Phase I, II, and III Environmental Site Assessments. Water quality quarterly monitoring at superfund cleanup sites. Spill Prevention, Containment, and Countermeasure (SPCC) tank inspections. Facilitation and negotiation for EPA Brownfield Assessment funds. Procurement of drilling, excavating, and site monitoring activities for municipal and mining waste remediation projects. Compile and upload soil and groundwater data to Washington Department of Ecology, Environmental Information Management system.
- 2009 – 2010 CH₂M Hill Plateau Remediation Company** **Richland, Washington**
Associate Geochemist, Science & Technology Remediation Group
Research and development of innovative alternatives for soil and groundwater remediation at the 100-Area of Hanford Nuclear Site. Designed mini transducer probe for water level micro-measurements. Project planning, subcontractor procurement, and implementation of Work Plans to comply with EPA, DOE, DOD, and NRC environmental regulations. Develop techniques to refine remediation of hexavalent chromium in groundwater and assess plume migration.
- 2005 – 2009 Golder Associates** **Coeur d’Alene, ID / Spokane, WA**
Project Geochemist
Developed and implemented work plans for Idaho DEQ Voluntary Cleanup Program (VCP), Phase I/II Environmental Site Assessments, hydrogeochemical studies, Remedial Investigation / Feasibility Studies (RI/FS), monitoring schedules, and engineering specifications to assist municipal, private, state, federal, and tribal sectors. Prepared monthly discharge monitoring reports for NPDES compliance at local mining operations. Procurement support, including bid preparation, budget tracking, and subcontractor selection. Directed drilling and borehole logging, monitor well installation, water quality programs, and wetland delineation. Performed nutrient pathogen studies, health hazard risk assessments, and maintained analytical database records to demonstrate compliance with all required local, state, and federal regulations and authorities including CERCLA, RCRA, NEPA, CWA, USEPA, WDOE, SRCAA, and IDEQ.
- 2003 – 2005 URS Corporation** **Spokane, Washington**
Senior Geologist / Environmental Geochemist
Performed in-situ respiration testing, soil vapor monitoring, and AFCEE reports for soil bioventing remediation systems at Fairchild's Air Force Base. Maintained air sparging wells and SVE system at petroleum remediation sites. Developed project proposals, sampling and analysis plans (SAP), data quality objectives, quality assurance project plans (QAPP), health and safety plans (HASP), task schedules, and budget tracking for site investigations and hydrogeochemical assessments at RCRA Superfund sites, timber facilities, mines, oilfields, U.S. Air Force base, and Tribal sectors.

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- 2000 – 2003 GeoMega Environmental Consultants Boulder, Colorado**
Staff Geochemist
Designed remedial action objectives, anticipated budget needs, and scheduled field activities to monitor and evaluate fate and transport of contaminants in groundwater systems. Strategic planning and scheduling for field drilling and sampling activities, monitor well and multi-level piezometer installation, downhole-geophysics programs, and compliance reporting. Developed bid packages for multiple subcontractors and oversaw project tasks to completion. Negotiated technical work plans and environmental monitoring requirements with regulatory agencies and PLP groups for a variety of tasks at sites throughout the nation. Performed hydrogeochemical modeling, geochemical forensics, bench-scale tests and column-leaching experiments.
- 1998 – 2000 Brown and Caldwell Denver, Colorado**
Staff Geochemist
Managed Quality Assurance/Quality Control (QA/QC) programs for environmental sampling activities. Performed data validation, database management, task scheduling, budget tracking, and technical report generation. Directed geotechnical/environmental drilling, Phase I/II ESAs, borehole logging, soil/groundwater sampling, and soil excavation.
- 1997 – 1998 Environmental Management Consultants Grants Pass, Oregon**
Laboratory Technician / Environmental Geochemist
Prepared subcontractor bid packages, progress reports, and technical reports for environmental permitting and compliance at timber industries, mine sites, and municipal landfills. Operated and maintained laboratory analytical equipment, collected groundwater and stormwater samples, and performed data validation. Performed Phase I/II ESAs, asbestos abatement, and database management.
- 1992 – 1996 University of Idaho Moscow, Idaho**
Research Assistant / Teaching Assistant
Designed and developed aqueous geochemical database of chemical parameters and REE components found in natural geothermal systems of the Idaho Batholith, modeled rare earth speciation in Idaho natural waters using PHREEQC and SOLMINEQ92. Data validation, technical report writing, budget tracking, project execution, and laboratory analysis.
- 1987 – 1992 University of Tennessee Memphis, Tennessee**
Research Assistant
Designed and developed STRIP-I 88 computer model to correct radioactive ¹³¹Iodine spectra for natural ¹²⁹Iodine background levels found in cattle and sheep thyroid glands received from international locations to monitor worldwide distribution of radioactive iodine and thyroid cancer following the Chernobyl Nuclear Accident in Ukraine in 1986. Compiled global nuclear fallout data from 1952 through 1990 for University of Tennessee Physiology Department and World Health Organization.