

# KEN AMES, PG

## Senior Manager

Ken Ames is a hydrogeologist focussed on environmental and water resources issues, with over 20 years of consulting experience. He is currently working with private and public sector clients throughout the US and abroad and has managed numerous remedial investigations, involving soil, soil-vapour, and surface- and ground-water, as well as other extensive water-resources studies. Ken has considerable experience in the assessment of the fate and transport of various contaminants, especially trace metals and chlorinated compounds, including PCE, TCE, and PCBs. He also has considerable experience in environmental permitting, compliance management, and reclamation, as well as the selection of appropriate site remedies and, as part of which, he has developed in-situ technologies that may be utilized in a variety of settings to cost-efficiently remediate groundwater for various contaminants.



While with the U.S. Geological Survey, Water Resources Division, he was section head for water quality investigations for the Washington District. In this role he was also responsible for the Washington District Field Services Unit and Water Quality Laboratory. He also developed and conducted various surface- and ground-water-quality investigations for various Federal Agencies, including the USEPA, DOE, DOD, BIA, BLM, and BOM, as well as State and local agencies. Furthermore, his work in metals in soils and streambed sediment studies resulted in changes to State of Washington regulatory statutes and for which he is a recognized expert in background concentrations of metals in soils and sediments.

Ken has authored and co-authored numerous U.S. Geological Survey reports and other publications in various journals, conference proceedings, and technical magazines. He is also a member of various professional organizations and has received honorariums from various organizations, including the U.S. Geological Survey and the Uzbekistan Academy of Science. Ken has taught at the University of Delaware, lectured at San Diego State University, as well as at various conferences and proceedings, and he is currently conducting various training course through the Environmental Training Institute.

### CONTACT INFORMATION

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### CAREER

**President, SADG, Inc. (2007-2012)**  
**Executive Director, Environmental Training Institute (2008-2011)**  
**Adjunct Associate Professor of Geology, University of Delaware (2007-2008)**  
**Senior Geologist, Miller Brooks (2003-2006)**  
**Regional Manager, EFI (1999 – 2003)**  
**Water-Quality Investigations Section Chief, US Geological Survey, WRD (1991 – 1999)**

**EDUCATION**

**PhC, Hydrogeochemistry**  
 University of Washington, Seattle, WA, United States

**MS, Geology**  
 University of Idaho, College of Mines, Moscow, ID, United States

**BA, Geology**  
 Whitman College, Walla Walla, WA, United States

**COURSES/CERTIFICATIONS**

Professional Geologist, WA  
 HAZWOPER – Supervisor  
 Qualified Ground Water Consultant, USEPA  
 Certified Stormwater Mgt. Professional  
 Adult CPR and First Aid - American Red Cross, 2015

**PROJECTS**

**ASARCO, El Paso, TX: Expert Witness for ASARCO LLC vs. CEMEX, Inc., et al, case number EP-12-CV-155-PRM (W.D. Texas)**

Performed statistical analysis of selected metals in soils, and developed surface water to groundwater pathway for migration of cement kiln dust produced by CEMEX situated near the former El Paso ASARCO Smelter Plant and immediately up-gradient of the affected area of the USIBWC property that has been contaminated and is preparing to under-go an approximately \$20M clean-up effort. The analysis has been performed to determine whether there are other potential contributing sources of arsenic that resulted in elevated concentrations in and around the smelter, including a former CEMEX cement plant, and what is the range of equitable allocation. On March 31, 2014, ASARCO was awarded \$1.2M in summary judgment.

**Cause No. CV-2011-00380; Hanson v. Ashby, Oklahoma.** Designated expert on behalf of Hansen Aggregates in aggregate mine case for a site situated in south-central Oklahoma. Was deposed in Oklahoma City regarding geologic nature of site and potential for dolomite aggregate mining and associated water resources and permitting issues, and the trial is planned for later 2016 in Tulsa.

**Charter Communications, multiple locations, US.** Managed development and updates to SPCC Plans for more than 30 communications facilities at various locations throughout the US, as part of the merger and/or redistributions of communications sites with Time Warner.

**ECOPetrol S.A., Barrancabermeja Refinery, Colombia**

Project Manager working with the client to characterize and identify historic and potential current

releases of LNAPL at the refinery. Proposed investigative methods include: the use of Laser induced fluorescence to characterize the extent and composition of the LNAPL plume, which is as great as 4 meters in various locations; PIANO and chromatographic analysis of the hydrocarbons present; and the determination of the fractionation of stable isotopes ( $\delta^{13}\text{C}$ ,  $\delta\text{D}$ ,  $\delta^{18}\text{O}$ , and  $^{34}\text{S}$ ) to both fingerprint the various hydrocarbons present in the LNAPL and to use to determine the interaction between surface- and ground-water at the site and the resulting changes in the groundwater flow regime.

**UVOST/LIF Investigation of Petroleum-Contaminated Soils and Groundwater, FAA Facility, Northway, Alaska**

The Northway Staging Field is located in eastern Alaska near the Canadian border, approximately 285 air miles northeast of Anchorage and 240 air miles southeast of Fairbanks. The Northway Airport, which forms the west-central portion of the site, is located approximately seven miles southwest of the Alaska Highway along Northway Road. The Northway Staging Field Site consists of approximately 11.5 square miles in the vicinity of Northway Airport. The Northway Staging Field contains 52 areas of concern (AOCs). The U.S. Department of the Army originally acquired the Northway Staging Area from the Bureau of Land Management and the Civil Aeronautics Administration (which later became the FAA). Construction of the Northway airport began in the spring of 1941 and the air base served as a refueling and maintenance stop along the string of air bases used to supply troops stationed in Alaska and transport planes to the Soviet Union as part of the lend-lease program. In 2011, an investigation to delineate the lateral and vertical extent of petroleum contamination at four AOCs was conducted using the UVOST/LIF technology. Over two-hundred points were advanced to depths between about 12- and 24- feet below ground surface that resulted in a three-dimensional map of the respective contaminant plumes. This also allowed for the collection of soil samples to confirm the hydrocarbons present in the soil, document the elevated concentrations within the plume, and guide where best to collect lateral and vertical confirmation samples where the non-detect boundary of the plume existed. Also, various shallow groundwater monitoring wells were constructed, developed, and sampled to characterize the extent, if any, free-product and the quality of the shallow groundwater. Slug tests were performed and used to calculate hydraulic conductivity, which was used in conjunction with all the data to model the hydrocarbon risk (HRC model developed by the Alaska Department of Environmental Conservation) associated with the residual petroleum at the site.

**Equilon Enterprises dba Shell Products U.S., AZ and NM**

Project manager for numerous site investigations and corrective actions, including Tier 1 and Tier 2 Risk-Based Corrective Actions (RBCAs) at various current and former gasoline service station sites. Included in the Tier 2 RBCAs has been soil-gas to ambient air flux modeling.

**AIG, San Francisco, CA**

Performed technical oversight at a diesel spill in northern Arizona. More than 4,000 tons of petroleum contaminated soil was removed over a 160 acre area and more than 200 confirmation soil samples were collected.

**Enercon Services, Houston, TX**

Performed UST removal, consulting, and reporting services for a Wash Depot Carwash, Inc. site in Phoenix, AZ.

**El Granada Mobile Home Park, Half Moon Bay, CA**

Was assigned expert witness for a successful cost-recovery effort for the client, the owner of the mobile home park, against adjacent property owners. Also, the Senior Project Manager for an investigation of groundwater beneath a mobile home park that is contaminated with various chlorinated solvents and petroleum hydrocarbons.

**Lake Dorothy Hydropower Project, Alaska Electric Light and Power (AEL&P), Juneau, AK**

Provided environmental compliance management, surface water hydrologic, SWPPP and SPCC consulting services over three field seasons. Ken worked as the Environmental Compliance Manager on behalf of the Forest Service and FERC, as well as other Federal and state agencies, in conjunction with AEL&P to ensure that all site permits and plans were met and adhered to, along with all Federal and state regulations. As a result, activities also included oversight of post-construction reclamation, including the jet/injection grouting at the Bart Lake Dam that was performed to minimize leakage from the lake. The Lake Dorothy Hydroelectric Project was developed by the oldest utility company in the State of Alaska at a site located 17 air miles southeast of Juneau, Alaska. The Lake Dorothy Hydroelectric Project is the highest head hydro project in North America, with a lake elevation of 2,440 ft and a powerhouse located at sea level. The project generates 34.4 MW of electrical power to provide for the growing residential, business and industrial needs of Alaska's capital city.

**Washington State Metals in Soils Program**

Led program, initiated by the Washington State Dept. of Ecology, to establish baseline concentrations of metals in soils in areas of interest within Washington State. The occurrence of petroleum hydrocarbons and PCBs in soils were included as part of this program. Study areas included; a State-wide Reconnaissance, Clark County, the Yakima River Basin, the Spokane River Basin, and the Puget Sound Lowlands. Studies resulted in the most extensive set of background soil-chemical data for an individual state within the United States, with over 400 soil samples collected from various locations and depths, and analyzed to determine numerous chemical and physical parameters. This data was used by the Washington State Dept. of Ecology to refine the use of the Washington State Model Toxics Control Act (Ch 173-340-200 WAC). These studies resulted in a number of publications, including Ames and Hawkins (1997), Ames and Prych (1995), and San Juan and Ames (1994).

**Highway Stormwater Runoff, Dupont, WA**

Worked with the Washington State Dept. of Transportation to characterize the effects of highway storm-water infiltration basins on groundwater-quality. Infiltration experiments were undertaken to investigate an infiltration medium that could be used in retention basins to decrease the infiltration rate to between 5 and 10 in./hr and to also decrease the concentrations of some pollutants in highway runoff. Subsequent cylinder infiltrometer tests were then conducted using two of the media to gather additional infiltration rate estimates and to investigate the potential effects of the infiltration media on the water quality of highway runoff. The designed infiltration medium showed a decrease in the concentrations of dissolved copper, lead, zinc, and cadmium, as well as other constituents, in the treated water samples collected.

**Golden Star Resources, Bogoso, Ghana (located about 300 kilo-meters from Accra in the Prestea-Huni Valley District of the western region)**

Project and Client Manager for an audit of a process-water treatment system on behalf of Golden Star Resources, Ghana, West Africa. This also included the performance of bench-scale tests, resulting in recommendations for improvements to increase the efficacy of the treatment system. All test work was performed at the minesite in Bogoso, Ghana (located about 300 kilometers from Accra in the Prestea-Huni Valley District of the western region), in conjunction with personnel from the Water Division. A report submitted to the client of our findings, as well as our interpretation of the RO filter autopsy that was performed by a third party in South Africa. The client was very pleased with the services we provided and is continue to expand out engagement at the mine.

**Midnite Mine Groundwater Characterization and Water-Quality Monitoring, Spokane Indian Reservation, Stevens County, Washington**

Conducted various investigations to characterize the groundwater at Midnite Mine, as well as to establish natural baseline concentrations of radionuclides and metals in the undisturbed areas within the watershed surrounding minesite. This included collecting samples from seeps, springs, and streams under base-flow conditions in remote areas that were indicative of groundwater. The isotopic fractionation of hydrogen ( $\delta D$ ) and oxygen ( $\delta^{18}O$ ) in the water samples collected were used to determine the contribution from groundwater, following the Vienna Standard Mean Ocean Water (VSMOW) method as applied to surface- and ground-waters. Dissolved radon-gas in water samples, as well as the isotopic fractionation of selected radionuclides, was also studied to characterize the natural presence and degradation of dissolved uranium throughout the groundwater system. The isotopic fractionation of uranium was also characterized in a related study and both results of both studies can be found in Ames (1996) and Ames and others (1996).

**Reductive Precipitation of Uranium, Midnite Mine, Spokane Indian Reservation, Stevens County, Washington**

Performed various bench-scale tests on the use of zero-valent iron (ZVI) coupled with a bi-metallic catalyst to promote the reductive precipitation of uranium from groundwater collected from Midnite Mine. The use of the catalyst increased the efficacy of the reactions, thereby removing uranium from solution in less time than with the ZVI alone. This research also led to the preliminary development of the CRIPT™ (Catalytically Reductive In-situ Permeable Treatment) technology, whereby the uranium is removed from the groundwater solution in-situ through the use of ZVI and the proprietary catalyst by chemical injection within both the source area and at selected points down-gradient from the plume. This study resulted in a number of publications, including Ames and Matson (1997) and Ames and others (1996).

**Central and Southwest PCE Plumes, Chico, CA**

Program Manager for the Chico Central Plume Deep Aquifer Investigation and Intermediate and Deep-Aquifer Quality of Water Monitoring program and the Southwest Chico Plume Aquifers Investigation. These programs resulted in field investigations of two chlorinated solvents contaminant plumes that exceeded \$2M per year, two contributing source investigations that identified as many as 500 additional potential PRP's, and evaluations of plume stability that bolstered the client's position with the California EPA, Dept. of Toxic Substances Control toward accepting Natural Attenuation as a remedial action plan.

**Murray Energy, St. Clairsville, Ohio.** Working with legal counsel, Troutman Sanders, was one of five managers tasked as part of a large concentrated effort to critique components of the proposed Office of Surface Mining Stream Protection Rule and the Draft EIS used, along with other documents, to support changes to the existing rule. After a preliminary examination of the DEIS and other supporting documents, I was tasked along with Dan Price to coordinate and conduct a technical critique of "*Appendix D – Analysis of Potential Impacts to Underground Mining Operations*" (hereafter referred to as Appendix D), appearing as part of the RIA of the SPR. The technical comments of Experts, which consisted of personnel both within RambollEnviron and with two other firms, focused on the adequacy of the impact analysis and completeness of the underlying scientific foundation presented in Appendix D.

**ASARCO, Van Stone Mine, Colville, WA**

Project manager for a site investigation to characterize the presence of selected priority pollutants in soil and surface water for various areas, including the west-end pit, waste rock piles, former millsite, and the lower tailings pile and pond. The Washington State Department of Ecology (Ecology) identified Equinox, as well as others, as responsible parties for cleanup at the Site. The

contaminants of concern (COCs) include arsenic, cadmium, copper, lead, mercury and zinc in soil, solid mine waste material and sediments, and arsenic, cadmium, and lead in surface water and groundwater at the Site. To assess COCs in soil and surface water at the Site, resulting from historic mining operations performed by responsible parties in addition to ASARCO, such as Equinox, it was necessary to collect representative samples from the four areas described above.

**Eagle Industrial Minerals, Prince of Wales Island, AK**

Provided environmental, stormwater management, and other permitting consulting services for a high-grade iron ore minesite located approximately 30 miles northwest of Ketchikan, Alaska. The site is located on both patented and federal land, so coordination with both Federal and State regulatory agencies was required. A stormwater capture, conveyance, and treatment systems were designed for a proposed 65-acre area of development that receives more than 100 inches of precipitation annually. Also, fish passage channels were designed to maintain at least 2-inches of water in the channel, discharge events of only 2 cubic-feet per second (cfs) but could handle events as great as 500 cfs, while maintaining a bed load of at least 0.67-inches in diameters to preserve salmon spawning habitat.

**Talen Energy, Potential Acquisition of GDF Suez Portfolio in North America.** Provided Hydropower expertise and environmental due diligence support for large potential energy acquisition of multiple energy producer facilities, primarily in the northeastern US. This included numerous hydropower facilities, many of which are currently undergoing FERC re-licensing, where the potential known and contingent liabilities were analyzed and quantify for the client.

**ESCO Foundry Facility, Port Coquitlam, British Columbia, Canada.** Provided remedial cost estimating expertise for various approaches and scenarios associated with the potential sale and redevelopment of a historic foundry located just east of Vancouver, BC. Effort required developing expertise in risk- and non-risk-based industrial site cleanup requirements in BC, along with the development of remedial construction costs.

**Buckhorn, Inc., New Idria Mine, near Hollister, California.** Part of the project management team for a long-term RI/FS effort for the historic New Idria mercury mine, which recently became a NPL site. Primary focus will be on surface water chemistry and surface- and ground-water interaction, related to on-going mine discharge and AMD.

**Lehigh Hanson Quarry, North Vernon, IN**

Provided technical support for the evaluation of water storage potential, residual mineral resources, and for any other uses such as a landfill for a quarry owned by Lehigh Hanson, near North Vernon, Indiana. This quarry is the subject of condemnation proceedings for the purpose of constructing a highway and the City of North Vernon is interested in using the quarry pit as a raw water storage facility in order to ensure sufficient future water supplies for the City. The appraisal of the property and its associated mineral rights and other potential uses will be important in determining the overall value of the property as it should be used in its highest and best use, in addition to potential water storage.

**ENI, Milan Italy**

US Project manager worked in cooperation with ENVIRON-Milan to determine both on- and off-shore discharge water-quality standards for oil and gas, exploration and production in more than 15 countries, including Kazakhstan, Azerbaijan, and Russia, that ENI has active interests or is pursuing potential development.

**Frendo Facility, Orzinuovi, Italy**

Provided support to various expert witnesses, regarding the remediation of on-site waste disposal units at a former brake shoe manufacturing facility near Milan, Italy. Reviewed reports and depositions associated with the case and provided assistance to legal counsel in the preparation of the cross-examination of opposing expert witnesses. Frendo Facility, Orzinuovi, Italy: Provided support to various expert witnesses, regarding the remediation of on-site waste disposal units at a former brake shoe manufacturing facility near Milan, Italy. Reviewed reports and depositions associated with the case and provided assistance to legal counsel in the preparation of the cross-examination of opposing expert witnesses.

**The Center for Natural Lands Management (CNLM) of Close-In Training Area – F, located in Joint Base Lewis-McCord, Gray Army Airfield, Dupont, Washington.** Project manager for an ecological land assessment. The Site area was identified by CNLM as a mitigation area for planned construction activities, with the goal to create nesting habitat for the streaked-horned Lark (SHL) and thereby compensate for development impacts on the airfield. The project consisted of an evaluation of on-site hydrology and topography, coupled with an estimation of debris that consisted of slabs of concrete, barbed wire, fencing, and large rock piles, that would need to be removed in order to create a suitable habitat for the SHL. As a result, the project consisted of on-site field evaluation, the collection of GPS coordinated, and mapping, along with the preparation of GIS and other mapping products that were included in a report with recommendations made by senior wildlife personnel to assist CNLM in the planning of a SHL habitat for the area.

**Willits Trust, Willits, CA**

Project member for the remedial investigation of the former REMCO Hydraulics facility. The Willits Trust was established in 1997 by order of the Federal Court to comply and cost-effectively conduct all investigative and remedial work at the former facility. REMCO hydraulics was an industrial machining and manufacturing business that operated from 1945 to 1996. The results of numerous environmental investigations showed that the soil and groundwater at the facility were contaminated with chromium, VOCs, and petroleum hydrocarbons, much of it stemming from leaks from the eight vertical tanks used for chrome-plating of large-scale hydraulic components.

**Confidential Client, NW AR**

Was involved in a cost-recovery case that involved a former chrome-plating facility. Soils and groundwater were contaminated with various metals, including chromium and nickel, and posed a significant threat to a nearby stream. Site remedial costs are estimated in excess of \$2.5M, fortunately more than \$10M in historic insurance coverage has been identified.

**Northwest Industrial Services Facility, Portland, OR**

Senior Project Manager for a RI/FS, pursuant to two Oregon Department of Environmental Quality Orders, at a former disposal facility for Northwest Industrial Services located in Oregon City. The contaminants of concern are both VOCs and trace metals associated with industrial grade paints. A clear and expedient remedy for the site has been negotiated on the client's behalf and site closure is imminent.

**Former International Paper Facility, San Jose, CA**

Senior Project Manager for a Preliminary Site Assessment for the current owner of a former IP facility, which is now used for various industrial purposes. Successfully negotiated with both IP and local regulator the scope of work needed to fully characterize the extent of contamination in both soils and groundwater from various metals, chlorinated solvents, and petroleum hydrocarbons, to lead a cost-recovery effort against former owners of the property.

**Pneumo-Abex Aerospace Co., Oxnard, CA**

Project member responsible for Treatability Study Workplan, as part of remedial measures at this former aerospace manufacturing facility. The site activities were conducted under an Administrative Order and a lawsuit and the use of innovative in-situ treatment technologies to remove various chlorinated solvents from groundwater solution were researched and presented to the client for consideration. Overall the services provided were directly responsible for savings of over \$1M and provided the client with strict cost control and project management measures.

**Fuller-O'Brien Paints, San Francisco, CA**

Project member for a soil and groundwater investigation at a paint manufacturing facility, under a RCRA 3008h Order. The facility operations dated back to the late 1800's. The project involved the evaluation of past facility operations, closure of surface impoundments and SWMUs, design and implementation of lead and SVOC impacted soil and evaluation of ecological risk in sensitive wetland and bay margin environments. Innovative regulatory approach utilized the CAMU policy to stabilize impacted soils and save the client tens of thousands of dollars in remedial costs.

**Confidential Client, Baltimore, MD**

Performed Phase I and II Environmental Site Assessment and asbestos survey for a 10-acre redevelopment site in East Baltimore. The site is an active trucking facility with various contaminant issues, including metals and petroleum products in soils and chlorinated solvents in the groundwater.

**Arlington County, Arlington, VA**

Performed extensive environmental site assessment and groundwater investigation at a site comprised of multiple businesses, including a former Chrome plating facility, which the county plans to acquire and redevelop.

**Confidential Client, Baltimore, MD**

Consulted a former paint manufacturer to redevelop a brownfields site. Identified more than \$15M in historic insurance coverage to address site assessment and cleanup issues. The site included a resin plant and contaminants range from lead to chlorinated solvents.

**Confidential Client, Los Angeles County, CA**

Was assigned expert in on-going brownfields site cost-recovery case. The case involves the development of an environmental forensic case against two fortune 500 firms.

**Quality of Groundwater Investigation, Puyallup Indian Reservation, Tacoma, WA**

Project Manager for an extensive evaluation of the quality of drinking water from shallow domestic wells held by Tribal members. Study found various wells impacted by various contaminants, including VOCs and fecal coliform.

**Willamette River Basin Contaminants Study, Portland, OR**

Principal reviewer for an investigation of sediment oxygen demand (SOD) at the interface of the stream and stream bed was performed in the lower Willamette River (river mile 51 to river mile 3) during August, 1994, as part of a cooperative project with the Oregon Department of Environmental Quality. The primary goals of the investigation were to measure the spatial variability of SOD in the lower Willamette River and to relate SOD to bottom-sediment characteristics.

**Excursion Inlet Proposed Hydropower Project, The Haines Borough, near Gustavus, AK**

Currently project manager for two-part investigation that consists of a preliminary fish habitat study, with the second half focused on a reconnaissance of: resources identification and analysis; land use, permitting, and environmental analysis; preliminary engineering design and costs analysis; cost of

energy and market analysis; and a simple economic analysis. Ken is continuing to work with the Haines Borough to advance the project to the next stage of investigation.

**Soule River Proposed Hydropower Project, Alaska Power and Telephone, Hyder, AK**

Involved in the Preliminary EA for the proposed Soule River Hydropower Project, including sediment transport analysis and modeling, as well as 3-D modeling of the geometry and salinity distribution of the Portland Canal at the outflow from Soule River. The proposed project would consist of: 1) a proposed concrete dam with a maximum height of 200 feet; 2) a proposed storage reservoir with a normal water surface area of 917 acres, a gross storage capacity of approximately 74,000 acre-feet and an active storage capacity of approximately 60,000 acre-feet; 3) a proposed 12' diameter, 12,100' long tunnel; 4) a proposed powerhouse with a total installed capacity of 42 MW; 5) an open channel tailrace; 6) a 35-kV submarine cable approximately 9.72 miles long connected to an interconnection with the existing transmission system in Hyder, and 7) appurtenant facilities. The project would have an estimated annual generation of approximately 155 gigawatt-hours.

**Proposed Thayer Creek Hydropower Project, Alaska Power and Telephone and Kootznoowoo Native Corporation, Admiralty Island, AK**

Currently have installed and maintaining a stream gage for the lower extent of the creek. Also, provided technical support, including interpretation of National Monument Boundaries by USGS, Mapping Division, to the Kootznoowoo Native Corporation. The focus of this project is to develop a small hydropower project for to the community of Angoon, AK.

#### MEMBERSHIPS

North American Institute of Earth Science Professionals, Chairman  
Alaska Miners Association, Member  
American Institute of Hydrology, Speaker and Honorarium  
Geological Society of America, Speaker  
Uzbekistan Academy of Science, Honorarium

#### SELECTED PUBLICATIONS

- Ames, Kenneth C., 1996, The enrichment of dissolved and suspended uranium-234 in water from springs, seeps, and streams near Midnite mine, Stevens County, Washington. IN Powell, J. D., editor, *Water sustaining a critical resource: American Institute of Hydrology, Third USA/CIS Joint Conference on Environmental Hydrology, Tashkent, Uzbekistan*, p. 182-186.
- Ames, Kenneth C.; Hawkins, Daniel B., 1997, *Statistical analysis and areal trends of background concentrations of metals in soils of Clark County, Washington: U.S. Geological Survey Water-Resources Investigations Report 96-4252*, 136 p.
- Ames, Kenneth C.; Matson, Noah P., 1997, The quality of ground water and the potential use of in-situ remediation technologies at Midnite mine, Stevens County, Washington [abstract]. IN *Inland Northwest Water Resources Conference, Program and abstracts: Inland Northwest Water Resources Conference*, [1 p., unpaginated].
- Ames, Kenneth C.; Matson, Noah P.; Suzuki, Debra M.; Sak, Peter B., 1996, *Inventory, characterization, and water quality of springs, seeps, and streams near Midnite mine, Stevens County, Washington: U.S. Geological Survey Open-File Report 96-115*, 53 p.
- Ames, Kenneth C.; Prych, Edmund A., 1995, *Background concentrations of metals in soils from selected regions in the State of Washington: U.S. Geological Survey Water-Resources Investigations Report 95-4018*, 103 p.
- San Juan, Charles F.; Ames, Kenneth C., 1994, *Background metal concentrations in soils of Washington State [abstract]: Geological Society of America Abstracts with Programs*, v. 26, no. 7, p. A-102.