

## **Janine S. Arvizu, CQA**

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### **EXPERIENCE SUMMARY**

Janine Arvizu is a chemist, auditor, and quality professional with more than 35 years of technical, program management, and training experience in laboratory operations and management, quality assurance, and interdisciplinary analytical programs. She has developed and managed organizational and programmatic quality programs, and has extensive experience in the quality assessment of laboratories and analytical data.

### **EDUCATION**

ABD Chemistry (All but Dissertation, Ph.D. candidacy) University of New Mexico  
B.S. Biochemistry with honors, California Polytechnic State University at San Luis Obispo

### **QUALIFICATIONS**

American Society for Quality, Senior Member and Certified Quality Auditor (#19856)  
Trained ISO Lead Auditor  
Member, American Chemical Society  
Voting member, ASTM International (in E11 Quality and Statistics, and E30 Forensic Sciences)  
Department of Energy Q clearance (inactive)  
Continuing Education lecturer

### **EMPLOYMENT HISTORY**

QUALITY CONSULTANT, CERTIFIED QUALITY AUDITOR Independent Contractor	2002-PRESENT
PROGRAM MANAGER/WATER QUALITY LABORATORY Albuquerque Bernalillo County Water Utility Authority	2009-2013
QUALITY MANAGER Public Service Company of New Mexico	1999-2009
SENIOR TECHNICAL CONSULTANT Consolidated Technical Services, Inc.	1991-2001
SCIENTIFIC SPECIALIST; UNIT MANAGER; SENIOR SCIENTIST; SCIENTIST EG&G Idaho, Inc., Idaho National Engineering Laboratory	1981-1991

### **AREAS OF EXPERTISE**

Theoretical and practical applications of laboratory quality assurance; laboratory and data audits; quality standards for laboratory operations (ISO 17025); laboratory accreditation and proficiency testing programs; production laboratory operations, management, and assessment; method validation; field quality control; interdisciplinary programs; and independent oversight of testing programs.

## PROFESSIONAL EXPERIENCE

- Developed and authored the Quality standard for testing laboratory support to U.S. Navy's Installation Restoration Program. Served as Program Manager for the Quality Assurance Program. Managed the independent evaluation of ~70 testing laboratories nationwide, using on-site audits, reviews of quality documentation, and blind proficiency testing. Made final recommendations for laboratory approval.
- Personally planned and served as Lead Auditor for quality system audits and technical audits of dozens of testing laboratories (commercial and federal); included reviews of analytical chemistry, bioassay, radioanalytical, and research laboratories. Evaluated compliance with laboratory quality standards.
- For large federal projects involving millions of dollars of analytical work, evaluated the technical and production capabilities of proposed laboratories in relation to project-specific technical and quality objectives. Evaluated the technical acceptability of proposed sample preparation and determinative procedures, and assessed the adequacy of the laboratory's method validation.
- Conducted independent quality assessments of results reported by government and commercial forensic laboratories; areas reviewed include: sampling, toxicology, controlled substances, trace evidence, serology, DNA, blood alcohol, ballistics, latent prints, and gunshot residue. Under court order, observed forensic testing. Provided sworn testimony in depositions, hearings and trials in state, federal, and international courts.
- Developed, documented, and implemented a complete laboratory quality management system (including document control, personnel competence, corrective action, internal audit, record management, measurement traceability, reference materials, and assuring the quality of test results), and successfully achieved and maintained A2LA accreditation to ISO 17025.
- For the Department of Energy, established and managed one of the first full service analytical testing laboratories that handled radiologically contaminated samples. Responsible for overall laboratory management, including production, quality, safety, environmental and radiological controls; acquisition, maintenance, and management of staff, instrumentation, and new and renovated laboratory facilities; method development and validation, and preparation, review, approval, and implementation of quality and operating procedures.
- Coordinated the collection of split referee samples during the investigation of criminal environmental practices at the Rocky Flats Plant.
- Provided technical reviews of Quality Assurance Project Plans and Sampling and Analysis Plans for characterization programs at federal sites nationwide; evaluated compliance with applicable quality requirements.
- During the course of on-site audits, identified evidence of fraudulent practices and misrepresentation by analytical laboratories. Provided technical support to a federal investigation of fraudulent laboratory practices.
- Planned and conducted unannounced on-site audits in response to serious data quality concerns or project-specific requirements.

- For the Department of Energy, chaired an independent Advisory Panel for the high level tank waste characterization program at Hanford; coordinated interdisciplinary Panel reviews of management, programmatic, quality, sampling, and laboratory issues; coordinated Panel activities with the National Academy of Sciences subcommittee reviewing the tank program, and with Defense Nuclear Facilities Safety Board findings.
- Conducted and directed technical reviews and data quality assessments for large data sets (thousands of samples for dozens of parameters) from large measurement programs. Data subject to review included routine (trace level organics and inorganics, classical testing) analytical measurements, as well as radiochemistry, fuels, alkyltins, high explosives, and other unusual parameters. Identified serious data quality problems, including false positives and false negatives.
- Co-chaired (as DOE's representative) an annual interagency (DOE/DOD/EPA) analytical quality assurance conference.
- Provided or managed independent reviews of remediation project planning and reporting documents for federal sites nationwide. Assessed project data quality requirements to determine whether they were acceptable and achievable. Evaluated proposed analytical strategies to determine whether they would satisfy project objectives. Reviewed proposed analytical methods and specified QC criteria. Identified and reported deficiencies, omissions, and opportunities for improvement. Identified flawed sampling strategies and technically inappropriate sampling or analytical procedures.
- Planned and directed the initial development of a DOE-wide sampling, analysis, and quality assurance plan for characterization of transuranic wastes destined for emplacement in the Waste Isolation Pilot Plant (WIPP).
- Designed and implemented a concise, electronically generated data reporting format to streamline technical reviews of large quantities of laboratory quality control data, and to allow effective integration and interpretation of instrument and method performance data with field data collected under related spatial or temporal conditions.
- Chaired analytical subcommittee supporting the Department of Energy in the identification and prioritization of environmental problems at DOE sites across the country.
- Chaired the Department of Energy's Future Analytical Support Team chartered with developing a strategy to ensure adequate capacity of high quality analytical services; identified and assessed critical analytical and quality issues impacting analytical support.
- Developed sampling and analysis plans for characterization of chemical and radiological contaminants in airborne discharges, waste sites, process effluents, groundwater, and surface soils
- Developed and presented quality assurance courses, lectures, and workshops to provide continuing education and training for laboratory technicians, engineers, scientists, lawyers, and judges. Subjects include: laboratory quality assurance; quality control practices; contamination control; data quality assessment; laboratory audits; process management and assessment; quality tools; root cause analysis; characterization strategies; and field quality control practices.