

Manon Tanner-Dave

Project Scientist



Education and Credentials

M.S., Environmental Science,
Oregon Health & Science
University, Portland, Oregon,
2002

B.S., Chemistry, Pacific
University, Forest Grove, Oregon,
2001

A.A., General, Modesto Junior
College, Modesto, California,
1998

Continuing Education and Training

Confined Space Entry Awareness
Course (2007)

Red Cross CPR (2007) and First
Aid Training (2004)

Hazardous Waste Operations and
Emergency Response 40-Hour
Certification (2004; refreshers
current)

Oregon Department of
Transportation Training (2009)

Professional Profile

Ms. Manon Tanner-Dave is a chemist with 15 years of experience providing support in project and data quality assurance. She has extensive experience writing field sampling plans and quality assurance project plans (QAPPs) related to a variety of environmental media for both state and federal regulatory agencies, including Alaska Department of Environmental Conservation, Washington State Department of Ecology, EPA Regions 6 and 10, and the U.S. Army Corps of Engineers. She specializes in environmental chemistry and is experienced in data validation for organic and inorganic data using EPA's functional guidelines for data validation. She has coordinated analytical laboratory activities and works closely with clients, project teams, and laboratories to resolve any data quality issues, such as background contamination or analytical interference. In addition, Ms. Tanner-Dave is knowledgeable of many analytical methods for environmental matrices, including EPA SW-846, Standard Methods for the Examination of Water and Wastewater, and ASTM International standards.

Relevant Experience

Portland Harbor Superfund Site Remedial Investigation/Feasibility Study, Portland, Oregon— Assisted in the development of QAPPs and several QAPP addenda for an extensive list of organic and inorganic analytes of interest in soil, sediment, tissue, surface water, and groundwater. Prepared letters of authorization to participating analytical laboratories and data validation firms and assisted with budget projections. Coordinated and oversaw all analytical laboratory services and assisted in sample collection and shipment of samples to the analytical laboratories. Worked closely with the analytical laboratories on analytical method modifications needed for some problematic environmental matrices. Evaluated data and assisted in preparing field sampling reports and data quality assurance reports.

Blood Lead Biomonitoring Study, Rico, Colorado— Assisted in developing a biomonitoring study for a former lead mining town in Colorado. Prepared a QAPP for the study, coordinated field activities with the analytical laboratories, validated analytical results, and prepared a quality assurance data report. Sampled media included blood, house dust, drinking water, and paint. Results of



this study were used to evaluate seasonal fluctuations of blood lead levels in town residents and to assess the effectiveness of soil remediation efforts.

Former Chemical Manufacturing Facility, Portland, Oregon—Drafted QAPPs in support of interim and remedial measures for stormwater as well as post-construction stormwater monitoring for site-specific organic and inorganic analytes of concern. Coordinated laboratory analyses of samples. Reviewed and validated analytical results from stormwater interim and remedial measures, and post-construction stormwater monitoring of site-specific organic and inorganic analytes of concern. Prepared data quality assurance reports summarizing data results.

Post-construction Groundwater Monitoring Program, Smelertown Superfund Site, Operable Unit No. 1, Salida, Colorado—Provided data validation services for a groundwater monitoring project. Analytes of interest included select metals and semivolatile organic compounds. Provided a data validation summary report.

Subslab Gas Sampling, Milwaukie International Way Site, Milwaukie, Oregon—Participated in semiannual subslab gas sampling. Soil gas probes were installed and sampled following EPA guidance, *Standard Operating Procedure (SOP) for Installation of Sub-Slab Vapor Probes and Sampling Using EPA Method TO-15 to Support Vapor Intrusion Investigations*. Reviewed and validated analytical results from subslab air samples that were collected and analyzed according to EPA Method TO-15. Provided a data quality summary report for each sampling event.

Human Health Risk Assessment at Smelter Facility, La Oroya, Peru—Assisted in developing a human health risk assessment for an active smelter. Prepared a study QAPP, coordinated field activities with the analytical laboratories (international and domestic), validated analytical results, and prepared a quality assurance data report. Also participated in one of two field sampling efforts in the community surrounding the smelter to characterize exposure media, including drinking water, surface soil, outdoor dust, and dust in homes. These data were combined with biomonitoring and dietary intake data for the population and air dispersion and deposition modeling results to complete the human health risk assessment. For this project all communications occurred in Spanish.

Semiannual Groundwater Sampling at a Former Wood Waste Disposal Landfill, Oakridge, Oregon—Collected groundwater and surface water samples at a former wood waste landfill site. Analyzed field and analytical data to modify an existing environmental monitoring plan for the site that included a reduced list of analytes.

Water Quality Monitoring for Mining Site, Ketchikan, Alaska—Prepared QAPPs in support of routine monitoring of surface water and groundwater quality, and quarterly monitoring of the wastewater treatment facility effluent for the site barge, which houses onsite employees. Reviewed and validated analytical results from quarterly groundwater, surface water, and wastewater treatment facility effluent from the site barge. Assisted with quarterly and annual data evaluation, reporting, and development of a database for analytical results.



Volcanogenic Massive Sulfide Project, Alaska—Prepared a QAPP using Alaska Department of Environmental Conservation guidance in support of assembling a sufficient data set to define baseline conditions for target analytes in surface water. Analytes of interest included conventional parameters, cations/anions, and total/dissolved metals. Baseline water quality data were used to characterize water quality typical of the project area prior to any potential underground exploration or mine development. Monitored laboratories' progress on sample analyses. Reviewed and validated analytical results from baseline water quality testing. Provided data quality reports summarizing analytical results and assisted with development of a database for analytical results.

Glenbrook Nickel Site, Coos Bay, Oregon—Provided data validation services for sediment samples submitted for total organic carbon, grain size, and nickel analyses for site investigation purposes. Responsible for providing a data quality summary report of all analytical results.

Groundwater and Wastewater Sample Data Validation, Blackwell, Oklahoma—Reviewed and validated total and dissolved cadmium, lead, zinc, calcium, and magnesium results from groundwater samples. Reviewed and validated cadmium, lead, and zinc results from wastewater treatment plant influent samples. Reviewed and validated cadmium, lead, zinc, naphthalene, and select volatile organic compound results from groundwater treatment facility samples. Assisted with quarterly and annual reporting of analytical results.

Formerly Used Defense Sites—Performed data validation for munitions-related constituents. Provided data validation reports for each area of concern. Delegated role as lead data validator and performed senior review of data validation results and data validation reports.

Deepwater Horizon, Gulf of Mexico—Worked in conjunction with the Cardno ENTRIX team in responding to the Deepwater Horizon accident and oil spill in the Gulf of Mexico on behalf of BP Exploration & Production Inc. Provided support to the chemistry technical working group in quality assurance review activities and data completeness tasks. Primarily validated data and provided data validation review support according to project-specific quality assurance plan specifications.

