

Brianne Duncan Scientist

Professional Profile

Ms. Brianne Duncan is a Scientist in Exponent's Environmental Sciences practice. At Exponent, she provides project support with data entry, compiles documents for expert reports, reviews depositions, organizes large amounts of information in both Excel and Access formats, aids with project proposal preparation, performs internet searches, and contributes content and editing efforts to expert reports, presentations, and deliverables, and organizes both archived and ongoing project documents. While at Seattle University, she worked with the Biology Department in the classification of a new species of Nemertean worm, *Baseodiscus littmani* (publication pending). This required the use of both genetic and morphological data.

Academic Credentials and Professional Honors

B.S., Biology, Seattle University, 2007

Licenses and Registrations

40-Hour Hazardous Waste Operations and Emergency Response – HAZWOPER, 2008
8-Hour OSHA Annual Refresher, 2009–2011

Project Experience

Contaminated Site Responsibility Allocation

Was an integral part of organizing and tracking company histories and lineages to determine responsible parties. This required cross-referencing information from many different sources. It also involved determining relevant site factors that required inclusion in the allocation process.

Reviewed an FYI Concordance document database to extract data related to effluent flow and inorganic constituent concentrations for municipal wastewater treatment facilities and selected privately owned locations.

Metal Mining Effluent Regulations

Searched for and compiled information pertaining to mining effluent regulations applicable to inorganic constituents (e.g., arsenic, copper, lead, mercury, zinc, etc.) in Canada, the United States, Mexico, Chile, Peru, and Australia. Also identified regulatory and enforcement drivers pertaining to wastewater pre-treatment and discharge in each country.

Database Management

Participated in the creation of a database that dealt with over 90,000 lab results. Both sampling results and field notebooks were taken into account and linked internally.

Searched for data incompatibility issues and planned resolutions relating to sampling and monitoring events managed by EPA's Scribe database.

Assisted in individual project database organization and document entry, facilitating a more efficient document retrieval method, and contaminated site information compilation.

Performed large database exports from governmental agencies including U.S. Geological Survey, National Oceanic and Atmospheric Administration, Environmental Protection Agency, Centers for Disease Control, Washington State Department of Ecology, U.S. Army Corps of Engineers, New Jersey Department of Environmental Protection, and Environment Canada.

Litigation

Assisted in document preparation for intra-articular pain pump litigation and expert report development.

Reviewed asbestos case plaintiff depositions, Social Security records, and answers to interrogatories in order to provide resulting summary reports to experts.

Literature Reviews

Helped in the research and development of an article comparing colorectal cancers/adenomas, study type, and metabolic syndrome (publication pending).

Performed initial article searches on PubMed and Embase to determine the scope of information available on a variety of topics. Aided in creating forms to streamline the data abstraction process and manage abstracted data. Executed data abstraction on hundreds of journal article publications, presentation and poster data, as well as government publications.

Proposals

Aided in the preparation of several project proposals for literature reviews on such subjects as mercury uptake in trees from soil, ambient, or alternative sources and potential bioremediation pathways, chronic obstructive pulmonary disease (COPD), idiopathic pulmonary fibrosis (IPF), cystic fibrosis (CF), acute respiratory distress syndrome (ARDS), systemic lupus erythematosus (SLE), pediatric and elderly respiratory syncytial virus (RSV), influenza B, medical device risk assessment regarding hepatitis B transmission, and the revision of and infectious lab's Biological Exposure Control Plan (BCEP), Accident Prevention Program (APP), and Emergency Management Plan (EMP).