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**Education and  
Credentials**

M.S. Environmental Science,  
Trinity College Dublin, Dublin,  
Ireland, 2018

B.S., Geoscience, University of  
Utah, Salt Lake City, Utah, 2015

**Continuing Education  
and Training**

Hazardous Waste Operations and  
Emergency Response 40-Hour  
Certification (2019; refresher  
2020)

**Professional Profile**

Ms. Claire O'Donnell is an associate scientist with an educational background in geochemistry and geology. Professionally, she is experienced in data analysis, field sampling, and regulatory oversight of CERCLA sites. She has analyzed and interpreted data using GIS, MatLab, and RStudio. Ms. O'Donnell has worked on numerous field sample collections involving a variety of media, including surface water, groundwater, sediment, benthic macroinvertebrates, and terrestrial plants.

**Relevant Experience**

**Monitoring and Compliance, Colorado**—Managed and provided technical expertise, oversight, and quality control on environmental permitting and compliance projects. Conducted field inspections, monitoring, environmental sampling, and field survey work.

**Ogden Swift Building Removal, Ogden, Utah**—Representative for the Utah Department of Environmental Quality on the Ogden Swift Building EPA Response. Communicated with EPA stakeholders and coordinated with Ogden City officials. Sampled surface water and the combined waste stream to determine if discharge was viable.

**Technical Report Writing, Utah**—Supported multiple projects in Utah to determine CERCLA viability. Completed preliminary assessments and site investigations for various sites ranging from dry cleaners to landfills.

**XRF Sampling, Utah**—Strategically took *in situ* field measurements and verified results to help delineate the extent of contamination from a lead smelter.

**Groundwater Sampling, Colorado, Utah, and Wyoming**—Collected groundwater samples using bailers and peristaltic pumps. Processed, packed, and shipped samples for laboratory analysis. Assisted in post-fieldwork data processing and analysis.

**Experimental Study of Calcite and its ability to uptake La, Nd, and Dy**—Examined the ability of calcite to uptake lanthanum, neodymium, and dysprosium from solution. Results were determined using SEM, XRD, LA-ICP-MS, and white light interferometry.



*River Investigation, Ireland*—Collected surface water, benthic macroinvertebrate, and sediment samples in a source-to-sink investigation. Measured flow rates, temperature, pH, redox potential, dissolved oxygen and conductivity *in situ*. Analyzed samples for dissolved reactive phosphorous, organic nitrogen, total suspended solids, total dissolved solids, and evaluated the status of the river.

## **Publications**

O'Donnell, C., and J.D. Rodriguez-Blanco. 2018. Experimental study of calcite and its ability to uptake La, Nd, and Dy. Thesis. Trinity College Dublin, Dublin, Ireland

O'Donnell, C., and M.G. Davis. 2015. Projections of Heat Storage in the Continents. Thesis. University of Utah, Salt lake City, UT.

## **Presentations/Posters**

O'Donnell, C., and M.G. Davis. 2016. Projections of Heat Storage in the Continents. Undergraduate Virtual Poster Showcase, AGU Showcase, Washington, DC.

