

## Abigail Rudd

### Trace Metals Group Lead

<b>Primary Responsibilities</b>	<i>Supervising the Trace Metals staff to ensure that all client samples are prepared and analyzed according to Brooks Applied Labs standard operating procedures, ensuring quality results and data are produced by the group in a timely manner, sample analysis by ICP-MS, primary review of ICP-MS data, instrumental troubleshooting, and analyst training.</i>
<b>Education</b>	M.S., Geological Engineering, <i>University of Utah</i> , 2010 B.S., Geological Engineering, <i>University of Utah</i> , 2007
<b>Employment</b>	Trace Metals Environmental Group Lead, <i>Brooks Applied Labs, LLC</i> , December 2019 – present Trace Metals Chemist, <i>Brooks Applied Labs, LLC</i> , June 2013 – December 2019 ICP-MS Analyst, <i>Advanced Laboratories, Inc.</i> , 2011 – June 2013
<b>Publications</b>	<p>William P. Johnson, Neil Swanson, Brooks Black, Abigail Rudd, Greg Carling, Diego P. Fernandez, John Luft, Jim Van Leeuwen, Mark Marvin-DiPasquale. Total- and methyl-mercury concentrations and methylation rates across the freshwater to hypersaline continuum of the Great Salt Lake, Utah, USA. <i>Science of The Total Environment</i>. (2015). Volume 511, Pages 489-500.</p> <p>Gregory T. Carling, Ximena Diaz, Marlon Ponce, Lester Perez, Luis Nasimba, Eddy Pazmino, Abigail Rudd, Srinivas Merugu, Diego P. Fernandez, Bruce K. Gale, William P. Johnson. Particulate and dissolved trace element concentration in three Southern Ecuador rivers impacted by artisanal gold mining. <i>Water, Air, &amp; Soil Pollution</i>, (2013) 224: 1415.</p> <p>Gregory T. Carling, David C. Richards, Heidi Hoven, Theron Miller, Diego P. Fernandez, Abigail Rudd, Eddy Pazmino, William P. Johnson. Relationships of surface water, pore water, and sediment chemistry in wetlands adjacent to Great Salt Lake, Utah, and potential impacts on plant community health. <i>Science of The Total Environment</i>. (2013). Volume 443, Pages 798-811.</p> <p>David C. Deubner, Philip Sabey, Wenjie Huang, Diego Fernandez, Abigail Rudd, William P. Johnson. Solubility and chemistry of materials encountered by beryllium mine and ore extraction workers: relation to risk. <i>Journal of Occupational and Environmental Medicine</i>. (2011). 53(10), Pages 1187-1193.</p>

Gregory T. Carling, Diego P. Fernandez, Abigail Rudd, Eddy Pazmino, William P. Johnson. Trace element diel variations and particulate pulses in perimeter freshwater wetlands of Great Salt Lake, Utah. *Chemical Geology* (2011). Volume 283, Issues 102, Pages 87-98.

Wenjie Huang, Diego Fernandez, Abigail Rudd, William P. Johnson, David Deubner, Philip Sabey, Jason Storrs, Rod Larsen. Dissolution and nanoparticle generation behavior of Be-associated materials in synthetic lung fluid using inductively coupled plasma mass spectroscopy and flow field-flow fractionation. *Journal of Chromatography A*. (2011). Volume 1218, Issue 27, Pages 4149-4159.