
Senior Water Resources Specialist

<i>Expertise</i>	Hydrology, Hydrogeology
<i>Education</i>	Diploma in Management Excellence, 2010 Anglo American, University Adolfo Ibáñez, Chile M.Sc. Water Resources & Environmental Engineering, 2007 Universidad de Chile Civil Engineer, hydraulics, sanitary and environmental specialty, 2006 Universidad de Chile
<i>Professional Affiliations</i>	ALHSUD, Latin American Groundwater Association for Development, Chilean Chapter, Technical Advisor
<i>Professional Experience</i>	
2020 – Present	<i>Itasca S.A., Chile Senior Water Resources Specialist</i>
2019 – 2020	<i>Gestión Ambiental S.A, Chile Project Director of Water Resources Unit</i>
2018 –2019	<i>Teck Quebrada Blanca Mining Company, Chile Water Resources Senior Specialist</i>
2016 –2018	<i>Arcadis Chile Water Resources Specialist</i>
2015 – 2016	<i>Doña Inés Collahuasi Mining Company, Chile Water Resources & Water Supply Superintendent</i>
2014 – 2015	<i>Water Resources Specialist</i>
2007 – 2014	<i>Hydrogeologist</i>
2006 – 2007	<i>Knight Piésold S.A, Chile Projects Engineer</i>
2004 – 2006	<i>Project Area of University of Chile, Chile Projects Engineer</i>

Project Experience

Mining Water Resources: Led studies on the availability of groundwater and surface water for large mining companies in Chile with a focus on providing security of supply and control of environmental risks through the development of environmental impact studies. Gained experience in Collahuasi y Quebrada Blanca mining companies, as well as a consulting projects with Codelco Andina, Codelco El Teniente, Sierra Gorda, Codelco Ministro Hales, and others.

Water Management & Planning: Led the development of long-term water supply plans for Collahuasi, as well as participated in development of the strategy for draining the operating pit. Led water supply studies for Aguas Chañar in the Copiapó River basin and hydrological studies in the Blanco River (Codelco Andina) and Cachapoal River (El Teniente) basins. Developed field work for surface water in the basins of the Huasco, Tinguiririca, Mataquito and Maule rivers, among others.

Groundwater modeling: In the context of availability analysis and impact evaluation studies, led the development of conceptual and numerical studies of both hydrological and hydrogeological components in different basins, especially in northern Chile.

Instrumentation for groundwater monitoring & hydraulic tests for hydrogeology characterization of fractured and low permeability media: Led processes for the implementation of surface and groundwater monitoring plans to analyze physical and chemical changes in water. Experience in telemetry implementation for remote monitoring points. Developed monitoring plans and defined the necessary infrastructure to monitor potential impacts on aquifers caused by infiltrations from tailings deposits and leaching piles. Supervised the performance of packer, step drawdown, and variable rate tests to define hydrogeological parameters in karst and sedimentary aquifers.