

# ROBIN WILLIAM DAVIS

472 Forest Edge Trail, Kalispell, Montana 59901  
rdavis@davismhs.com; +1 520 465 1881

## Citizenship

*United States of America*

## Education

*MS Finance, University of Wyoming, Laramie, Wyoming, USA, August 2023*

*All coursework for a Master of Water Resources, (Hydroscience concentration), University of New Mexico, Albuquerque, New Mexico, USA, 2006*

*BS Geology, University of Texas at San Antonio, San Antonio, Texas, USA, 2003*

## Certifications

*MSHA 5000-23 Surface Metal, Non-Metal*

*Graduate Certificate in Energy Management, University of Wyoming, Laramie Wyoming, USA, August 2023*

## Applications

*GoldSim*

*AQTESOLV*

*Leapfrog Geo*

*QGIS*

*Vulcan*

*MineSight3D*

*Deswik*

## Languages

*English-Native*

*Spanish-Intermediate*

## Career Profile

Mr. Davis is a mining and metals professional with a background in geology and finance; he has over 19 years of experience in the mining industry. He has been involved with projects in all phases of the mining-project cycle (i.e., exploration, study, development, operations, closure, and reclamation), spanning multiple commodities (gold, copper, lead, zinc, nickel, and lithium). His skill set draws from experience in subsurface characterization, project management, HSE planning/implementation, drilling planning/oversight, CAPEX/OPEX planning, business improvement, financial modeling (DCF), national staff training, geophysics, and mining hydrogeology.

## Employment History

### **Davis Mine Hydro Services**

*Independent Field Hydrogeologist (April 2013—present)*

*Owned and operated a hydrogeological field services company with a focus on the mining sector.*

### **Lake Resources—Kachi Lithium Project, Catamarca, Argentina**

*Wellfield Hydrogeology Lead (May 2023 to May 2024)*

Manager of the hydrogeology team on site and responsible for: capacity/institutional development; fieldwork required for the DFS and EIA studies; business improvement planning; and the preliminary investigation for the Cerro Blanco geothermal resource.

### **MMG-LXML Sepon Copper and Gold Mine – Lao PDR**

*Senior Hydrogeologist (July 2011 to April 2013)*

Created and managed: hydrogeological field programs; CAPEX/OPEX budgets; SHEC management plans; procurement of capital project equipment (e.g., centrifugal and submersible pumps); and water management plans. Trained, managed and developed Lao national staff (a team of over 40). Implemented business improvement projects for horizontal drilling, site wide lime dosing and hydro-data management.

### **Ausenco Vector SAC – Lima, Peru**

*Project Hydrogeologist (2010 to 2011)*

Designed and managed field programs; contributed to hydrogeological interpretations, EIS, and mine feasibility studies; and mentored and trained junior staff.

### **Golder Associates Pty Ltd – Brisbane, Australia**

*Hydrogeologist (2008 to 2010)*

Contributed to hydrogeological interpretation studies; managed field programs; developed conceptual groundwater models; analyzed pumping tests and aquifer hydraulic tests; mentored junior staff; planning and implementation of groundwater monitoring programs; and generated mine water management plans.

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## PROJECT EXPERIENCE – MINING HYDROGEOLOGY

**Sunshine Vegetables,  
Puga Valley  
Geothermal  
Assessment,  
Ladakh, India**

Provided technical advice on the development of the Puga Valley geothermal resource to India's largest carrot producer. Met with union territory officials (with the client) to discuss geothermal development in Ladakh.

**AngloGold Ashanti  
(subcontractor for  
Itasca), Silicon and  
Merlin Gold Projects,  
Nye County, Nevada**

Performed hydraulic testing (Lugeon and constant-rate injection tests) on select core holes using IPI SWiPs packer system. Installed VWP's on BQ-sized tremie pipe in deep HQ-sized core holes (up to 2,200 feet). Oversight of the drilling and construction of four-inch monitoring wells. Conducted baseline groundwater sampling. Generated CAPEX plans for future hydrogeology programs.

**Elko Mining Group  
(subcontractor for  
FloSolutions), Spring  
Valley Gold Project,  
Pershing County,  
Nevada**

Designed a test production well and supervised the drilling and construction of the well.

**Homestake Mining  
Company  
(subcontractor for  
Tierra Group  
International),  
McLaughlin Closure  
Project,  
Napa County, California**

Installed and set up groundwater monitoring network and telemetry system (Geokon GeoNet system). Maintained groundwater monitoring network and installed downhole instrumentation (i.e., transducers) in monitoring wells. Carried out quarterly compliance monitoring. Produced memorandum for proposed geothermal project to manage water-balance surplus.

**Barrick Gold  
(subcontractor for  
Itasca), Goldrush  
Project,  
Eureka County, Nevada**

Installed deep vibrating-wire-piezometers (VWP's), up to 4,000 feet, utilizing fiberglass-rod system in exploration core holes. Supervised the installation of piezometers in HQ-sized core holes. Conducted hydraulic testing (IPI STX-60 system). Conducted infiltrometer testing for proposed RIB sites. Supervised the drilling and construction of production and monitoring wells. Conducted long-term constant rate pumping tests. Performed quarterly groundwater monitoring (i.e. water-level data and groundwater sampling with Bennett pumps) for the site.

**Newmont Mining  
(subcontractor for  
SRK), Long Canyon  
Hydrogeological  
Study,  
Elko County, Nevada**

Performed hydraulic testing (Lugeon and constant rate injection tests) on select core holes using IPI SWiPs packer system. Installed VWP's on BQ-sized tremie pipe in deep HQ-sized core holes (up to 2,500 feet). Conducted routine groundwater sampling with QED Micro-Purge, low-flow sampling pumps.

**Freeport-McMoRan Inc  
& BHP (subcontractor  
for DHI), TJ Pit Water  
Management  
Assessment, Miami,  
Arizona**

Planned and generated scope-of-work for Supplemental Characterization Plan (SCP), a 2.7-million-dollar field program, entailing the drilling, construction, and hydraulic testing of 17 piezometers and one test well. Supervised dual-rotary drilling, and piezometer and test well construction. Conducted hydraulic testing (air-lift yield testing during drilling). Installed external casing VWP's and In-Situ, salinity compensating pressure transducers.

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**Teck Resources**  
(subcontractor for  
**SRK-Vancouver), Red**  
**Dog Exploration**  
**Aktigirug-Anarraaq**  
**Drilling Program,**  
Northwest Arctic  
Borough, Alaska

Performed hydraulic testing (constant-rate and constant-head injection tests) on select HQ-sized core holes (up to 3,450 feet) using IPI SWiPs packer system. Installed fiber optic DTS cables in completed boreholes for permafrost monitoring.

**ASARCO**  
(subcontractor for  
**Neirbo Hydrogeology),**  
**Mission Mine,** Pima  
County, Arizona

Supervised horizontal drilling (1,000 feet) for pit depressurization project. Assisted with planning of horizontal drill holes (HDHs) and generated field forms for data collection.

**Minera Sonora Borax,**  
(subcontractor for  
**DHI), Sonora Lithium**  
**Project,**  
Sonora, Mexico

Conducted detailed review on hydraulic testing data (packer testing) provided by field staff. Analyzed 41 air-lift recovery tests with AQTESOLV. Generated reporting deliverable on validation of hydraulic conductivity values produced from packer testing.

**Nordgold**  
(subcontractor for  
**SRK), Montagne d'Or**  
**Feasibility Study,**  
French Guiana

Performed hydraulic testing (Lugeon injection testing) on select HQ-sized exploration core holes using IPI SWiPs packer system. Installed multiple monitoring wells and stand-pipe piezometers across project site.

**Tyler Resources**  
(subcontractor for  
**Ausenco), Bahuerachi**  
**Copper Project-**  
**Hydrogeological**  
**Investigation,**  
Chihuahua, Mexico

Reviewed packer testing field data for quality assurance. Generated air-lifting SOP for field staff. Contributed to feasibility study deliverable.

**Newmont Mining**  
(subcontractor for  
**Neirbo Hydrogeology),**  
**Dawn Mill Site**  
**Remediation,**  
Buckhorn, Washington

Conducted hydraulic testing (i.e., slug-testing), collected groundwater samples and developed 19 monitoring wells located on uranium remediation site.

**Minera Andes Inc,**  
**Hydrogeological Study**  
**for Los Azules Copper**  
**Project,**  
San Juan District,  
Argentina

Managed field program and team. Program consisted of: installation and completion 10 monitoring wells and six vibrating-wire-piezometers (up to 1,200 feet in diamond core holes); stream-gauging; pneumatic slug tests; air-lift tests; and groundwater sampling.

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**Zamin Minerals,  
Hydrogeological  
Baseline Study for  
Valentines Iron Ore  
Project,  
Valentines,  
Florida District, Uruguay**

Supervised the installation and completion of 36 regional monitoring wells, and two test production wells.

**Bear Creek Mining,  
Groundwater Supply  
Study for Santa Ana  
Silver Project,  
Huaculani  
Puno District, Peru**

Managed field program and team. Program consisted of: installation and completion of two test production wells and two monitoring wells; and two, 72-hour constant rate pumping tests. Gained experience with dual-rotary drilling methods and working at high altitude (16,000 feet).

**BHP, Cerro Matoso  
Hydrogeological Study  
for Heap Leach  
Expansion, Cerro  
Matoso,  
Cordoba, Colombia**

Managed field program and team. Program consisted of: installation and completion of two test production wells, 12 monitoring wells; two, 72-hour constant-rate pumping tests; 12 falling-head tests; and groundwater sampling.

**Reed Property Group,  
Basement Dewatering  
Modeling,  
Maroochydore  
Queensland, Australia**

Developed conceptual hydrogeological model and SEEP-W model (2D finite element groundwater modeling package) for the design of a semi-tanked basement for a proposed multi-use development. Wrote reporting deliverable.

**Cougar Energy,  
Aquifer Hydraulic  
Testing, Kingaroy  
Queensland, Australia**

Provided oversight and direction to pumping test contractor for step-test and constant rate pumping test. Taught junior staff pumping test theory and protocols. Analyzed data with AQTESOLV and produced report.

**Satori Resorts Pty Ltd,  
Groundwater  
Exploration Program,  
Ella Bay  
Queensland, Australia**

Conducted remote sensing analysis for groundwater exploration drilling program. Managed field program, comprised of groundwater exploration drilling, production and monitoring bore installations, and pumping tests. Analyzed pumping test data using AQTESOLV. Provided numerical modeling support. Compiled and wrote reporting deliverable.

**BMA, Downhole  
Hydraulic Testing of  
Coal Seams, Lotus Pit  
Norwich Park, Australia**

Conducted falling head and injection tests using wireline pneumatic packers to determine hydraulic properties of coal seams. Analyzed data using Hvorslev solution for future modeling efforts. Provided preliminary cost estimates for dewatering infrastructure.

**LXML, Hydrogeological  
Investigations  
Thengkham Copper  
Expansion Project,  
Sepon  
Savannakhet, Lao PDR**

Installed multiple standpipe piezometers and vibrating wire piezometers. Conducted slug testing on standpipe piezometers. Analyzed slug test data using AQTESOLV. Installed data loggers for vibrating wire piezometers.

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**Solway Water Services  
Pty Ltd, Groundwater  
Resources Evaluation,  
Carbrook  
Queensland, Australia**

Planned and implemented 72-hour constant-rate pumping test. Trained junior staff on pumping test theory and protocols. Analyzed pumping test data using AQTESOLV. Developed groundwater management strategy for operation of production bores.

**Hydration Solutions  
LLC, Aquifer Test  
Analysis  
Texas/Van Zandt  
County, USA**

Analyzed pumping test data using AQTESOLV for water supply study. Produced report for two constant rate pump tests to support client's decision on real estate transaction.

**AFCEE, Aquifer Test  
Analysis, Edwards  
AFB  
California, USA**

Analyzed pumping test data using AQTESOLV for a petroleum hydrocarbon LUST site. Conducted six analyses using both Cooper-Jacob and Theis solutions. Produced report to aid in future site remediation planning and design.

**AFCEE,  
Hydrogeological  
Investigation for Site  
15 ABRES-B Launch  
Complex  
California, USA**

Project geologist for comprehensive DPT program. Advanced 60 boreholes by direct push technology and sampled groundwater to delineate vertical and horizontal extent of chlorinated solvent contamination.

**ConocoPhillips,  
Aquifer Test, Golden  
Eagle (Avon) Refinery,  
Martinez  
California, USA**

Performed step-drawdown test and 24-hour constant rate pumping test to determine local aquifer characteristics. Analyzed pump test data using AQTESOLV and produced report.

**AFCEE, Aquifer Test,  
Site 15 ABRES-B  
Launch Complex,  
Vandenberg AFB  
California, USA**

Planned and implemented 24-hour constant rate pumping test. Design of test included a 3,200-foot pipeline (with pumps in series) for production water disposal. Problematic site due to limited access and ecological constraints. Analyzed pumping test data using AQTESOLV and produced report.

## PROJECT EXPERIENCE – MINE WATER MANAGEMENT & RECLAMATION

**Kinross Gold  
(subcontractor for  
Ausenco), Tasaist Gold  
Mine-Water Balance  
Modeling,  
Mauritania**

Reviewed existing water management plans for site and generated water-balance schematic for planned process plant expansion.

**Terramin, Oued  
Amizour Zinc Project  
Water Management  
Plan,  
Tala Hamza, Algeria**

Created water balance and wrote water management plan for proposed zinc mine utilizing GoldSim. Plan included water treatment options, dewatering system design, erosion and sediment control measures, storm water management, water supply options, socio-economic impacts, and water management of tailings storage facility.

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**Phelps Dodge, Borrow  
Source  
Characterization,  
Tyrone Mine, Tyrone  
New Mexico/Grant  
County, USA**

Provided oversight for borrow source soil excavation for stockpile cover. Surveyed over 300 locations in active, borrow source pit with Trimble GPS equipment. Conducted soil pH testing to dynamically monitor active borrow pit.

**Phelps Dodge,  
Infiltration Collection  
System Construction,  
Tyrone Mine, Tyrone  
New Mexico/Grant  
County, USA**

Coordinated with subcontractor foreman and provided construction oversight for design specifications of infiltration collection systems.

**Phelps Dodge, Tailing  
Pond Monitoring,  
Tyrone Mine, Tyrone  
New Mexico/Grant  
County, USA**

Calibrated, installed, and programmed Campbell Scientific sensors and data loggers for vadose zone monitoring of various mine tailing ponds. Developed VISUAL BASIC macros for data base management. Set up telemetry system for real-time, remote communication of data-loggers.

**Phelps Dodge,  
Abandoned Mine  
Survey, Cobre Mine,  
Silver City  
New Mexico/Grant  
County, USA**

Provided field work consisting of surveying abandoned mine locations using GPS. Surveyed 45 locations and developed base map for future mine closure activities.

## PROJECT EXPERIENCE – GEOTECHNICAL ENGINEERING

**SEQWATER,  
Hydrogeological  
Investigation of  
Proposed Wyaralong  
Dam Site,  
Beaudesert,  
Queensland, Australia**

Installed test production bore for 72-hour pumping test. Planned and implemented 72-hour pumping test. Analyzed pumping test results utilising AQTESOLV. Installed 4 vibrating wire piezometers for future geotechnical monitoring.

**Marathon Oil,  
Geotechnical  
Investigation for LNG  
Construction  
Bioko Island, Equatorial  
Guinea**

Advanced 30 deep boreholes by hollow stem auger. Installed two inclinometers, and three piezometers. Produced detailed borehole logs for geotechnical analyses. Collected rock core and soil samples for geotechnical lab analyses.

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## PROJECT EXPERIENCE – GEOPHYSICS

**AFCEE, Geophysical Investigation for Site 15 ABRES-B Launch Complex, Vandenberg AFB**  
California, USA

Proposed, planned and implemented Electrical Conductivity (EC) probe investigation. Advanced 16 boreholes to a depth of 90-feet by direct push technology in combination with an EC probe. Created conceptual model with EC logs for site characterization.

## PROJECT EXPERIENCE – ENVIRONMENTAL INVESTIGATIONS

**Tesoro, Subsurface Investigation, Waste Management Unit 5, Golden Eagle (Avon) Refinery, Martinez**  
California, USA

Conducted subsurface investigation to determine lateral extent of historic landfill. Advanced 17 boreholes by direct push technology (DPT) to a total depth of 136-feet. Conclusions from investigation used for future closure activities.

**AFCEE, Field Modification Report for Site 1, Vandenberg AFB**  
California, USA

Wrote and prepared work plan for an additional subsurface investigation at Site 1, a former LUST site. Presented an unconventional investigative method which incorporated “air knife” and direct push technologies to determine if buried utilities created preferential pathways for contamination. Created THA (task hazard analysis) for investigative method.

**Tesoro, Subsurface Investigation, Waste Management Unit 8, Golden Eagle (Avon) Refinery, Martinez**  
California, USA

Performed a subsurface investigation to characterize waste in a historic landfill. Investigation was comprised of advancing 13 boreholes utilizing direct push technology (DPT) and soil sampling at selected intervals. Generated report to aid in future site closure activities.

**San Jose Redevelopment Agency, Subsurface Investigation, Main Yard Terminal, San Jose**  
California/Santa Clara County, USA

Task manager and project geologist for supplemental subsurface investigation at the Main Yard Terminal, a former LUST site. Scheduled and planned logistics with subcontractors for investigation. Advanced 13 boreholes using direct push technology. Sampled soil and groundwater at selected intervals for comparison to historical data.

**Moore and Van Allen PLLC, Phase II Environmental Site Assessment, American Building Company Site, Carson City**  
Nevada/Carson County, USA

Advanced nine borings to the first encounter of groundwater and conducted Phase II subsurface soil and groundwater investigation of recognized environmental conditions determined from previous Phase I assessment at the ABC manufacturing building.

**Tesoro, Subsurface Investigation, AMORCO Wharf Basin, Martinez**  
California, USA

Conducted subsurface investigation to further define vertical and horizontal extent of groundwater contaminated with MTBE. Constructed and developed groundwater wells for future aquifer testing. Advanced boreholes by sonic drilling techniques to a total depth of 65-feet.

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**Santa Clara Valley  
Transportation  
Authority, Subsurface  
Investigation, Newhall  
Yard, San Jose**  
California/Santa Clara  
County, USA

Advanced 35 boreholes and collected soil samples from a former railroad yard for metals analysis. Produced figures using ArcGIS to represent contamination zones.

## PROJECT EXPERIENCE – ENVIRONMENTAL MONITORING

**San Jose  
Redevelopment  
Agency, Groundwater  
Monitoring, Main Yard  
Terminal**  
California/Santa Clara  
County, USA

Conducted quarterly groundwater sampling at the Main Yard Terminal. This site is a documented fuel leak site with known soil and groundwater contamination. Generated quarterly monitoring report and prepared documents for IDW (investigation derived waste) management.

**ConocoPhillips,  
Groundwater  
Monitoring, AMORCO  
Wharf Basin, Martinez**  
California, USA

Conducted a groundwater sampling event at a refinery bulk storage facility. Collected groundwater samples from 10, previously installed groundwater monitoring wells and produced a report

**AFCEE, Groundwater  
Monitoring in Operable  
Units 5, 7, 8, and 10,  
Edwards AFB,  
California**  
California, USA

Conducted a groundwater sampling event utilizing low-flow sampling techniques and nitrogen gas operated bladder pumps. Collected groundwater samples from 30 previously installed groundwater monitoring wells and produced report.

**Tesoro, Quarterly  
Groundwater  
Monitoring Reporting,  
Navy Drive Bulk  
Terminal, Stockton**  
California, USA

Prepared documents and coordinated groundwater sampling event for a quarterly environmental surveillance report. Prepared groundwater contour figures for CAD reproduction

## PROJECT EXPERIENCE – WATER AND SANITATION (PRO BONO)

**Engineers Without  
Borders, Arombe  
Water Project,  
Arombe Kwe**  
Migori District, Kenya

Provided technical review on background reports and advice on design criteria for community wells.

**Living Water  
International, Kambaa  
Community Water  
Project,**  
Kambaa, Kenya

Provided technical review on geophysical reports for groundwater exploration study.



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## TRAINING

### **Capital Markets for Geoscientists and Engineers**

AME Roundup short course, Vancouver, Canada, 1/19/2024 (16-hours)

### **NI 43-101 Disclosure Standards**

AME Roundup short course, Vancouver, Canada, 1/21/2024 (16-hours)

### **WATSAN Engineering: From Emergency Towards Development**

ICRC Short Course, Neuchatel, Switzerland, 6/24/2017 (72-hours)

### **Johnson Screens Groundwater & Wells Design Class**

Short Course, Golden, Colorado, 3/14/2017 (24-hours)

### **Baroid Drilling Fluid Workshop for Water Wells**

Short Course, Houston, Texas, 1/15/2017 (40-hours)

### **Remote Sensing Applications for Mine Tailings & Waste Rock Water**

AHS Short Course, Tucson, Arizona, 9/13/2016 (eight-hours)

### **Dewatering and Production Well Design Workshop**

IMWA Short Course, Golden, Colorado, 8/5/2013 (eight-hours)

### **Introduction to Deswik for Mine Planning**

Short Course, Sepon, Lao PDR, 11/12/2012 (40-hours)

### **Introduction to Vulcan for Mine Planners**

Short Course, Sepon, Lao PDR, 11/5/2012 (40-hours)

### **Introduction to MineSight for Geology**

Short Course, Sepon, Lao PDR, 7/16/2012 (40-hours)

### **Pumping Systems for Mine Water Management**

Short Course, Sepon, Lao PDR, 6/11/2012 (40-hours)

### **GoldSim Water Balance Modeling Workshop**

Short Course, Brisbane, Australia, 6/11/2011 (40-hours)

### **Applied Hydrogeology Field Course**

University of Arkansas, Fayetteville, Arkansas, 5/8/2006 (six-weeks)

### **Applications of Drilling Technology for Developing Communities**

Short Course, San Luis Valley, Colorado, 9/7/2005 (40-hours)