

Contact

Reno, Nevada
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www.linkedin.com/in/jaymdixon
(LinkedIn)
[www.kinross.com/operations/
operation-round-mountain,-
usa.aspx](http://www.kinross.com/operations/operation-round-mountain-usa.aspx) (Company)
www.nvwra.org/ (Other)

Top Skills

Water Resources
Hydrology
Water

Certifications

Certified Water Rights Surveyor
NCEES Model Law Engineering
Certification
Profesional Engineer (Civil)

Honors-Awards

2013 Kinross Living Our Values
Award

Jay Dixon

Chief Hydrologist at Kinross Gold Corporation
Reno, Nevada

Summary

PROFESSIONAL OVERVIEW:

Jay was a Principal Hydrologist and Permitting Engineer at the Round Mountain Gold Corp. Mine and is now a Chief Hydrologist for Kinross Gold with a focus on water resources and hydrologic studies at the Bald and Round Mountain mines in Nevada. Jay's professional career spans nearly 25 years focusing on water resources development, management and permitting. As past President and Board member of the Nevada Water Resources Association Jay has been actively involved in educating the public on topics such as Well Design and Construction and water rights permitting throughout Nevada. In the late '90s, Jay worked for Bechtel Nevada where he was involved in groundwater research and deep well drilling oversight at the Nevada Test Site to help characterize groundwater contamination from Cold War Era underground nuclear weapons testing.

PROFESSIONAL ENGINEERING REGISTRATIONS:

Nevada, Utah, Arizona, NCEES Model Law Engineering Record Certification

Specialties: Specializes in groundwater, surface and vadose zone hydrology. Recognized expert in water resources development and assessment of water supplies for energy companies, mining operations, local and federal government, and water utilities.

Technical specialties include:

- Water Well and Pump Design
- Construction Dewatering
- Basin-Scale Safe Yield Analyses
- Aquifer Testing Design/Analysis
- Groundwater Monitoring
- Water Rights
- Groundwater Numerical Modeling
- GIS project development

Experience

Kinross Gold Corporation

Chief Hydrologist

April 2018 - Present

Reno, Nevada Area

Oversee various hydrologic studies and water rights permitting for Nevada operations and projects.

Kinross Gold Corporation

Principal Permitting Engineer (Round Mountain Gold)

February 2015 - Present

Nevada

Managed the baseline studies and NEPA permitting process in support of the Phase W expansion project at Round Mountain, approved in Nov. 2018.

Dixon Hydrologic PLLC

Owner

November 2010 - Present

Nevada

Water rights consulting, well & pump design and groundwater hydrology.

Nevada Water Resources Association

Board of Directors (Past President)

March 2008 - March 2016 (8 years 1 month)

Nevada

Board Member representing District 1.

Nye County Water District Governing Board

District 1 (North) Board Member

January 2014 - July 2015 (1 year 7 months)

Nye County, Nevada

Water District functions can be found at http://www.nyecountywaterdistrict.net/about_us.php

Round Mountain Town Board

Chairman

June 2012 - July 2015 (3 years 2 months)

Round Mountain

Kinross Gold Corporation

Principal Hydrologist (Round Mountain Gold)

November 2010 - February 2015 (4 years 4 months)

Round Mountain, Nevada

As the Principal Hydrologist at Round Mountain, Mr. Dixon managed a Hydrology Department responsible for pit dewatering, expansion and closure planning as well as overall water management throughout mine site. Pit dewatering is an important component in the mining process at Round Mountain, which required careful coordination with mine planning (pit design), geology (slope stability), and environmental compliance. Direct oversight of this comprehensive dewatering program consisted of an regular evaluation of dewatering progress, which required constant monitoring and testing of pumping and monitoring wells and vertical / horizontal drains. Mr. Dixon's other responsibilities included monitoring, management and reporting on site-wide water balance conditions, and coordination of all water rights permitting for Kinross sites throughout Nevada.

Converse Consultants

9 years 9 months

Principal Engineer

April 2008 - November 2010 (2 years 8 months)

Managed a group of Hydrogeologists and Engineers in Converse's Southwest Region. Was actively involved in business development and strategic planning for continued growth in the water resources market segment for Converse.

Jay was active in leadership roles for various professional organizations such as NWRA and the local chapter of American Council of Engineering Companies (ACEC). Recently selected to participate in an Independent Advisory Committee for Nevada Division of Water Resources. Also served on the Financial Audit Committee for the Converse Board of Directors.

- Completed a Preliminary Engineering Analysis for White Pine County, which consisted of a regional (Ely, Ruth & McGill) water system assessment with master plan and groundwater monitoring recommendations.

Recent Publications / Presentations:

- Dixon, J.M., Johnson, M., et. al. Well Design, Construction & Rehabilitation. Nevada Water Resources Association, Course Manual. June 2010. (Link: <http://www.nvwra.org/resources.asp>)

Dixon, J.M. Update on Water Resources Development for the Ely Energy Center. Bi-Annual American Public Works, Nevada Chapter, Fall 2009 Conference, Tahoe, Nevada.

-Dixon, J.M. Water For Energy- Determining How Much Is Available. 2009 EUEC Energy and Environment, 12th Annual Conference. Phoenix, AZ February 2009.

Senior Engineer

March 2006 - March 2008 (2 years 1 month)

These two years were defined by 3 major high-profile projects, which included:

1) Water resources assessment for the proposed Yucca Mountain Rail Corridor (Caliente and Mina alignments). Water rights surveyor for one of the Nevada's largest ever (by application) water rights filing, which included 99 applications and 69 supporting maps.

2) Water resources development and impact characterization for the Ely Energy Center, a proposed 1,500 MW coal-fired power plant in northeastern Nevada.

3) Support for groundwater exploration, well drilling, and aquifer testing for Mt. Hope Mine, one of world's largest proposed molybdenum mines.

Also assisted with well drilling, construction and testing specifications for two 5,500-ft test wells associated with the Desert Rock Energy (plant coal-fired power plant) project in New Mexico. Designed and oversaw all aspects of aquifer testing and analyses.

Select Publications / Presentations:

- Dixon, J.M. and Willer, R. Ely Energy Center- Water Resources Development. Annual American Public Works, Nevada Chapter, Fall 2006 Conference, Tahoe, Nevada. (Link: <http://www.converseconsultants.com/publications/2006-2.pdf>)

- Dixon, J.M. GIS Applications in Hydrogeology. Bi-Annual American Public Works, Nevada Chapter, Fall 2005 Conference, Tahoe, Nevada. (Link: <http://www.converseconsultants.com/publications/2005-6.pdf>)

- Dixon, J.M, Draa, A.C. Pugliese, R. GIS Tools For Evaluating Safe Basin Yield. Presented at the Groundwater

Resources Association of California, Joint Workshop, September, 2005 (poster, proceedings).

(Link: <http://www.converseconsultants.com/publications/2005-5.pdf>)

Project Engineer

March 2003 - March 2006 (3 years 1 month)

Managed numerous technically challenging projects during this time.

Developed specialized expertise in construction dewatering projects that included (among several others):

- 1) headworks project for the Orange County Sanitation District that required complicated aquifer evaluations near the Santa Anna River and Pacific Ocean.
- 2) Developed dewatering plans for two high-profile grade control projects in the Las Vegas Wash, which required groundwater modeling, open-channel flow modeling and dewatering well design recommendations.

Select Publications / Presentation:

- Alford, D.E, Simmons, R.L., Dixon, J., Werle, J.L. Wellhead Protection Issues in Rural Eastern Nevada- Case

Studies from Carlin And Lamoille, Nevada. Presented at 2002 Nevada Water Resources Conference

(Abstract). (Link: http://www.converseconsultants.com/publications/2002-4_abstract.pdf)

Senior Staff Engineer

March 2001 - March 2003 (2 years 1 month)

Bechtel

Civil Engineer

June 1998 - March 2001 (2 years 10 months)

Spent three years performing hydrologic assessments, flood control designs and as part of the Environmental Management and Engineering groups at Bechtel, Mr. Dixon also supported various studies related to closure cover (landfill) design and vadose zone hydrology. Responsibilities included:

Watershed delineation;

rainfall runoff volume estimates using HEC-I, TR-55; open channel flow analysis and design; hydraulic flood control structures; design and analysis (culverts, channels, energy dissipation); sediment transport analysis, and erosion control analysis. Vadose zone work included numerical hydrologic modeling to support cover

design and travel-times to the water table. Also responsible for lab testing of soils to determine unsaturated soil properties used for model input. Vadose zone modeling software experience includes Hydrus-2d (US Salinity Lab), HELP (US EPA), SHAW (USDA), and UNSAT-H (Battelle, Pacific Northwest Labs).

SELECT PUBLICATIONS:

- Dixon, J.M., Levitt, D.G., Rawlinson, S.E. Alternative Site Technology Deployment- Monitoring System for the U-3ax/bl Disposal Unit at the Nevada Test, published in proceedings for the 36th Annual Engineering Geology and Geotechnical Engineering Symposium: Soil and Water Issues for the Arid West.

(Link: http://www.osti.gov/bridge/product.biblio.jsp?query_id=4&page=0&osti_id=775470)

- Dixon, J.M. Evaluation of Unsaturated Flow Models in an Arid Climate, University of Nevada Las Vegas & U.S. Department of Energy, 1999.

- Levitt, D.L. and J.M. Dixon. The Influence of Climate and Vegetation as Factors for Waste Cover Design. Published in the proceedings from the Vadose Zone Monitoring Workshop, Las Vegas, NV, 1998

University of Nevada Las Vegas
Graduate Research & Teaching Assistant
August 1997 - January 1999 (1 year 6 months)

- Taught undergraduate Fluid Mechanics laboratory
- Assisted with a research on the Yucca Mountain Project (proposed geologic repository near the Nevada Test Site); helped run computer simulations using the non-isothermal unsaturated flow code NUFT to evaluate projected changes in local vadose zone hydrology associated with storage of high level nuclear waste.

Ohio Department of Transportation
Construction Engineering Co-Op
1994 - 1997 (4 years)

For three summers while attending college at Ohio Northern, I assisted in construction QC for roadway grade control, bridge construction (concrete testing and volume calcs), bridge deck rehabilitation and various drainage features for each project.

Ohio Northern University

Student

1992 - 1997 (6 years)

BP Chemicals

Environmental Engineering Co-Op

1994 - 1996 (3 years)

As an engineering co-op at the Lima, Ohio facility I performed groundwater monitoring and reporting for several of the plant's production wells. Monitored and reported stream discharge of treated plant effluent. Assisted the project manager for a large mixed-waste pond closure (RCRA) project. Assisted in developing work plans for contaminated soil cleanups around the plant. Was allowed to manage my own project, which included the design and construction of a weir to measure storm water runoff discharging from a retention pond.

Education

University of Nevada-Las Vegas

MSCE, Civil Engineering · (1997 - 1999)

Ohio Northern University

BSCE, Civil Engineering · (1992 - 1997)