

## AMY ROSEBROUGH

1718 Washington St. NE, Albuquerque, NM, 87110

(505) 979-1014

amy.rosebrough@hotmail.com

### PROFESSIONAL SUMMARY

Environmental professional with extensive experience in climate and water resource project management, assessing current and potential impacts of climate change, implementing sustainable and resilient approaches, and interacting with stakeholders and compliance agencies. Currently an Environmental Scientist at NMED's Climate Change Bureau contributing to the state's Climate Pollution Reduction Grant effort.

### EDUCATION

#### **University of Arizona- Tucson, Arizona**

Master of Science in Hydrology and Water Resources

**GPA: 4.0/4.0**

2018- May 2020

#### **University of New Mexico- Albuquerque, NM**

Bachelor of Science in Environmental Science

**GPA: 4.0/4.0**

2013-2017

#### **Heroshi Miyamura High School - Gallup, NM**

**GPA: 4.0/4.0**

2009-2013

### RELEVANT WORK EXPERIENCE

#### **Environmental Scientist – Operational (ESS-O)**

**August 2023 - Current**

#### **New Mexico Environment Department**

**(Full-Time)**

#### **Climate Change Bureau**

- New Mexico's Climate Pollution Reduction Grant (CPRG) Program Coordination
  - Creation of a Priority Climate Action Plan (PCAP);
  - Preparation of two Phase II Implementation applications;
  - Intergovernmental and interagency outreach and coordination for development of the PCAP and Phase II Implementation applications;
  - Stakeholder and community outreach and engagement;
  - Quarterly report preparation for submittal to the Environmental Protection Agency;
  - Procurement of two contracting entities to assist in the development of the PCAP, and
  - Website development and updates.

#### **Water Quality Manager**

**March 2021 – August 2023**

#### **Pueblo of Sandia**

**(Full-Time)**

- Water Quality Program management and field technician supervision;
- Assistance with creating a Tribal Water Plan for drought resiliency;
- Water quality sampling and data analysis to ensure compliance with the Pueblo's Water Quality Standards;
- Clean Water Act § 401 Certification, monitoring, and enforcement for NPDES permit holders discharging to tribal waters;
- Water quality data management and submittal to EPA's WQX system;
- Preparation and submittal of environmental reports to regulatory agencies;
- Updating the Pueblo's Water Quality Standard to reflect current scientific research, and
- Grant proposal submittal and management.

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### Hydrologist

July 2020 – March 2021

#### EA Engineering and Science (Albuquerque, NM)

(Full-Time)

- Kirtland Air Force Base bulk fuels performance-based remediation project – groundwater and soil vapor sampling;
- Technical report creation, and hydrologic model modification;
- BNSF Railroad stormwater compliance inspections and technical report creation, and
- Groundwater sampling and report creation for multiple federal, state, and private groundwater contamination remediation projects.

### Research Assistant

August 2018 -June 2020

#### United States Geological Survey (USGS) (Tucson, AZ)

(0.5 FTE)

- Master's thesis research under the USGS Transboundary Aquifer Assessment Program (TAAP);
- Creation of U.S.-Mexico-Tribal transboundary aquifer model ensemble using MODFLOW, FLOPY and Python Jupyter Notebooks for assessment and prioritization of these aquifers, and

### RELEVANT WORK EXPERIENCE (CONTD)

- Use of stakeholder engagement to guide the creation of a Graphical User Interface (GUI) through Python that will make the model ensemble results accessible and navigable.

### Hydrologist

January 2018- August 2018

#### Daniel B. Stephens & Associates (Albuquerque, NM)

(Full-Time)

- Microbial Source Tracking of E. Coli in the Rio Grande River for the City of Albuquerque;
- Stormwater monitoring and SWPPP compliance inspections and reports;
- Groundwater sampling and NAPL recovery using bailing, low-flow, and bennet pump methods;
- Assessment of point sources of contamination for Albuquerque and Bernalillo County Water Utility Authority (ABCWUA) source water protection areas, and
- Hydrogeologic assessment of groundwater and surface water interaction using drive-point recharge data, greyline discharge data, HOBO data loggers, and more.

### Field Hydrologist

May 2017- December 2017

#### TerranearPMC (Los Alamos, NM)

(Full-Time)

- Los Alamos National Labs Stormwater Monitoring Program;
- Stream Gage and automatic ISCO sampler inspection, programming, maintenance, and sample retrieval;
- Preservation of collected samples for analysis in the lab;
- Programming and utilization of Sutron data recorders, radar probes, water level bubblers with pressure sensors, float-driven encoders, and telemetry units to monitor stream levels;
- Discharge measurements using portable flumes, v-notched weirs, etc.;
- Erosion and Sediment Control Best Management Practices (BMP) construction and inspection;
- Surveying of stream location and depth to monitor temporal change using a Total Station, and
- Groundwater spring and well sample collection and preservation.

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### Hydrology Intern

May 2016- May 2017

#### New Mexico Environment Department (Albuquerque, NM)

(0.25 FTE)

- Evaluation of the long-term impacts of the Gold-King Mine Spill on the streambed sediments of the San Juan and Animas Rivers through extensive sediment sampling and portable XRF analysis;
- Research culminated as senior thesis.

### Water Resource Engineering Intern

May 15, 2014 - August 15, 2014

#### DePauli Engineering & Surveying LLC (Gallup, NM)

(Full-Time)

- Surveying for multiple construction projects, including the Navajo-Gallup Water Supply Project;
- Sewage Lagoon Closure Plan for a non-operational wastewater treatment facility.

### Conservation Crew Worker

Summers (May 15 - August 15), 2010 - 2013

#### Youth Conservation Corps. (Gallup, NM)

(Full-Time)

- Environmental rehabilitation projects in recreational areas;
- Habitat protection and wildlife monitoring.

### ENVIRONMENTAL SOFTWARE EXPERTISE

- AWQMS, ArcGIS, Python, MATLAB, AWQMS, MODFLOW, Groundwater Vistas, EVS, and GMS

### NMED APPLICATIONS EXPERTISE

- Microsoft Office, WordPress, GovDelivery, Trumba, Webex, and SmartComment.