

Meeting Date: May 17, 2017

Staff Contact: Rick Shean, Water Quality Hydrologist

TITLE: C-17-15 – Approving Appointment of Matthew Earthman to the Water

Protection Advisory Board

ACTION: Recommend Approval

SUMMARY:

Water Authority staff request the appointment of Mr. Matthew Earthman to the Water Protection Advisory Board (WPAB) to serve a three year term as one of two of the Water Authority's appointees on the board.

The purpose of the WPAB is to study and advise the Water Authority, City and County on surface and groundwater protection concerns, oversee the implementation of the Water Quality Protection Policy and Action Plan, and assist with the development of policies and strategies necessary to enhance protection of surface and groundwater quality in the Albuquerque Basin.

Mr. Earthman has had diverse professional experiences in environmental restoration and water resources activities, including environmental investigations and cleanups, water treatment system design, landfill performance modeling and other hydrogeology projects.

Mr. Earthman is a registered geologist in the State of Utah, and received a Bachelor's of Science in Earth Sciences and Masters of Science in Geochemistry, both from New Mexico Institute of Mining and Technology.

FISCAL IMPACT:

None



MATTHEW EARTHMAN, P.G. ENVIRONMENTAL

AREAS OF SPECIALTY

- Project Management and Technical Report Preparation
- Solid Waste Permitting and Compliance
- Water Resource Planning, Hydrogeologic Evaluation and Well Design
- Phase I and Phase II Environmental Site Assessments
- Petroleum Storage Tank Investigation and Remediation

YEARS OF EXPERIENCE: 6

EDUCATION

M.S.-Geochemistry, New Mexico Institute of Mining and Technology, Socorro, NM, 2010 B.S.-Earth Sciences with Geochemistry Option New Mexico Institute of Mining and Technology Socorro, NM, 2008

LICENSES AND REGISTRATIONS

Professional Geologist-Utah (#8881905-2250)

PROFESSIONAL AFFILIATIONS/ORGANIZATIONS

National Groundwater Association

SPECIALIZED TRAINING 40-Hour OSHA HAZWOPER

First Aid/CPR

BACKGROUND

Mr. Earthman's role as a Project Geoscientist at Souder, Miller & Associates includes managing, conducting, and overseeing a wide range of environmental projects. These projects have included solid waste, petroleum storage tank and other contaminant hydrogeology projects, Phase I and II Environmental Site Assessments, soil and groundwater investigations, overseeing soil and groundwater remediation projects, analyzing water production well pump test data, and preparing discharge permits. Mr. Earthman manages projects, performs fieldwork, provides subcontractor oversight, and prepares reports for a multitude of environmental projects.

EXPERIENCE

El Creston MDWCA Supply Well Installation El Creston, NM

Mr. Earthman supervised the advancement of an exploratory pilot hole and installation of a permanent water supply well for the El Creston MDWCA Supply Well project in El Creston, New Mexico. Mr. Earthman supervised the drilling crew, logged drill cuttings for lithology to determine subsurface geological formations in the field, and made decisions on the depth to which complete the well. Following the initial pilot hole advancement, Mr. Earthman helped to design a temporary well to conduct zone pump testing and collect groundwater samples for laboratory analysis. Using data obtained from the temporary well, Mr. Earthman supervised the installation of the permanent water supply well.

Rio Grande Oil UST Release Site, Minimum Site Assessment and Soil Excavation, Albuquerque, NM

Mr. Earthman was project manager of a minimum site investigation and interim soil excavation at the former Rio Grande Oil Service Station in Albuquerque, New Mexico. As part of the minimum site investigation, Mr. Earthman supervised and reported the results of a soil boring investigation to define the extent of soil contamination at the site. Following the initial investigation, Mr. Earthman designed a limited soil excavation plan to remove and dispose of 450 cubic yards of contaminated soil at the site, including subcontractor coordination, CAD drafting, and the development of site-specific health and safety and traffic control plans. During August, 2013, Mr. Earthman was responsible for on-site supervision of the limited soil excavation, performing confirmation soil sampling, manifesting waste shipments, ensuring work-site safety, and supervising the excavation and backfill of the pit.

Santa Fe County Steve Herrera Courthouse Complex Project, Water Treatment System, Santa Fe, NM

Mr. Earthman helped with the construction and maintenance of the Granular Activated Carbon (GAC) water treatment system at the Santa Fe County Judicial Complex construction site in Santa Fe, NM. During June of 2010, Mr. Earthman assisted with the plumbing and start-up of the system, and performed operation and maintenance duties and discharge water sampling while the system was operating.

Phase II Environmental Site Assessment, 5301 San Diego Ave. Property, Albuquerque, NM

Mr. Earthman supervised the drilling of four soil borings on two bank-owned properties to determine the extent and presence of buried municipal solid waste from portions of the property built over a historical landfill. Mr. Earthman logged all subsurface drilling, completed landfill gas vapor monitoring, and prepared reports documenting the findings of the investigation.

Hydrogeological Evaluation of Landfill Performance (HELP) Modeling, Taos County Landfills and Vaughn Landfill Closures

As part of landfill closure plans, Mr. Earthman prepared HELP models to determine the extent of landfill leachate infiltration into the subsurface at several closed landfills in Taos County, NM, as well as the Vaughn, NM landfill. Mr. Earthman utilized past climate data, subsurface geology, and landfill construction to prepare the models, which simulate the volume of water percolating through the subsurface during years with higher-than average precipitation at each location. Construction of the models requires extensive research of regional and local geology as well as past climates.