

Justin Fike, C.E.M.
Project Hydrogeologist

Professional Experience

Mr. Fike is a Project Hydrogeologist with over nine years of professional consulting experience. He has a background in civil engineering design, hydrogeology, and construction management, with an emphasis in hydraulic analysis. His wide-ranging responsibilities have included project management, water resources permitting, aquifer testing, comprehensive work plan development, precision mapping and surveying, grading and infrastructure design, drilling oversight, environmental site assessment (ESA), hydrologic and hydraulic modeling, conceptual site model (CSM) development, remedial design and site closure, health and safety oversight, and comprehensive data trend analysis.

Project Experience

Select Environmental Site Assessment and Remediation Experience

- **Multinational Aerospace Manufacturer, Reno NV** – Project Manager responsible for budgetary oversight, management of field personnel, permit compliance, technical assistance, and internal reporting. Project consists of hydrogeological and contaminant characterization in complex bedrock settings at a former rocket testing facility, database management and compliance reporting for two separate trichloroethylene (TCE) and perchlorate plume sites. Projects involve large scale groundwater pump and treat remediation systems, ground injection of treated water and large groundwater monitoring network operations. Technical project aspects include degradation of non-aqueous phase liquid (NAPL) TCE contamination deeply emplaced in fractured bedrock, maintenance of digital data stream for support of rapid decision support and complex reporting requirements, hydrogeological data trend analysis, and remediation system optimization.
- **Site Assessment and Remediation Sites, NV** – Project Manager responsible implementation, operation, compliance, and budgetary oversight for a variety of contaminated sites undergoing site assessment and soil and groundwater remediation. Projects rely predominantly on soil vapor extraction, air sparge, groundwater pump and treat, and monitored natural attenuation to achieve remedial goals for sub-surface contaminants including hydrocarbons, LNAPL, fuel oxygenates, and chlorinated solvents.
- **Chevron O&G Leases, Guadalupe, CA** – Deputy Project Manager responsible for project tracking, QA/QC, and coordinating assessment and restoration activities at an active agriculture facility formerly used for oil and gas production. Project high-lights included a comprehensive cultural survey, encountering/mitigating unforeseen contaminant locations, managing multiple field crews, and successful mitigation of unique safety hazards.
- **Orphan Pipeline Abandonment, Kern County, CA** – Project Geologist selected as field crew leader to oversee and coordinate pipeline location and abandonment activities for high profile keystone project. Field activities were conducted in remote and heavy oilfield locations and included HES oversight and reporting, mitigation of sensitive biologic concerns, coordinating field crews, pipeline locating and surveying, excavation, hot tapping of lines, and sampling.
- **Nevada Division of Environmental Protection (NDEP) Leaking Underground Storage Tank (LUST) Program, Eagle Gas Station, Carson City, NV** – Project Geologist

responsible for field oversight and development of conceptual site model utilizing cone penetration testing (CPT) and membrane interface probe (MIP) technologies. Development of CSM included comprehensive data review and three-dimensional modeling of sub-surface characteristics.

- **Active Oil and Gas Lease, Orcutt, CA** – Project Geologist responsible for development and implementation of construction and industrial SWPPPs for active oil and gas production project in Santa Barbara County, CA. Project included the management of routine and non-routine reporting, staff management, and permit compliance.
- **Chevron, Former Oil and Gas Leases, Santa Maria, CA** – Project Geologist responsible for coordinating and oversight of field activities during site assessment and restoration. Activities included HES oversight and reporting, air quality monitoring, large scale soil excavation and pipeline removal, confirmation soil sampling, and data QA/QC.

Select Hydrologic and Hydraulic Analysis Projects

- **Winnemucca Farms, Inc., Winnemucca, NV** – Conducted water usage trend analysis for multiple large scale agricultural facilities in central NV. Project highlights included anticipating annual water usage based on crop type and climate forecasting.
- **Lockwood Regional Landfill, Sparks, NV** – Conducted aquifer testing, interpretation, and pumping well assessment, in support of reservoir design project.
- **Florida Canyon Mine, Imlay, NV** – Project Hydrogeologist responsible for site analysis and development of corrective action plan for contaminated groundwater plume. Project highlights included comprehensive background water survey, aquifer testing, and assessing onsite geothermal resources in relation to plume mitigation.
- **Florida Canyon Mine, Imlay, NV** – Project Hydrogeologist responsible for conducting quarterly capture zone evaluation of plume pump back wells in support of ongoing mitigation activities.
- **Fish Springs Creek, Douglas County, NV** – Developed hydrologic and hydraulic models in support of FEMA 100-year flood plain modification utilizing HEC-HMS, HEC-RAS, and CAD software. Project consisted of modeling existing FEMA 100-year floodplain based on historical data for the purpose of model calibration, surveying existing channel dimensions, developing hydraulic flow model utilizing existing channel dimensions and historic flow data, and designing channel modifications for the purpose of 100-year floodplain mitigation.
- **Confidential Client, Central NV** – Developed numeric flow model of dam failure scenario in support of emergency action plan (EAP) for a reservoir in central Nevada.

Select Environmental and Water Resource Permitting Projects

- **Florida Canyon Mine, Imlay, NV** – Project Hydrogeologist responsible for groundwater baseline study in support of mine expansion project National Environmental Policy Act (NEPA) environmental assessment (EA) permitting.
- **Florida Canyon Mine, Imlay, NV** – Prepared groundwater appropriations permit applications in support of pumping well field expansion and conducted research on status of water rights.
- **Idahoan Foods LLC, Winnemucca, NV** – Project Hydrogeologist responsible for preparation of compliance reporting in support of discharge permits.

- **Winnemucca Farms, Inc., Winnemucca, NV** – Project Hydrogeologist responsible for preparation of compliance documents and database management in support of appropriations and discharge permits, including reporting to the State Engineer for multiple large scale agricultural operations requiring appropriations permit research and tracking.
- **Winnemucca Farms, Inc., Winnemucca, NV** – Assisted in transfer of public water system and discharge permit for a potato packaging facility.

Mapping and Civil Design

- **Lake Tahoe Golf Course Dr., Douglas County/Carson City, NV** – Senior Engineering Technician responsible for development of improvement plan set, hydrologic analysis, storm drainage design, and preparation of As-Built plan sets.

Presentations

CEM Path to Closure Training Work Shop: Data Trend Analysis, Nevada Department of Environmental Protection, Bureau of Corrective Actions, 2014. (Presenter)

Chevron Supplier Safety Forum: Task Hazard Analysis, Chevron Environmental Management Company, San Luis Obispo, CA, 2011. (Presenter)

Education

B.S., Hydrogeology, University of Nevada, Reno, 2010.

Certifications and Registrations

Nevada Certified Environmental Manager, #2351

Certified Erosion, Sediment, and Storm Water Inspector (CESSWI).

Nevada Department of Transportation Water Pollution Control Manager

Nevada Water Distribution System Operator in Training (Grade D-1)

OSHA, 29 CFR 1910, 40-Hour and Annual 8-hour Supervisor, Hazardous Waste Operations and Emergency Response (HAZWOPER).

MSHA Part 46, New Miner Training.

MSHA Part 48, 40-Hour and Annual 8-hour, Surface Miner Training.

Affiliations, Participation, and Training

Nevada Water Resources Association

Geological Society of Nevada

Reno-Tahoe Young Professionals Network

Water Rights in Nevada, Nevada Water Resources Association (2015)

Loss Prevention System (LPS) Training

SMITH Safe Driver Training

Confined Space Safety Training

Excavation and Trench Safety Training