

JACOB CLARK

Education and Professional Development

- B.S., Materials Engineering, California Polytechnic State University , San Luis Obispo
- Occupational Safety and Health Administration 40-Hour Hazardous Waste Operations and Emergency Response Training
- CPR, AED, and First Aid Certification
- Loss Prevention System (LPS) Certification
- Possesses a Transportation Worker Identification Credential (TWIC) Card



Registrations and Professional Affiliations

- California Engineer In Training

Summary of Professional Experience

Mr. Clark is a project engineer with approximately 9 years of environmental consulting experience. His experience includes:

- Design, operations, maintenance, and repair of soil and ground water remediation systems
- In-situ chemical oxidation (ISCO), aquifer testing, soil excavation, and construction oversight
- Project budgeting, permitting with regulatory agencies, and reporting for investigations and regulatory compliance
- Soil investigation and well installation using direct push and hollow-stem auger drilling techniques
- Ground water monitoring and sampling, preferential pathways and tidal studies, and waste management
- Knowledgeable of the LPS safety program, LPS tools, stewardship of the safety program, and experience as site safety officer

Representative Experience

- Mr. Clark engaged in operations, maintenance, and repair of air sparging / vapor extraction (AS/VE) systems. Work included soil vapor monitoring and sampling, rebound testing, and

system optimization.

- Mr. Clark engaged in the design and implementation of a focused interim remedial measure of VE and the design of the expansion to existing AS/VE systems.
- Mr. Clark engaged in a preferential pathways and tidal study to assess ground water flow and tidal influence. Work included use of automatic sampling equipment, pressure transducers, and water quality logging devices.
- Mr. Clark engaged in coordination and implementation of bioremediation using ISCO utilizing temporary borings and dedicated injection wells. Work included project planning and developing procedures, material storage and transportation, handling and mixing materials onsite, using direct-push and gravity feeding injection equipment, monitoring subsurface conditions, regulatory permitting and reporting.
- Mr. Clark served as site-safety officer and staff engineer during soil excavation and construction along a riprap embankment in San Francisco. Work included marine construction oversight which involved pile driving to construct a cofferdam and excavation of impacted materials using barge-based equipment. Site safety and security was maintained with implementation and stewardship of the LPS safety program.
- Mr. Clark engaged in aquifer testing in Portland, Oregon. Work involved conducting pump and slug tests that included use of pressure transducers and ground water monitoring at the target and surrounding ground water monitoring wells.
- For a corporation that manufactures and delivers proprietary coatings for catalytic converters, Mr. Clark modified a 3-point bend test mechanism to perform repeatable 4-point bend tests, developed a testing procedure for qualifying raw, coated, and finished substrates, redesigned Excel worksheets for the NOx emission of each coating process, and wrote Standard Operating Procedures and reports for internal publication.
- On a senior project involving friction stir welding AZ31 magnesium alloy, Mr. Clark determined the rotation speed and weld speed for a defect-free weld with 85 percent base metal properties, researched friction stir weld and magnesium alloys, mounted and polished specimens for optical microscopy and analysis of weld nugget, conducted micro hardness traverse and tension test for mechanical analysis, gave an oral presentation, and published a paper.