

# SCHNEIDER GEOLOGY

*Hydrogeologic and Storm Water Services*

## Statement of Qualifications



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For more information about the company and our qualifications, please visit our website at [www.schneidergeology.com](http://www.schneidergeology.com) For a list of clients serviced, project summaries, or relevant experience to your project, or should you have any questions, please do not hesitate to call me at (530) 400-8085 or e-mail at [info@schneidergeology.com](mailto:info@schneidergeology.com)

Sincerely,

Jim Schneider  
President

**APRIL 2014**

28002 Calle San Remo, San Juan Capistrano, CA 92675

Telephone: (530) 400-8085

[www.schneidergeology.com](http://www.schneidergeology.com)

# SCHNEIDER GEOLOGY

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## **INTRODUCTION**

This Statement of Qualifications (SOQ) is intended for your use in considering **SCHNEIDER GEOLOGY** for upcoming work assignments. It specifically addresses our capabilities within the environmental industry, with emphasis on regulatory compliance, health and safety, geology, contamination and other water-related issues, and teaching/mentoring.

### **Objective of this SOQ**

**SCHNEIDER GEOLOGY** is a leader in providing consulting, construction, and operational services. This company has a core group and team that is capable, qualified, and eager to serve our clients in all the areas identified in this document.

Through the information contained in this SOQ, we hope to convey to you why selecting **SCHNEIDER GEOLOGY** for your projects provides you with the best possible outcome for your investment.

### **Value Proposition**

For demanding companies working on cutting-edge technology for industry, I understand your need for rigorous decision making, methodology, as well as scientific, regulatory, and safety services that meet strict standards.

**SCHNEIDER GEOLOGY** provides services that will generate direct benefits for you and your company, including the following:

- Improved safety performance for your projects and your facilities, year after year
- Reduced compliance costs and reduced likelihood of audits
- Improved project team performance, minimal rework, and more predictable projects
- Lowest achievable overall costs

**SCHNEIDER GEOLOGY** offers an approach that is forward thinking, reliable, honest, and direct and we operate with integrity. We strive to account for all cost components, to help you make good decisions, optimize the value returned on your investment dollars, and attain an advantage in this extremely competitive market. Within this statement of qualifications, you will find ample proof of our qualifications.

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## **PHILOSOPHY & APPROACH**

We pride ourselves on providing ethical consulting and environmental services. I have built this company on a foundation of ethics, clarity, safety, hard work, responsiveness, and mutual respect. These principles enable **SCHNEIDER GEOLOGY** to mature ongoing relationships and cultivate new ones with clients who demand and expect high-quality environmental services. Our primary goal for each and every project is to produce results that meet or exceed client expectations.

The **SCHNEIDER GEOLOGY** ...approach...three ways...

### **Partnership**

At **SCHNEIDER GEOLOGY**, we believe in the power of collective intelligence. We strive to have long-lasting partnerships with our clients and your industry leaders to allow us to continually progress game-changing environmental solutions forward. Together, we will build a partnership, a new way of doing business. An approach where our collective capacity to innovate will aid in achieving your goals and gain a sustained balance between people, business, and our natural resources.

### **Communication – a systems approach**

**SCHNEIDER GEOLOGY** analyzes and reviews verbal and non-verbal communication issues that have an impact on information resource for project managers. What does this mean? We strive to develop proactive management of a client's environmental issues to shape a productive communications environment, rather than having to take a reactive stance to the multiple messages and barriers they encounter.

Technology alone is insufficient to improve communication. Technology is useful to organize data into information, but information becomes communication only as it is interpreted by a person. Information resource project managers, who can expect to spend a large percentage of their time in communication activities, can develop communication skills as they increase their understanding that communication is interactive and manageable. **SCHNEIDER GEOLOGY** aims to help facilitate this process.

### **Engaging, educating, and empowering your employees**

While it's important to have a core group who can catalyze and lead sustainability efforts, you need your entire organization engaged, educated, and empowered to pursue your corporate safety culture and strategies. Many safety efforts are based on changing behaviors, and the only way to succeed is for the stakeholder groups affected to get

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involved. Having all functional groups engaged in health and safety is especially relevant for lowering long-term operating costs and strategy.

This philosophy has been implemented throughout the last eleven years, since the foundation of **SCHNEIDER GEOLOGY**. Below is a brief summary of projects that we have participated (partially or wholly) in using this approach with success.

- Storm Water Compliance, Aerospace Company, Hawthorne, CA. Ongoing environmental consulting and health and safety (H&S) consulting for this large aerospace company. This company is at the forefront of space exploration and we are assisting in training H&S staff in compliance regulations, safety procedure preparation, and storm water services. We wrote four SWPPPs for large facilities and are assisting this company with implementation and upcoming sampling.
- Geologic Investigations, Edwards Trust, Black Star Canyon, Irvine, CA. Conducted percolation testing for leach field on new plot within the state park boundaries. This project involved designing and implementing 24-hour testing and construction of continuously supplies water to the boring for successful testing. Two borings failed; twelve passed; although several borings failed, we planned this in our pre-planning scenario to allow statistical passing for the entire leach field.
- Environmental Investigations, Camp Pendleton, Oceanside, CA. Senior Geologist and QSP/QSD for environmental investigations at the lower agricultural site on western edge of Camp Pendleton. Worked to assess the current SWPPP, evaluate all site BMPs for 100 acre site. Responsible for SWPPP implementation and oversight during construction efforts. Upload documents to state database and keep project compliance. Worked closely with the RWQCB San Diego.
- Various Fuel Depot Remediation Programs, southern California. Portfolio Manager and Senior Geologist for two major oil companies (Phillips 66 and Chevron). Assisting in the remediation and closure of numerous (100+) fuel depots in southern California over last 10 years using ozone injection, enhanced natural attenuation, ISCO, groundwater pump-and-treat systems, and soil vapor extraction techniques. I implement the California-adopted LTCP when applicable to reach closure. Interpret results to prepare reports to progress sites to regulatory closure.
- Pipeline Remediation Efforts and Emergency Response, southern California. Portfolio Manager and Senior Geologist conducting oversight for various soil and groundwater impacts from large oil company pipeline (i.e. Chevron Pipe Line Company (CPL)) leaks or system failures. As a Person in Charge (PIC) and training in Managing Safe Work (MSW) processes, responsible for responding to emergencies for initial site assessment and mitigation. Most remediation involves soil impacted with various petroleum products. Other work involves waste characterization and

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disposal. Using EPA Method 846, we prepare statistical and defensible data for operation processes related to generating waste. Work typically includes NORM evaluation, excavation, sampling, analytical testing, and reporting. Typically the work entails heavy contact with state regulatory agencies, predominately the RWQCB's in Los Angeles and Central Valley. Interpret results and prepare reports reporting the progress of remediation to regulatory agency for closure.

- Environmental Investigations, San Diego Unified Port District Sites, San Diego, CA. Project Geologist for environmental investigations at Former Campbell Shipyard. Responsible for oversight and project management during remediation efforts adjacent to the San Diego Bay. Wrote the Post-Closure Report for submittal to the RWQCB San Diego and California Fish & Game (received closure). Other work includes oversight of well installation and well development.
- Site Investigations, CalTrans Sites, California. Project Geologist for environmental analyses of Portland Concrete Cement waste generated by CalTrans throughout California. Analyses of data and laboratory analyses helped to create a database, providing a baseline for future work. Additional CalTrans work involved site remediation and investigation for petroleum contaminants at various CalTrans Maintenance Facilities located in Ventura County, SWPPP's.
- Fuel Depot Remediation Programs, northern California. Project Geologist assisting in the remediation of numerous fuel depots in northern California using ozone injection, enhanced natural attenuation, groundwater pump-and-treat systems, and soil vapor extraction techniques. Interpreted results to prepare reports.
- Site Investigation and Remediation Services, DoD Sites, California. Geologist for environmental investigations and remediation at Former George Air Force Base in Victorville, California; and Vandenberg Air Force Base in Lompoc, California for the U.S. Air Force Center for Environmental Excellence. Built and operated three soil extraction vapor (SVE) systems for soil remediation of spilled JP-4 and JP-5. Wrote technical sections for Design and Analysis Reports and Feasibility Study Reports. Wrote the SVE Operations and Maintenance Manual. Field work consisted of geologic mapping, borehole drilling and soil logging/sampling, water/air well installation including conveyance piping, manifold construction, and quarterly air, water, and soil sampling following current California guidelines under Chain of Custody Protocol.
- Geologic Site Investigations, Orange County, California. Geologist utilizing geologic and engineering principles to develop and interpret multiple sites. Work included: geologic mapping, blue print interpretation, soil sampling, compaction testing, hole/trench excavation, historical site investigation, slope stability studies, and surveying. Design of solid waste disposal sites.

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SCHNEIDER GEOLOGY also has extensive construction experience.

**Professional Commercial Diver** – Nuclear diver full-time for 14years; well versed in nuclear protocol; underwater/topside Welding/Burning, High Pressure Hydrolasing, Remote Tooling utilizing: Hydraulic Hacksaws, Rotary Saws and Electric Discharge Machines (EDM), NDT, Closed Circuit Television (CCTV) and Remote Operating Vehicle (ROV) operations. Trained in operating many type Forklift, Backhoe, and Cranes; Certified Rigger. Knowledge of all common tools - hand, hydraulic, and pneumatic.

## ***Foreman – Commercial Diver***

- Hope Creek Nuclear Power Plant-N.J., Limerick Nuclear Power Plant-P.A., and Dresden/ComEdison Nuclear Power Plant- II. The work ranged from replacement of filtration systems in Torus and/or Suppression pools, to 120 inch valve seal replacement in condenser bays. Well versed in Health Physics Procedures and Nuclear Power Plant procedures and protocols.
- Fukushima Nuclear Power Plant, Japan Performed vibration instrumentation removal of 1F1 steam dryer. Removed conduit and sensor brackets from dryer, then ground welds and buffed permanent pads. Vacuumed dryer and performed complete video inspection. Remote tooling performed to repair and install access hole covers in two reactor vessels. Temporary covers were E.D.M. cut and ground smooth with hydraulics. New covers were installed and welded.
- Oahe Dam, South Dakota; Donald C. Cook Nuclear Power Plant, respectively. I worked with Army Corps of Engineers in R.O.V. inspection of draft tube discharge portals. Performed diving operations to repair damaged draft tubes. Maintained/operated hyperbaric chamber as on site authority. In Michigan, Zebra mussel containment and elimination diving operations were performed. General maintenance in water bays on traveling screens, and trash racks. Pipe penetration dives performed with video inspections. Nuclear dives performed in storage tanks to repair leaking pipes.
- Countless other jobs at 14 nuclear power plants across the U.S., hydroelectric plants, water reclamation plants, refineries, dams, and others both in open water and fresh water. I continually mentored younger divers in safety and the trade.

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## **CURRICULUM VITAE**

### ***Education***

M.S. Geology, California State University, Sacramento

B.S. Geology, Geophysics Emphasis, University of California, Davis

### ***Professional Employment***

- 2014 Schneider Geology
- 2007-14 Senior Geologist / Office Manager / Portfolio Manager, Conestoga-Rovers & Associates
- 2005-07 Senior Project Geologist, Ninyo & Moore Environmental Consultants
- 2003-05 Project Environmental Geologist, Bryan A. Stirrat & Associates
- 2001-03 Staff Geologist, HydroGeoLogic, Incorporated
- 2003 Formation of Schneider Geology
- 1995-01 Staff Geologist, Borella Geology, Certified Engineering Geology
- 1996-98 Results Entry Supervisor, Quest Diagnostics Incorporated
- 1989-00 Foreman, Professional Commercial Diver, Underwater Construction Corporation
- 1984-89 USMC – Military service overseas.

### ***Professional Certifications:***

- Professional Geologist, California, No. 7914
- Professional Geologist, Idaho, No. 4231
- California Contractor “A” with Hazardous Substances Removal Certification
- California Contractor “C-57” Water Well Driller, Subject Matter Expert (SME)
- California Quality Stormwater Developer / Practitioner (QSD/QSP), No. 20084
- Current CPR, 1<sup>st</sup> Aid Certifications;
- CPL Person in Charge (PIC)
- Managing Safe Work (MWS) trained
- TWIC holder
- Certified Commercial Air Diver No. 4392
- Diver Medic/Hyperbaric Chamber Medic
- California EMT-1A (now expired, but held for 14 years)
- 40-Hour OSHA HAZWOP Training
- 8-Hour OSHA HAZWOP Refresher Training (current 2013)
- eRail Safe Certified
- Smith System Driver’s Education Certified
- Radiation Safety Officer (RSO)
- OSHA competent person for excavation, confined spaces, etc.
- Certified rigger for S.O.N.G.S.

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## ***Professional Affiliations***

CASQA  
American Geophysical Union (AGU)  
Association of Environmental and Engineering Geologists  
Geological Society of America (GSA)  
National Ground Water Association (NGWA)  
Association of Environmental & Engineering Geologists  
Western States Petroleum Association (WSPA)

## **TEACHING EXPERIENCE**

2005 – 2014 (currently teaching)

**Saddleback Community College**, Mission Viejo, California

Associate Professor, Oceanography & Geology - Part-time, Spring & Fall Semesters.

Class sizes approximately 30. Additionally, I have led over 30 geologic field trips across western US. Also, co-leader for numerous Oceanographic trips led from Dana Point, California. I have accompanied over 100 other geologic trips in western U.S.

2014 (currently teaching)

**California State University Long Beach (CSULB)**, Long Beach, California

Lecturer, Natural Disasters - Part-time, Adjunct Faculty teaching Earth Science. Class sizes approximately 112.

2013 - 2014 (currently teaching)

**Santa Ana College**, Santa Ana, California

Associate Professor, Earth Science - Part-time, Adjunct Faculty teaching Earth Science.

Class sizes approximately 60.

2003

**California State University, Sacramento (CSUS)**, California

Graduate Teaching Associate, Earth Science for Teachers Laboratory Instructor, Spring Semester

## **Conclusion**

If you need consulting, safety, or geologic services to solve environmental, stormwater, groundwater, or other challenges, **SCHNEIDER GEOLOGY** looks forward to serving you. We are committed to delivering a product beyond your expectation ahead of schedule and on budget.

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