GARY C. SANDSTROM

Certified Engineering Geologist

EXPERIENCE

September 2007 – Present – Self-employed as CEG: Geohazard and geotechnical site exploration, construction observation.

February – June 2007, GeoDesign Inc.: Geotechnical site exploration and construction observation.

July 2004 – January 2007, PacRim Geotechnical, Inc.: Geotechnical site explorations, primarily logging of sonic rotary borings for the City of Portland Eastside CSO project and Portsmouth Force Main project.

July 2003 – June 2004, GeoStandards, Inc.: Primarily site-specific geohazard and geotechnical reconnaissance and evaluation, including geologic literature searches, drafting site plans and cross-sections, hand auger and drive probe investigations, report writing and construction monitoring. Specializing in slope stability investigations.

1992 – July 2003, Shannon & Wilson, Inc. (formerly Fujitani Hilts & Associates): Soil sampling (inspection of borings and test pits) and generation of associated geologic site evaluation reports, laboratory testing of soil samples, performing utility locates and acquiring right-of-way use/construction permits from City of Portland and other agencies, arranging sub-contractors for field operations, construction monitoring, environmental sampling, literature searches and drafting of geologic maps and cross-sections.

Logging experience with mud rotary, hollow stem and solid-flight augers, rock and pavement coring, air rotary, ODEX, cable tools, Becker systems, hand augers, etc. Installation and measurement of vibrating-wire and standpipe piezometers, and inclinometers. Use of various measurement devices to generate site maps and locate testing locations. Laboratory testing of samples including moisture contents, unit density, compaction, CBRs, consolidation, unconfined tri-axial, grain-size analysis and hydrometers, direct shear, fracture logs and point-load testing. Performing infiltration tests and monitoring pump tests. Construction monitoring including Nuclear Field Density testing, sub-grade and fill inspection; installation of geopiers, soldier-, auger-cast- and driven piles; supervising removal of contaminated soils.

Projects including Westside Light Rail Tunnel, Hillsboro Extension of Light Rail, Southwest Parallel Interceptor; Carolina, Taggart, Tanner Creek and Alder Basin projects; Columbia Slough Consolidation Conduit, CSO Outfall, Inverness Force Main, Seattle Light Rail and Commuter Rail, Arizona Beach Landslide, Spokane Monitor Wells; numerous landslide, bridge, waterline, airport and school projects.

1981 – 1992, EXLOG International, EXLOG USA, EPOCH Well-Logging, Western Geo-Engineers and Analysts/Schlumberger in North Sea, Oregon, California and Gulf of Mexico. Computer operator and logging engineer for oil and gas exploration and development. Computer and hand-drafting of mudlogs, engineering logs and reports, daily and final well reports, monitoring drilling operations, sample collection and classification; installing, maintaining and operating gas detection devices and other remote sensing/monitoring equipment.

PROFESSIONAL LICENSES AND TRAINING

State of Oregon - Certified Engineering Geologist and Registered Professional Geologist (E1452)
State of Washington – Geologist with Engineering Specialty (#1457)
HAZWOPER 40-hour
Seminars and short courses in Radiation Safety/Nuclear Field Density (Troxler), Confined Space Entry, Off-Shore Survival School (Robert Gordon Institute of Technology, Aberdeen, Scotland), and various oil and gas logging courses

EDUCATION

B.S. Geology, Oregon State University, 1977
B.A. Anthropology, Oregon State University, 1975
Graduate School at Northern Arizona University, 1980-81

ADDRESS AND PHONE

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