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Garrison Engineering
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Education

B.S.C.E., University of Washington, 1973
A.A.S.D., Industrial Power and Controls, North
Seattle Community College, 1998
B.S., Electronics Technology, Western Washing-
ton University, 2001

License and Registration

- Registered Professional Engineer, Civil Washington 1978; New Mexico 1999, Hawaii 2007, Oregon 2007
- Washington State Department of Health (WSDOH) certified Water Distribution Mgr II
- WSDOH certified Water Treatment Plant Operator-in-training
- Life Member of AWWA, member of WEF and SSPC

Presentations and Papers

- Surface Water Treatment for Potable Water Systems, WOW Conference
- Survey of Disinfection, Evergreen Rural Water
- Inorganic Water Treatment, Wow Conference
- Membrane Water and Waste Water Treatment, WOW Conference 2003
- Back Country Water Treatment on the Santa Fe Trail, PNW AWWA 2004
- Arsenic Regulations and Solutions , Evergreen Rural Water 2002
- Starting Asset Management for Water Booster Sanitary Sewer Collection, PNW AWWA 2006
- Reservoir Maintenance, PNW AWWA 2006
- Bellevue Reservoir Water Quality –Midway Point, PNW AWWA 2007
- City of Bellevue Water Quality Distribution System Monitoring, AWWA WQTC Seattle 2009

Summary of Professional Experience

- Garrison Engineering 11/1/09 to Present, Senior Project Engineer.
- City of Bellevue, Senior Engineer, 1/05 to Present
- Hammond, Collier, Wade-Livingstone Engineer, Principal and Senior Engineer 9/90 to 12/04
- Parametrix Inc, Project Engineer, 8/88 to 9/90

- Hammond, Collier and Wade-Livingstone Engineers, Project Engineer 4/77 to 2/81
- City of Renton, Surveyor and Project Engineer–4/73 to 4/77

Representative Experience

- City of Bellevue reservoir water quality
- Water Treatment, Inorganic Removal, 15 Water treatment plants to remove Iron, Manganese, Hydrogen Sulfide, Arsenic and Sea-water Desalting RO
- Water Treatment Corrosion Control projects using Limestone Contactors, Corrosion Inhibitors, and Aeration Systems
- Surface Water Treatment, 13 Water Treatment Plants using bag filters, diatomaceous earth, chemical coagulation, and slow sand processes
- Water System Disinfection & Chemical Oxidation using Ultra Violet, Chlorine Gas Hypo chlorite on-site generation, Hypo chlorite bulk or liquid bleach, and Ozonation
- Plumbing/Transmission/Distribution Systems, 22 Water Systems
- Reservoirs, 21 Projects: Concrete, Welded Steel, Bolted Steel & Plastic
- Environmental, 2 SEPA Projects and 1 Underground Tank Removal Project
- Stormwater Management, 9 Projects; Detention Ponds, Infiltration systems, large regional flood control system, dikes and revetments
- Private Sector Development, 6 Subdivisions
- Municipal Codes and Standards, 5 Projects
- Plan Checking/ Technical Review/Construction Inspection, 3 Projects
- Airports, 3 Projects
- Transportation, 12 Projects
- Institutional, 6 Projects
- Wastewater Treatment, 5 Projects

Representative Experience

Water System Plans
14 different jurisdictions in WA
13 Projects; Gravity, Grinder pumps+ Pressure systems & STEP