

Elizabeth Burdick

AUG 21 2024

From: Steve Studer <sstuder@berchemmoses.com> **LAND USE DEPARTMENT**
Sent: Wednesday, August 21, 2024 4:30 PM
To: Elizabeth Burdick; Harry Heller; Peter Gelderman
Cc: Michael Giggey; Karl Acimovic (acimovick@grotonutilities.com); Karl Acimovic; Kym Haury
Subject: Resumes - Avery Brook Homes, LLC PZ#24-2RESUB
Attachments: MDGiggey Resume--Aug2024.pdf; Karl Acimovic - GU Resume - 2024.pdf; Karl Acimovic Resume - Aug2024.pdf

Good afternoon, Liz and Harry. To avoid taking time for this "housekeeping" matter at the hearing, attached are 3 resumes for GU's 2 experts, Michael Giggey and Karl Acimovic. Please note that Karl has 2 resumes, a general resume and one which focuses on his consulting services for GU. Pls enter the 3 into the record. Thank you. Steve



Stephen W. Studer



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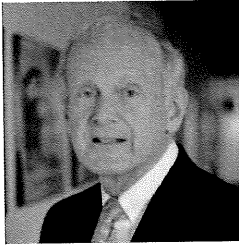
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Michael D. Giggey, PE

SENIOR VICE PRESIDENT

Project Assignment: Water Quality Technical Advisor

Education

M.S., Environmental Engineering, Stanford University

BS, Civil Engineering, Tufts University

Professional Registration

Massachusetts
Maine
Connecticut
New Hampshire

Experience

50 Years

Joined Firm

1978

Professional Affiliations

New England Water Environment Association
Water Environment Federation
National Groundwater Association
American Water Resources Association

Publications/Presentations

Giggey, M.D., Dudley, B., Ridley, C., "A Watershed Permit to Facilitate Nitrogen Management in Cape Cod's Pleasant Bay," New England Water Environment Association, January 2019

Giggey, M.D., Leonard, E., "A Better Mousetrap? Evaluating Non-Traditional Nitrogen Control Measures for Cape Cod and the Islands," New England Water Environment Association, January 2017

Experience Summary

As Technical Advisor, Mike is responsible for watershed management planning, assessment of water quality problems, coordinating the technical efforts of the diverse project teams, providing QA/QC on technical reports, and interfacing with regulatory agencies on difficult and non-traditional issues. Mike has special expertise in nitrogen management and decentralized wastewater collection, treatment, and disposal. His 50 years of professional experience include a wide range of environmental engineering projects. He has served as project engineer or project manager on the design and construction of roadways, solid waste management facilities, organic waste composting, sewers, and wastewater treatment plants. He often provides assistance to planning commissions, planning boards, and boards of health on water quality issues and has regularly served as an expert witness in regulatory and adjudicatory disputes.

Relevant Project Experience

Climate Adaptation Action Plan, Pleasant Bay, MA

Evaluated climate resiliency options for eight case studies of municipal facilities for water supply, stormwater management, wastewater management and public Bay access. Assisted in the development of sea level rise projections, and a framework for evaluation of grey and green infrastructure. Participated in public outreach activities.

Watershed Permit, Pleasant Bay, MA

Served as lead technical advisor to the Pleasant Bay Alliance in the development of a targeted watershed management plan that became part of the first-in-Commonwealth watershed permit for Chatham, Harwich, Brewster, and Orleans. Assisted in permit negotiations with Massachusetts DEP for both the original 2018 permit and for the updated permit expected in 2024. Prepared annual reports to document permit compliance including documentation of nitrogen removal credits.

Cape Cod Area-Wide Water Quality Management Plan, MA

For the Cape Cod Commission, assessed the cost information contained in the 208 plan update to judge the accuracy and relevance of a large database of cost information for traditional and non-traditional nitrogen management approaches.

Nitrogen Credit Trading Evaluation, Cape Cod, MA

For the Pleasant Bay Alliance, prepared a report to document the applicability of nutrient credit trading approaches to reduce nitrogen control costs in the Pleasant

Bay watershed.

Groundwater Recharge Permitting, Yarmouth, MA

Provided technical assistance to the Town of Yarmouth related to its need for a groundwater discharge permit for its planned new water resource recovery facility. Led a team of town, state, and consultant representatives to determine how best to address concerns over water table rise and its impacts on wetlands near the recharge site.

Giggey, M.D., "How Can Martha's Vineyard Towns Incorporate Non-Traditional Approaches into Their Nitrogen Management Plans?" MVC Innovation Conf, May 2016

Water Quality Plan, Martha's Vineyard, MA

For the Martha's Vineyard Commission, prepared an overview of technologies relevant to the control of diverse nitrogen sources to protect the island's coastal embayments.

Giggey, M.D., Richardson, M., "Twenty Years of Biosolids Composting," New England Water Environment Association, January 2015

Stormwater Nitrogen Removal Evaluation, Cape Cod, MA

For the Pleasant Bay Alliance, prepared a report to assess the feasibility for Pleasant Bay watershed towns to achieve nitrogen removal credits from stormwater management activities they have completed or will undertake.

Giggey, M.D., "Survey of New England Drip Dispersal Experience and Costs," New England Water Environment Association, January 2014

Nitrogen Management Planning, Orleans, MA

Serving as principal-in-charge for the implementation of a nitrogen management plan to address the Town's obligations under the Pleasant Bay Watershed Permit and those obligations expected under upcoming permits for Nauset Harbor and Rock Harbor. Documenting nitrogen removals from traditional sewer systems and from shellfish aquaculture and a permeable reactive barrier.

Giggey, M.D., Hoyt, J., "Drip Dispersal of Wastewater Effluent Finds Uses in New England," *New England Water Environment Association Journal*, Fall 2014

Water Supply Protection, Groton, CT

Served as expert witness in hearings related to local approval of a 26-lot subdivision proposed to be located adjacent to a public water supply reservoir in a neighboring town.

Giggey, M.D., Ridley, C., "Managing Growth in Nitrogen-Sensitive Watersheds Can Reduce Cape Cod Wastewater Infrastructure Costs," New England Water Environment Association, January 2014

Evaluation of Decentralized Wastewater Options, Old Saybrook, CT

Served as technical advisor in a study that compares a 77,000-gpd public satellite wastewater treatment plant with the repair and upgrading of 1,960 existing septic systems. Service area is seasonal waterfront on Long Island Sound. Identified and evaluated diverse sites for effluent disposal to the land, using drip dispersal.

Giggey, M.D., "Vertical Effluent Disposal Systems Offer Cost and Space Savings", New England Water Environment Association, January 2013

Decentralized Wastewater Treatment and Disposal, Cohasset, MA

Principal-in-charge of the permitting and design of a decentralized wastewater treatment and disposal system for a 200-unit apartment complex. Provided testimony in relation to an appeal to the Housing Appeals Board, and expert advice in conjunction with an appeal of the DEP groundwater permit. Wastewater is treated in a 38,000-gpd MBR and disposed of via rapid infiltration and drip dispersal.

Giggey, M.D., "Survey of New England Experience with Drip Dispersal for Effluent Disposal", New England Water Environment Association, January 2012

Wastewater Treatment Plant, Pinehills Community, MA

For a private developer, provided planning, design and construction services for a 0.15-mgd SBR treatment plant on a 300-acre parcel in Plymouth. Provided oversight of the testing and design of 5 rapid infiltration basins for disposal, with downgradient water recovery for irrigation.

Giggey, M.D., "Managing Nitrogen Loads in Coastal Embayments: The Benefits and Hurdles of Watershed-Based Solutions," New England Water Environment Association, January 2011

Leonard, E., Giggey, M.D.,
"Managing the Cost of Future
Growth to Ensure the
Sustainability of Small
Wastewater Systems," New
England Water Environment
Association, September 2010

Giggey, M.D., "Countering the
Fear of Uncontrolled Growth:
Tools for Ensuring that your
Wastewater Project is 'Growth
Neutral'," New England Water
Environment Association,
January 2010

Giggey, M.D., "Can
Decentralized Systems Save
Money? Comparing the Costs
for Individual, Cluster, Satellite
and Traditional Centralized
Wastewater Management,"
New England Water
Environment Association,
January 2009

Giggey, M.D., "Cluster Systems:
A Decentralized Approach to
Enhanced Wastewater
Management," Wastewater
Workshop Series, August 2008

Giggey, M.D., and B. Murphy,
"Role of Local Boards of Health
in the Oversight of Private
Wastewater Treatment
Facilities," New England Water
Environment Association,
January 2008

Giggey, M.D., "Focused
Wastewater Planning: What
Makes a Successful CWMP?"
Cape Cod Commission
Conference Restoring and
Protecting Coastal Waters,
November 2006

M.D. Giggey, "Porosity of
Biofilter Media," *Proceedings,
WEF Conference on
Biofiltration*, Los Angeles,
October 1995

Evaluation of Groundwater Impacts, North Kingstown, RI

On behalf of the Planning Commission, conducted nitrate loading studies for two development proposals involving a golf course residential community and an affordable housing project.

Evaluation of Upgrading Needs at Commercial Wastewater System, Wrentham, MA

Principal-in-charge for evaluation and design of upgrading of a 75,000-gpd treatment system with subsurface disposal. The treatment system includes an MBR with supplemental treatment processes to allow effluent reuse for toilet flushing in a shopping center.

Design and Permitting for Effluent Disposal using Wicks, Tisbury, MA

Principal-in-charge of evaluation of effluent disposal and reuse sites, focusing on protection of nitrogen-sensitive coastal embayment. Designed and permitted a wick-type disposal system that is now in place for 200,000 gpd.

Treatment Plant and Wick Disposal System, West Island, Fairhaven, MA

Served as principal-in-charge of the planning, design, and construction phases of a 100,000-gpd RBC treatment plant. Conceived, designed, and permitted an innovative effluent disposal system consisting of 4 wicks that convey tertiary effluent through a surficial layer of dense glacial till.

Sewer System and SBR Wastewater Treatment Plant, Oak Bluffs, MA

Served as principal-in-charge of Wright-Pierce's work in the planning, design, and construction phases of the sewerage system for this Martha's Vineyard community. The project includes a combination gravity and low-pressure sewer system, a 0.32-mgd SBR plant, and a 7-acre subsurface disposal system in Ocean Park.

Review of Private Development Projects, Yarmouth, MA

For the Board of Health, provided technical review of over ten development proposals utilizing advanced treatment of wastewater, primarily for nitrogen control. Conducted the annual review of operations at six private wastewater treatment facilities.

Evaluation of Vacuum Sewers, Provincetown, MA

Conducted an evaluation of the failure of a vacuum sewer system at a resort community and critiqued proposed design and operational improvements.

Evaluation of Septic System Impacts on Groundwater, Nantucket, MA

Served as expert witness in a dispute over potential groundwater impacts of private septic system on nearby private drinking water wells. Conducted nitrate loading analysis and performed groundwater modeling to predict possible impacts.

Michael D. Giggey, PE

Karl F. Acimovic, P.E. & L.S.

Education: Mathematics, BA
Civil Engineering, BS
Graduate Courses in Engineering (Water Related, Hydraulics,
Geotechnical)

Professional Licensing / Registration:

Professional Engineer, Connecticut
Professional Land Surveyor, Connecticut

Professional Membership Affiliations:

American Water Works Association (Also New England & CT Sections)
American Society of Civil Engineers (Also CT Section)
Water Environment Federation
American Association of Dam Safety Officials
Connecticut Association of Land Surveyors
American Concrete Institute

Karl Acimovic, P.E. & L.S. – Project Descriptions / Consultant to Groton Utilities

Permitting:

Prepare permit applications for environmental and water related projects to the Department of Environmental Protection, Department of Public Health and other Local, State and Federal Agencies as required. This includes mainly water and sewer related projects, but on occasion also electric facilities.

Update and keep permits current, particularly annual diversion permit reports to satisfy permit conditions for metering and other activity monitoring.

Examples: Diversion Permits (DEP), Change-In-Use Permits (DPH), Marine Facilities at the PAF (DEP), Air Quality Permits for Generators (DEP), Underground and Aboveground Fuel Storage Containers (DEP and Federal), Inland Wetland Permits (Local), etc.

Design Projects:

Assist Project Management with preparation of design plans, technical specifications and contract documents for both permitting and bidding, related to water sewer and electric projects.

Examples: Water & Sewer Pump Station Construction, Modifications and Upgrades; Pump Replacements at Various Facilities (Water Treatment Plant Low Lift & High Lift); Project Management Building, Performance Specifications for

Bidding and Site Plans for Local and State DPH Review; Electrical Substation Foundation Design, Site Plans, Security Enhancements and Spill Containment; Gravity and Force Main Sewer Installations; Water Main Installations; GIS (ESRI) and AutoCAD Mapping and Drafting; Dam Repair and Rehabilitation Projects, including hydrologic and hydraulic assessments of the Groton Utilities watershed areas; etc.

Dams & Reservoirs:

Perform dam inspections, including structural evaluations of embankments, spillways, gatehouses and associated facilities; evaluate toe drain discharges and piezometric water grade lines at earth embankments; design improvements, modifications and repairs to dams, including plans, technical specifications and contract documents; prepare emergency action plans for high and significant hazard dams for potential storm events that could impact downstream infrastructure and built-up areas; etc.

Inspections, Contract Administration, Troubleshooting:

Assist Project Management staff with daily problematic situations as they occur.

Reports & Studies, Miscellaneous:

Assist staff with long range analyses and studies such as preparation of information dealing with hydraulic modeling, water supply plans, conservation plans, emergency plans, drinking water quality management plan, stream flow analyses, etc.

Assist Project management in review of site plans, designs, calculations and reports / studies from other consultants, both for in-house submittals and those from local land use agencies.

Past & Ongoing Special Projects:

Drinking Water Quality Management Plan (DWQMP) – This plan drew together various stakeholders from Southeastern Connecticut communities in promoting a clean source water program, while protecting the existing economic base and promoting growth in trade and industry through a wise use of natural resources within our watershed. For the past many years, I have been working with Management to promote and maintain a concern for watershed resources through the development of a plan specifically designed for Groton Utilities. While the plan has now been completed, I continue to act as a liaison between Groton Utilities, stakeholders and regulators.

Water Supply Plans (WSP) – These plans, mandated by the State of Connecticut Department of Public Health (DPH), are dynamic plans requiring periodic updates to satisfy regulatory obligations. Past plans, adopted and approved by the Department of Energy & Environmental Protection (DEEP) and the Department of Health (DPH), included those prepared for both Groton Utilities and the Town of Ledyard WPCA. Because of the substantial amount of information required to

be addressed, work on background data is continually being analyzed and compiled in a timely fashion in order to be prepared for required updates. In my capacity of assisting Project Management, I periodically review the current plans, identify the need for sections to be updated, categorize the work that we could accomplish with in-house staff, and draw up an RFP for those items requiring outside consulting services. Groton Utilities then compiles the final report to be submitted to the DPH and DEEP.

Conservation Plans & Emergency Operations Plans – These plans, again mandated by the State of Connecticut Department of Public Health and the Department of Energy & Environmental Protection, are required as appendices to the Water Supply Plan and to DEEP Diversion permitting. Both of these were prepared in-house for the most recent WSP submittals. To assist Project Management staff, I continue to provide assistance in updating these two plans.

Minimum Stream Flow Requirements – The State of Connecticut, Department of Environmental Protection, has instituted into law new minimum standards for stream flows throughout the State. These rules have a significant impact upon the water industry – particularly those (e.g., Groton Utilities) that rely on surface water resources. I have been working with Project Management and Water Treatment Plant staff over many years in analyzing flows from influent streams such as Great Brook and Thompson Brook and continue to contribute toward a working management plan that meets current and future DEEP requirements.

Karl Acimovic, P.E. & L.S. – Consulting Engineer in Private Practice

For the past 36 years, I have been an independent consultant providing services to a varied clientele. Previous to that, work included professional services to both surveying and engineering firms over a 20-year period. Current and past work has included a wide spectrum of projects in the civil engineering field with municipal, State and Federal clients with respect to water resources, dams, infrastructure and other various fields.

KARL F. ACIMOVIC, P.E. & L.S.

CONSULTING ENGINEER

588 STONEHOUSE ROAD
COVENTRY, CONNECTICUT 06238
(860) 742-9019

- EDUCATION:** B.A., MATHEMATICS, UNIVERSITY OF CONNECTICUT
B.S., CIVIL ENGINEERING, UNIVERSITY OF CONNECTICUT
GRADUATE STUDY, UNIVERSITY OF CONNECTICUT
- REGISTRATIONS:** PROFESSIONAL ENGINEER, STATE OF CONNECTICUT
PROFESSIONAL LAND SURVEYOR, STATE OF CONNECTICUT
- AFFILIATIONS:** American Society of Civil Engineers (Member)
American Water Works Association (Member)
New England Water Works Association (Member)
Connecticut Association of Land Surveyors (Member)
Assoc. of State Dam Safety Officials (Assoc. Member)
American Concrete Institute (Member)
Water Environment Federation (Member)
PADI Diving Society (Certified Open Water Diver)

EXPERIENCE:

1986 to Present: KARL F. ACIMOVIC, P.E. & L.S., Consulting Engineer

Currently providing a variety of engineering services to various clients in water resources, sewers, commercial and residential site development, dam design, drainage improvements and land surveying.

REPRESENTATIVE PROJECTS:

Dams and Reservoirs:

NATIONAL DAM INSPECTION PROGRAM, Phase I Reports, U.S. Army Corps of Engineers - Site inspections, preparation of hydrologic and hydraulic analyses, including use of the HEC-1 computer program, preparation of final reports and presentation of final reports to the Corps.

PHASE II AND PHASE III DAM INSPECTION REPORTS, PLANS AND DOCUMENTS - These projects included in-depth hydraulic, hydrologic and structural analyses using HEC and SCS computer programs. It also involved the preparation of construction plans, subsequent construction inspection and supervision, and contract administration. Some representative dam sites include the Poquonnock Reservoir Dam, Morgan Pond Dam, Ledyard Reservoir Dam and Poheganut Dam in Groton, Connecticut (Groton Utilities Dept.); Holbrook Pond Dam in Hebron, Connecticut (Water Resources Unit, Conn. DEP); Bashan Lake Dam in East Haddam, Connecticut (Water Resources Unit, Conn. DEP); Gorton Pond Dam in East Lyme, Connecticut (Water Resources Unit, Conn. DEP); Eagleville Lake Dam in Mansfield and Coventry, Connecticut (Inland Water Resources, Conn. DEP); Morey Pond Dam in Ashford, Connecticut (Inland Water Resources, Conn. DEP); Hatch Pond Dam in Kent, Connecticut (Inland Water Resources, Conn. DEP); and Babcock Pond Wildlife Management Area Dams in Colchester and East Haddam, Connecticut (Inland Water Resources, Conn. DEP).

KARL F. ACIMOVIC, P.E. & L.S.

INSPECTION AND DESIGN WORK FOR CT DEEP / INLAND WATER RESOURCES - Over the last 33 years, work for the department has included inspections of dams requiring repair, assistance with review of submittals to the department and preparation of design plans and specifications for repairs. Through 2022, this has included over 260 dams located throughout the State of Connecticut.

CURRENT AND RECENT MUNICIPAL RELATED ENGINEERING WORK:

Consulting Town Engineer for the Town of Willington, Connecticut - Advisor to the Board of Selectmen and Public Works Department. Work since 1991 includes preparation of plans, specifications and contract documents for public works drainage, road and bridge projects.

Consultant to the City of Groton, Connecticut - As an in-house consultant to the City and its Dept. of Utilities and Public Works, work includes design of new facilities and repair work for the Water Dept. and Water Pollution Control Authority. Current and past projects include dam inspection and rehabilitation; water and sewer system improvements; water and sewer system pump station construction and rehabilitation; inventory, maintenance and replacement of underground fuel storage tanks; hydraulic analyses for fire flows; planning and feasibility reports; preparation of State and Federal permits; and other miscellaneous work.

Windham Water Works - Work for the Willimantic Water Department's Windham Water Works over the past 15 years has included design and contract administration for projects on repairs to Willimantic Reservoir Dam, raw water intake structures, construction of residuals drying lagoons, building addition installation, and dam inspections.

City of New London - Projects over the past 19 years for the New London WWPCA have included dam inspections for the City's drinking water system, preparation of their Water Supply Plan and Conservation Plan, water tank construction, improvements and repairs to various dams in the system, and property acquisition and feasibility studies

Town of Vernon - Projects over the last 12 years have included dam inspections, preparation of plans, specifications, permits and contract documents for dam rehabilitation.

Town of East Windsor - Projects over the last 5 years have included dam inspections, preparation of plans, specifications, permits and contract documents for drainage projects and dam rehabilitation.

DAM BREACH PROJECTS:

Preparation of dam breach plans for East Brass Mill Dam in Waterbury, CT, prepared for the Dam Safety Section of the DEEP, including removal of a concrete structure and earth embankment sections, as well as rerouting of the Mad River to its original location; removal of a portion of the earth embankment of Painter Pond Dam, including rerouting of Mill Brook, in Woodstock; and removal of Bulkley Pond Dam on Sasco Creek, adjacent to Route 1, on the Fairfield - Westport Town Line. Current breach projects include Red Mill Pond Dam and Mohegan Brook Dam, both in Uncasville, CT, and Spaulding Pond Dam in Norfolk, CT.

OTHER:

Town of Coventry, CT - Public Works Facility Study Committee & Public Works Building Committee (2001 - 2012, Chairman). Member of Town Committee for duration of a study of location siting and facility requirements for a new Public Works Garage, selection of design-build contractor, and coordination with Public Works Dept. and Contractor for design and construction of the new garage.

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Education: Mathematics, BA, University of Connecticut
Civil Engineering, BS, University of Connecticut
Graduate Courses in Engineering (Water Related, Hydraulics,
Geotechnical), University of Connecticut

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