

Hey and Associates, Inc.



Education

B.S., Biology/Water Resources—Fisheries, University of Wisconsin— Stevens Point, 1996

Previous Employment

Senior EHS Scientist, Fehr Graham Engineering & Environmental, 2011-2024

Water Quality Specialist II, Lake County Health Department-Lakes Management Unit, 2005-2011

Scientist II, EA Engineering, Science & Technology, 1999-2005

Professional Memberships & Services

Board Member—Illinois Lakes Management Association

President—Northern Illinois Conservation Club

Illinois Chapter American Fisheries Society
IDNR Scientific Collection Permit A25.5357
IDNR Endangered and Threatened Species
Permit 24799

Leonard Dane

Senior Aquatic Scientist

Mr. Dane has over 30 years of professional experience in environmental science. He has designed, managed and oversaw numerous biological and water quality studies of lakes and rivers. Mr. Dane has sampled all life stages of fishes using boat mounted electrofishing, backpack shocker, tow boat shocker, electric seine, fyke nets, hoop nets, and seines. He has conducted continuous water quality sampling using multiparameter sondes and collected discrete water quality samples. Other monitoring that he has done includes continuous flow, freshwater mussels, aquatic invertebrates, aquatic plants, sediment sampling, and wetland delineations. Mr. Dane is a member of the Illinois Chapter of the American Fisheries Society and the Illinois Lakes Management Association, current board member and past president.

Water Quality Planning

Crystal Lake Park District – Clean Lakes Monitoring Grant, McHenry County, Illinois: Planned and installed several logging devices around Crystal Lake to measure inflow and outflow with the purpose of relating that to the water quality sampling results to determine the lake water and nutrient loading budgets.

Crystal Lake Park District – Lake Management Services, McHenry County, Illinois: Assisted with water quality and aquatic vegetation studies used for aquatic vegetation management recommendations.

Prairie Crossing Homeowners Association – Lake Management Services, Lake Leopold, Grayslake, Illinois: Assisted with water quality and aquatic vegetation studies used for aquatic vegetation management recommendations.

Rock River Watershed Group – Nutrient Assessment Reduction Plan (NARP), Rock River Watershed, Illinois. Development and implementation of continuous and discrete water quality monitoring at 17 sites along the Rock River and Kishwaukee River for the development of a NARP.

Fox Metro Water Reclamation District – Continuous water quality monitoring, Oswego, Illinois. Development and implementation of continuous and discrete water quality monitoring at 6 sites along the Fox River from Sullivan Road in Aurora to Orchard Road in Oswego.

Fox River Study Group – Low Flow Monitoring, Fox River Watershed, Illinois. Implementation of continuous and discrete water quality monitoring along the Fox River from the Burtons Bridge, Illinois to Sheridan, Illinois.

Fox River Study Group – Carpentersville Dam Removal, Fox River Watershed, Illinois. Implementation of continuous and discrete water quality monitoring along the Fox River upstream of the Carpentersville Dam to gather data prior to the removal of the dam.

Village of Huntley – Nutrient Assessment Reduction Plan (NARP), Huntley, Illinois. Development and implementation of continuous and discrete water quality monitoring at 3 sites along the Kishwaukee River for the development of a NARP.

Village of Woodstock – Nutrient Assessment Reduction Plan (NARP), Woodstock, Illinois. Development and implementation of continuous and discrete water quality monitoring at 3 sites along Silver Creek for the development of a NARP.

Sevencia Cheese USA, LLC – Antidegradation study of Yellow Creek, Lena, Illinois. Development and implementation of continuous and discrete water quality monitoring along Yellow Creek for a potential industrial discharge.

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City of Aurora – MS4 Permit Quarterly Sampling, Aurora, Illinois. Development and implementation of quarterly discrete water quality monitoring along the Fox River, Indian Creek, Blackberry Creek, and Waubonsie Creek as well as quarterly storm event sampling.

Woodridge Greene Valley – Mixing Zone Study, Woodridge, Illinois. Used rhodamine dye and a multiparameter sonde to map the effluent plume of the wastewater treatment plant.

Torkelson Cheese Company – Mixing Zone Study, Lena, Illinois. Used a multiparameter sonde to measure conductivity in Waddams Creek to determine the mixing zone on the effluent discharge.

City of Mendota – Mixing Zone Study, Mendota, Illinois. Used a multiparameter sonde to measure conductivity in Mendota Creek to determine the mixing zone of the wastewater treatment plant effluent.

Fox Metro Water Reclamation District – Mixing Zone Study, Oswego, Illinois. Used a multiparameter sonde to measure conductivity in the Fox River to determine the mixing zone of the wastewater treatment plant effluent.

Wetland Delineation & Permitting

City of Loves Park – Wetland Reconnaissance and Delineation along Spring Creek, Loves Park, Illinois. Site investigation and delineation for a stream restoration project along Spring Creek.

Fox Metro Water Reclamation District – Solar Field #2 Wetland Reconnaissance and Delineation, Oswego, Illinois. Site investigation and delineation for the expansion of a solar field on District property along the Fox River.

Oswegoland Park District – Wetland Reconnaissance and Delineation at Fox Bend Golf Course, Oswego, Illinois. Site investigation and delineation for a culvert replacement project at Fox Bend Golf Course.

West Aurora School District – Farmed Wetland Reconnaissance and Delineation, Aurora, Illinois. Site investigation and delineation for possible development of agricultural land owned by the school district that had historic wetlands present.

Transystems – Wetland Reconnaissance and Delineation along the South Branch of the Kishwaukee River, Kirkland, Illinois. Site investigation and delineation for a bridge replacement project on Pearl Street.

City of Glen Ellyn – Wetland Reconnaissance and Delineation along the East Branch DuPage River, Glen Ellyn, Illinois. Site investigation and delineation for a water and sewer main project along Hill Avenue.

City Geneva – Wetland Reconnaissance and Delineation along the Fox River, Geneva, Illinois. Site investigation and delineation for a sanitary sewer project that will go under the Fox River.

City of South Beloit – Wetland Reconnaissance and Delineation along the Rock River, South Beloit, Illinois. Site investigation and delineation for a sanitary sewer project that will go under the Rock River.

Byron Park District – Wetland Reconnaissance and Delineation along the Rock River, Byron, Illinois. Site investigation and delineation for a community park redevelopment project along the Rock River.

Woodridge Greene Valley Wastewater Treatment Plant – Wetland Reconnaissance and Delineation, Woodridge, Illinois. Site investigation and delineation for a wastewater treatment plant expansion project.

Ecological Inventories/Surveys

United City of Yorkville – Mottled Sculpin survey on Blackberry Creek, Yorkville, Illinois. Construction oversite of the dewatering of Blackberry Creek to ensure all fish trapped in the dewatered area are removed with the species of concern being the mottled sculpin. Conduct post construction monitoring in years one and 3 post construction.

Fox Metro Water Reclamation District – Biological Monitoring, Oswego, Illinois. Development and implementation of biological monitoring of fish, macroinvertebrates, and mussels at 6 along the Fox River, Indian Creek, and Waubonsie Creek from Sullivan Road in Aurora to Orchard Road in Oswego. This project included developing a conservation plan, securing an Incidental Take Authorization, and the monitoring of the threatened and endangered redhorse species.

City of Wauconda – Comprehensive Fish Survey of Bangs Lake, Wauconda, Illinois. A comprehensive fish survey, including the threatened and endangered species, was conducted of Bangs Lake and a summary report with the findings along with recommendations was developed.

Loon Lakes Management Association – Threatened and Endangered Fish Survey of East and West Loon Lakes, Antioch, Illinois. A T&E fish survey, was conducted on East and West Loon Lakes and a summary report with the findings was developed.

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Lake Thunderbird Association – Comprehensive Fish Survey of Lake Thunderbird, Putnum, Illinois. A comprehensive fish survey was conducted of Lake Thunderbird and a summary report with the findings along with recommendations was developed.

Lake Wildwood Association – Comprehensive Fish Survey of Lake Wildwood and Lake Tanglewood, Varna, Illinois. A comprehensive fish survey was conducted of Lake Wildwood and Lake Tanglewood and a summary report with the findings along with recommendations was developed.

Lake Leopold – Comprehensive Fish Survey of Lake Leopold, Grayslake, Illinois. A comprehensive fish survey, including the threatened and endangered species, was conducted of Lake Leopold and a summary report with the findings along with recommendations was developed.

Bass and Gill Club – Comprehensive Fish Survey of Main Lake, Catfish Lake, and Harris Lake, Plainfield, Illinois. A comprehensive fish survey was conducted of the lakes and a summary report with the findings along with recommendations was developed.

Sevencia Cheese USA, LLC – Antidegradation study of Yellow Creek, Lena, Illinois. Development and implementation of biological monitoring, including fish, macroinvertebrates, and mussels, of Yellow Creek for a potential industrial discharge.

Torkelson Cheese Company – Freshwater Mussel Study, Lena, Illinois. Conducted a mussel survey upstream and downstream of the effluent discharge along Waddams Creek.

City of Geneva – Freshwater Mussel Study, Geneva, Illinois. Conducted a mussel survey in the vicinity of a proposed open cut trench of the Fox River to install sanitary sewer to the wastewater treatment plant.

Golfview Hills Lake Property Owners – Comprehensive Fish Survey of Golfview Hills Lake, Hinsdale, Illinois. A comprehensive fish survey was conducted of Golfview Lake and a summary report with the findings along with recommendations was developed.

Golfview Hills Lake – Carp Removal from Golfview Hills Lake, Hinsdale, Illinois. Carp were removed by electrofishing over a period of two years in an attempt to bring the population under control to allow native fish to become re-established.

Topographic & Bathymetric Studies

Alpha Terra – Bresen Lake, Hawthorn Woods, Lake County, Illinois; Conducted a bathymetric survey of Bresen Lake.

Wisconsin Wetland Association – Seely Lake, Sauk County, Wisconsin; Conducted a bathymetric survey of Seely Lake in preparation of the dam removal.