



PROPOSAL FOR PROFESSIONAL CONSULTING SERVICES

2020 Stormwater Pond Dredging Project

CITY OF NORTHFIELD, MINNESOTA | MAY 8, 2020



Building a Better World
for All of Us®

Engineers | Architects | Planners | Scientists



Building a Better World
for All of Us®

May 8, 2020

David E. Bennett, PE (MN)
Public Works Director/City Engineer
City of Northfield
801 Washington Street
Northfield, MN 55057

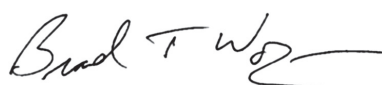
RE: Proposal for Northfield, Minnesota – 2020 Stormwater Pond Dredging Project

The City of Northfield has initiated an important project with your 2020 Stormwater Pond Dredging Project. Short Elliott Hendrickson Inc. (SEH®) has assembled an exceptional team that has experience on similar projects and understands the importance of staying current with your MS4 requirements and SWMP goals and policies.

We have introduced our team and our approach in this proposal, and we look forward to the opportunity to discuss this project with you further. Please don't hesitate to contact me at 651.490.2125 or bwoznak@sehinc.com if you have any questions or would like additional information.

Respectfully submitted,




BRAD T. WOZNAK, PE, CFM
PROJECT MANAGER




WAYNE HOULE, PE
CLIENT SERVICE MANAGER

Wayne has been involved with similar projects on the client's side and knows success and pain points.



CONTENTS

EXECUTIVE SUMMARY1

PROJECT UNDERSTANDING, GOALS, APPROACH.....2

BACKGROUND AND EXPERIENCE5

PROPOSED STAFF6

WORK PLAN12

PROJECT SCHEDULE14

The specific licenses and credentials of the team members are described in the personnel and/or resume section of this document.

©2020 Short Elliott Hendrickson Inc.

The information contained in this Proposal was prepared specifically for you and contains proprietary information. We would appreciate your discretion in its reproduction and distribution. This information has been tailored to your specific project based on our understanding of your needs. Its aim is to demonstrate our ideas and approach to your project compared to our competition. We respectfully request that distribution be limited to individuals involved in your selection process.

SEH is a registered trademark of Short Elliott Hendrickson Inc.

NFIEL 155360

Executive Summary

The City of Northfield is moving forward with a pond dredging project that will support the requirements of your MS4 permit. Based on our experience on similar projects and our understanding of your project needs, we have identified the following critical success factors for this project:

Understanding the City's goals and policies to improve pond buffers and address flood concerns in the Spring Creek Watershed. We know this is a high priority area for the City, where improvements are necessary to meet the standards of the City. To do so, you need an experienced team that knows these standards and can identify potential challenges, such as contaminated soil and flood mitigation. We have selected team members who have seen it all before, with extensive technical experience in these areas, to deliver this project.

The pond restoration and improvements need to fit the characteristics of the neighborhood. Homeowners will be interested in improvements that can be fulfilled as part of the solutions and will be vocal about the project. For example, the aesthetics of the project will be important given the neighborhood and nearby golf course. We bring a multidisciplinary team and draw on experience with pond dredging projects in similar communities to anticipate these challenges, provide targeted outreach and avoid any hindrances to the project's progress.

The project can be delivered more efficiently by incorporating construction staff into the overall process. SEH believes that incorporating our resident project representative (RPR) into other services will streamline project delivery and make it more efficient and effective. We will have our construction staff involved in the process to identify constructability issues or other potential challenges, providing a smooth transition into construction for the improvements.

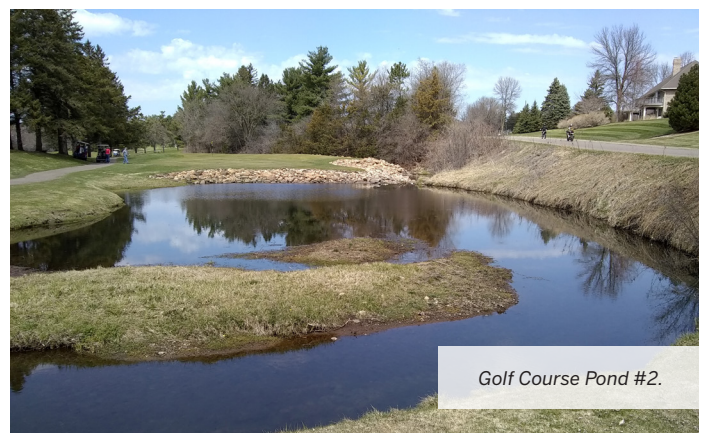
We have carefully selected our SEH team members to meet the goals and challenges of this project. Our philosophy is grounded in our mission to help clients achieve success with sustainable, accessible and enjoyable projects. We look forward to continuing our working relationship with Northfield on this project.



Existing pond buffer area.



Grouted riprap pond overflow structure.



Golf Course Pond #2.



Project Understanding, Goals, Approach

As described in the City's Surface Water Management Plan, we understand the City's desire to maintain or improve water quality and flood storage in the Spring Creek Watershed. Additionally, we understand the City's municipal operation and maintenance responsibilities as a MS4 permittee.

These goals and regulations include restoring and improving Golf Course Pond #2 and Parmeadow Park Ponds #1 and #3 to a condition with an expected service life of 25-30 years. This will allow these ponds to continue to serve the Northfield community with a reduced risk of erosion, sedimentation and inundation of structures, all while allowing for the removal of pollutants from the Spring Creek Watershed.

TASK 1 – PROJECT MANAGEMENT

TASK 1 GOALS

- Maintain desired project schedule and communicate changes
- Meet project budget
- Quality management throughout project
- Team and stakeholder management and coordination

Project Manager Brad Woznak will not only manage the project team, schedule and budget, but also provide technical assistance and guidance from project start to finish to achieve the project goals and objectives as identified in the Request for Proposals (RFP). The project management task will include meetings and correspondence with City Staff to communicate project details and updates.

Brad, assisted by Lead Water Resources Engineer Emily Jennings, will regularly check in with City Staff throughout the project and provide detailed project management updates at the project 50% and 95% milestones submittals.

TASK 2 – PRELIMINARY ENGINEERING AND DESIGN

TASK 2 GOALS

- Gather background data
- Site visit and pond inspections
- Sample and test sediment
- Perform additional survey as needed for plan production

Confirming and meeting the schedule will be vital to a successful project and to minimizing the disruption to Spring Creek and the Woodley/Parmeadow residential area. To ensure that SEH has a full understanding of the project needs, we will perform a desktop evaluation of the site prior to the project kickoff meeting. A site visit and pond inspection will occur following the project kickoff meeting to verify and identify issues and concerns to be addressed within construction. Additional survey needs will be identified and verified with City Staff.

Performed concurrently with the site visit, SEH staff will collect sediment samples for testing using criteria consistent with the Minnesota Pollution Control Agency's (MPCA) 'Managing Stormwater Sediment Best Management Practice Guidance' while paying respect to any newly released data. This new data includes a recent bulletin from the MPCA indicating there are revised soil reference values (SRV), which may allow for more cost effective and additional uses of contaminated excavated materials.

SEH will collect two sediment samples from each of the three ponds included in this project. Prior to collecting the samples, SEH will do a desktop review to determine potential sources of contaminants to determine appropriate analyses. Sediment samples will be collected by a trained environmental scientist documenting sample locations, depths and characteristics. Proper chain-of-custody protocols, sampling and preservation procedures will be followed.

In addition to the need to dredge the identified ponds, the City has also identified freeboard issues between Parmeadow Pond #1 and the low floor of the property located at 1300 Parmeadow Drive. We will review the City's model and get a comprehensive understanding of the lack of freeboard, including model hydrology, routing and calibration.

Using collective data from the model review and data gathered during the desktop evaluation and site visit, SEH will explore potential solutions to mitigate the lack of freeboard. A summary of the potential solutions will be provided to the City, with an approach that considers all available options.

It is our understanding that the Parmeadow Ponds are hydraulically connected via rock weir structures and storm sewer. It is assumed that these connections may require maintenance to address erosion issues or other flow impediments. However, we assume that these connections will function as is, although improved, following construction.

TASK 3 – CONSTRUCTION PLANS, SPECIFICATIONS AND BIDDING DOCUMENTS

TASK 3 GOALS

- Prepare construction plans and specifications, with 50% and 95% milestone submittals to the City
- Prepare engineer's estimate for construction
- Prepare the advertisement for bid and contract documents
- Respond to bid inquiries, issue addenda, open bids and award contract

Using information gathered in the preliminary engineering efforts, SEH will begin final design, including the preparation of construction design plans and specifications for the pond improvements. The plans will clearly communicate the project goals and will be produced to the highest quality to minimize changes during construction.

This will be especially important for a project of this stature – our construction staff will leverage their construction management expertise throughout the design phase to predict and combat potential issues to ensure constructability of the project. These issues include, but are not limited to, potential access issues, changes required due to the unpredictable winter construction season, and tactics aimed for the successful mobile operations of the project, including the removal and disposal of material from the project site.

We understand that Spring Creek runs in-line with these ponds; therefore, determining the appropriate methodology for dredging will be key to the successful construction of this project. We will investigate the pros and cons of both mechanical and hydraulic dredging, including reaching out to contractors for their expertise.

This project provides a unique opportunity for the City to initiate an expanded native buffer wholly or partially around the Parmeadow and Golf Course Ponds. As an added value option to the project, SEH Native Restoration Ecologist Joel Asp will work with the project team and stakeholders to provide recommendations on buffer restoration plans. These recommendations will include native species that "fit" the project area while also improving and promoting habitat and ecology, all with consideration given to any City or public maintenance efforts.

The final bidding documents will consist of construction plans and specifications meeting City and stakeholder requirements for the proposed improvements. An engineer's estimate will be developed using standard bid prices as well as cost data from recent, similar projects. It is assumed that electronic data from the past survey work completed for the 2017 Pond Assessment will be available for incorporation into the plans.

TASK 4 – PERMITTING

TASK 4 GOALS

- Initiate discussions with all potential agencies and stakeholders
- Determine and obtain necessary permits for construction

To enter into a complete and successful final design phase, we will first prepare for and assist the City with successfully obtaining all necessary agency permits for the project.

The Parmeadow and Golf Course ponds are in-line with Spring Creek. The Parmeadow Ponds are located within a FEMA Zone AE for Spring Creek, which is an area of detailed study with a defined Base Flood Elevation (BFE). Due to this fact, it will be necessary to demonstrate that the project will cause no adverse impacts in the BFE to be compliant with the National Flood Insurance Program (NFIP). This effort will be led by Certified Floodplain Manager (CFM) Jordan Thole.

In addition to the NFIP rules, we will also review other potential permitting requirements for the project and support City staff towards assessment and completion of the following approvals:

- MPCA National Pollutant Discharge Elimination System (NPDES) construction stormwater permit
- MPCA NPDES MS4 permit for the City of Northfield
- Minnesota Department of Natural Resources (DNR) Public Waters Work permit
- Wetland Conservation Act permits and approvals and U.S. Army Corps of Engineers (USACE) permits, if wetlands are present within the project area

SEH water and natural resources staff will initiate correspondence with these stakeholders early in the design process to minimize rework associated with requirements and schedule interruptions caused by pending approvals.

TASK 5 – PUBLIC ENGAGEMENT

TASK 5 GOALS

- Host a neighborhood meeting to engage the public
- Present the approved plans, specifications and authorization for bids at a City Council meeting

Public engagement and acquiring informed consent of the neighbors will be very important for this project – these ponds exist in the front and back yards of Northfield residents. We intend to communicate that we will keep the same standard of care as they would.

A neighborhood meeting will be held at approximately the 50% design milestone. SEH is prepared and capable to offer this neighborhood meeting electronically should gathering in groups deter any residents from attending in the event that the current COVID-19 crisis continues through the design process.

Brad Woznak will present the approved plans, specifications and authorization for bids at a future City Council meeting. Additionally, Brad will be prepared to discuss the project in detail and answer any questions or concerns prior to construction.

TASK 6 – CONSTRUCTION SERVICES

TASK 6 GOALS

- As-built survey verification and preparation of record drawings
- Construction administration
- Construction observation
- Project punch list and final acceptance

We will provide the following services during the construction phase:

- Construction administration and observation
- Construction staking
- Monitoring mobile operations
- Project closeout

SEH is currently assisting the City with the TH 246 and Jefferson Parkway Roundabout Improvement Project. This provides a unique opportunity to use the same field staff, including Resident Project Representative Darrin Farley and Survey Crew Chief Chris Munn, between both projects as schedules allow. This will improve efficiencies and minimize overall project fees.



Background and Experience

CITY OF BURNSVILLE, MN

Burnsville Nature Preserve and Susan Fischer Memorial Athletic Complex

Hydrologic and hydraulic analysis, final design and plans and specifications production for excavation and expansion of existing pond system, permitting and construction administration.

North Twin Lake Pond

Hydrologic and hydraulic analysis, final design and plans and specifications production for new pond system, dredging of contaminated sediment from public waters and permitting.

REFERENCE

Ryan Peterson
Public Works Director

☎ 952.895.4459

✉ Ryan.Peterson@burnsvillemn.gov

CITY OF AUSTIN, MN

North Main Flood Mitigation Phases 1-12

Feasibility investigation, hydrologic and hydraulic analysis, floodplain analysis, final design, plans and specifications production, permitting, and construction administration for multiple phases of flood mitigation projects, some of which involved bank stabilization along with planning for contaminated groundwater and sediments.

Wastewater Treatment Plant Flood Mitigation Feasibility Study

Feasibility investigation, hydrologic and hydraulic analysis, and floodplain analysis for a flood mitigation project to protect the wastewater treatment plant (WWTP) which involves a significant bank stabilization component.

REFERENCE

Steve Lang
City Engineer and Director of Public Works

☎ 507.437.9949

✉ slang@ci.austin.mn.us

CITY OF MANKATO, MN

Wilson Creek Watershed Study

Feasibility study to address vegetation and bank stabilization issues along a water course within the City, which included development of a vegetation management plan and public engagement process.

Upper Indian Creek Watershed Study (Rosewood Stormwater Study and Alternatives Analysis)

Feasibility study to investigate potential Rosewood Pond outlet modification alternatives and impacts to water quality and pond high water levels.

Indian Creek Watershed Study

Feasibility study to investigate ravine and slope stability issues and development of alternative stabilization measures, estimation of pollutant and sediment loading to proposed water quality best management practices (BMP), included development of a vegetation management plan.

The reference projects listed above were led by the SEH water resources team and completed with significant contributions from the professional engineers listed in our proposal.

REFERENCE

Michael McCarty
Senior Civil Engineer

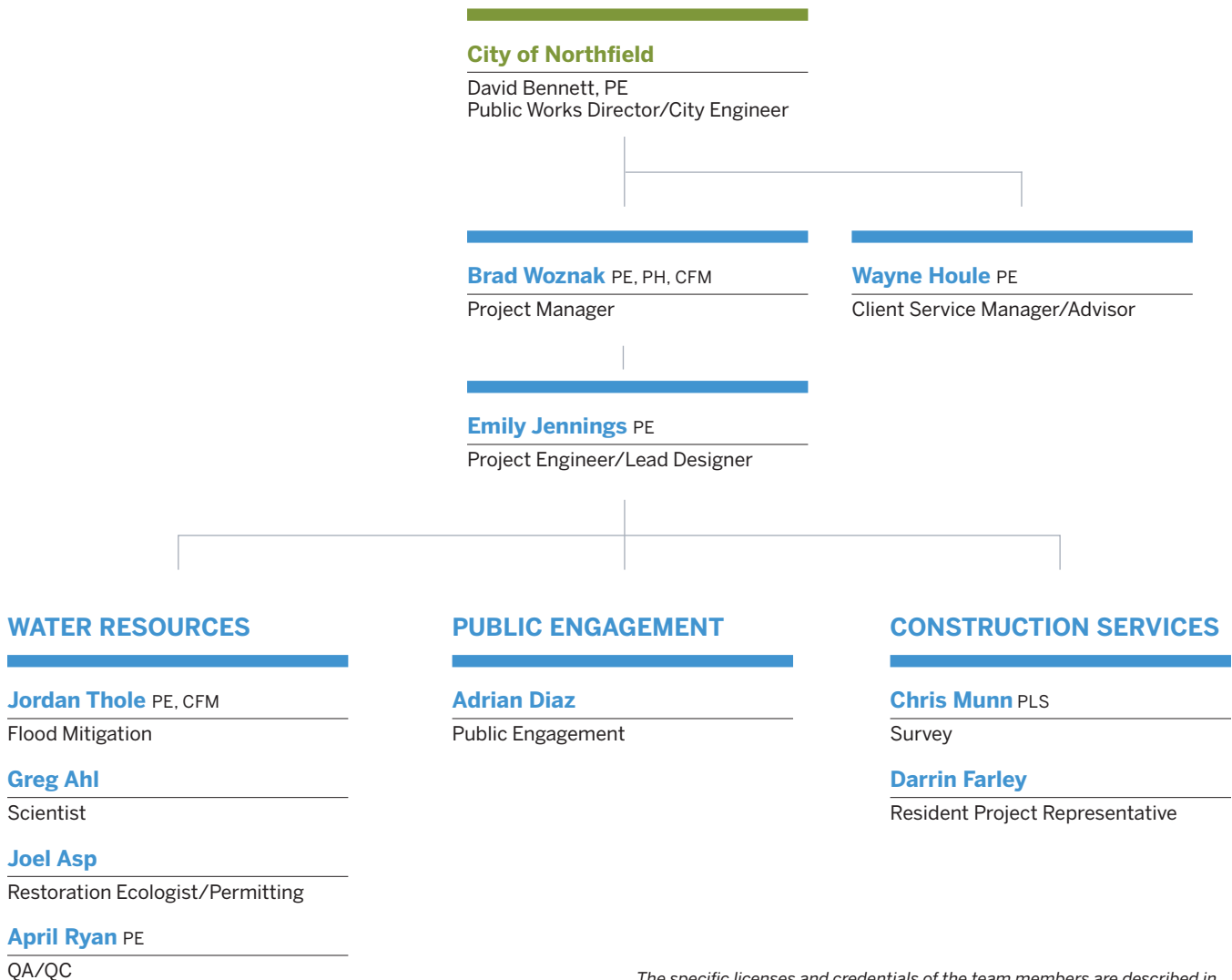
☎ 507.387.8643

✉ mmccarty@mankatomn.gov

Proposed Staff

SEH has assembled team members with complementary experience who believe in a collaborative approach. They will work closely with you to identify needs and concerns and to provide solutions that are customized for the City of Northfield and the affected neighborhood. Each of these team members specializes in their respective role and has experience addressing the tasks for your pond dredging project.

PROJECT ORGANIZATIONAL CHART



BRAD WOZNAK PE, PH, CFM

PROJECT MANAGER

Brad will serve as the overall project manager and primary point of contact, directing the tasks of the project team and ensuring the project stays on schedule and budget. He is a project manager/lead hydraulic engineer with extensive experience with SEH in hydraulic and hydrologic analysis, watershed modeling, floodplain analyses and preparation of detailed plans and specifications. His project experience includes hydrologic and hydraulic modeling studies, design of spillways, outlet works, stilling basins, drop structures, channels and channel structures, interior drainage works, pumping plants and erosion protection.

EXPERIENCE

- o Indian Creek Watershed Study – Mankato, MN
- o North Twin Lake Pond – Burnsville, MN
- o Burnsville Nature Preserve and Susan Fischer Memorial Athletic Complex – Burnsville, MN
- o Minnaqua Pond Improvements – Golden Valley, MN
- o Wilson Creek Study – Mankato, MN
- o Austin Flood Mitigation Projects – Austin, MN



23
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Civil Engineering
University of Minnesota-Minneapolis



REGISTRATIONS/CERTIFICATIONS

Professional Engineer in Minnesota,
Colorado, Indiana, Iowa, Nebraska,
South Dakota and Wisconsin

Hydrologist, American Institute
of Hydrology

Certified Floodplain Manager

WAYNE HOULE PE

CLIENT SERVICE MANAGER/ADVISOR

Wayne will serve as the client service manager and advisor for the SEH team. His prior experience as a City staff person with managing the maintenance and creation of water quality ponds will give great insight to both the City and SEH team. Wayne brings experience in developing collaborative, complex public projects and programs. He is a senior professional engineer with a civil engineering background as a director of engineering, director of public works and city engineer. He worked for the City of Edina for 17 years, where he managed the annual operating and capital improvement budgets and provided leadership and staff support. He was involved in various governmental levels and committees. His work included being an owner's representative for two large pond dredging projects. He has directed and implemented public works projects including storm sewer, sanitary sewer, water system, and street and roadway improvements. Wayne continues to work on complex projects.

EXPERIENCE

- o 2000 Pamela Park– New Treatment Ponds – Edina, MN*
- o 2001 Pamela Park Water Quality Ponds - Pond Dredging – Edina, MN*
- o 2003 Valley View Road Pond Dredging – Edina, MN*
- o 2003 17th Tee Expansion, Braemar Golf Course – Edina, MN*
- o Grand Round North Portion and Wheelock Parkway Reconstruction – St. Paul, MN
- o Division and 7th Downtown Improvement Project – Northfield, MN



29
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Civil Engineering
University of Minnesota-Minneapolis

Associate of Arts
Architectural Drafting
North Dakota State School of
Science-Wahpeton



REGISTRATIONS/CERTIFICATIONS

Professional Engineer in Minnesota

**Prior to joining SEH*

EMILY JENNINGS PE

PROJECT ENGINEER/LEAD DESIGNER

Emily will be the lead design engineer for the pond dredging improvements. She is a professional engineer specializing in municipal, industrial and construction permitting, hydraulic and hydrological analysis, stormwater conveyance modeling and design including roadways, ditches and Best Management Practices (BMP) and construction stormwater inspections. Emily's project experience includes stormwater planning, culvert hydraulics analysis, stormwater management design, stormwater conveyance modeling and design, Stormwater Pollution Prevention Plan (SWPPP) design, and Municipal Separate Storm Sewer Systems program coordination and design.

EXPERIENCE

- WMO Engineer - Vadnais Lakes Area Water Management Organization – Minnesota
- Municipal Separate Stormwater Sewer System (MS4) Engineering and Guidance – Various Communities Throughout Minnesota
- Underground BMP Inspection and Guidance – Woodbury, MN
- TH 61 Drainage and BMP Design – Lake City, MN
- Stormwater Pond Inspections – Shoreview, MN
- Streetscape and Pedestrian Safety Improvements at TH 3 and 3rd Street – Northfield, MN



7
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Civil Engineering
University of Minnesota-Duluth



REGISTRATIONS/CERTIFICATIONS

Professional Engineer in Minnesota
Design of Construction of SWPPP,
University of Minnesota

JORDAN THOLE PE, CFM

WATER RESOURCES ENGINEER/FLOOD MITIGATION

Jordan will be responsible for flood mitigation as part of the design. He is a project engineer with experience in municipal and industrial wastewater and water resource projects. Jordan has developed numerous stormwater management plans, sanitary comprehensive plans and flood protection studies. As a former Wisconsin DNR floodplain and dam safety engineer, Jordan has experience coordinating with the Federal Energy Regulatory Commission to inspect and regulate hydroelectric dams. He was also a technical resource for zoning administrators for FEMA's letter of map change process, reviewed owner responsible dam inspections issuing concurrence letters based on findings, and assisted and led NR 31.19, DNR required inspections of high hazard dams.

EXPERIENCE

- Ebner Coulee Flood Mitigation – La Crosse, WI
- TH 12 Regional Stormwater Modeling – Litchfield, MN*
- 8th Avenue Trail Stormwater Pond Expansion – Forest Lake, MN
- Greenbrier Avenue Reconstruction Stormwater Basin – Vadnais Heights, MN*
- Pump Station #5 Floodwall Excavation and Repair – Minneapolis, MN*



8
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Environmental Engineering
University of Wisconsin-Platteville



REGISTRATIONS/CERTIFICATIONS

Professional Engineer in Minnesota,
Iowa and Wisconsin
Certified Floodplain Manager

*Prior to joining SEH

GREG AHL

SCIENTIST

Greg will lead the sediment collection and analysis tasks. He is an environmental scientist responsible for completing Phase I Environmental Site Assessments (ESAs), Phase II subsurface investigations and report preparation, including collecting soil and groundwater samples for Phase II investigation projects. He has also participated in data preparation of annual monitoring reports for landfills and implementation reports.

EXPERIENCE

- TH 246 and Jefferson Parkway - Northfield, MN
- Phase I ESA and Phase II Drilling Investigation - Vadnais Heights, MN
- TH 7/Louisiana Avenue Interchange - St. Louis Park, MN
- TH 10 and TH 59 Upgrades - Detroit Lakes, MN
- Shoppes on Maine - Rochester, MN
- Contaminated Material Emergency Assistance (Minnesota Department of Transportation) - Statewide, MN



9
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Environmental Studies
(Emphasis: Geohydrology)
Bemidji State University - Bemidji, MN



REGISTRATIONS/CERTIFICATIONS

Asbestos Inspector, Minnesota
Department of Health

Confined Space Entry Certification

OSHA 8 Hour HAZWOPER (Refresher),
Short Elliott Hendrickson Inc

OSHA 40 Hour HAZWOPER
(Specialist), Short Elliott
Hendrickson Inc

Railroad Safety Certification,
Burlington Northern Santa Fe Railway

JOEL ASP

NATURAL RESOURCES AND RESTORATION SPECIALIST

Joel will be responsible for developing a planting and restoration plan. He is a restoration ecologist/natural resource scientist with experience specializing in natural resource management. Joel has worked on restoration ecology and land management techniques. He has extensive experience with natural resource management and has been responsible for remnant and native prairie planting. Joel has managed natural habitats that include prairies, rainwater gardens and the removal of buckthorn from woodlands. Joel is primarily responsible for providing wetland services, threatened and endangered species surveys, and completion of a variety of environmental documents.

EXPERIENCE

- Maplewood Mall Area Stormwater and Wetland Plan – Maplewood, MN
- Downtown Redevelopment Stormwater Improvements – Long Lake, MN
- Beaver Lake Overflow Improvements (Beaver Lake Association of Saint Augusta Inc) – St. Augusta, MN
- Gladstone Park Master Plan and Implementation – Maplewood, MN
- Pinecone Road Improvements – Sartell, MN
- Cypress Drive Improvements Project – Baxter, MN



25
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Biology (Emphasis:
Wildlife Management)
St. Cloud State University -
St. Cloud, MN



REGISTRATIONS/CERTIFICATIONS

Certified Wetland Delineator (CWD),

Pesticide Applicators License,
Minnesota Department of Agriculture

Certificate of Training, Mine Safety
and Health Administration

APRIL RYAN PE

QA/QC

April will be responsible for QA/QC of the water resources design tasks for the project. She is a senior water resources engineer with experience assisting clients on a range of municipal and water resources projects. April's experience includes managing projects as well as serving as the lead technical resource for design and analysis of stormwater conveyance and treatment systems for local, state, federal and private clients. Her technical capabilities include hydrology/hydraulic, erosion and sediment control, and water quality analysis and design. April has extensive experience addressing NPDES permitting requirements (MS4, industrial and construction) and has developed and implemented multiple stormwater utilities.

EXPERIENCE

- Assistant City Engineer – Sartell, MN
- Surface Water Management Plan – Sartell, MN
- Stormwater Utility Rate Plan – Hermantown, MN
- Pinecone Road Improvements – Sartell, MN
- SWPPP and MS4 Updates – Saint Joseph, MN
- Stormwater Management Plan and XPSWMM Model – Rogers, MN
- Storm Sewer Analysis, Lynnhurst Area, Flood Mitigation Modeling – Minneapolis, MN



15
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Civil Engineering (Minor:
Mathematics)
University of North Dakota-
Grand Forks



REGISTRATIONS/CERTIFICATIONS

Professional Engineer in Minnesota

ADRIAN DIAZ REG

PUBLIC ENGAGEMENT SPECIALIST

Adrian will lead the public outreach and information for the project. He is a planner and public engagement specialist who is professionally bilingual in Spanish and English. Adrian brings experience designing innovative online and print materials, managing social media platforms and facilitating workshops and meetings to engage diverse audiences. His experience includes leading complex stakeholder engagement and communication efforts, developing inclusive strategies to reach all members of the community and conducting large-scale research. Adrian is proficient in Adobe InDesign, Photoshop and Illustrator, as well as Microsoft Office Suite, database management and GIS.

EXPERIENCE

- TH 46 and Jefferson Parkway – Northfield, MN
- Texa Tonka Small Area Plan – St. Louis Park, MN
- Capital City Bikeway Interim Design Study (Toole Design Group) – St. Paul, MN
- Johnson Parkway Trail Design – St. Paul, MN
- I-494: Airport to Highway 169 (MnDOT Metropolitan District) – Bloomington and Richfield, MN



6
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Sustainable Community Development
Northland College - Ashland, WI

Bachelor of Science
Sociology
Northland College - Ashland, WI

CHRIS MUNN PLS

PROFESSIONAL LAND SURVEYOR

Chris will be responsible for leading the survey efforts for the project.

He is the lead project surveyor and survey crew coordinator in the Rochester office. He offers extensive experience in surveying, as well as experience as an assistant project engineer. Chris has worked on multiple types of survey projects including all aspects of topographic surveys and boundary surveys – both residential and rural. He also has experience with ALTA/NSPS land title surveys, FEMA elevation certificates, right-of-way platting, commercial platting and construction preparation and staking of building/commercial sites, transportation projects, bridges, municipal projects and land development projects.

EXPERIENCE

- TH 46 and Jefferson Parkway – Northfield, MN
- Regional Pond EP-16 – Rochester, MN
- Cascade Creek Tributary – Rochester, MN
- Main Street Final Design – New Prague, MN
- Indian Creek Watershed – Mankato, MN
- Street Improvements – Cannon Falls, MN



27
YEARS OF
EXPERIENCE



EDUCATION

Bachelor of Science
Civil Engineering
Michigan Technological
University-Houghton



REGISTRATIONS/CERTIFICATIONS

Professional Land Surveyor
in Minnesota

Safety Inspection of In-Service
Bridges I and II, Federal Highway
Administration (FHWA)

DARRIN FARLEY

RESIDENT PROJECT REPRESENTATIVE

Darrin will serve as our RPR during the construction phase of the project.

He is a resident project representative in the inspection department and has experience in major bridge and/or roadway construction inspection. Darrin's main responsibilities include providing construction observation, testing and detailed documentation of construction projects associated with roadways, bridges, sewers, storm sewers and water mains. He has extensive experience with trunk highways, federal aid and state aid projects, and is certified in most inspection categories for MnDOT. In addition, Darrin works as a computer aided design (CAD) technician and on survey crews as crew chief and rod man when workload demands.

EXPERIENCE

- TH 46 and Jefferson Parkway – Northfield, MN
- Regional Pond EP-16 – Rochester, MN
- Morris Hills Subdivision (Morris Hills Land Development, LLC) – Rochester, MN
- Flood Control Project – Austin, MN
- Northwest Area Improvements – Stewartville, MN
- Street Improvements – Cannon Falls, MN



14
YEARS OF
EXPERIENCE



EDUCATION

Associate of Arts and Science
Computer Aided Drafting
Rochester Community and Technical
College - Rochester, MN

Associate of Science
Mechanical Technology
Rochester Community and Technical
College - Rochester, MN



REGISTRATIONS/CERTIFICATIONS

ADA Construction,
Aggregate Production,
Bituminous Street I and II,
Bridge Construction I and II,
Concrete Field I and II,
Concrete Plant Level I,
Erosion and Stormwater Construction
Site Management,
Signal and Lighting Installation - MnDOT

		Project Manager	Project Engineer	Water Resource Engineer	Natural Resources Scientist	Survey	Graduate Engineer/Public Engagement Specialist	CAD Tech	RPR	Admin	Total Labor
		\$ 206	\$ 118	\$ 118	\$ 115	\$ 250	\$ 95	\$ 105	\$ 110	\$ 100	
Task		Labor Hours									
TASK 1.0 - PROJECT MANAGEMENT											
1.1	Kickoff Meeting	2	8	4						2	\$2,028
1.2	Site Visit		8	8							\$1,888
1.3	50% Design Meeting	2	8	4	4						\$2,288
1.4	95% Design Meeting	2	8	4	4						\$2,288
1.5	Council Meetings	4	4								\$1,296
1.6	Monthly On-site Meeting	2	4							2	\$1,084
Task 1.0 Subtotal		12	40	20	8	0	0	0	0	4	\$10,872
TASK 2.0 - PRELIMINARY ENGINEERING											
2.1	Review Existing Hydraulics Modeling		2	8			8	12			\$1,940
2.2	Update Hydraulics Model		2	8			8	16			\$1,940
2.3	Storm Survey			2		20					\$5,236
2.4	Existing Topo Identified during Site Visit		2			40					\$10,236
2.5	Sediment Testing	10		4	40		10			3	\$8,382
2.6	Wetland Delineation		4		30						\$3,922
Task 2.0 Subtotal		10	10	22	74	60	26	28	0	3	\$31,656
TASK 3.0 - CONSTRUCTION PLANS & SPECS											
3.1	Grading Plans	4	20					60			\$9,484
3.2	Erosion & Sediment Control/SWPPP						12				\$1,140
3.3	Outlet & Erosion Repairs						8	4			\$1,180
3.4	Specifications	4	40	30	8					8	\$10,804
Task 3.0 Subtotal		8	60	30	8	0	20	64	0	8	\$22,608
TASK 4.0 - PERMITTING											
4.1	MPCA Construction Stormwater		2	16							\$2,124
4.2	MPARS - Dredging		2	16	4						\$2,584
4.3	DNR Floodplain (No-Rise?)		2	8							\$1,180
4.4	WCA./USACE Wetland		4		30						\$3,922
Task 4.0 Subtotal		0	10	40	34	0	0	0	0	0	\$9,810

		Project Manager	Project Engineer	Water Resource Engineer	Natural Resources Specialist	Survey	Graduate Engineer	CAD Tech	RPR	Admin	Total Labor
		\$ 206	\$ 118	\$ 118	\$ 115	\$ 250	\$ 95	\$ 105	\$ 110	\$ 100	
Task		Labor Hours									
TASK 5.0 - PUBLIC ENGAGEMENT											
5.1	Public Meetings%	6	12				8				\$3,412
Task 5.0 Subtotal		6	12	0	0	0	8	0	0	0	\$3,412
TASK 6.0 - BIDDING											
6.1	Advertisement for Bid	4	8							2	\$1,968
6.2	Contracting	4	8							2	\$1,968
6.3	Pre-bid Inquiries	8								2	\$1,848
6.4	Addendums	4	10					20		2	\$4,304
Task 6.0 Subtotal		20	26	0	0	0	0	20	0	8	\$10,088
TASK 7.0 - CONSTRUCTION SERVICES											
7.1	Construction Administration	8	20		5					4	\$4,983
7.2	Construction Observation		128			24			320		\$21,104
7.3	Letter of Final Acceptance	4	8								\$1,768
7.4	Record Drawings	4	4					20			\$3,396
7.5	Survey As-builts		8	4		16					\$5,416
Task 7.0 Subtotal		16	168	4	5	40	0	20	320	4	\$36,667
Labor Hours Total		72	326	116	89	100	94	132	320	27	\$125,113

Project Reimbursable Expenses	Total
1) Sediment Lab Testing - Pace	\$3,300
2) Field Vehicle Expenses	\$3,700
3) Miscellaneous Expenses	\$550
Total Reimbursable Expenses	\$7,550
Total Project Costs	\$132,663

| Project Schedule

Unless unforeseen circumstances outside of our control arise, we agree with the schedule outlined in the RFP. The permitting approvals can often dictate the overall schedule, therefore we suggest coordination with agencies be initiated immediately following authorization to proceed to meet the outlined schedule.

Building a Better World for All of Us[®]

Sustainable buildings, sound infrastructure, safe transportation systems, clean water, renewable energy and a balanced environment. Building a Better World for All of Us communicates a company-wide commitment to act in the best interests of our clients and the world around us.

We're confident in our ability to balance these requirements.

JOIN OUR SOCIAL COMMUNITIES

