

Attachment 3

PROFESSIONAL ENGINEERING SERVICES AGREEMENT

THIS PROFESSIONAL ENGINEERING SERVICES AGREEMENT is made between the Vadnais Lake Area Water Management Organization (“**VLAWMO**”), a Minnesota joint powers organization, and the following engineering firm (“**Engineer**”):

Engineer Name/ Organization: SRF Consulting Group, Inc.	Federal EIN: 41-0847319
Mailing Address: 3701 Wayzata Boulevard, Suite 100 Minneapolis, Minnesota 55416	Telephone Number: 763.475.0010
Contact Person: Paul Martens	Email: pmartens@srfconsulting.com

The following person is designated the Project Manager of this Agreement for VLAWMO (“**Project Manager**”):

Name: Dave Filipiak	Email: dfilipiak@srfconsulting.com
Mailing Address: 2550 University Avenue West, #345 North, Saint Paul, Minnesota 55114	Telephone Number: 651.333.4161

VLAWMO and Engineer may hereinafter be referred to individually as a “party” or collectively as the “parties.” In consideration of the mutual promises and agreements contained herein, and intending to be legally bound, VLAWMO and Engineer hereby agree as follows:

- 1. Agreement Documents.** This Agreement sets out the entire understanding between the parties and it supersedes any prior written or oral discussions or agreements between the parties regarding the same subject matter. This Agreement also includes VLAWMO’s request for proposals for the Services, attached hereto as Exhibit A (“**RFP**”), and the proposal submitted by Engineer, attached hereto as Exhibit B (“**Proposal**”), both of which are incorporated herein by reference. The provisions of the documents constituting the Agreement shall be read together and reconciled in the documents to the greatest extent reasonably possible. To the extent there are any conflicting provisions that cannot be reconciled, the more specific provision shall generally be controlling. In the event that a material conflict is found between provisions of the documents, the provisions in the following rank order shall take precedence: (1) this Professional Engineering Services Agreement document; (2) the RFP in Exhibit A; and (3) the Proposal in Exhibit B.
- 2. Services.** Engineer agrees to perform professional engineering services as generally described in the attached Exhibit B (collectively, the “**Services**”) and in accordance with the terms and conditions of this Agreement. Engineer shall provide the Services on an as- requested basis. VLAWMO will issue a written task order (“**Task Order**”)

for a specific project or item of work and shall be used to describe the parties mutual agreement on the scope of the Services, schedule, compensation and other project requirements. Task Orders are binding upon written approval and execution by both VLAWMO and Engineer. All work done under a Task Order are considered part of Engineer's Services for the purposes of this Agreement. Engineer shall provide the Services in a manner consistent with Engineers' industry standards provided by firms practicing in the same or similar locality under the same or similar circumstances ("Standard of Care") and in accordance with the standards, requirements, and timelines set out in the Task Order authorizing the specific Services that apply to the Engineer.

3. **Compensation.** VLAWMO shall compensate Engineer for the Services based on the rates listed in the Proposal and as be more specifically identified in a Task Order. Costs projected for a specific task in a Task Order cannot be transferred to any other tasks without prior consent of the Project Manager. Such consent does not increase the total amount of the compensation to be paid under the Task Order. Engineer shall notify the Project Manager if it anticipates changes in the cost structure for the tasks to be completed as part of the Task Order. Unless expressly provided otherwise in the Task Order, the total amount or rate of compensation is an all-inclusive amount that includes all expenses, costs, taxes, and other amounts Engineer incurs or pays to provide the Services pursuant to the Task Order. VLAWMO shall not be responsible for paying any amounts for the completion of the Services other than those expressly provided for in the Task Order.
4. **Notices.** Any notices provided under this Agreement shall be to Engineer and Project Manager as identified above.
5. **Term.** This Agreement shall commence and terminate on the dates indicated below unless it is terminated earlier as provided herein or the parties agree in writing to an extension of this Agreement.
6. **Invoices.** Engineer shall submit itemized invoices for the Services actually provided under this Agreement no more than once a month during the term of this Agreement. If the reimbursement of expenses is expressly authorized in the Task Order, no such expenses shall be reimbursed unless they are detailed in writing and accompanied by receipts. All invoices are subject to verification by VLAWMO's Administrator or the Project Manager. VLAWMO has thirty (30) days from the receipt of invoice to pay Engineer. In the event that Engineer is delinquent in conveyance of deliverables in accordance with the schedule set forth in the Task Order, VLAWMO may defer payment's due until such time it received the deliverables. Such withholding shall not constitute a breach of this Agreement.
7. **Independent Contractor.** Engineer and its employees are not employees of VLAWMO. Nothing in the Agreement is intended or should be construed in any manner as creating or establishing the relationship as employer/employee, co-partners, or a joint venture between VLAWMO and the Contractor. It is agreed that Engineer and its employees will act as an independent contractor and acquire no rights to tenure,

workers' compensation benefits, unemployment compensation benefits, medical and hospital benefits, sick and vacation leave, severance pay, pension benefits or other rights or benefits offered to employees of VLAWMO. The manner in which the Services are performed shall be controlled by Engineer.

8. **No Agency.** Engineer, as an independent contractor, shall not be considered an agent or servant of VLAWMO for any purpose and shall have no authority to enter into any contracts, create any obligations, or make any warranties or representations on behalf of VLAWMO.
9. **Deliverables.** If Engineer is required to produce specific deliverables to VLAWMO as part of the Services to be provided under this Agreement, such deliverables shall be identified in the Task Order issued pursuant to this Agreement.
10. **Ownership and Use of Work Product.** All deliverables prepared or developed in connection with the provision of Services set forth in the applicable Task Order (collectively, the “**Work Product**”) shall become upon payment in full for the Services, the exclusive property of VLAWMO. Engineer may not use the Work Product or any other deliverables under this Agreement for any purpose other than fulfilling its obligations under this Agreement without prior written consent of VLAWMO. Engineer shall bear no liability of responsibility for deliverables that have been modified post-delivery or used for a purpose other than that for which it was prepared under this Agreement. Engineer may use the Work Product as an example of their work in their portfolio and may reuse standard portions of such Work Product in the normal course of its business. Engineer represents and warrants that the Work Product does not and will not infringe upon any intellectual property rights of other persons or entities. Notwithstanding the above, Engineer’s proprietary information, including without limitation, work papers, drawings, specifications, processes, procedures, software, interim or draft documents, methodologies, know-how, software and other instruments of services belong to or licensed to Engineer and used to develop the Work Product (Engineer’s Data”) shall remain the sole property of Engineer.
11. **Naming Rights and Acknowledgements.** To ensure that appropriate credit for funding and other contributions of VLAWMO and its staff members is given for their participation in producing any deliverables as part of the Services, and to the extent applicable, VLAWMO shall have its name and logo represented in the materials that are developed and will be acknowledged in printed materials, publications, presentations and other uses and materials developed under this Agreement. VLAWMO retains and shall have the right to control the title, citations, acknowledgments, attributions, cover design, logos and credits of the deliverables produced as part of the Services.
12. **Termination.** VLAWMO may terminate this Agreement upon thirty (30) days written notice, except that if Engineer is in default and fails to cure the default within the period provided in the written notice of default as provided in this Agreement, VLAWMO has the right to terminate this Agreement immediately upon written notice

of termination. VLAWMO shall pay Engineer for Services properly rendered prior to the effective date of termination. The following provisions of this Agreement shall survive expiration, termination, or cancellation of this Agreement: Indemnification; Insurance; Applicable Law; Audit; and Data Practices.

13. **Legal Compliance.** Engineer shall comply with all applicable federal, state, and local laws, rules, regulations, and ordinances in providing the Services and shall obtain all permits required applicable to Engineer in the performance of its Services under this Agreement. This Agreement shall be governed by and construed according to the laws of the State of Minnesota.
14. **Indemnification.** To the fullest extent permitted by law, Engineer agrees to defend, indemnify and hold harmless, VLAWMO, its officials, officers, and employees from liability, claims, damages, losses, costs, or expenses, including reasonable attorney’s fees, to the extent caused by the negligent act, error or omission of Engineer, its offices, employers, or anyone whom Engineer is legally responsible in the performance of Engineer’s Services under this Agreement. Engineer will reimburse VLAWMO for reasonable defense costs for claims arising out of Engineer’s professional negligence based on the percentage of Engineer’s liability. The duty to defend shall not apply to professional liability claims. Nothing in this Agreement shall constitute a waiver by VLAWMO of any limits on or exclusions from liability available to it under Minnesota Statutes, chapter 466 or other law.
15. **Insurance.** Engineer agrees to at all times during the term of this Agreement, have and keep or cause to have and be kept in force, and to cause all contractors and subcontractors to do likewise, the following insurance coverages with at least the following limits:

- (a) Commercial General Liability on an occurrence basis with Contractual Liability Coverage:

	<u>Limits</u>
General Annual Aggregate	\$2,000,000
Products-Completed Operations	\$1,500,000
Personal and Advertising Injury	\$1,500,000
Each Occurrence –	
Combined Bodily Injury and Property Damage	\$1,500,000
	\$1,000,000

- (b) Commercial Automobile Liability – Combined single limit each occurrence for bodily injury and property damage covering owned, non-owned, and hired automobiles.

- (c) Workers’ Compensation and Employer’s Liability:

(1) Workers’ Compensation	Statutory
---------------------------	-----------

If Engineer is based outside the State of Minnesota, coverage must apply to Minnesota laws.

(2) Employer's Liability. Bodily Injury by:	
Accident – Each accident	\$500,000
Disease – Policy Limit	\$500,000
Disease – Each Employee	\$500,000

(d) Professional Liability

Per Claim or Event	\$1,500,000
Annual Aggregate	\$2,000,000

The required coverage limits may be achieved through an excess or umbrella policy, provided such policy provides the same scope of coverages as the underlying policy. The insurance must be maintained continuously for a period of at least one year after the termination of this Agreement. Engineer shall have VLAWMO named as an additional insured on its commercial general liability policy. Engineer shall provide VLAWMO a certificate of insurance showing the required coverages, insurance limits, and additional insured endorsement before undertaking any Services under this Agreement. Engineer will require that any subcontractors furnish certificates of insurance to Engineer of the insurance coverages listed above and shall provide updated certificates as coverages expire. It is the sole responsibility of Engineer to determine the need for and to procure additional insurance that may be needed in connection with this Agreement. Copies of policies will be submitted to VLAWMO upon written request.

16. **Engineer Representations.** Engineer represents to VLAWMO to enter into the Agreement, as follows: (a) it has the legal authority to enter into this Agreement; (b) the person(s) executing this Agreement on behalf of Engineer is duly authorized to enter into this Agreement and to bind Engineer to its terms; (c) all of the documents that constitute this Agreement are valid and binding on Engineer; (d) it will comply with the terms and conditions of this Agreement; (e) it has the necessary licenses, personnel, experience, skill, to complete the Services in accordance with the standards and timelines established in this Agreement; and (f) it is not involved in or aware of any action, claim, suit, or proceeding that is reasonably anticipated to interfere with Engineer's ability to provide the Services in accordance with the terms of this Agreement.

17. **Conflict of Interest.** Engineer agrees that it will not, during the term of this Agreement, enter into a contract or otherwise accept employment for the performance of any work or service with any individual, business, partnership, corporation, government, governmental unit, or any other organization that would create a conflict of interest in the performance of its obligations under this Agreement.

18. **Not Exclusive.** This Agreement does not constitute an exclusive contract between VLAWMO and Engineer. VLAWMO remains free to contract for similar services from other engineers and Engineer remains free to contract to provide similar services to others, provided that any such contracts do not interfere with the delivery of Services under this Agreement.
19. **Amendments.** No modification, amendment, deletion, or waiver in the terms of this Agreement, or any expansion in the scope of the Services, is valid unless it is in writing and signed by the parties.
20. **Notices.** Any notice or demand authorized or required under this Agreement shall be in writing and shall be sent by certified mail to, with respect to VLAWMO, the Project Manager and, with respect to Engineer, to Engineer's contact person, each as identified at the outset of the Agreement.
21. **Substitution of Personnel.** The Services shall be provided by the person or persons identified in the Proposal or as may be authorized in a Task Order. Upon prior approval by VLAWMO, Engineer may substitute other persons to perform the Services under a Task Order. If substitution is permitted, VLAWMO may require Engineer to furnish information on the qualifications of the substituted person.
22. **Subcontracting and Assignment.** Engineer shall not enter into any subcontract for performance of any Services contemplated under this Agreement, nor assign any interest in the Agreement, without the prior written approval of VLAWMO and subject to such conditions and provisions as VLAWMO may deem necessary or desirable in its sole discretion. Engineer shall be responsible for the performance of all of its subcontractors. If VLAWMO permits the use of subcontractors, the Contract shall, pursuant to Minnesota Statutes, section 471.425, subdivision 4a, pay any subcontractors within 10 days of Engineer's receipt of payment from VLAWMO for undisputed services provided by the subcontractor. Any undisputed amounts not paid to a subcontractor within 10 days shall be subject to, and Engineer shall pay, interest of 1-1/2 percent per month. The minimum monthly interest penalty Engineer shall pay for an unpaid balance of \$100 or more is \$10. For an unpaid balance of less than \$100, Engineer shall pay the actual penalty due to the subcontractor. A subcontractor who prevails in a civil action to collect interest penalties from Engineer must be awarded its costs and disbursements, including attorney's fees, incurred in bringing the action.
23. **Default and Cure.**
- (a) Default by Engineer. Unless excused by VLAWMO's default, the occurrence of an uncontrollable circumstance, or VLAWMO issuing a written waiver of default, each of the following shall constitute default on part of Engineer:
- (1) The written admission by Engineer that it is bankrupt; or filing by Engineer of a voluntary petition under the Federal Bankruptcy Act; or the filing of an

involuntary petition under the Federal Bankruptcy Act against Engineer unless dismissed within ninety (90) days. The Notice of Default and cure provision of this Agreement do not apply to this paragraph;

- (2) The making of any arrangement with or for the benefit of Engineer's creditors involving an assignment to a trustee, receiver or similar fiduciary. The Notice of Default and cure provisions of this Agreement do not apply to this paragraph;
 - (3) Making a material misrepresentation in any of the documents submitted by Engineer or in any other provisions or conditions relied upon in the making or modification of the Agreement;
 - (4) Engineer is found to persistently disregard laws, ordinances, rules, regulations or orders of any public authority having jurisdiction;
 - (5) Failure to make satisfactory progress towards completion of the Services; notwithstanding the foregoing, in no event will Engineer be responsible for damages due to delays beyond Engineer's reasonable control; or
 - (6) Failure to perform any other material provision of the Agreement.
- (b) Default by VLAWMO. Unless excused by Engineer's default or the occurrence of uncontrollable circumstances or Engineer waiver of default, each of the following shall constitute a default on the part of VLAWMO:
- (1) The persistent or repeated failure or refusal by VLAWMO to pay or prevent payment of any uncontested amount to Engineer timely and properly submitted as required by this Agreement;
 - (2) Making a material misrepresentation in any of the documents provided by VLAWMO or in any other provisions or conditions relied upon in making the Agreement; or
 - (3) Persistent or repeated failure to perform any other material provision of this Agreement.
- (c) Written Notice of Default. Unless otherwise provided, no event shall constitute a default giving rise to the right to terminate unless and until written Notice of Default is given to the defaulting party, specifying the particular event, series of events, or failure constituting the default and a reasonable cure period.
- (d) Cure Period. If the party in default fails to cure the specified circumstances as described by the Notice of Default within ten (10) days or such longer period as may be provided in the Notice of Default, then this Agreement may immediately be terminated by the party not in default providing a written notice of termination to

the party in default.

- (e) Withholding of Payment. Notwithstanding any other provision of the Agreement, VLAWMO may, after giving Notice of Default, withhold, without penalty or interest, any payment which becomes due after Notice of Default is given, until the default is excused, waived in writing, cured, or the Agreement is terminated. VLAWMO shall not be responsible for paying any portion of the withheld funds upon translation for Engineer's default if the Services for which payment is being sought were deficient.
- (f) Preservation of Other Remedies. The rights and remedies of VLAWMO and Engineer provided in the Agreement shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Agreement.
- (g) Duty to Mitigate. Both parties shall use their best efforts to mitigate any damages that might be suffered by reason of any event giving rise to a remedy hereunder.
- (h) Reperformance. VLAWMO may require Engineer, at Engineer's sole expense, to reperform any of the Services provided for in this Agreement that do not meet the established Standard of Care.

24. **No Waiver**. If VLAWMO fails to enforce any provisions of this Agreement, such failure does not waive the provision or VLAWMO's right to enforce it.
25. **Data Practices**. Engineer agrees to comply with the Minnesota Government Data Practices Act (Minnesota Statutes, chapter 13), and all other applicable laws, related to data it creates or receives from VLAWMO in the performance of the Services. Engineer will immediately report to VLAWMO any data requests from third parties relating to this Agreement. VLAWMO agrees to work with Engineer to respond to the data request. Engineer agrees to hold VLAWMO, its officers, and employees harmless from any claims resulting from Engineer's unlawful disclosure, use, or failure to produce data in accordance with applicable laws.
26. **Nondiscrimination**. Engineer agrees to abide by the applicable requirements and regulations of The Americans with Disabilities Act of 1990 (ADA), the Minnesota Human Rights Act (Minn. Stat. Chap. 363), and Title VII of the Civil Rights Act of 1964. These laws deal with discrimination based on race, gender, disability, and religion, and with sexual harassment. Violation of any of the above laws can lead to the immediate termination of this Agreement without needing to provide a cure period.
27. **Audit**. Engineer agrees that VLAWMO, the Minnesota State Auditor, and Minnesota Legislative Auditor, or any of their duly authorized representatives, at any time during normal business hours and as often as they may reasonably deem necessary, shall have access to and the right to examine, audit, excerpt and transcribe any books, documents, papers, and records that are relevant and involve

transactions relating to this Agreement. Engineer agrees to retain such records for at least six years from the date of termination of this Agreement.

28. **Applicable Law.** The law of the State of Minnesota shall govern all interpretations of this Agreement, and the appropriate venue and jurisdiction for any litigation that may arise under this Agreement will be in and under those courts located within the County of Hennepin,

State of Minnesota, regardless of the place of business, residence or incorporation of Engineer.

29. **Severability.** If any provision of this Agreement is held invalid, illegal, or unenforceable, the remaining provisions will not be affected.

IN WITNESS WHEREOF, the duly authorized representatives of the parties have executed this Agreement effective as of the year and date indicated below.

This Agreement shall be in effect as of _____ and shall terminate on _____ unless terminated earlier as provided herein.

FOR ENGINEER:

FOR VLAWMO:

By David Filipiak
Digitally signed by David Filipiak
DN: cn=D, o=SRF Consulting Group, Inc.,
ou=Water Resources, cn=David Filipiak
Reason: I am approving the document
Date: 2023.08.16 08:52:53 -0500

By _____

Its Director

Its _____

Date 08.16.2023

Date _____

By Marc Klatt

By _____

Its Chief People Officer

Its _____

Date 8-16-23

Date _____

EXHIBIT A
Request for Services

[attached hereto]

**REQUEST FOR PROPOSAL (RFP)
TO PROVIDE PROFESSIONAL GENERAL ENGINEERING SERVICES
FOR 2023 AND 2024**

I. General: The Vadnais Lake Area Water Management Organization (VLAWMO) seeks proposals from qualified engineering firms to provide professional general engineering services on an “as needed” basis. The VLAWMO Board has renewed funding allocation for general engineering services. VLAWMO will select a firm to provide the services requested using its policy based on those outlined in the League of Minnesota Cities guidance, the experience and technical capacity of the Firm, and the scope of services listed below

New for 2023 and 2024 VLAWMO will be establishing an engineering “pool” list which will be a formal list of firms that were not selected as the VLAWMO general engineer that the VLAWMO may draw on for special project and services. This new engineering pool list essentially are pre-qualifying firms that may perform work for the VLAWMO for any specialty or technical work area (as listed below) at the discretion of the administrator.

II. Scope of Services: VLAWMO seeks professional engineering services to assist with particular projects or watershed studies and planning efforts as needed. Services will be within the scope of professional engineering, modeling, analysis and surveying. Primary services may be focused on (but is not limited to) the following:

- A. Stormwater management
- B. Public drainage management
- C. Feasibility studies
- D. Design assistance
- E. Project management
- F. Engineering help with grant applications
- G. The Engineer will become familiar with VLAWMO stormwater policy.
- H. Meeting attendance or presentations as needed with Board, Technical Commission or stakeholders
- I. Stormwater management review and comment of development applications, as requested.

For further reference, please see [VLAWMO's Comprehensive Watershed Management Plan at vlawmo.org](http://www.vlawmo.org), with the WMO's Plan Implementation table on page 57.

III. Term of Contract: VLAWMO shall enter into a two-year term contract with the selected general engineering firm for services on an as-needed basis. The contract may be renewed, at the discretion of VLAWMO. The general engineering services contract is attached to this RFP as exhibit 1 and is referenced within the contract. The draft contract as attached is provided for reference with an expectation that the terms in the contract are acceptable. The contract may be renewed, at the discretion of VLAWMO.

IV. Evaluation of Proposals: Selection criteria shall include the information relevant to the scope of services in part II, experience and technical capacity of the firm, references, and VLAWMO experience with the engineering firm. VLAWMO encourages firms that it has or has not worked with to consider bidding. Any firm that is not selected to provide general engineering services may be placed in the VLAWMO engineering pool.

V. Contents of Proposals: cover letter, project experiences, qualifications of the Project Manager, other clients, 2023 and 2024 billing rates for participating staff as well as any related time and mileage charges for attending meetings or other similar functions on behalf of the Organization, and references. Please keep proposals to 10 pages or less. Each firm submitting a proposal in response to this Request for Proposal (RFP) must submit electronically via PDF format to the VLAWMO contact: Phil Belfiori, Administrator, phil.belfiori@vlawmo.org.

VI. Rejection of Proposals: VLAWMO reserves the right to reject any or all proposals received.

VII. Deadline: All proposals must be received electronically in PDF format by 3:00 PM on Friday September 30, 2022 submitted to phil.belfiori@vlawmo.org. Questions should be addressed to Phil Belfiori by email and phone.

Phil Belfiori, VLAWMO Administrator
phil.belfiori@vlawmo.org
651-204-6073

Attachment :

- general engineering services contract

EXHIBIT B
Engineer's Proposal

[attached hereto]



2023-2024 PROFESSIONAL SERVICES

VADNAIS LAKES AREA WATERSHED MANAGEMENT ORGANIZATION





Phil Belfiori
Administrator
Vadnais Lakes Area Watershed Management Organization
800 County Road E East
Vadnais Heights, MN 55127

September 30, 2022

Subject : Proposal for Vadnais Lakes Area Watershed Management Organization 2023-2024 Professional Services

Dear Phil Belfiori, Commissioners, and VRWJPO Staff:

SRF Consulting Group, Inc. (SRF) is pleased to submit our Statement of Qualifications (SOQ) to provide engineering, environmental, ecological restoration and management services to the Vadnais Lakes Area Watershed Management Organization (VLAWMO). The mission of the VLAWMO is to collaboratively provide education, science, and support to restore and protect the Vadnais Lakes Watershed's or VLAWMO's natural resources for all who live, work, and play within its boundaries. As one of the Midwest's leading engineering, planning, and design firms, SRF has the broad technical expertise and dedicated staff to provide VLAWMO with high-quality and cost-effective services to collaboratively achieve this mission. We often hear from our clients that we provide innovative yet practical solutions to their water resources issues, and we are excited to offer the following benefits to the VLAWMO.

While we believe our staff could provide the services required as the VLAWMO engineer, we have focused our SOQ towards the technical and specialty elements that will likely be required for upcoming projects.

Multidisciplinary Approach. From the onset of scoping a project to design and construction, SRF's project managers have the full litany of skills and expertise offered by SRF at their disposal. From watershed planners, permitting specialists, green space designers, construction managers and estimators, public engagement specialists to trusted external geotechnical engineers, our project managers have the knowledge, connections, and resources to provide our clients information efficiently and effectively, resulting in successful projects.

Technical Innovation. Innovation in the water resources field requires a complex set of skills from a wide range of practitioners ranging from watershed planners and water resource engineers to landscape architects to experts in facilitation and stakeholder engagement. In the following pages we present qualifications to highlight those areas of expertise that we believe will best fit projects and issues identified in VLAWMO's 2017-2026 Watershed Management Plan.

Leadership. The SRF team is led by Kevin Bigalke, who will serve as project lead. Kevin is an effective project manager with extensive watershed planning and water resource management expertise working with state agencies and local watershed organizations. David Filipiak will serve as project director. Kevin and David bring significant planning and project design experience to provide a unique, practical approach to problem solving based on their solid technical and collaboration skills. Kevin and David will be supported by a talented and knowledgeable staff that have a wealth of experience in watershed management, stormwater management planning and design, landscape architecture and greenway master planning and design, ravine and streambank management and design, and vegetation selection and management.

SRF is committed to collaborating with the VLAWMO to fulfill your mission through the expertise of our team and sound watershed management and water resource engineering practices that will result in enhanced resource management and preservation. Kevin will serve as the contact person and can be reached at 651-333-4143 or via email at kbigalke@srfconsulting.com. We look forward to working with your staff and appreciate this opportunity to present our qualifications.

Sincerely,

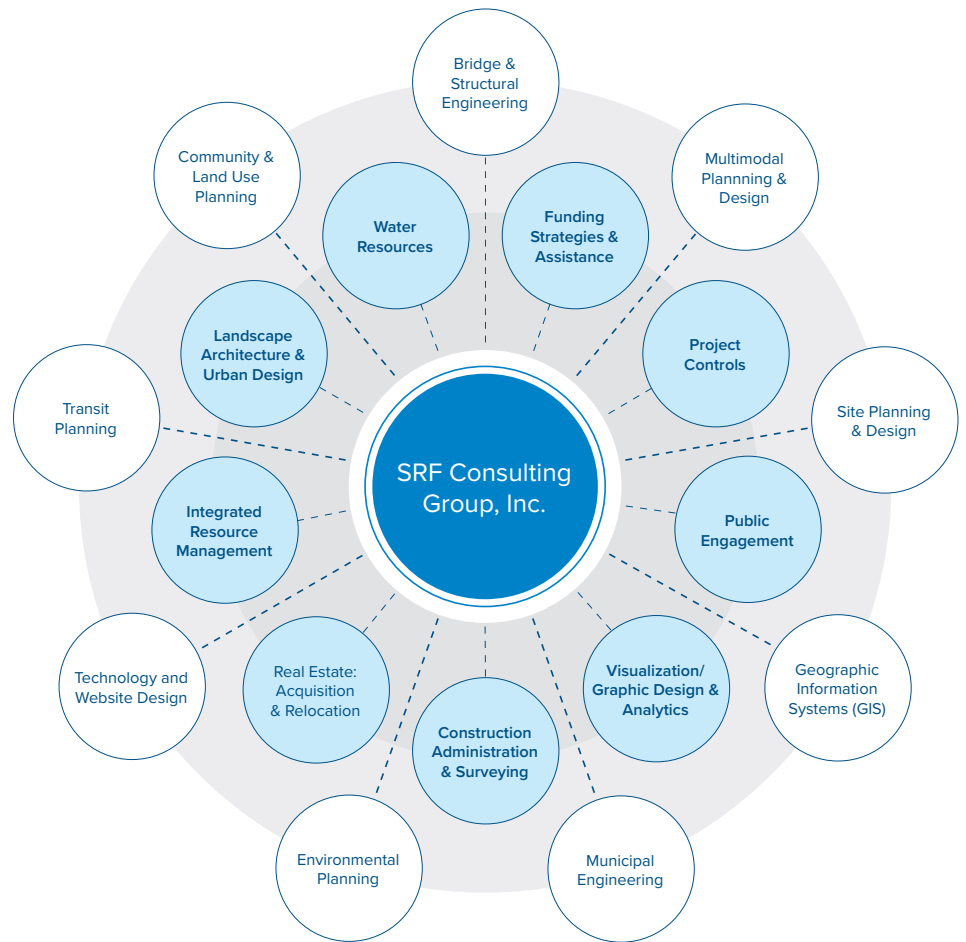
Kevin Bigalke
Senior Project Manager

David Filipiak, PE
Director

General Firm Information & Qualifications

As a 100% employee-owned company with over 350 staff, SRF collaborates with our clients and their stakeholders to develop creative solutions for the most challenging projects. We frequently work with agencies that hold similar values of stewardship, financial accountability, and technical excellence, resulting in solutions that are sensitive to ecological contexts, cost-effective, and meaningful. SRF strives to bring these socially and environmentally responsible values in the form of sound planning and design to our clients and the communities that we serve. Our dedication to pursuing a sustainable future extends from day-to-day operations to promoting these practices in planning, design and engineering. These values are embodied within the SRF Water Resource team's mission statement:

Our mission is to provide innovative and practical solutions to water resource issues for public and private clients in the Midwest. From process-oriented planning through construction, our team is committed to protecting the natural environment while accommodating the built environment through the use of natural processes as well as cutting-edge technology. We draw from the wealth of experience within the larger SRF community, and we take pride in our ability to work with our clients to develop environmentally sensitive solutions to complex engineering and ecological challenges.



SRF provides innovative and practical water resource management strategies. We choose strategies based on the applicability of techniques providing stormwater management from different land uses and our knowledge of construction and maintenance practices. By drawing on the experience of our hydrologists, planners, landscape architects, civil and structural engineers, we plan and design stormwater management systems that balance function, aesthetics, constructability and maintenance. We have one goal in mind – protecting our valuable resources for the coming generations to enjoy. We are passionate about celebrating stormwater and implementing BMPs that fit into urban and natural landscapes. We are also practical and realistic when it comes to the many constraints of developing BMPs that are constructible, affordable, maintainable, and provide measurable results.

SRF has the ability to respond to the VLAWMO's needs as projects arise. We base our ability to meet technical challenges and project schedules on:



Experienced Project Management. SRF's project managers are experienced in managing all sizes of projects from large, complex projects to smaller scale projects. The keys to success include clearly defining project roles, close collaboration with VLAWMO staff, developing and monitoring a detailed work plan and project schedule, and instituting a quality assurance program.



A Multidisciplinary Approach. With a large multidisciplinary staff, SRF provides the full range of services for public infrastructure projects. Our team members have an extensive knowledge of local, state and federal planning and design processes, standards, rules and regulations, and other requirements for projects and frequently collaborate to provide technical solutions for projects that range from the simple to the complex.

SRF recently established an **integrated resource management (IRM)** team to provide an ecosystem-based approach to client planning and design needs. The SRF integrated resource management approach considers all aspects of managing a community's water and natural resources. The IRM team is comprised of a collaborative group of experts from SRF's Water Resources, Environmental Planning, and Landscape Architecture groups to work with the VLAWMO. SRF's IRM services consider the many interests and issues related to water resource management, natural resources, parks, wetlands, urban green space, and community stakeholder engagement to provide a comprehensive approach to resource restoration, protection efforts, resiliency planning, and design. This integrated approach will help the VLAWMO achieve positive results to address challenging resource management issues related to climate change and incorporate resiliency into the VLAWMO programs and projects.



Effective Coordination & Communication. We have worked extensively with many municipal, county, state, and federal agencies, which provides us with the expertise to effectively coordinate projects. We rely on regular communication by our project managers and staff to coordinate activities and ensure that the project is on schedule, within budget, and in accordance with the scope of work. SRF takes pride in our long-term client relationships, which reflect the trust our clients have in our work. Clients return to SRF for assistance because they know we will perform in a professional, courteous manner while ensuring that unnecessary delays and costs are avoided.

Our Water Resource, Environmental Planning, and Landscape Architecture teams have experience and education in:

- Low impact development (LID) and green infrastructure practices for stormwater management, including water reuse, infiltration, and bio-filtration best management practice (BMP) design
- BMP design, including ultra-urban BMPs and maintenance plans
- Bioengineered erosion-control planning and design
- Parks and streetscape design
- Native planting designs
- Hydrologic, hydraulic, and water quality modeling
- Wetland restoration and mitigation design
- Storm sewer system and culvert design
- Lift station design
- Hydraulic structure and energy dissipater design
- Ravine and stream stabilization and restoration
- Riverine hydraulic modeling, floodplain evaluation and mapping, including CLOMR and LOMR processes
- Local, state, and federal permitting
- Site development design and plan review

We are passionate about water resources and celebrate implementing innovative stormwater BMPs that fit into urban and natural landscapes. We are also practical and realistic when it comes to the many constraints of developing BMPs that are constructible, affordable, maintainable, and provide measurable results. We are excited for the opportunity to assist the VLAWMO with implementation of the management plans and projects identified in your 2021 Watershed Management Plan Amendment.

Related Work/Projects/Clients

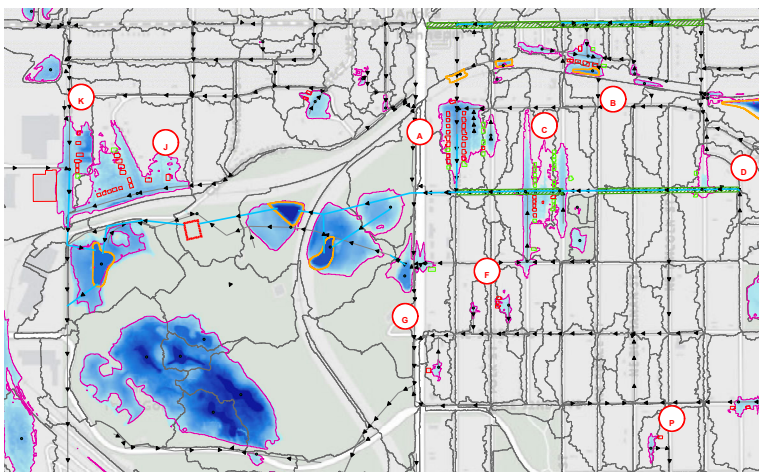
The following list of projects provides insight into the depth and breadth of our experience for a variety of public clients. We have highlighted projects that we feel fit into the planning and final design projects identified in the Implementation Plan within the VLAWMO 's 2021 Water Management Plan Amendment.

SRF's Water Resources team has have worked directly for the following agencies:

- Capitol Region Watershed District
- Mississippi Watershed Management Organization
- Riley Purgatory Bluff Creek Watershed District
- Rice Creek Watershed District
- Comfort Lake Forest Lake Watershed District
- Minnehaha Creek Watershed District
- South Washington Watershed District
- Vermillion River Watershed Joint Powers Organization

In addition, we have worked with a number of VLAWMO partners, including MnDOT, Ramsey County, Metro Transit, to name a few. We plan to leverage this experience to efficiently complete the water resources engineering tasks for the VLAWMO. The following projects highlight our core values as they might apply within VLAWMO.

1NE Watershed Planning and Preliminary Design | Minneapolis, MN | MWMO



KEY PROJECT ELEMENTS:

- Subwatershed planning/Feasibility Studies
- Urban Stormwater Management
- Multi-agency Collaboration
- Ecological Studies/Design
- Engineering Grant Assistance

Mississippi Watershed Management Organization (MWMO), in partnership with the City of Minneapolis and the Minneapolis Park and Recreation Board (MPRB), retained a team led by SRF and assisted by Applied Ecological Service (AES) and Braun Intertec to study the 2,000 acre watershed to solve flooding, improve water quality and improve habitat. Our team evaluated different watershed improvements, including adding new infrastructure, installing stormwater BMPs and green infrastructure, and modifying stormwater management techniques on City, MPRB and railroad-owned properties, along with enhancing habitat along key corridors within the 1NE Watershed.

SRF developed 30% construction plans and cost estimates for the preferred scenario that is a combination of improved storm sewer infrastructure improvements, flood storage and water quality BMPs within Columbia Park, distributed green infrastructure, and ecological restoration plans.

The 1NE project has resulted in three final design projects that are currently being designed, with others waiting for funding. The current final design projects range from improvements in Columbia Golf Course to tree trenches within Minneapolis streets scheduled for reconstruction. While the client for each project may differ, the stakeholders are all still involved and aiding in optimizing the benefit from each improvement. **This project successfully led to receiving the Clean Water Fund Projects and Practices Grant.**

Northern Columbia Golf Course BMPs | Minneapolis, MN | MWMO, City of Minneapolis, & MPRB

Mississippi Watershed Management Organization (MWMO), in partnership with the City of Minneapolis (City) and the Minneapolis Park and Recreation Board (MPRB), retained a team led by SRF and assisted by Applied Ecological Service (AES) and CNA Consulting Engineers (CNA) to develop final construction documents for new trunk storm sewer and three BMPs within Columbia Golf Course and Park. The project was initially developed during the 1NE Watershed Planning and Preliminary Design project. The project is part of 2,150-acre watershed that experiences significant flooding problems and has very little water quality treatment.

The MWMO and City developed watershed-wide XP-SWMM and P8 Urban Catchment models that SRF is using as the basis for design of the proposed stormwater infrastructure. SRF has conducted multiple iterations of proposed storm sewer improvements and BMPs in the calibrated XP-SWMM model to optimize the flood benefits provided by the improvements with the constraints of the connections to existing storm sewer systems. The results are presented to project partners using GIS mapping of the inundation areas and impacted inhabitable structures. SRF has developed additional GIS tools to show the depth of flooding at each impacted structure within the flood areas.

SRF is using the calibrated P8 model to measure the predicted removals of total suspended solids and total phosphorus by the proposed BMPs within the golf course. These results are mapped in GIS to show to the cumulative reduction in loading to the Mississippi River.

SRF has developed modeling and design tools to design a system that meets the goals of providing flood mitigation and water quality treatment for this large urban watershed. The proposed improvements reduce the number of impacted inhabited structures by over 30% in the 100-year event and remove an estimated 20 tons of sediment and 100 pounds of phosphorus each year prior to discharge to the Mississippi River.



KEY PROJECT ELEMENTS:

- Urban Stormwater Management
- Multi-agency Collaboration
- Ecological Studies/Design
- In-construction Services

St. Hubert Catholic School | Chanhassen, MN | Riley Purgatory Bluff Creek Watershed District



SRF completed the conceptual and final design of several campus retrofit projects at the St. Hubert Catholic School site. During early phases of the project SRF met with RPBCWD and school staff and held a workshop to discuss several conceptual ideas. SRF's Landscape Architect and Water Resources team provided a benefit and cost matrix and various renderings, cost estimates, and example photos to foster a good discussion on the potential for various projects around the campus. The retrofits ultimately included tree trenches, rain gardens, two outdoor classrooms, playground improvements, native prairie restoration, pavement reduction and infrastructure repair. SRF also assisted with a water reuse feasibility study, project permitting, construction administration, and grant administrative tasks.

KEY PROJECT ELEMENTS:

- Urban Stormwater Management
- Multi-agency Collaboration
- Engineering Grant Assistance
- In-construction Services

CR 105 Stream Realignment | Olmsted Co, MN | Olmsted County

Olmsted County realigned County Road 105 and raised the road profile out of the South Fork Middle Branch of the Zumbro River (SFMBZR) floodplain along with a CSAH 4 safety improvement project. The only place to move the road in the narrow space between the river and a bluff was along the existing alignment of an unnamed creek that runs along the toe of the bluff. The County commissioned SRF to design the realignment of 1400+ linear feet of channel and four public waters crossings, as well as coordinate the permit efforts for this project.

SRF performed an assessment of the existing channel, including the Rosgen classification, geomorphic analysis, and pebble count to inform natural channel design implementation. A reference reach was used to design dimensions of the proposed, re-meandered segment of the channel and its pool-riffle-run sequencing. The proposed channel incorporated bio-engineered bank stabilization and in-stream structures to stabilize the channel and prevent lateral migration, floodplain sills and log riffles to reintroduce large woody debris in the new channel location, and floodplain seeding, plantings, and live stakes to help re-introduce vegetation for long-term stabilization and resiliency.

The permitting process required extensive MnDNR and USACE coordination. In early coordination, it was determined that the project required the use of the new Minnesota Stream Quantification Tool (MnSQT) to document the "lift" of the new channel design in comparison to the existing channel. The MnDNR provided input on the design and five separate Public Waters Permits were obtained.



KEY PROJECT ELEMENTS:

- Multi-agency Collaboration
- Ecological Studies/Complex Design
- Complex Permitting

High Value Wetland Prioritization | Nine Mile Creek Watershed, MN | Nine Mile Creek Watershed District

SRF, and their subconsultant RES, were retained by Nine Mile Creek Watershed District (NMCWD) to study four previously identified, high-quality wetlands within the watershed and identify potential projects that improve wetland functionality and/or preserve wetland quality. To assess the wetlands the SRF Team employed a June 2021 report, GIS and as-built data, LiDAR, Minnesota Routine Assessment Methodology (MNRAM), XP-SWMM modeling data, a report detailing groundwater and surface water interaction for wetlands, and site visit data. Considering all data reviewed and collected, the SRF Team developed a list of over 40 potential criteria that included quantitative and qualitative attributes of each subcatchment, each wetland basin, and attributes of the potential projects. The NMCWD Board of Managers was consulted regarding the relative level of importance of an extensive list of criteria. Using the Board's input and the SRF Team's experience with similar wetland and stormwater management projects, the team developed a two-tiered approach to differentiate between different high-quality wetlands and prioritize potential project benefits. Wetland basin scale criteria were used to rank wetlands in terms of quality and relative threat. Then potential projects were considered in terms of costs and benefits to choose the best projects for each wetland. The findings and recommendations were presented to the Board of Managers and documented in a report. Because of the extensive data and criteria used, decision matrices were employed to aggregate the results. The initial resulting project is a combination of invasive plant management, educational outreach to adjacent property owners, educational signing, and educational teaming with a local school engaged in outdoor learning and stewardship. Other future projects have been outlined for the District to consider and plan for in their CIP planning.

● Most Desirable ○ Somewhat Desirable ○ Least Desirable

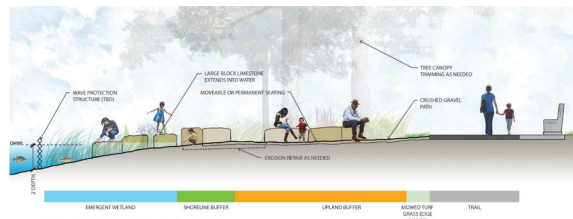
Wetland	Wetland Description	Protection Strategy	Description of Potential Wetland Protection Activities (BOLD scored best)	Partner Project partners and funding opportunities for these projects (contingency)	Public-private opportunities for public projects	Anticipated projects vs. sustained management opportunities for government projects	Wetland as instrument	Estimated of cost/benefit	Ecological Benefits	Educational Opportunities and Community Engagement	Cost (lower is better)	Rank
Wetland ID: 27-115-22-28-013	Wetland Name: Wetland Basin	<ul style="list-style-type: none"> Invasive species control Restoration Wetland delineation Wetland site preparation and protection 	<p>Control invasive species control in wetland including wetland signing and possibly using barriers for purple loosestrife management.</p> <p>Coordinate signed buffer restoration management (e.g., installation of native plants, buffer vegetation where feasible).</p> <p>Placement of catch basins and treatment of storm water on low back yards.</p>	<p>Local school and partner for sign writing and barrier.</p> <p>Local school and partner for sign writing and barrier.</p> <p>7-2 Partner</p>	<p>Private project of wetland (private level)</p> <p>Private project of wetland (private level)</p> <p>Public</p>	<p>Some continued monitoring and management</p> <p>Some continued monitoring and management</p> <p>Maintenance on property</p>	<p>●</p> <p>●</p> <p>●</p>	<p>Ecological, buffer, wetland</p> <p>Ecological, buffer, wetland</p> <p>WQ</p>	<p>Wetland signage with educational signage and signage</p> <p>Wetland signage with educational signage and signage</p> <p>Wetland signage with educational signage and signage</p>	<p>\$48,200</p> <p>\$14,872</p> <p>\$2,000-\$2,000</p>	<p>1-5</p> <p>6</p> <p>15-41</p>	
			<p>Normal wetland monitoring. Encourages to install culverts and other related stormwater treatment options (rain gardens or rain barrels, residential buffers).</p> <p>7-2 Partner</p>	<p>Private</p>	<p>Maintain in responsibility of landowner (local require inspection)</p>	<p>●</p> <p>●</p> <p>○</p>	<p>Ecological, buffer, WQ, wetland</p>	<p>Wetland signage with educational signage and signage</p>	<p>\$2,000-\$2,000</p>	<p>15-41</p>		
			<p>Coordinate with City of Minneapolis to manage City-owned property. Potential for wetland or signage at this location.</p> <p>7-2 Partner</p>	<p>Public</p>	<p>Maintain in responsibility of city</p>	<p>●</p> <p>●</p> <p>○</p>	<p>Ecological, buffer, wetland, signage</p>	<p>Wetland signage with educational signage and signage</p>	<p>\$2,000-\$2,000</p>	<p>15-41</p>		

● Most Desirable ○ Somewhat Desirable ○ Least Desirable

KEY PROJECT ELEMENTS:

- Multi-agency Collaboration
- Ecological Studies

Lake Nokomis Shoreline Restoration and Outfall Repairs | Minneapolis, MN | Mpls Park & Rec Board



KEY PROJECT ELEMENTS:

- Multi-agency Collaboration
- Ecological Studies/Complex Design
- Complex Permitting
- In-construction Services

Minneapolis Park and Recreation Board chose the Applied Ecological Services (AES) and SRF Team for the Lake Nokomis Shoreline Restoration Project. The goals were to restore the lakeshore with native and emergent vegetation and to fix eroded areas along the shoreline while maintaining public access. The project included two community meetings and graphic renderings during the preliminary design phase. SRF's landscape architects developed the construction plans and the water resources team analyzed the shoreline for wave attack and erosivity to design new stabilized shoreline, with soiled riprap with deep rooted vegetation and turf reinforcement mat.

The City of Minneapolis joined the project to make improvements to two badly eroded and exposed storm sewer outlets. SRF designed new outfalls that improved access, water quality, aesthetics, and future erosion potential. SRF also coordinated with permitting agencies including the U.S. Army Corps of Engineers, State Historical Preservation Office, and Minnehaha Creek Watershed District. The project was constructed in the Fall of 2019.

Ravine Regional Park Master Plan & Improvements | Cottage Grove, MN | Washington County

SRF worked with Washington County to amend the master plan for Cottage Grove Ravine Regional Park. The master plan prepares the park for future growth and addresses the impacts to recreation and natural resources of the South Washington Watershed District's (SWWD) proposed stormwater conveyance system through the park. The master plan included updates to the developed areas around the south shore of Ravine Lake including park road circulation, lake access, picnic facilities, a four-season building that could serve as a Nordic center and a summer trailhead facility, and a new park entrance from County State Highway 19. SRF's team of landscape architects, planners, and water resources engineers worked closely with Washington County and South Washington Watershed District staff to identify the impacts of the Central Draw Overflow project through the park, and potential solutions for alignment of the overflow channel and new outlet for Ravine Lake in conjunction with the relocation of the park entrance road.

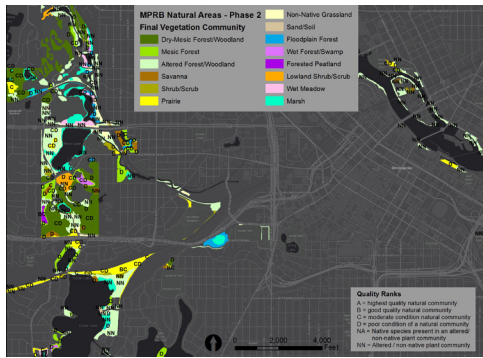


Once the master plan was completed, SRF worked as part of a consultant team to provide the stormwater management, landscape architecture, and structural design services for the improvements to Cottage Grove Ravine Regional Park. SRF completed the final design and construction plans for the new Ravine Lake outlet, which is Phase III of the SWWD's Central Draw Overflow project. SRF's water resources engineers, structural engineers, and landscape architects worked together with SWWD and Washington County staff to design an outlet structure that met the hydraulic, flood control, and ecological needs of the project, while also providing a structurally sound and visually pleasing structure for the many recreational users of the park. In addition to the Ravine Lake outlet, SRF completed the final design of several bioretention basins located throughout the park to provide volume and rate control, and water quality treatment to meet the City of Cottage Grove and SWWD permitting requirements. During construction, SRF's land surveyors provided staking for the park improvements project and the SWWD's ravine stabilization project.

KEY PROJECT ELEMENTS:

- Multi-agency Collaboration
- Ecological Studies/Complex Design
- Complex Permitting
- In-construction Services

Natural Areas Assessment & Management | Minneapolis, MN | Minneapolis Park & Rec Board



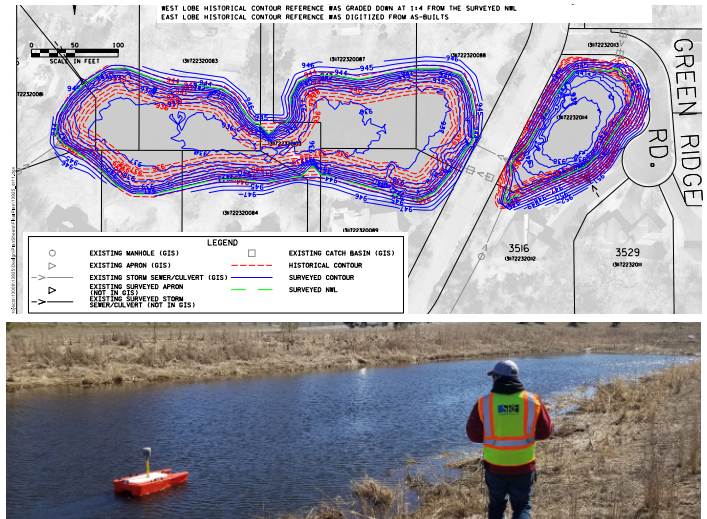
The Minneapolis Park and Recreation Board (MPRB) needed an inventory and ecological assessment of all the natural areas (excluding neighborhood parks) on MPRB owned lands. The natural areas totaled over 1,200 acres. The starting point in GIS was the Minnesota Land Cover Classification System and field verification and assessment for MPRB needs was done in the fields by an ecologist from Applied Ecological Services (AES). SRF is supporting AES with ArcGIS Online maps, a field editing environment for Collector for ArcGIS, and heads-up review and incorporation of field assessments into the geodatabase of natural areas and supporting layers. SRF is also writing the final natural area reports of all the management areas in the MPRB system.

KEY PROJECT ELEMENTS:

- Multi-agency Collaboration
- Ecological Studies

Minnetonka Pond Survey | Minnetonka, MN | City of Minnetonka

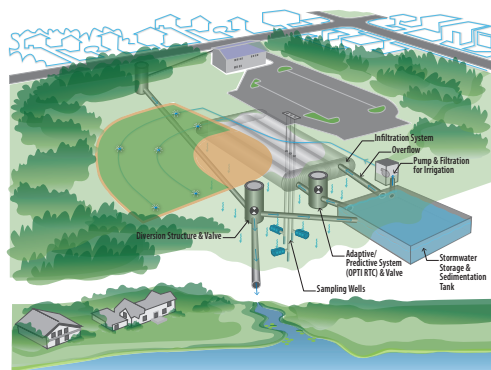
As part of their routine maintenance program, MS4 compliance, and CIP planning, the City of Minnetonka hired SRF to inspect and survey 16 existing stormwater ponds, and to provide inspection reports with recommended actions for City records. The work consisted of reviewing as-built and record plans, georeferencing and digitizing contour data contained in the plans, and collecting field data for the ponds. SRF surveyors and engineers collected bathymetric data, active pool contours, inlet and outlet inverts, and other relevant existing stormwater infrastructure, as well as photos of the sites. Bathymetry was collected with SRF's BathyCat ASV, a remote-controlled boat used in conjunction with our echo sounder, GPS, and data collector. SRF engineers analyzed the existing pond data and compared them to the historical as-built data, specifically the dead pool storage, to help the City staff identify current and future dredging needs. Site maps were created for each pond which displayed the known infrastructure from the Minnetonka GIS database and the surveyed information so the database can be updated. A summary of pond conditions, observations, and analysis results were presented in standalone reports for each location. Digital copies of survey data were also provided in City specified formats.



KEY PROJECT ELEMENTS:

- Pond Maintenance
- Bathymetric Surveys

Lake McCarrons BMP Study | Roseville, MN | Capitol Region Watershed District



KEY PROJECT ELEMENTS:

- Feasibility Studies
- Urban Stormwater Management
- Hydrologic/Hydraulic/Water Quality Modeling

Lake McCarrons is a pristine 81-acre lake located in the southeast corner of Roseville. A popular 15-acre county park situated along the eastern side of the lake is located adjacent to the Villa Park Wetland system, which is a significant subwatershed for the lake. Recent water quality studies have revealed that despite previous phosphorus reduction efforts, this wetland system and its contributing watershed continues to be a major source of nutrients (phosphorus in particular) to Lake McCarrons.

The Capitol Region Watershed District (CRWD) obtained a grant to study and construct water quality BMPs to reduce the phosphorus loading on the Villa Park system. SRF was retained by the District to study the contributing watershed and recommend locations and treatment measures to reduce the loading by 45 pounds of phosphorus a year – a 28 percent reduction in the upstream loading. SRF staff worked with CRWD and the City of Roseville to study the available data and recommend several potential solutions in a feasibility study. Of the several solutions identified, the preferred one involves placing a large underground infiltration system within the B-Dale softball field area in Upper Villa Park. To supplement the underground infiltration system and demonstrate its viability, the CRWD obtained additional funding to design and construct an underground concrete stormwater retention tank that will be used to pump stormwater into the ball field irrigation system. This water harvesting and reuse system also includes a predictive, active management system that proactively draws down the water level in the underground tank based on electronic weather prediction data from National Weather Service. By actively drawing down the stormwater retention tank and discharging it to the infiltration system before it rains, additional phosphorus can be removed. It is predicted that up to 53 pounds of total phosphorus per year will be removed through this integrated system.

Final construction documents were prepared including an underground concrete tank with an irrigation system; a infiltration chamber for excess water; a predictive management system to capture more runoff from the system and provide tank health; and a monitoring system installed through an MPCA funding stream to monitor the quality of water from the infiltration system.

Parkview Center School Stormwater Detention and Filtration | Roseville, MN | Capitol Region Watershed District

Previous Lake McCarrons water quality studies revealed that despite phosphorus reduction efforts, the contributing watershed continues to be a major source of nutrients. SRF was retained by the Capitol Region Watershed District (CRWD) to study the Lake McCarrons watershed and then later the Parkview Center School location and recommend locations and treatment measures, with the focus on the removal of phosphorous. Many options on this site were considered but challenges with poor soils, topography and site limitations almost ruled out any potential treatment at this site. However, Roseville Area Schools had a project at a nearby property with excess fill material and mentioned that they wanted to place it on the Parkview site for future expansion of the parking lot. This location under a future parking lot was suitable for a detention and filter cartridge vault. The contributing watershed that drains to County Road B adjacent to the Parkview Center School property has an area of 44.2 acres of residential and institutional property. This project is estimated to remove 45 pounds of Total Phosphorous (TP) from entering Lake McCarrons.

CRWD obtained a grant to construct the project and retained SRF to do the final design. The use of filter cartridge vaults is still relatively new and has shown to be an effective way to remove Soluble Phosphorous from stormwater runoff. The design consisted of geotechnical and surcharge analysis, storm sewer diversion, CMP storage facility, filter cartridge vault selection and design, analysis for future water reuse connections, and maintenance considerations. Other design elements included traffic control, electrical access, right-of-way documentation, rendering development and educational signing. Construction was completed in Spring of 2020. SRF is also providing monitoring and maintenance assistance on this project site.



KEY PROJECT ELEMENTS:

- Urban Stormwater Management
- Multi-agency Collaboration
- In-construction Services
- O&M Inspections/Maintenance

TH 252 Preliminary Design | Brooklyn Center, MN | Hennepin County & MnDOT

SRF is assisting Hennepin County, in cooperation with MnDOT and others, in evaluation of the conversion of the TH252 expressway to include several new interchanges in Brooklyn Park and Brooklyn Center. The drainage systems along the TH252 corridor are complex and relatively fat, with existing XP-SWMM H&H modeling indicating significant flooding in areas where little to no flooding has been observed. SRF was retained to evaluate the existing H&H models and design stormwater infrastructure for the project. SRF staff implemented a data collection plan and is currently validating and updating the existing models. The data collection plan included record drawing review, select survey, and deploying monitoring equipment to collect flow data for model calibration. Four strategic sites within the sewershed were selected to collect flow and rainfall data. The sites were successfully monitored for two years. Real-time data was accessible via an SRF created website to ensure the monitoring sites were working properly. The data collected was employed to calibrate and create more accurate H&H models for the proposed design resulting in optimized and resilient stormwater infrastructure. This is especially important for this project because upsizing storm sewer in heavily developed TH252 corridor would be expensive and require additional ROW acquisitions.



KEY PROJECT ELEMENTS:

- Feasibility Studies
- Stormwater Management/Preliminary Design
- Hydrologic/Hydraulic Modeling and Calibration

Fire Station #2 Stormwater Reuse System | Eden Prairie, MN | City Of Eden Prairie & Riley Purgatory Bluff Creek Watershed District

In 2015, the City of Eden Prairie began exploring City-owned fire stations that could serve as locations for incorporation of a water reuse system and alternative landscaping demonstration areas, with the intent to offset potable water use, reduce runoff, improve water quality, and educate residents and business owners about water reuse and turf grass alternatives.

The reuse system harvests rainwater from the rooftop into two cistern systems that replaces potable water for irrigation and routes water inside for washing equipment. A new trails rest area and an educational sign were added to highlight the new features of the Fire Station grounds. The demonstration area also includes educational signage about the benefits of home rain barrels to the community.

The site also includes a landscaping demonstration area along the trail. The lawn area was divided into sections to show various types of alternative and ecological lawn types. This included a tall native prairie mix, a short native prairie mix, a formal native garden, and a low-mow/no-mow fescue section. Construction was completed in July 2018.



KEY PROJECT ELEMENTS:

- Urban Stormwater Management
- Multi-agency Collaboration
- Engineering Grant Assistance
- In-construction Services

Central Draw Overflow - Phase V (Cottage Grove Ravine Regional Park) | Cottage Grove, MN | SWWD



KEY PROJECT ELEMENTS:

- Feasibility Studies
- Stormwater Management/Preliminary Design
- Complex Stakeholder Negotiations
- In-construction Services

The South Washington Watershed District (SWWD) retained SRF to complete the final design, construction plans and construction administration for the Central Draw Overflow (CDO) Phase V project. The CDO Phase V project is the last phase in a multi-year planning and implementation effort to implement an emergency overflow to the Mississippi River from the cities of Woodbury and Cottage Grove. The project provides community flood protection, regional storage and infiltration, and extensive natural open space for use by the public. SRF also completed the final design for Phase III as part of the Cottage Grove Ravine Regional Park project, which was the new outlet structure for Ravine Lake.

The project includes over one mile of 72-inch RCP storm sewer and channel grading to connect Phase V to the previously completed downstream project. Most of the pipe is in existing agricultural fields that will be developed in the future. The pipe crosses 80th Street and outlets to a public watercourse. The pipe depth varies from 5 to 40 feet deep, and therefore SRF conducted D-Load analysis and design to properly class the deeper sections of concrete pipe. We worked with Braun Intertec and CNA Consulting Engineers to conduct soil borings and determine if pipe jacking or tunneling was feasible under 80th Street.

SRF conducted hydraulic analysis and design to implement a stabilized channel from the end of the pipe to the channel improvements located downstream in Cottage Grove

Ravine Regional Park. The project included approximately 1,000 feet of channel grading and Turf Reinforcement Mat designed to provide a naturalized, stable channel.

SRF developed final construction plans and specifications, contractor-style cost estimating, DNR and USACE permitting, right-of-way support, and will provide construction oversight when the project is constructed in 2020. We led coordination with the SWWD, Washington County, City of Cottage Grove, City of Woodbury, DNR and local utility companies.

Key Personnel

This section provides brief biographies on a number of project managers that have worked with various watershed organizations throughout the Twin Cities and are available to assist VLAWMO with the various service areas included in this SOQ. The staff identified have led planning projects, stormwater management projects from feasibility through construction, grant initiatives, to name a few. Overall, SRF has 23 water resources engineers that are available to assist the VLAWMO.

In addition, SRF has over 250 staff in the Twin Cities that provide task managers for a number of other services to watershed organizations over the years that have helped districts achieve their missions and goals, including:

- **Various graphics**, including signage for projects that tell the story of how underground projects work or Infographics to help sell ideas.
- **Real Estate services**, who have provided acquisition services on some of the most complicated water resource projects, including the Fargo Diversion project.
- **Public engagement** specialists who have a variety of tools at their disposal to solicit public input or help facilitate a discussion among diverse stakeholders.
- **Surveying services**, including field crews and **property descriptions**.
- **Project Controls**, who provide complex scheduling and contractor level cost estimating for accurate budgeting

Each of the water resource project managers have access to these and other services for a consultation or additional services, providing the VLAWMO cost-effective access to a myriad of additional services



Kevin Bigalke, Senior Project Manager. Kevin has over 25 years of water resource and watershed management experience working at local, regional, and state resource management agencies. He has previously worked as the Assistant Director for Regional Operations for the Minnesota Board of Water & Soil Resources as well as with two different watershed districts and the Minnesota Department of Natural Resources. Kevin brings

a wealth of experience developing and leading watershed management plans, developing local water regulatory programs, and implementing water resource and watershed projects. Kevin has overseen development of local watershed management plans and the implementation of stream restoration projects, lake drawdowns, aquatic vegetation management projects, and grant programs.



David Filipiak, PE, Project Director. David is a director in SRF's Water Resources Group, providing review and oversight with 36 years of experience in engineering and water resources planning. His expertise includes hydrologic and hydraulic modeling of both urban and rural watersheds, preliminary and final design for major storm sewer projects, regional and site-specific Best Management Practice design, green infrastructure studies and design, complex permitting, and major wetland restoration projects. He excels at developing innovative stormwater treatment solutions for both rural and urban projects that use treatment trains and evaluate performance, aesthetics and maintenance. David also is known for his ability to assist clients with navigating the myriad of water resource related permits, finding common ground on complex projects with local, multiple state, and federal jurisdictions.



Erin Hunker, PE, CFM, Project Director/Manager. Erin has 19 years of experience in water resources engineering and design. She has designed stormwater management systems at the planning level, preliminary, and final design stages. She also has expertise in comprehensive stormwater planning for watershed districts and municipalities and has worked as a project manager and engineer for several small-and large-scale water resources projects. Erin excels at effective communication and stakeholder engagement and collaborating with clients and project partners to identify key project goals, gain consensus, and provide innovative solutions that are feasible and provide the client and environment with multiple benefits. Erin is also a Manager of the Nine Mile Creek Watershed District.



Leah Gifford, PE, Project Manager. Leah has 14 years of experience in water resources engineering. Her projects range from planning and feasibility studies, preliminary and final design projects, hydrologic and hydraulic modeling, to MS4 support and GIS mapping. She has a well-rounded understanding of regulatory environments and engineering design procedures and has a passion for working on community-oriented and education-focused projects. She previously worked in the Dam Safety Unit in the Minnesota Department of Natural Resources where she modeled dam breaches to determine flooding impacts; the United States Peace Corps working with agricultural and irrigation systems; and an engineering firm in Illinois where she designed roads and drainage systems for public agencies. As an Alternate Commissioner for the Shingle Creek Watershed Management Organization, Leah understands the perspective and goals of WMOs.



Sean Jergens, PLA, ASLA, LEED AP, Project Manager. Sean has 16 years of experience practicing landscape architecture, with an emphasis on design at the intersection of landscape architecture, natural resource planning, and sustainable stormwater management. Sean has focused his work on designing and implementing public open space, parks, and infrastructure projects that are both beautiful and ecologically beneficial. He has successfully completed numerous projects using native plants in a variety of applications, including shoreline stabilization, native plant community restoration, and integration with stormwater best management practices. His experience also includes seed mix design, construction administration, and vegetation surveys.

Billing Rates

	2022	2023	2024
PROFESSIONAL			
Professional VIII	\$ 170 - \$ 255	\$ 170 \$ 260	\$ 170 \$ 265
Professional VII	\$ 160 - \$ 255	\$ 160 \$ 260	\$ 160 \$ 265
Professional VI	\$ 140 - \$ 240	\$ 140 \$ 245	\$ 140 \$ 250
Professional V	\$ 130 - \$ 240	\$ 130 \$ 245	\$ 130 \$ 250
Professional IV	\$ 110 - \$ 210	\$ 110 \$ 215	\$ 110 \$ 220
Professional III	\$ 100 - \$ 180	\$ 100 \$ 187	\$ 100 \$ 195
Professional II	\$ 90 - \$ 145	\$ 90 \$ 150	\$ 90 \$ 160
Professional I	\$ 85 - \$ 125	\$ 85 \$ 130	\$ 85 \$ 135
TECHNICIAN			
Technician VI	\$ 130 - \$ 210	\$ 130 \$ 215	\$ 130 \$ 220
Technician V	\$ 125 - \$ 210	\$ 125 \$ 215	\$ 125 \$ 220
Technician IV	\$ 110 - \$ 190	\$ 110 \$ 197	\$ 110 \$ 205
Technician III	\$ 90 - \$ 170	\$ 90 \$ 177	\$ 90 \$ 185
Technician II	\$ 80 - \$ 140	\$ 80 \$ 145	\$ 80 \$ 150
Technician I	\$ 70 - \$ 110	\$ 70 \$ 115	\$ 70 \$ 120
SUPPORT SPECIALIST			
Support Specialist VI	\$ 130 - \$ 210	\$ 130 \$ 215	\$ 130 \$ 220
Support Specialist V	\$ 125 - \$ 210	\$ 125 \$ 215	\$ 125 \$ 220
Support Specialist IV	\$ 110 - \$ 180	\$ 110 \$ 185	\$ 110 \$ 190
Support Specialist III	\$ 80 - \$ 160	\$ 80 \$ 165	\$ 80 \$ 170
Support Specialist II	\$ 70 - \$ 135	\$ 70 \$ 140	\$ 70 \$ 145
Support Specialist I	\$ 60 - \$ 110	\$ 60 \$ 115	\$ 60 \$ 120

References

Anna Eleria – Division Manager

Capitol Region Watershed District
595 Aldine Street
Saint Paul, MN 55104
651.644.8888 | anna@capitolregionwd.org

Nate Zwonitzer – Water Resources Project Manager

Capitol Region Watershed District
595 Aldine Street
Saint Paul, MN 55104
651.644.8888 | nate@capitolregionwd.org

Terry Jeffery – District Administrator

Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512 | tjeffery@rpbcwd.org

Matt Moore – Administrator

South Washington Watershed District
2302 Tower Drive
Woodbury, MN 55125
651.714.3729 | mmoore@ci.woodbury.mn.us

Randy Anhorn – District Administrator

Nine Mile Creek Watershed District
Discovery Point
12800 Gerard Drive
Eden Prairie, MN 55346
952-835-2078 | ranhorn@ninemilecreek.org

Nancy Stowe – Projects and Outreach Director

Mississippi Watershed Management Organization
2522 Marshall Street NE
Minneapolis, MN 55418
612.746.4978 | NStowe@mwmwo.org

Contract Exceptions

We are concerned about the availability of our professional liability insurance to respond to a claim given the indemnification clause (14.) as written. It is important for both VLAWMO and SRF to have our insurance available in the case of a claim. We respectfully request the ability to negotiate an insurable indemnity clause should we be selected.