



Nine Mile Creek Discovery Point
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MEMO

TO: Nine Mile Creek Watershed District Board of Managers
FROM: Randy Anhorn
DATE: January 8, 2019
RE: Year-end tracking of identified project and program implementation action items for 2019 - as identified in the District's 10-year Plan

Background

In an effort to track our annual accomplishments against the program and project implementation action items shown in Table 6-1 and 6-2 of the District's 10-year Plan, staff has tried to indicate which 2019 action items were completed, which are still ongoing, or which have not had much progress made on them.

The attached table highlights plan activities that we supposed to be undertaken in 2018 (as well as activities that are to be undertaken in 2020), where we are in completing that plan activity, and measurable outcomes for each.

The green cells indicate that we have completed the action item for 2019. The yellow cells indicate that we partially completed or are still working toward completing the activity (with additional work still needed), and the red cell indicates that little or no progress was made on that activity. "NA" indicates that while the 10-year Plan did not show a plan activity for the implementation item in 2019, there is one for 2020.

The result is 40 green cells, 11 yellow cells and 1 red cell for the 52 plan activities/implementation items identified in the 10-year Plan for 2019.

The overall 2020 workplan, as defined in our Water Management Plan, is also attached.

Request

No action required. The presented is for informational purposes to promote discussion.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
Data Collection (DC)										
DC-1	Develop and implement a groundwater monitoring plan, including identification of abandoned wells and well abandonment procedures.	Develop groundwater monitoring plan, including consideration of monitoring groundwater levels and contamination concentrations.	M	Partner	X	X			X	Continued existing program (may look at expanding # of wells as recommended in GW/SF interaction study), worked with county on sealing abandoned wells
DC-2	Develop and implement a lake monitoring plan including water levels, water quality, and ecological indicators.	Develop lake monitoring plan and update annually.	H	Lead	X	X			X	Continued existing program (Arrowhead, Indianhead, Mirror, Normandale, Rose and Wing lakes in 2019). And continued to include fish surveys on Normandale and Cornelia lakes
DC-3	Summarize annually the results of District data collection programs, assess conditions relative to standards, perform QA/QC, review the data for trends, document results in monitoring report(s), and provide a data summary to appropriate state agencies.	Prepare annual lake monitoring report.	H	Lead	X	X			X	Annually analyze data and prepare water quality monitoring result that is uploaded onto website and included in Annual Report. Looking to expand report to include lake and groundwater level monitoring info
DC-4	Develop and implement a stream monitoring plan including assessment of water quality, continuous flow, substrate and bank conditions, and ecological indicators (e.g. fish and macroinvertebrates).	Develop stream monitoring plan and update annually.	H	Lead	X	X			X	Continued existing program plus walk through of Edina and Lower Valley stream restoration reaches to assess erosion

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
DC-6	Conduct targeted monitoring of lakes, streams, and stormwater to assess pollutant sources and measure success of District management activities.	Conduct targeted monitoring of lakes, streams, and stormwater to assess pollutant sources and measure success of District management activities.	H	Lead	X	X			X	Targeted monitoring associated in 2019 Lake Cornelia (winter dissolved oxygen, sediment cores, carp/goldfish), Lake Edina (Aquatic vegetation), SE Anderson (sediment cores, aquatic vegetation), Lake Smetana (sediment cores, aquatic vegetation), Normandale, (turion survey, aquatic vegetation)
Education and Outreach (EO)										
EO-1	Develop and annually update the District's Education and Outreach Plan, updating the plan as necessary to address emerging issues, audiences, and communication strategies.	Review and prioritize educational programming annually.	H	Lead	X	X			X	Continued current program and evaluate as part of individual and O&E annual workplans
EO-2	Develop and host events, exhibits, and demonstrations at Discovery Point, including an annual state-of-the-watershed event to update stakeholders on progress towards accomplishing District goals.	Develop and maintain permanent and temporary educational exhibits.	H	Lead	X	X			X	Hosted community events for Lake Cornelia UAA update, "Look Back" Summer Tour, and 60th anniversary State of the Waters. Also, Project WET education series, Master Water Stewards program, we house backpack checkout kits and AIS pop up cart and watershed sandbox on-site for public use.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
EO-3	Support and collaborate with other entities implementing education and outreach programs that promote citizen engagement and leadership for watershed management.	Maintain and develop new partnerships to provide educational programming.	H	Lead	X	X			X	Bush Lake Ikes, Stop Over Salting, River Watch, Master Water Stewards, Metro Blooms, Metro WaterShed Partners, Cities, and Partner Watersheds
EO-4	Develop, maintain, and distribute educational communications and other materials in support of the District's educational goals (e.g., signage, website, newsletters, brochures).	Develop and/or distribute educational materials.	H	Lead	X	X			X	Website, newsletter, social media, updated signage, brochures, video, interpretive signage (new signs at north fork headwaters in Hopkins, discribing projects and stormwater BMPs at Valley Park in Hopkins, Harrison Park in Bloomington)
EO-5	Develop and deliver educational materials, workshops, demonstrations, and/or presentations addressing emerging issues, innovative strategies, and best management practices.	Host, conduct, or partner to provide educational workshops, trainings and events.	H	Lead/Partner	X	X			X	Hosted, led and partnered numerous workshops in 2019 including: Sustainable Lawns workshops, salt solutions workshops, smart salting trainings, Project WET (water education for teachers) winter and summer education series, and presentations & field trips with schools.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
EO-6	Coordinate the District's volunteer program(s) and support volunteer programs coordinated by other entities.	Incorporate volunteer events and opportunities into education programming, as achievable.	H	Lead/Partner	X	X			X	Provide support during educational events and work around Discovery Point (including buckthorn busts and volunteer planting events). Also, used volunteers for clean up day along the north branch of the creek at Valley Park in Hopkins and Adopt-a-Drain, Adopt-a-Dock, CAMP, RiverWatch and Master Water Stewards programs.
EO-7	Support and maintain an active Citizens Advisory Committee (CAC) representative of the entire watershed.	Support and maintain an active Citizens Advisory Committee (CAC) representative of the entire watershed.	H	Lead	X	X			X	4 formal and a couple informal meetings. Involvement in "Look Back" summer tour, 60th anniversary State of the Waters event, cost-share grant program. Continue to work with CAC to expand responsibilities while meeting District goals.
EO-8	Develop a program to incorporate public art into the District's projects and facilities.	Incorporate public art into District capital improvement projects, when feasible.	M	Lead	X		Partial		X	While the District has not directly incorporated art into our project, we are working with the cities of Bloomington and Edina for some art components as part of the Normandale Lake outlet and Cornelia Lake Rosland Park BMP projects. In addition, we have incorporated "Art in Nature" in portions of our summer

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
EO-9	Engage the public and solicit public input on District projects and programs.	Host public engagement and input forums on District programs and projects.	H	Lead	X	X			X	Lake Cornelia, Lake Edina, Lake Smetana UAA update kick off and conclusions stakeholder meetings, and 60th anniversary events ("Look Back" summer tour and State of Waters event.
EO-10	Regularly communicate information about District activities, projects, and progress towards goals to cities, residents, and other stakeholders.	Promote awareness of the District's presence and its role in managing water resources.	H	Lead	X	X			X	Published quarterly newsletter, continually update "what's happening", upcoming events" and "news & announcement" sections of website, social media, and attended community events. Also hosted 60th anniversary events (State of the Waters and summer tour)
Operations and Administration (OA)										
OA-1	Establish and implement an Incentive Program for implementation of wetland buffer areas on private properties.	Establish an incentive program for implementation of wetland buffer areas on private properties.	H	Lead	X	X			X	Continued cost-share grant program

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
OA-2	Work with cities to provide technical support for floodplain issues, including identification of floodplains, review of land uses, identification of improvement alternatives, and assistance in implementing city projects to address these issues.	Work with municipalities to identify floodplain areas and permissible land uses.	H	Partner	X	X	X		X	The District continues to provide its Hydrologic and Hydraulic model to partner cities to help identify water quantity issues as well as helping identify associated issues stemming from proposed projects (through the District's regulatory program). The District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. Also, undertook a few studies in 2019 that were shared with our partner cities (2019 spring melt and flooding potential, Atlas -14 and roles in local and regionalized flooding, and stormwater volume reduction opportunities). We look to increase the number of these meetings in the future.
OA-3	Assist cities in implementing climate change adaptation strategies.	Work with local governments to implement climate change adaptation strategies.	M	Partner	X		Partial		X	While we have had little in discussions with municipalities on climate change since climate resiliency grant, the District has had a few meetings with City planning and public works staff to discuss upcoming known private and public projects. In addition, the District undertook a few studies (whose outcomes are somewhat associated with climate change) in 2019 that were shared with our partner cities (2019 spring melt and flooding potential, Atlas -14 and roles in local and regionalized flooding, and stormwater volume reduction opportunities).

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
OA-4	Identify and/or develop tools to effectively measure life-cycle costs and benefits of District projects.	Identify and/or develop tools to effectively measure life-cycle costs and benefits from District projects.	H	Lead	X	X			NA	We continue to use life-cycle cost analysis when we estimate project costs as part of UAA updates and water quality project studies. Also through use of our cost-share BMP inspection tool.
OA-5	Participate in local and regional resource and land planning activities, as appropriate, to identify and leverage opportunities to achieve District goals, objectives and policies.	Partner with Hennepin County, local water management organizations, municipalities, and state agencies to promote development of a regional groundwater management plan, and participate in regional groundwater planning efforts, as appropriate.	H	Partner	X	X			X	Continued working on regional issues through the watershed-based funding initiatives (both county and Metro MN River watersheds based). sed projects (through the District's regulatory program). The District has had a few meetings with City planning and public works staff and future permittees (MNDOT for the upcoming 494 project) to discuss upcoming known private and public projects and regional issues and potential remedies
OA-6	Assist cities in the development of local water management plans and review plans for consistency with District goals and policies.	Assist cities in development of local water management plans	H	Lead/Partner	X	X			NA	Worked with the cities of Bloomington, Edina, Hopkins, Minnetonka and Richfield to fulfill conditional approval requirements for our final approval of their recent LSWMP updates.
OA-7	Review Biennially District performance relative to identified goals, planned implementation items, and available resources; revise programs as necessary.	Biannually review the District implementation program relative to current opportunities, emerging issues, and other evolving factors.	H	Lead	X	X			NA	Completed through the annual review of current year workplan, and development of upcoming workplan through budgeting process.
OA-8	Implement annual work plan in pursuit of District goals, consistent with available resources and applicable legal requirements.	Diligently comply with state and Hennepin County budgeting and levying requirements and protocols.	H	Lead	X	X			X	Completed through the annual review of current year workplan, and development of upcoming workplan through budgeting process.
OA-9	Update District's Water Management Plan		H	Lead	NA	X			NA	Amended Plan to incorporate non-profit BMP projects

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
OA-10	Provide technical assistance to cities, developers, and other stakeholders to promote incorporation of water and natural resource benefits into capital improvement, development, and redevelopment projects.	Identify opportunities to incorporate water resource management efforts into capital improvement projects and major redevelopment projects.	H	Lead/Partner	X	X			X	Through the permitting process as well as working with cities on visioning and planning process (e.g., stormwater volume reduction opportunity analysis, stormwater facility funds to go above and beyond compliance). Also, undertook a few studies in 2019 that were shared with our partner cities (2019 spring melt and flooding potential and Atlas - 14 and roles in local and regionalized flooding)
OA-11	Work with local governments to identify and implement strategies to reduce road salt usage.	Work with local governments to reduce salt usage on roadways.	H	Lead/Partner	X	X			X	The District received an Environmental Leadership award at the 2019 Road Salt Symposium. We continue to meet this item through continued conversations with city public works, hosting level 1 and 2 smart salt trainings, chloride cost-share grants, support and promotion of of limited liability legislation, and watershed-based funding group. Assisted creating guidance for communities interested in developing a rebate program to reduce chloride from home water softners as well as a model ordinance for municipal officials regulating the use of deicers and partipated in the creation of a smart salting training and manual for property managers
Maintenance (M)										

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
M-1	Maintain and improve stormwater management facility maintenance standards in collaboration with cities; work with the cities and private entities to confirm facilities are maintained.	Maintain and improve stormwater management facility maintenance standards in collaboration with the cities of the District.	H	Lead	X		Partial		NA	The recently hired Permit Coordinator has taken permit inspections in-house and has strengthened permitting relationships with city permit and public work staff. The Permit Coordinator has also worked with peers in the permitting field to enhance efficiencies and explore updated permit and stormwater BMP tracking methods and software.
M-2	Develop a stormwater management facility maintenance system to document maintenance agreements and track compliance.	Develop a stormwater management facility maintenance database to document maintenance agreements and track compliance.	H	Lead	X		Partial		X	The Permit Coordinator has taken permit inspections in-house in 2019 and has expanded the District's currently used permit tracking spreadsheet to include this information. In addition, to better track compliance and other permitting information, the District is beginning to explore more efficient auto populating and self notifying permit tracking and inspection software for use in 2020.
M-3	Operate, monitor, and maintain current and future NMCWD water quality improvement facilities to ensure the designed benefits are achieved.	Operate, monitor, and maintain current and future NMCWD water quality improvement facilities to ensure the designed benefits are achieved.	H	Lead	X	X			X	Continue to initiate cost-share BMP inspection tool.
Rules and Permitting (RP)										
RP-1	Continue to implement the District's permitting program, including inspections and enforcement actions.	Implement stormwater volume, quality and rate-control criteria in District rules.	H	Lead	X	X			X	Continued current regulatory program which processed 147 permits in 2019--29 of which triggered stormwater for a reduction of roughly 100 lbs of phosphorus and 30,000 lbs suspended solids. Have fully moved permit inspections in-house, which has allowed the District more timely violation follow up.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measurable Outcome
RP-2	Review periodically permitting program administration and costs; evaluate opportunities to improve efficiency.	Periodically review costs of administering its permitting program in comparison with fees collected.	H	Lead	X	X			NA	This is annually done through the budgeting process. In addition, to better track compliance and other permitting information, the District is beginning to explore more efficient auto populating and self notifying permit tracking and inspection software for use in 2020.
RP-3	Review periodically District rules and update as necessary.	Conduct review of District stormwater rules to ensure rules are adequately protective of groundwater quality.	H	Lead	NA	X			NA	Formalized interpretation policy of Floodplain Rule 2.3.2 (compensatory flood storage" in 2019
RP-4	Administer WCA requirements as the responsible Local Government Unit (LGU) for the cities of Eden Prairie, Edina, Hopkins, and Richfield; provide technical assistance, as requested, in wetland-related matters in Bloomington and Minnetonka.	Provide technical assistance in wetland-related matters in Bloomington and Minnetonka.	H	Lead	X	X			X	Continue current program
Studies (S)										
S-2	Assess increased flood risk due to predicted climate changes.	Assess increased flood risks due to predicted climate changes.	H	Lead/Partner	X		Partial		X	Continued conversation with cities on areas and roles of flood risk (especially as it relates to Atlas-14) and future area prioritization. Also, we undertook a 2019 spring melt and flooding potential study that we shared with our partner cities identifying problem areas for their attention
S-3	Conduct study of groundwater and surface water interaction in Nine Mile Creek watershed to better understand the impacts of groundwater on lake, wetland and stream hydrology; and identify and map areas in the watershed based on potential for (and limitations to) groundwater recharge.	Conduct study of groundwater and surface water interaction in Nine Mile Creek watershed to better understand the impacts of groundwater on lake, wetland and stream hydrology and to identify areas with high aquifer recharge potential	H	Lead	X	X			NA	Completed the District-wide groundwater - surface water interaction study with recommendations and presented to the Board. This information has also been shared with our partner cities and has been used in their analysis of high lake levels.

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
S-4	Collaborate with others to research infiltration impacts on groundwater and develop a consistent approach to protecting areas sensitive to groundwater contamination.	Collaborate with others to research infiltration impacts on groundwater and develop a consistent approach to protecting areas sensitive to groundwater contamination.	H	Participant	X	X			X	In addition to this being looked at on a site by site process through our permit program, the District recently worked with the city of Bloomington and the MPCA on getting direction from the MPCA on not allowing infiltration with the Lyndale Avenue superfund area of concern due to the potential of exasperating groundwater contamination
S-5	Inventory areas within the District for possible natural space restoration or enhancement and maintain a database of these opportunities.	Inventory areas within the District for possible natural space restoration or enhancement and maintain a database of these opportunities.	M	Lead/Partner	X		Partial		NA	The District has had informal discussions with partner cities, TRPD and Hennepin County about ecologically significant and natural resources corridors (as identified through MLCCS data) on their properties and their future plans for potential enhancements.
S-9	Update Use Attainability Analyses for Lake Smetana.	Update Use Attainability Analyses for Lake Smetana	H	Lead	X	X			NA	The Smetana Lake UAA update is essentially complete with a community stakeholder meeting and board presentation on findings to take place in the first quarter of 2020
S-20	Work with agencies and stakeholders to develop subwatershed-based implementation programs for the North Fork of Nine Mile Creek.	Work with agencies and stakeholders to develop subwatershed-based implementation program for the North Fork of Nine Mile Creek.	H	Lead	X	X			NA	This item is being done through the UAA update and project implementation process (Lake Smetana in 2019). The District also helped coordinate and provided funds to a Lake Minnetoga group to implement numerous raingardens through the lakes watershed.
S-21	Work with agencies and stakeholders to develop subwatershed-based implementation programs for the South Fork of Nine Mile Creek.	Work with agencies and stakeholders to develop subwatershed-based implementation program for the South Fork of Nine Mile Creek.	H	Lead	NA				X	NA

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
S-23	Identify and target priority chloride sources to Nine Mile Creek.	Identify and target priority chloride sources to Nine Mile Creek.	H	Lead	X		Partial		NA	The District continues to target priority chloride sources through the hosting of level 1 and 2 smart salt trainings, chloride cost-share grants, support and promotion of limited liability legislation, and watershed-based funding (county and MN River collaboration tema chloride initiatives) group. The District also assisted in the creation of guidance for communities interested in developing a rebate program to reduce chloride from home water softners as well as a model ordinance for municipal officials regulating the use of deicers and participated in the creation of a smart salting training and manual for property managers. The District also worked with a few business on properly storing their salt piles so to reduce the potential for ruoff
S-25	Conduct periodic inspections of Nine Mile Creek to identify and target areas prone to erosion.	Conduct periodic inspections of Nine Mile Creek to identify and target areas prone to erosion.	H	Lead	X	X			NA	In 2019, areas along the north branch and lower valley areas were walked to look for erosion and erosion problem areas to be continually monitored
S-26	Prepare a District wetland inventory that identifies high-value wetlands within the watershed, rare and high-quality wetland biological communities, and identifies opportunities for restoration and/or protection	Inventory wetlands within the watershed, including delineation, functions and values assessment.	H	Lead	NA				X	NA - To be undertaken in 2020
Projects (P)										
P-1	Work with cities to establish natural vegetated buffers on all publicly owned lands adjacent to Nine Mile Creek and stormwater detention areas.	Work with cities to establish natural vegetated buffers on all publicly owned lands adjacent to Nine Mile Creek and stormwater detention areas.	M	Partner	X	X			X	Through Edina Streambank project and Cornelia UAA project as well as cost-share grant program

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
P-2	Develop and implement strategies to manage invasive species in coordination with natural resource agencies.	Work with natural resource agencies to manage invasive species and restore native species.	M	Partner	X		Partial		X	Started the process of developing an overall AIS Strategy in 2019 (similar to that discussed at MAWD 2018).
P-3	Identify and implement natural resource protection and enhancement projects, including the restoration strategy for NMCWD Discovery Point, and seek opportunities to include open space, recreational, and habitat benefits into District capital projects.	Implement open space, natural area and habitat improvements opportunities as part of NMCWD capital improvement projects.	H	Lead	X	X			X	Continue current work on entire Discovery Point Landscape Restoration project and incorporating natural resources enhancement projects as part of Normandale and Corenelia lake water quality efforts and as part of the non-profit BMP project.
P-4	Work with local governments in identification, planning, and development of regional or site-specific stormwater management systems to enhance treatment.	Establish a regional stormwater-management compliance option in the NMCWD rules.	H	Lead	X	X			X	Approved the Hopkins and Minnetonka on Shady Oak Pond regional SW management treatment plan. Continue to have conversations with the City of Bloomington to find areas for regional treatment to offset lost volume reduction in the Lyndale Avenue superfund area
P-5	Implement opportunities for enhanced stormwater management in cooperation with cities or other public and private partners through the District's cost share program, including stormwater reuse projects and innovative stormwater management demonstration projects.	Continue to implement the District's cost share program, which provides financial assistance to engage stakeholders to implement BMPs.	H	Lead	X	X			X	Completed the District-wide analysis identifying stormwater volume reduction opportunities on public parcels and presented to our partner cities. This has thus far resulted in one opportunity for our partnering to go above and beyond on a city project in Edina (as well as opening the doors to future projects in the city). The District is also continuing to research potential for stormwater reuse (irrigation) at Braemer golf course.
P-7	Actively participate in the TMDL and WRAPS process for District waterbodies, incorporating UAAs or other District studies where applicable.	Actively participate in the TMDL process for District lakes and streams	H	Lead/Partner	X	X			NA	Continue working with MPCA and others on Lower MN River TMDL and WRAPS

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
Capital Improvement Project (CIP)										
1	Stabilize and restore the North Fork of Nine Mile Creek in Edina ¹ .	Stabilize the North Fork of Nine Mile Creek in Edina.	H	Lead	NA				NA	Construction and initial revegetation phases are completed. Possibility to address additional planting in spring depending on plant mortality
2	Implement recommendations of Normandale Lake UAA (2005) and/or subsequent studies (see S-6 from Table 6-2), which may include in-lake alum treatment, aquatic plant management, and/or construction of two stormwater treatment ponds within the North Fork and South Fork watersheds.	Implement recommendations of Normandale Lake UAA.	H	Lead/Partner	X	X			X	Completed lake drawdown and in-lake alum treatment component of Normandale Lake WQ Improvement project. Still working on herbicide and fisheries
3	Implement recommendations of Lake Cornelia UAA (2010) and/or subsequent studies (see S-8 from Table 6-2), which may include management of curlyleaf pondweed and carp, alum treatment of phosphorus-rich lake sediment, construction of a stormwater treatment pond and/or an iron-enhanced sand filter just upstream of North Lake Cornelia.	Implement recommendations of Lake Cornelia UAA or WRAPS.	H	Lead/Partner	X		Partial		X	Completed UAA update for Lake Cornelia and ordered an in-lake alum treatment that will be delayed until the spring of 2020. Currently working on study to identify other projects (e.g., Rosland Park stormwater BMP), and researching fisheries management options.
4	Implement structural improvement recommendations from the Pentagon Park/Border Basin Regional Stormwater Management Study.		H	Lead/Partner	X			X	X	While we have had some conversation on the Pentagon Park/Border Basin areas and possible solutions, the cities of Bloomington and Edina (who we would partner with) seem reluctant to move forward with options at this point
5	Implement recommendations of Lake Edina UAA or WRAPS, once completed.	Implement recommendations of Lake Edina UAA or WRAPS.	H	Lead/Partner	NA				X	NA
6	Implement Southeast Anderson Lake improvement recommendations from Anderson Lakes UAA (2005), which includes alum treatment of phosphorus-rich lake sediment and additional curlyleaf pondweed management, as needed.	Implement Southeast Anderson Lake improvement recommendations from Anderson Lakes UAA.	H	Lead/Partner	NA				X	NA
Other - Undefined in Plan										
1	Discovery Point Office Addition	Work with the City of Eden Prairie to revise the District's PUD and development agreement with the city to allow and undertake an addition to add District office building to add needed office and storage space.	H	Lead	X		Partial		X	Received city approval and amended development agreement in 2019. desing and construction to take place in 2020

District Annual Implementation Programs, Projects and CIP during 10-year Plan Cycle

Implementation Items		Plan Activity	Priority	NMCWD Role	2019	Completed	Ongoing	To Do	2020	Measureable Outcome
2	Find opportunities to use Stormwater Facilities Fund dollars to make up lost stormwater volume, and water quality reductions from past permits that were unable to meet the District's full stormwater management requirements due to site constraints		H	Lead/Partner	X		Partial		X	Have agreement with the City of Edina to provide SFF dollars for implementing a stormwater BMP above and beyond their stormwater volume requirement needs as part of a project at the Braemar public works facility. Unfortunately due there not being much additional untreated runoff in the area, our above and beyond amount will be rather small./ Nonetheless, it has opened up conversations on partnerships on other future city projects

NMCWD 2020 Workplan

Administration	
Accounting and Audit	<ul style="list-style-type: none"> Coordinate annual audit. Continue to work with Treasurer and accountant to maximize fund investments. Develop 2021 budget and fulfill required public participation process for levy/taxation submittal.
Board	<ul style="list-style-type: none"> Plan and hold Board Retreat (team building, vision, prioritization). Hold workshops on policy and educational topics.
Internal Policies	<ul style="list-style-type: none"> Continually review bylaws and internal manuals as necessary. Develop Personnel Committee.
Advisory Committees	<ul style="list-style-type: none"> Engage TAC on high water, AIS, water conservation and emerging topics. Engage CAC on cost-share grants, photo calendar, education and events and volunteer management Facilitate recruitment of CAC members.
Discovery Point	<ul style="list-style-type: none"> Building addition (offices and storage) On-going building maintenance. Create long-term maintenance fund. Landscape restoration and maintenance.
Professional Services	<ul style="list-style-type: none"> Biennial solicitation for professional services including development of a pool for engineering services.
Programs	
Data Collection, Assessment & Management	<ul style="list-style-type: none"> Continue data collection program at permanent sites. Investigate strategically expanding the number of groundwater observation well sites. Undertake strategic monitoring at sites to assess future projects and issues. Assess data sharing opportunities. Develop and distribute annual monitoring report.
Education and Outreach	<ul style="list-style-type: none"> Implement environmental education & outreach plan and review at year end. Manage partnership activities with other organizations and stakeholders. Coordinate public engagement for District projects.
District Hydrologic & Hydraulic (H&H) Model	<ul style="list-style-type: none"> Coordinate maintenance of the District's H&H model. Coordinate model update with cities and other partners if additional information is collected or becomes available. Partner with cities on regional flooding issues.
Grant Program	<ul style="list-style-type: none"> Review program and recommend modifications where necessary. Review cost-share grant applications and recommend funding implementation. Track and inspect current and past grant projects.
Regulatory Controls and Permitting	<ul style="list-style-type: none"> Implement regulatory program. Continued review of regulatory program to maximize efficiencies. Create and implement permit and cost-share grant inspection and tracking software. Implement regulatory program.

	<ul style="list-style-type: none"> Continually review and amend District rules as necessary.
Technical Assistance	<ul style="list-style-type: none"> Provide technical assistance to cities and residents to promote the incorporation on water and natural resources benefits into their projects.
Water Management Plan Implementation	<ul style="list-style-type: none"> Continually review and identify needs for amendments to the Plan.
Total Maximum Daily Load (TMDL)	<ul style="list-style-type: none"> Continue to work with the MPCA on the Lower MN River Watershed Restoration and Protection Strategies (WRAPS) and TMDL.
Aquatic Invasive Species (AIS)	<ul style="list-style-type: none"> Develop a District AIS Strategy (in partnership with partners).
Wetlands	<ul style="list-style-type: none"> Prepare a wetland inventory identifying the District's highest quality wetlands. Continually identify potential restoration and protection sites and look to establish a District wetland bank. Continue to administer the Wetland Conservation Act (WCA) requirements where we are the WCA LGU and participate on Technical Evaluation Panels in those that we are not.
Capital Projects	
Edina Streambank Stabilization/Restoration	<ul style="list-style-type: none"> Conduct spring survey of vegetation needs to determine areas that need to be replanted under warranty. Wrap up the last two maintenance easements with the private property owners.
Normandale Lake Water Quality Project	<ul style="list-style-type: none"> Undertake projects identified in the Normandale Lake water quality feasibility study that are yet to be implemented (e.g., herbicide treatment for curly-leaf pondweed management and carp management).
Lake Cornelia & Edina Water Quality Projects	<ul style="list-style-type: none"> Undertake projects identified in the Lake Cornelia Lake water quality feasibility study that are yet to be implemented (e.g., herbicide treatment for curly-leaf pondweed management, in-lake alum treatment, Rosland Park stormwater BMP and fisheries management practices [aka carp/goldfish control]).
SE Anderson Lake Water Quality Project	<ul style="list-style-type: none"> Determine the need to implement recommendations from the SE Anderson Lake UAA (e.g., in-lake alum treatment and curly-leaf pondweed management).
Stormwater Facilities Fund (SFF) Projects	<ul style="list-style-type: none"> Find opportunities to use SFF dollars to replace lost stormwater management requirements (volume retention and water quality) from applicants not fully meeting District stormwater requirements.
Regional Flood Study Projects	<ul style="list-style-type: none"> Continue to work with cities (and other partners) to identify and study regional stormwater management needs/issues and implement solutions.
Repair and Maintenance	<ul style="list-style-type: none"> In coordination with partner cities, undertake inspections of past projects to determine needs for any repair and maintenance of project areas. In partnership with partners cities, implement repair and maintenance needs.
Non-Profit Stormwater BMP Projects	<ul style="list-style-type: none"> Implement the Non-Profit Stormwater BMP projects.