

AGENDA

Tuesday, August 13, 2019

6:00 PM

Prior Lake City Hall

www.plslwd.org

BOARD OF MANAGERS:

Mike Myser, President; Fred Corrigan, Vice President; Charlie Howley, Treasurer;

Bruce Loney, Secretary; Curt Hennes, Manager

Note: Indicated times are estimates; actual times may vary considerably. Individuals with items on the agenda or who wish to speak to the Board are encouraged to be in attendance when the meeting is called to order.

Board Workshop 4:30 PM – Wagon Bridge Conference Room (Downstairs)

4:30- 4:35 p.m. Governance Conference—Manager Attendance

4:35-5:35 p.m. 2020 Budget

5:35-5:45 p.m. Emerging Issues

After Board Meeting: Continued discussion of the Budget

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|----------------|-----|--|
| 6:00 – 6:05 PM | 1.0 | BOARD MEETING CALL TO ORDER & PLEDGE OF ALLEGIANCE |
| 6:05 – 6:10 PM | 2.0 | PUBLIC COMMENT
If anyone wishes to address the Board of Managers on an item not on the agenda or on the consent agenda please come forward at this time, turn on the microphone and state your name and address. (The Chair may limit your time for commenting.) |
| 6:10 – 6:15 PM | 3.0 | APPROVAL OF AGENDA (Additions/Corrections/Deletions) |
| 6:15-7:00 PM | 4.0 | OTHER OLD/NEW BUSINESS |
| | 4.1 | Programs & Projects Update (Discussion Only) <ul style="list-style-type: none">○ Water Quality, Water Storage and AIS Inspections |
| | 4.2 | Accelerated Carp Management Strategies 2019 & 2020 Draft Budget (Vote) |
| | 4.3 | Sutton Lake Storage Project Budget 2019 and Draft Budget for 2020 (Vote) |
| | 4.4 | Proposed District MAWD Resolution (Vote) |
| | 4.5 | Interns' Summer Projects Wrap-up |
| | 4.6 | Manager Per Diem (Vote) |
| 7:00-7:10 PM | 5.0 | CONSENT AGENDA
The consent agenda is considered as one item of business. It consists of routine administrative items or items not requiring discussion. Items can be removed from the consent agenda at the request of the Board member, staff member, or a member of the audience. Please state which item or items you wish to remove for separate discussion. |
| | 5.1 | Meeting Minutes – July 9 Board Workshop & Board Meeting |
| | 5.2 | Meeting Minutes—July 25 CAC |
| | 5.3 | Claims List |
| | 5.4 | A657578 Conservation Easement Amendment |
| | 5.5 | District Administrator Performance Appraisal Summary (Brief Report) |
| 7:10-7:25 PM | 6.0 | TREASURER'S REPORT |
| | 6.1 | Cash & Investments (Discussion Only) |
| | 6.2 | Financial Report (Discussion Only) |

7:25-7:35 PM 7.0 Manager Presentations on Watershed-related Items (Discussion Only)

7:35 – 7:40 PM 8.0 **UPCOMING MEETING/EVENT SCHEDULE:**

- NO CAC MEETING IN AUGUST; NEXT ONE 9/24 (TUESDAY)

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

AUGUST 2019 PROGRAMS & PROJECTS UPDATE

Capital Projects

PROJECT	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
Public Infrastructure Partnership Projects <i>Project Lead: Maggie</i>	<ul style="list-style-type: none"> Diane and Curt attended Sand Creek Township meeting on July 11 and secured cost share on engineering costs. 	<ul style="list-style-type: none"> Present the engineering plan to the Board and Sand Creek Township.
Storage & Infiltration Projects <i>Project Lead: Diane</i>	<ul style="list-style-type: none"> Revised the approach 	<ul style="list-style-type: none"> Board approval to move ahead with a proposed budget
Carp Management <i>Rough Fish Management (Class 611)</i> <i>Carp Management Project (Class 750 & 751)</i> <i>Project Lead: Maggie, Jeff & Kathryn</i>	<ul style="list-style-type: none"> Worked with WSB to finalize cost estimates and timeline for Accelerated Carp Management Strategies (ACM). Prepared summary of ACMS descriptions and 2020 budgeting. Met with SMSC to discuss and coordinate carp management strategies for Arctic Lake. Removed debris and old stop logs from Northwood barrier location and installed new, temporary stoplogs to block water during construction. Contacted City to initiate excavation and ROW permits. Engaged contractor for August installation. Ordered box trap nets. 	<ul style="list-style-type: none"> WSB and PLSLWD staff will continue to track the tagged carp. Install permanent Northwood carp barrier. Final design and installation of the FeCl barrier redesign. Carp removals in Geis wetland & Northwood wetland (electrofishing/box traps/trap nets). Repair drum barrier at desilt pond. Work with WSB to schedule and coordinate upcoming carp removals/tagging as opportunities arise. Analyze PIT tag station "hits" for movements and trends. Move forward with any additional carp management activities as directed by Board.

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Operations & Maintenance

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
Ferric Chloride System Operations <i>Project Lead: Jaime</i>	<ul style="list-style-type: none"> Sampled 1x/week Inspect shed/pump 3x/week DMR Report Opened/closed weir gate for MnDOT culvert replacement 	<ul style="list-style-type: none"> New walkway and fish barrier Look into permanent fix to driveway for ferric delivery Sample 1x/week Inspect 3x/week DMR Report
Farmer-Led Council <i>Project Lead: Maggie</i>	<ul style="list-style-type: none"> Planned and coordinated August FLC meeting with SWCD staff. Coordinated guest speakers for next two FLC meetings. 	<ul style="list-style-type: none"> Finalize participants for the cover crop initiative. Explore farmer mentorship program with FLC members. Prep for next meeting in December. Meet with partners to start coordinating County-wide event to promote conservation practices.
Cost Share Incentives <i>Project Lead: Kathryn, Diane</i>	<ul style="list-style-type: none"> Verified installation of installed projects and processed applications. 	<ul style="list-style-type: none"> Process applications as they are received. Verify installation of completed projects.
Spring Lake Parcel Restoration Project <i>Project Lead: Maggie & Kathryn</i>		<ul style="list-style-type: none"> Order and install large sign visible from lake. Monitor restoration and control invasive species during growing season. Install small plant identification signs.
Raymond Park Restoration Project <i>Project Lead: Kathryn</i>	<ul style="list-style-type: none"> Maintenance work continues 	<ul style="list-style-type: none"> Install educational interpretative signs. GRG will continue maintenance at park in 2019. Follow-up visits will keep buckthorn and other invasives at bay. Additional seeding will be done this year, if needed.

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Operations & Maintenance

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
<i>Fish Lake Shoreline & Prairie Restoration Project</i> <i>Project Lead: Kathryn</i>	<ul style="list-style-type: none"> • MN Native Landscapes continues initial restoration work • Coordinated with Spring Lake Township & MNL. 	<ul style="list-style-type: none"> • MN Native Landscapes continue initial restoration work.
<i>CR 12/17 Wetland Restoration</i> <i>Project Lead: Maggie</i>	<ul style="list-style-type: none"> • AES completed spot spraying to control invasive species in restoration area. 	<ul style="list-style-type: none"> • Continue to work with AES on invasive species control and vegetation establishment. • Coordinate with the County & City to make sure that the issues have been resolved at the outlet structures.
<i>Lower Prior Lake Retrofit Projects</i> <i>Project Lead: Maggie</i>		<ul style="list-style-type: none"> • Continue to work with AES on site maintenance until the projects are fully established and accepted by the City of Prior Lake. • Install interpretive signs for projects.

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Planning

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
<i>District Plan Update</i> <i>Project Lead: Diane</i>	<ul style="list-style-type: none">• Staff revised the format and worked on the Implementation section.	<ul style="list-style-type: none">• Meet with Board to review changes.
<i>Feasibility Reports</i> <i>Project Lead: Maggie</i>		<ul style="list-style-type: none">• EOR will complete the two feasibility studies this fall.

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Education & Outreach

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
Website and Media <i>Project Lead: Kathryn</i>	<ul style="list-style-type: none"> • As of August 5, 12:00 pm: • Website articles posted: District makes great strides in carp management. • Scott Co. SCENE articles. • Prior Lake Am articles. • Lakefront Days booth • Facebook & Twitter- continuing Trivia Tuesday (question posted on Tues, answer posted Wed). • Facebook: <ul style="list-style-type: none"> • 463 page followers, 4 new followers • 43 Posts w/ 100+ views • Twitter: 6,800 total post impressions. <ul style="list-style-type: none"> • 292 followers, 2 new followers • 20+ Tweets w/ 100+ views 	<ul style="list-style-type: none"> • Continue writing posts and updates about projects • Will tweet and/or update Facebook about projects & news. • Write article for next SCENE edition.
Citizen Advisory Committee <i>Project Lead: Diane & Kathryn</i>	<ul style="list-style-type: none"> • Met on July 25 • Discussed preferred 50th Anniversary activities • Will select goals for 2020 	<ul style="list-style-type: none"> • Next CAC meeting is on September 24 • No August meeting.
MS4 Education Program <i>Project Lead: Kathryn</i>	<ul style="list-style-type: none"> • Implement education activities • Completed Annual MS4 Report • Coordinate volunteer group interested in doing volunteer work at Fish Lake Park 	<ul style="list-style-type: none"> • Implement education activities

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Monitoring & Research

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
Monitoring <i>Project Lead: Jaime</i>	<ul style="list-style-type: none"> • Data management. • Database maintenance/entry. • Long Term Monitoring Plan • Took samples and flow measurements • Fish Point Park study w/PL Interns • Ordered/received new sonde 	<ul style="list-style-type: none"> • Data management. • QA/QC data. • Enter data into the water quality database • Finish Long-Term Monitoring Plan for WRMP • Work with City of Prior Lake on Fish Point IESF study
Aquatic Vegetation Management and Surveys (Class 626 and 637) <i>Project Lead: Jaime</i>	<ul style="list-style-type: none"> • Survey and BioBase reports • Assessed CLP treatment zones • BioBase Swamp Lake, Artic Lake, and Desilt Pond 	<ul style="list-style-type: none"> • BioBase mapping

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Regulation

PROGRAM	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
BMPs & Easements <i>Project Lead: Maggie & Kathryn</i>	<ul style="list-style-type: none"> Met with Living Hope Church on the vegetation establishment of their conservation easement amendment. Worked with landowners to resolve existing violation issues on their properties prior to the annual inspections. Completed annual easement inspections & met with several landowners who contacted us with questions. Worked on easement baseline reports. Sent pre-inspection letters for July inspections. Wrote post-inspection letters for some of completed June & July inspections. 	<ul style="list-style-type: none"> Review amendment requests as they are received and work with landowners towards closing out approved amendment requests. Work with landowners to resolve easement violations. Complete baseline documentation for each conservation easement property. Continue annual easement inspections. Send post-inspection letters for completed inspections.
Permitting <i>Project Lead: Maggie & Jeff</i>	<ul style="list-style-type: none"> Completed erosion & sediment control inspections for permits in active construction. Followed-up with permittees on problem areas. EOR corresponded with Hwy 13 project contractor on challenges with the site. Staff keeping close eye on culvert replacement area located to the north of the FeCl shed for the Hwy 13 project. Issued permit #19.01 for County Public Works building. Issued permit for #18.06 conditional upon maintenance agreements. 	<ul style="list-style-type: none"> Continue to inspect, follow-up on and close remaining open permits.
Rules Revisions <i>Project Lead: Diane</i>	<ul style="list-style-type: none"> No activity 	<ul style="list-style-type: none"> Last meeting scheduled for 8/12

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Prior Lake Outlet Structure & Channel

ACTIVITY	LAST MONTH'S STAFF ACTIVITIES	NEXT STEPS
Prior Lake Outlet Channel <i>Project Lead: Jaime</i>	<ul style="list-style-type: none"> Weekly channel inspections Cleared obstructions in culverts Cleared vegetation outlet structure Closed low-flow gate 	<ul style="list-style-type: none"> Weekly channel inspections.
Channel Bank Erosion (FEMA) <i>Project Lead: Diane</i>	<ul style="list-style-type: none"> No activity 	<ul style="list-style-type: none"> Continue construction in late summer/fall Silt curtain and biologs still need to be removed in Segment 2
JPA/MOA & TAC Meetings & Admin <i>Project Lead: Diane & Jaime</i>	<ul style="list-style-type: none"> July 22 Cooperators Mtg 2020 PLOC Workplan and budget Cooperators Mtg Aug 8 	<ul style="list-style-type: none"> Finalize 2020 Workplan and budget
Invasive Species Removal <i>Project Lead: Jaime</i>	<ul style="list-style-type: none"> Wild Parsnip removal Purple loosestrife control Spot treating Segment 7 hand pulling in sensitive location 	<ul style="list-style-type: none"> Fall inspection Fall treatments
MS4 Permit <i>Project Lead: Diane & Jaime</i>	<ul style="list-style-type: none"> No activity 	<ul style="list-style-type: none"> Review annual permit draft
PLOC Easements <i>Project Lead: Diane</i>	<ul style="list-style-type: none"> Staff developed a list of the status of easements 	<ul style="list-style-type: none"> Review easements at the August 8 Cooperators meeting

MEMORANDUM

TO: BOARD OF MANAGERS
FROM: MAGGIE KARSCHNIA, WATER RESOURCES PROJECT MANAGER
SUBJECT: ACCELERATED CARP MANAGEMENT STRATEGIES
DATE: AUGUST 7, 2019

OVERVIEW

At the Board meetings in June and July, the managers and staff discussed ideas of thinking outside the box to accelerate carp removal efforts in Spring and Prior Lakes. Staff and WSB consultants explored all potential activities, proven and theoretical, that could increase the probability of success within a year's timeframe through the end of 2020 and developed the attached accelerated carp management strategies.

The attached are refined cost estimates for the accelerated carp management activities, as well as a proposed budget for 2020. Activities in 2019 are anticipated to be covered by existing funding.

REQUESTED ACTION

Based on feedback during the last two Board meetings, PLSLWD staff is requesting one of the following two actions:

1. The Board will make a motion to approve the Accelerated Carp Management Strategies which will be included in the District's 2019 and 2020 carp management activities and budget.
2. The Board direct staff to make changes to the strategies and adjust the 2020 budget accordingly.

ACCELERATED CARP MANAGEMENT STRATEGIES

2019 BUDGET YEAR

CAMERAS/SONAR STATIONS

STATIONARY CAMERAS: Common carp in the Prior Lake Spring Lake Watershed district are known to move en masse every spring through stream connections that have been documented. To more finely track this movement and detect times when carp are susceptible to being captured in larger numbers in these stream channels, we propose to install cameras that can be remotely accessed to provide for quick response. One location will be in the channel connecting to upstream Arctic Lake (Freemont Avenue crossing) and another location will be in the channel connecting Spring Lake to Upper Prior Lake (Spring Lake Road crossing). These cameras can be easily accessed remotely and guide carp removal efforts at these locations.

UNDERWATER CAMERAS: Having underwater cameras provide continuous video feed in preferred seine areas during spring spawning and winter aggregation times could help increase success of removals. However, there is limited information on maintaining a continuous feed underwater camera in under ice conditions. More research needs to be completed on how this system might operate and how well the cameras might perform. At this time, we suggest purchasing an underwater camera to use during winter seines to better confirm aggregations, and to contact the University of Minnesota to see if they can assist in figuring out how to set a camera system up that would perform the tasks we require.

SONAR: Another method to monitor fish aggregations can be done via sonar imaging. Using this technology, managers will be able to monitor fish aggregations without relying upon a subset of tagged carp. Using tags to monitor fish requires a site visit and physically tracking carp locations from boat or over ice, sonar would require retrieving and reviewing collected data from the unit on-site. Additionally, sonar could be used to monitor movement encouraged by the use of speakers described in other sections of this document. The sonar unit can be mounted and mobilized to monitor any site. Data is viewed on a laptop computer that would be provided by PLSLWD. However, the cost of sonar at this point (estimated at roughly \$80,000) does not provide enough benefit for investment. Therefore, staff has decided not to pursue this technology at this point.

Item	Unit Cost	Qty	Cost Estimate
Stationary Cameras	\$450	2	\$900
Solar charging station	\$100	2	\$200
Wireless Service	\$40/year	2	\$80
Underwater Camera	\$1,000	1	\$1,000
WSB hours			\$2,000
Total			\$4,180

SOLICIT RECIPIENTS FOR CARP

Removal effort that yield less than 30,000 pounds are not commercially viable since the cost of transport outweighs the cost benefit of selling the fish to market. Spring-time removal efforts via netting techniques described in this document, are expected to capture up to 5,000 pounds in a single effort. These smaller fish hauls have historically been taken to the local organics recycling facility to be disposed of. In order to utilize these fish as a resource, we are interested in soliciting recipients for carp who would use them for human consumption, feed source for animals (pigs, mink, etc.), fertilizer or other. Under this task we are proposing to solicit various recipients for carp to provide a low cost disposal plan while utilizing these fish in a way that will benefit the community.

Item	Unit Cost	Qty	Cost Estimate
WSB hours			\$1,600
Total			\$1,600

Notes: This budget reflects time to locate and solicit recipients for carp and time to coordinate day-of pick-up or drop-off carp biomass to select recipients based on anticipated small scale removal efforts in year one. It is currently unknown what type of compensation for the carp we may receive to off-set these costs.

PURCHASE SEINE NET FOR DISTRICT

While seining remains the primary carp removal technique and there are commercially viable numbers of carp present in both Spring and Upper Prior Lakes, there has been some hesitancy by commercial crews to commit resources to netting these lakes. This is due to the presence of aquatic invasive species, (Eurasian watermilfoil, curly leaf pondweed, and zebra mussels) and the requirement to decontaminate nets and associated equipment. Based on weather, the decontamination period may be up to 21 days, meaning that commercial crews may not have gear to net other high priority lakes/projects.

The purchase of a seine net by the district for use by commercial crews should mitigate this obstacle to netting by providing a net to fishing crews that could be properly decontaminated or used repeatedly in the same waterbody while not restricting the fishing crews' ability to continuously net in other waters.

Item	Unit Cost	Qty	Cost Estimate
Nets	\$16,500	1	\$16,500
Winch and associated hardware	\$4,600	1	\$4,600
WSB hours			\$2,353
Total			\$23,453

Notes: The budget reflects labor and materials to build the net approximately 2,000 feet long and 40 feet deep with no bag. WSB hours are to be used to coordinate with the net builder, purchase supplies, and ensure net is built to specs. This budget does not include WSB labor/time to utilize the net for removal operations without commercial fishing crews assistance. The cost for WSB to coordinate and lead two (2) seine events (20 hours per event which include the netting and fish sorting/removal is \$13,375.

2019 COST SUMMARY:

STRATEGY	COST	FUNDING
Cameras	\$4,180	611 – ROUGH FISH
Solicit Recipients	\$1,600	611 – ROUGH FISH
Purchase Seine Net	\$16,500	750 – BWSR GRANT 751 – 319 GRANT \$10,000 covered by grants
TOTAL	\$22,280	

Staff anticipates using existing 2019 budgeting to cover remaining costs and that no additional budget will be required.

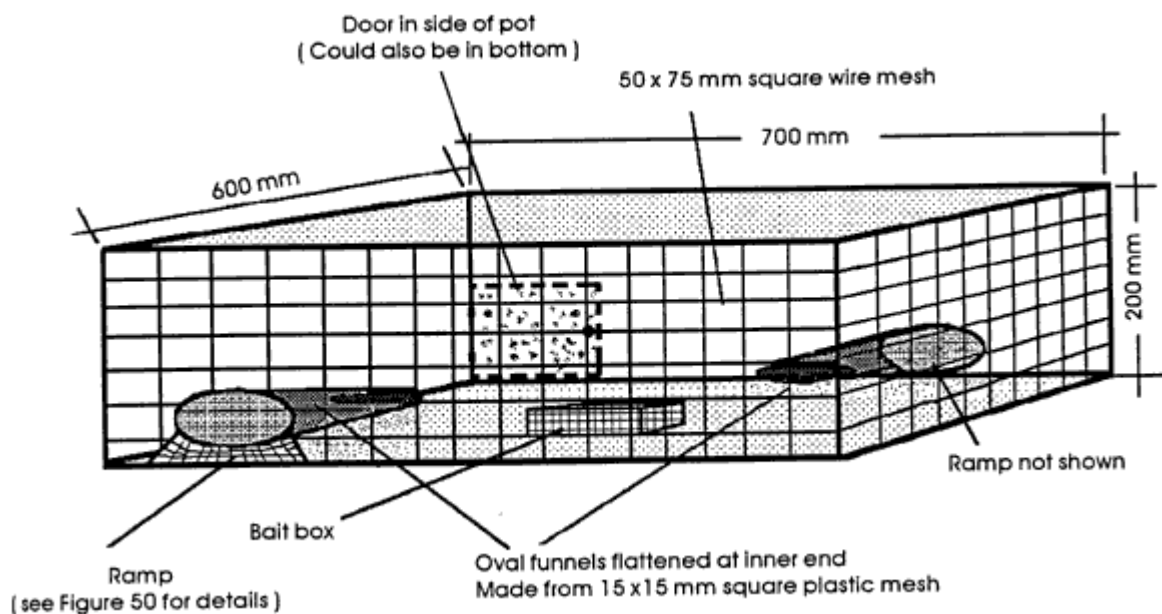
2020 BUDGET YEAR

REMOVAL STRATEGIES

NEWMAN CAGE

This design is similar to a baited box net, but rather than having to “trigger” the net by pulling up the sides to capture the carp, this net provides constant fishing when set.

Below is an approximate version:



The net can be baited and left set. Carp would access the net through throats or tunnels sewn into the sides. You could have multiple throats in one tunnel to reduce the ability of carp to swim out. It should be noted that carp are able to swim out of a fyke or standard trap net, so this design would allow some potential movement of carp out of the net.

The mesh size of the walls would need to be quite small (maybe 1/8" or 1/4") so as not gill non-target species. The floor of the net could remain large mesh size; 3" square.

An alternative design would be to frame a one-way door into the side of the net. Basically, a hole would be cut into the side wall of the net measuring 1' x 1' or 2' x 2'. A metal frame would be placed around the hole and the door would be attached the inside of the frame so it only opens inward. The frame would need to be mounted on posts driven into the substrate. The door could be attached to a spring or hinge at the top of the frame to make it more secure.

Dimensions of the net would vary based on the setting location. This net is proposed to be used in two ways. The first would be to capture carp as they migrate through “pinch points” in the watershed. The preferred location for

testing based on observed movements would be the downstream or Mud bay side of the Freemont Barrier. Carp would access the net through the tunnels or one-way door. Checks could be made daily and fish removed; either by electrofishing or by pulling up the floor of the net like a bag.

The second application would be to set the net in shallow water feeding areas to be used as a baited box net. This allows for diverse utility of the same net.

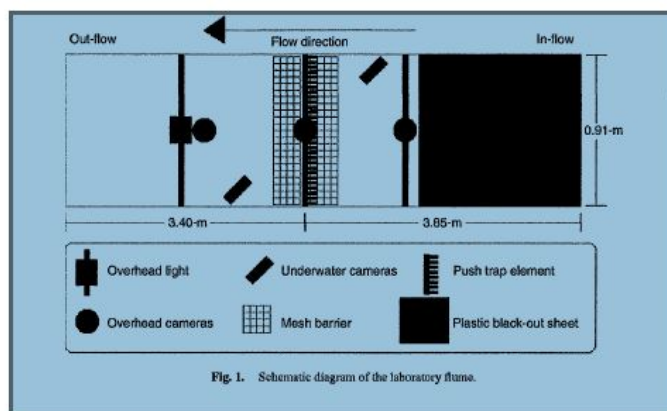
Item	Unit Cost	Qty	Cost Estimate
Nets/Hardware	\$7,980	1	\$7,980
Bait	\$500	1	\$500
WSB hours		253	\$25,645
		Total	\$34,125

Notes: This budget is based on setting the net three times in 3 separate locations (8 hours per visit), five (5) trips for baiting and checking (4 hours), and six (6) different removal events at eight (8) hours per visit. The number of WSB staff will vary by event and task.

PUSH-TRAP IN DESILT POND

This proposed activity takes advantage of the migratory behavior of carp as well as their propensity to “push” through barriers and is modeled conceptually on a design described in detail by Thwaites (2015). Initial laboratory results indicate that the push trap was successful in capturing 91% of adult carp in the experiment.

The design incorporates a row of stainless steel fingers mounted on a crossbar and set at angles that allow carp to push through and swim upstream into a collection basin. The rotating fingers are similar to those mounted at the ferric chloride weir, which rotate on a fixed cylinder. The fingers are set at a height that allow for the forward or upstream movement of the fingers that “open” the trap, but the fingers cannot swing back to allow carp to exit the trap.



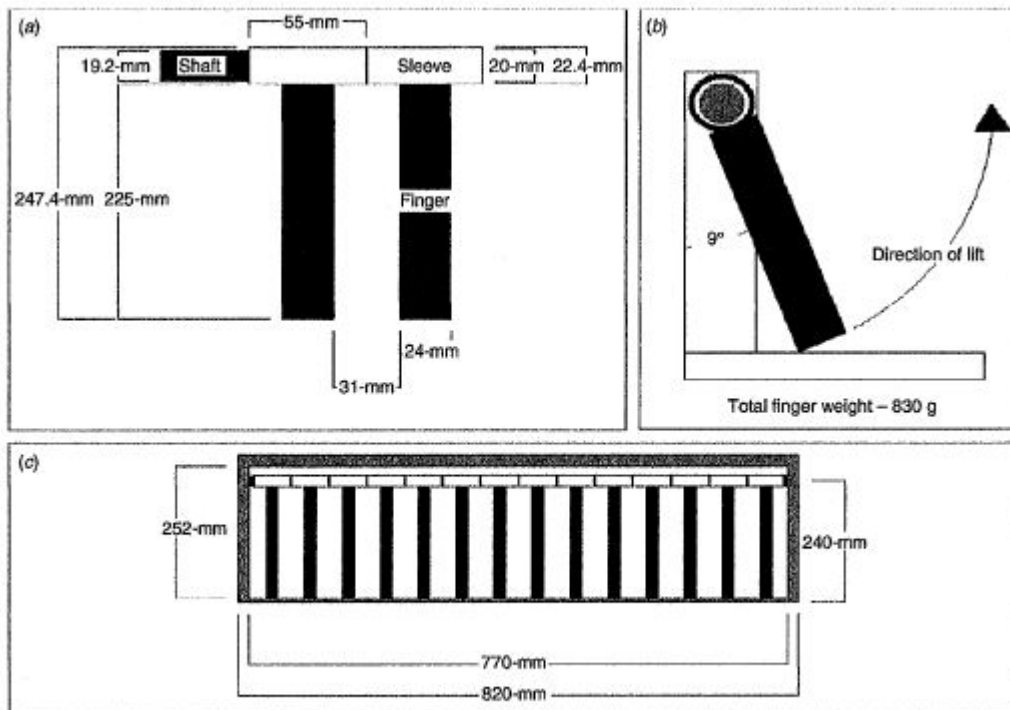


Fig. 2. Schematic diagrams of the carp push trap element. (a) Finger, sleeve and shaft dimensions. (b) Side view of a finger. (c) Trap element dimensions.

The proposed location for this trap is the downstream end of the desilt pond where the drum barrier is located. The push trap structure would be mounted on the existing helices and cage would be attached to the helices to hold carp that successfully push through the trap. These carp would then be removed from the cage.

Item	Unit Cost	Qty	Cost Estimate
Push structure	\$9,500	1	\$9,500
Cage	\$16,250	1	\$16,250
WSB hours			\$11,646
Total			\$37,400

Notes: Materials include the push trap structure, hardware, and the holding cage. Labor costs include hours for installation and removal, three (3) separate site checks, and three (3) removal events (carp removal to ORF or other facility included).

MULTIPLE SEINE EFFORTS

The primary method for large scale carp removal remains seine netting by commercial fishing crews. There are currently three (3) commercial crews that work within the PLSLWD led by Jeff Reidemann, Tim Adams, and Don Geyer. Don Geyer is the fisherman licensed for area 20, which the PLSLWD falls into.

Don Geyer only nets under the ice, while Tim Adams and Jeff Reidemann are available to net during open water periods. Areas that are netted are called “hauls”. There are a limited number of haul areas on Spring and Upper Prior Lakes. These areas are dictated by underwater obstructions and where carp aggregate. There is one (1) primary haul on Spring on the west end, with a secondary area on the east side. In Upper Prior, there is (1) primary area, with a secondary area in Mud Bay, and one (1) untested area in the north central portion of the lake.

Under the existing project there is budget for four (4) open water and one (1) under ice removal. Due to limited budget for this activity, WSB and district staff will be judicious when scheduling removals, and only scheduling removals when there is certainty that the seine net will come through the haul and that there are enough carp in the haul to be cost effective (determined primarily by radio tag aggregations).

Additional budget will allow for more frequent seine netting, perhaps in unproven areas or when carp aggregations are not large, but sufficient enough to result in significant biomass reduction.

Item	Unit Cost	Qty	Cost Estimate
Open water commercial fees	\$3,000	3	\$9,000
Under ice commercial fees	\$5,000	2	\$10,000
WSB hours			\$12,275
Total			\$31,275

Notes: This budget is based on three (3) open water seine attempts and two (2) under ice attempts in addition to those already planned under the existing grant.

STOCKING BLUEGILLS

Bluegill are the main predator of carp; feeding on eggs and larvae. When abundant, bluegill can act as a biological control agent for carp, representing another component of carp integrated pest management. To avoid predators, carp will migrate to nursery sites that are generally devoid of these predators due to low dissolved oxygen or inadequate habitat to ensure survival and recruitment of carp fry and young of year.

To mitigate this, we propose to stock existing nursery site(s) with 4-6” bluegill in spring before carp migration and spawning. This would be done on a trial basis. The initial candidate nursery is Geis wetland. Winter dissolved oxygen measurements show elevated oxygen levels (7 ppm), which is high

enough to support winter survival. It is unknown if the habitat is sufficient to support bluegill recruitment, but stocked bluegill should survive based on measured dissolved oxygen levels.

The recommended stocking rate on many aquaculture websites is ~500 fish/surface acre. Geis is ~10 surface acres. Previous electrofishing and netting surveys show that there is an existing bluegill population in Geis. Based on that, we propose a reduced stocking rate of 250 bluegill/surface acre or 2,500 bluegills as a trial. Stocking success would be measured by reduced catch per unit effort of young of year and juvenile carp and increased catch per effort of bluegill. Northwood Pond may be another candidate for stocking, but a proposed barrier may restrict carp movement into this basin and dissolved oxygen levels are most likely not sufficient, requiring annual stocking in spring to maintain a predator population.

Item	Unit Cost	Qty	Cost Estimate
Bluegill	\$1.40	2,500	\$3,500
WSB hours			\$2,312
Total			\$5,812

Notes: Write disclaimers or additional info here.

PURCHASE BOAT FOR DISTRICT USE

Having a boat for District use will help aid in tracking carp more frequently and less expensively on Spring Lake and other waterbodies beyond Prior Lake. It will also allow more flexibility with timing and would accelerate removal efforts by having a boat to assist removals or to complete smaller removals using only District staff. Cost estimates for this include a boat, trailer, and hitch.

Item	Unit Cost	Qty	Cost Estimate
Boat	\$18,000	1	\$18,000
Total			\$18,000

STOCKING BUFFALO FISH (OR OTHER NATIVE FISH)

Bigmouth buffalo are a native planktivorous fish that filter feed plankton (algae). There is evidence that these fish also feed on zebra mussels. Filter feeding on algae may provide benefit to water quality by reducing algae concentration (hypothesized).

There is current research on determining the current status of buffalo populations within Minnesota waters, but there has not been a comprehensive effort to quantify populations or population trends. One potential idea is to replace removed carp biomass with that of bigmouth buffalo; restoring a native fish population, potentially improving water quality, and increasing the bottleneck for carp recruitment based on a lake's limited biomass capacity.

This strategy earmarks funding for a future study to 1) quantify existing buffalo populations in the PLSLWD, 2) determine the feasibility to culture/stock buffalo, 3) determine if buffalo may improve water quality if present in sufficient numbers.

Item	Unit Cost	Qty	Cost Estimate
Feasibility Study	\$35,000	1	\$35,000
Total			\$35,000

Notes: The budget identified above is an earmark, as there is no formal study design, thesis, or workplan developed to date.

TOOLS TO ENHANCE SUCCESS

TRAINING CARP WITH NOISE & BAIT

There is some evidence in the literature to suggest that carp can be positively habituated to noise and have been documented by WSB and others to be susceptible to baiting. Thwaites and Fredberg (2013), found that carp were attracted to specific sounds and that they were potentially able to be “trained” to both noise and visual stimuli. Other studies suggest that sound and bait may also be used in combination. Under this task, we propose to use both baiting and noise stimuli in combination to lure carp to pre-set net trap to further increase the amount of carp biomass removed annually. The advantage to using noise to lure carp is that it is more active capture technique, rather than waiting for carp to move to baiting stations.

Activities under this task would involve installing an underwater speaker, similar to the one being used as part of the unified technique, baiting, and observing carp behavioral reaction to these stimuli. Baiting would be done over a prepositioned box net, and, if carp are present in large number (>50 fish), pulling the box net and removing captured carp. Results from this work, if proven to be successful, would be refined and employed in future removal operations.

Item	Unit Cost	Qty	Cost Estimate
Extra speaker	\$1,900	1	\$1,900
LiveScope System	\$2,000	1	\$2,000
Bait	\$300	1	\$300
WSB hours			\$10,817
Total			\$15,017

Notes: This budget is based on three (3) separate site visits to deploy the net, speaker, and bait, and monitor carp behavior with side scan sonar/radio telemetry. The labor budget would also include removal operations (if necessary), a brief report, and station reconnaissance/set up.

ENGAGING VOLUNTEERS FOR BAITING/REMOVALS

We recommend using a method known as baited box net traps to aggregate carp using corn within the trap area. While feeding in the darkness hours, walls are raised around the carp at the bait location. Carp would then be “corralled” and pulled into a boat. Multiple traps can be set and raised simultaneously in several sites around the lake, or in a staggered order to pace out the workload. Rounds of trapping can run until budget is depleted or water is too cold to attract carp.

WSB employees’ time on this task would be made up of training local citizen volunteers in the luring of the carp using corn bait. It would also include time spent on installing the traps, troubleshooting issues, raising of the walls, and removal of carp from the traps, uninstalling the traps and decontaminating them. Volunteers would then be responsible for daily monitoring of the corn bait at the trap site (includes boating or wading to about 20 feet from shore and filling a mesh bag with approximately 25 pounds of cracked corn). They will also be responsible for prompt and accurate reporting to WSB staff of the daily results and rebaiting of the traps.

Item	Unit Cost	Qty	Cost Estimate
Box net trap rental and storage	\$3,150	2	\$6,300
Corn bait	\$8	200	\$1,600
WSB hours			\$19,824
Total			\$27,724

Notes: Final amount of effort able to be achieved will be dependent on ability of volunteers and/or district staff to accomplish their tasks. This budget plans for two traps to be used in addition to the Newman Trap objective that could potentially be used in the open water as well.

HERDING CARP USING ADDITIONAL SPEAKERS

Under current project schedule, we have purchased one sound amplifying system to move carp into desirable locations for capture. Successful netting operations require a bottom free of debris/excessive mud and a large enough area conducive to stretching the net. It will be advantageous to have the means to easily move fish from one area to another to improve capture techniques including seine netting and other fish trap techniques. Additional speakers will improve the technique of herding by allowing managers to encourage and deter movement from more than one location.

Item	Unit Cost	Qty	Cost Estimate
Speaker Unit	\$1,900	1	\$1,900
WSB hours			\$5,000
Total			\$6,898

Notes: This proposed speaker would bring the total number of speakers proposed to three (3). One speaker has already been purchased under the current project budget and an additional speaker is being proposed under Training Carp With Bait and Noise.

WSB hours assume that this activity will be done in conjunction with other removal operations proposed here meaning this is not a stand-alone project.

2020 COST SUMMARY:

STRATEGY	DISTRICT LEVY (611/550)	GRANT FUNDING (319/BWSR)	TOTAL COST
Newman Cage	\$27,125	\$7,000	\$34,125
Push Trap	\$29,400	\$8,000	\$37,400
Multiple Seine Efforts	\$22,275	\$9,000	\$31,275
Stocking Bluegills	\$5,812		\$5,812
Purchase Boat	\$18,000		\$18,000
Buffalo Fish Feasibility Study	\$35,000		\$35,000
Engaging Volunteers for Removals	\$20,724	\$7,000	\$27,724
Herding Carp	\$6,898		\$6,898
TOTAL	\$165,234	\$31,000	\$196,234

611 Rough Fish Management Total: \$65,710

550 Carp Management Grants Total: \$99,524

Date | 8/2/2019

Potential Project Schedule (Updated)

- ## Preliminary Summary of Costs

Item	2019 Costs	2020 Costs	Total Costs
1. BATHYMETRY AND NRI SURVEYS	\$17,843	\$2,000	\$19,843
2. REVISE OPERATING PLAN	\$1,500	-	\$1,500
3. PLANNING AND ENGINEERING	\$18,873	-	\$56,760*
4. EASEMENT AND LEGAL COSTS	\$10,000	-	\$10,000
5. FINAL DESIGN, BIDDING & CONSTRUCTION OVERSIGHT	\$12,000	\$14,000	\$26,000
6. CONSTRUCTION**	-	\$294,542	\$294,542
TOTAL SUTTON LAKE COSTS	\$62,216	\$310,542	\$408,645

**** Based on 60% Plan Probable Project Cost Estimate (attached)**

ENGINEER'S OPINION OF PROBABLE PROJECT COST

Sutton Lake

PREPARED BY EMMONS & OLIVIER RESOURCES, INC.

JOB NO. 00758-0114

REVISED: Friday, July 19, 2019

Item No.	Item	Estimated Quantity	Units	Unit Price	Total Price
1	MOBILIZATION	1	LS	\$ 22,000.00	\$ 22,000.00
2	SEED, MNDOT MIXTURE 25-131 (MESIC PRAIRIE GENERAL) @ 36.5 LB / ACRE	65	LB	\$ 50.00	\$ 3,250.00
3	SEED, MNDOT MIXTURE 34-181 (EMERGENT WETLAND) @ 5 LB / ACRE	5	LB	\$ 400.00	\$ 2,000.00
4	SEEDING	2.75	AC	\$ 3,000.00	\$ 8,250.00
5	HYDRAULIC BONDED FIBER MATRIX (ACCESS ROAD)	2	AC	\$ 3,500.00	\$ 7,000.00
6	EROSION CONTROL BLANKET - CAT. III	2900	SY	\$ 2.25	\$ 6,525.00
7	TEMPORARY EROSION AND SEDIMENT CONTROL	1	LS	\$ 10,000.00	\$ 10,000.00
8	DEWATERING (BYPASS: INSTALL & REMOVE)	1	LS	\$ 6,000.00	\$ 6,000.00
9	48" AGRI-DRAIN CONTROL STRUCTURE W/ SOLID LID	1	EA	\$ 5,500.00	\$ 5,500.00
10	48" CONCRETE OUTLET CONTROL STRUCTURE W/ HAALA OVERFLOW GRATE	1	EA	\$ 5,000.00	\$ 5,000.00
11	24" GATE VALVE	1	EA	\$ 20,000.00	\$ 20,000.00
12	10" HDPE STORM SEWER	100	LF	\$ 30.00	\$ 3,000.00
13	24" HDPE STORM SEWER	35	LF	\$ 80.00	\$ 2,800.00
14	20" X 28" CSAP STORM SEWER	103	LF	\$ 80.00	\$ 8,240.00
15	24" STEEL APRON	1	EA	\$ 1,200.00	\$ 1,200.00
16	20" X 28" CSAP APRON	2	EA	\$ 1,500.00	\$ 3,000.00
17	CLEMSON BEAVER POND LEVELER (MATERIALS & INSTALL)	2	EA	\$ 2,000.00	\$ 4,000.00
18	GALVANIZED STEEL SHEETPILE WEIR (26' WIDE X 10' DEPTH)	1	LS	\$ 15,000.00	\$ 15,000.00
19	RIPRAP, CLASS 3 & GEOTEXTILE FABRIC, TYPE IV	72	CY	\$ 125.00	\$ 9,000.00
20	EXCAVATION & HAUL OFFSITE (EXCAVATED SPOILS)	2300	CY	\$ 20.00	\$ 46,000.00
21	REUSE ONSITE SOILS FOR EMBANKMENT	400	CY	\$ 10.00	\$ 4,000.00
22	IMPORT & EMBANKMENT	1700	CY	\$ 30.00	\$ 51,000.00
23	CLEARING & GRUBBING	1	LS	\$ 5,000.00	\$ 5,000.00
24	TRAFFIC CONTROL	1	LS	\$ 20,000.00	\$ 20,000.00
CONSTRUCTION SUBTOTAL:					\$ 267,765.00
		10%	CONSTRUCTION CONTINGENCY		\$ 26,776.50
CONSTRUCTION TOTAL					\$ 294,541.50
		BATHYMETRY AND NRI SURVEYS			\$ 19,843.00
		REVISE OPERATING PLAN			\$ 1,500.00
		PLANNING AND ENGINEERING			\$ 56,760.00
		EASEMENT AND LEGAL COSTS			\$ 10,000.00
		FINAL DESIGN, BIDDING & CONSTRUCTION OVERSIGHT			\$ 26,000.00
PROFESSIONAL FEES TOTAL					\$ 114,103.00
TOTAL PROJECT COST					\$ 408,644.50
ESTIMATED ACCURACY RANGE***		-5%	\$ (20,432.23)		\$ 388,212.28
		15%	\$ 61,296.68		\$ 469,941.18
***This Preliminary Design-level (Class 2, 30 to 70% design completion per ASTM E 2516-06) cost estimate is based on concept-level designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. Contingency is an allowance for the net sum of costs that will be in the Final Total Project Cost at the time of completion of design, but are not included at this level of project definition. The estimated accuracy range for the Total Project Cost as the project is defined is -5% to +10%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The contingency and the accuracy range are not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.					

Project Name | Sutton Lake Outlet Structure

Date | July 1, 2019

To | PLSLWD Board of Managers

Cc | Diane Lynch, District Administrator

From | Carl K. Almer

Regarding | Options to Proceed in Response to DNR Permit Amendment Requirement

Background

A DNR Public Waters Work Permit was issued on February 8, 2019 for the Sutton Outlet Control Structure based on the 60% Draft Plan Set (see attached Permit 2018-3741). This permit is conditioned on final construction plan set and operating plan approval by the DNR Area Hydrologist and Wildlife Manager prior to construction. In response to these conditions EOR submitted to DNR on April 4, 2019 a draft operating plan for review and comment. On April 18, 2019 the District was informed that the operating plan triggered additional statute and rule requirements that were not considered by the DNR when the permit was issued.

The purpose of this memorandum is to provide further detail regarding these additional requirements and the potential options for moving forward with obtaining an amended DNR permit for the project.

Draft Operating Plan and Additional Rule & Statute Triggered

DNR's notice for the need to amend the permit is predicated on the District's proposed operating plan which includes temporary drawdown (below the existing control elevation of 939.0). The draft operating plan proposes temporary drawdown: 1) annually over the winter to maximize storage capacity, and 2) periodically in early summer for habitat management.

Table 1. Operation schedule summary.

Drawdown Goal	Drawdown Date	Frequency	Storage Benefit	Habitat Benefit
Maximize Storage Capacity	End of Waterfowl Season – March 15 (or after snow melt)	Annual	<ul style="list-style-type: none"> - Captures spring runoff - Maximizes storage capacity during growing season 	<ul style="list-style-type: none"> - Promotes aquatic plant abundance and diversity via consolidation of sediments and stimulation of native seed bank
Habitat Management*	May 15 – July 15	Every 3-10 years dependent on habitat response and lower watershed conditions (BWSR 2014)	<ul style="list-style-type: none"> - Maximizes flood storage capacity after July 15 	<ul style="list-style-type: none"> - Favors native perennial emergent vegetation such as bulrush and spikerush species - Strengthens submerged vegetation in remaining inundated areas - Allows floating cattail mat to settle, root to lake bottom and be flood

**Early season drawdown will only be initiated if Prior Lake elevation is at or below 903.0. Early season drawdown will only be maintained if Prior Lake elevation does not exceed 903.5.*

In order for the District to proceed with the proposal for temporary drawdown, the District will need to meet [MN Statute 103G.408](#) and [MN Rule 6115.0271](#) paragraph C (both attached for reference).

In short, this will require that:

1. The DNR commissioner deems the project to be beneficial and makes findings of fact that the drawdown is in the public interest,
2. The District obtains permission from 75% of riparian landowners, and
3. The District conducts a public hearing.

Estimated Flood Reduction Benefits

The flood reduction benefit associated with the proposed design is primarily attributed to constructing a managed outlet that restricts the rate of discharge for events up to the 100-year event. Without drawdown, the proposed design provides an estimated 300 ac-ft of storage and has an estimated benefit of 0.09' in peak water level reduction on Prior Lake.

In addition, the proposed drawdown provides an additional 100 ac-ft of storage – or approximately 2' of depth across the open water surface – and provides an additional estimated benefit of 0.03' (+33%) in water level reduction on Prior Lake. This estimate is conservative in that the bathymetry of the open water and floating cattail portions of the Sutton Lake basin is largely undetermined, and 2' of storage under the open water surface represents a low-end estimate of the potential storage provided by the basin at lower elevations.

DNR Permit Amendment Options

As discussed at the May 14, 2019 Board meeting, there are four (4) apparent paths for proceeding with amendment of the DNR permit and continuing with the project. It should be noted that there is no substantive difference in construction cost for these options since all would require the same overall outlet capacity to manage large rainfall events. The design difference for these options is the control elevation and operation protocols.

Option 1 – Eliminate Drawdown

This option excludes the ability to drawdown the lake below the existing runout elevation.

Advantages

- a. Ability to proceed without MN Statute 103G.408 requirements

Disadvantages

- a. Loss of design component that the majority of riparian landowners favored
- b. Loss of all flood reduction benefit associated with temporary drawdown
- c. Wetland exemptions based on ability to provide wildlife enhancement will be questioned; mitigation likely required

Estimated additional cost: \$50,000 (wetland mitigation via purchase of banking credits)

Option 2 – Periodic Drawdown: Growing Season Only

This option excludes winter drawdown.

Advantages

- a. Addresses DNR Wildlife Department's primary concern that annual winter drawdown would freeze-out (kill) herptiles and amphibians
- b. Maintains secondary benefit of wildlife habitat improvements

Disadvantages

- a. Need to meet MN Statute 103G.408 requirements
- b. Limits design component that the majority of riparian landowners favored
- c. Loss of primary flood reduction benefit associated with winter drawdown
- d. Need to revise outlet operation plan

Estimated additional cost: \$10,000 (hearing, landowner approvals and operating plan revision)

Option 3 – Annual & Periodic Drawdown (as originally proposed)

This option pursues the drawdown as currently proposed (with annual winter and periodic summer drawdowns).

Advantages

- a. Preserves the flood reduction benefits originally proposed

Disadvantages

- a. Need to meet MN Statute 103G.408 requirements
- b. Need to develop additional baseline documentation – NRI, Seed Bank Investigation, Bathymetry and flood reduction benefit refinement
- c. Need to follow Shallow Lake Protocol, develop a Lake Management Plan and revise the Outlet Operation Plan accordingly
- d. Delays momentum pushing construction out at least 1-year
- e. Risk that DNR may not approve annual winter drawdown based on findings of Item b

Estimated additional cost: \$45,000 (baseline documentation, hearing, landowner approvals, and operating plan revision)

Option 4 – Conditioned Drawdown

This option preserves the ability for drawdown in the future by revising the operating plan with drawdown as a management option conditioned upon fulfilling the requirements of MN Statute 103G.408.

Advantages

- a. Limits delay in construction and affords the flood reduction benefits associated with a managed outlet sooner
- b. Keeps drawdown on the table from the perspective of all parties
- c. Preserves the ability to maximize flood reduction benefits in the future

- d. Defers the need to meet MN Statute 103G.408 requirements until such time that the District is more confident of the drawdown-associated flood reduction benefit and the potential natural resource impacts
- e. Defers expense of development of a Lake Management Plan need is demonstrated

Disadvantages

- a. Does not afford the ability to conduct drawdown immediately; it's just a potential management option
- b. Still a risk that DNR will not approve annual winter drawdown

Estimated additional cost: \$25,000 (baseline documentation and operating plan revision)

Recommendation

It is recommended that the Board direct the District Administrator to proceed with Option 4.

Attachments:

- 1. DNR Permit
- 2. MN Statute 103G.408
- 3. MN Rule 6115.0271

Public Waters Work Permit

Expiration Date: 02/08/2024

Pursuant to Minnesota Statutes, Chapter 103G, and on the basis of statements and information contained in the permit application, letters, maps, and plans submitted by the applicant and other supporting data, all of which are made part hereof by reference, **PERMISSION IS HEREBY GRANTED** to the applicant to perform actions as authorized below.

Project Name: Sutton Lake	County: Scott	Watershed: Lower Minnesota River	Resource: Lake: Sutton (70009400)
Purpose of Permit: Water Level Control Structure		Authorized Action: Grade and fill existing berm and natural runout. Construct a new controlled outlet at the existing runout of Sutton Lake.	
Permittee: PRIOR LAKE - SPRING LAKE WATERSHED DISTRICT CONTACT: LYNCH, DIANE, (952) 378-2164 4646 DAKOTA STREET SE PRIOR LAKE, MN 55372 (952) 447-4166		Authorized Agent: EMMONS AND OLIVIER RESOURCES CONTACT: PALLARDY, JOE, (651) 203-6035 7030 6TH STREET OAKDALE, MN 55128 (651) 770-8448	
Property Description (land owned or leased or where work will be conducted): UTM zone 15N, 458699m east, 4943576m north, Meandered water body of Section 31, T114N, R22W			
Issued Date: 02/08/2019	Effective Date: 02/08/2019	Expiration Date: 02/08/2024	
Authorized Issuer: Jennie Skancke	Title: Area Hydrologist	Email Address: jennie.skancke@state.mn.us	Phone Number: (651) 259-5790

This permit is granted **subject to** the following **CONDITIONS**:

APPLICABLE FEDERAL, STATE, OR LOCAL REGULATIONS: The permittee is not released from any rules, regulations, requirements, or standards of any applicable federal, state, or local agencies; including, but not limited to, the U.S. Army Corps of Engineers, Board of Water and Soil Resources, MN Pollution Control Agency, watershed districts, water management organizations, county, city and township zoning.

NOT ASSIGNABLE: This permit is not assignable by the permittee except with the written consent of the Commissioner of Natural Resources.

NO CHANGES: The permittee shall make no changes, without written permission or amendment previously obtained from the Commissioner of Natural Resources, in the dimensions, capacity or location of any items of work authorized hereunder.

SITE ACCESS: The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the Commissioner of Natural Resources for inspection of the work authorized hereunder.

TERMINATION: This permit may be terminated by the Commissioner of Natural Resources at any time deemed necessary for the conservation of water resources of the state, or in the interest of public health and welfare, or for violation of any of the conditions or applicable laws, unless otherwise provided in the permit.

COMPLETION DATE: Construction work authorized under this permit shall be completed on or before the date specified above. The permittee may request an extension of the time to complete the project by submitting a written request,

CONDITIONS *(Continued from previous page)*

stating the reason thereof, to the Commissioner of Natural Resources.

WRITTEN CONSENT: In all cases where the permittee by performing the work authorized by this permit shall involve the taking, using, or damaging of any property rights or interests of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, the permittee, before proceeding, shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all property, rights, and interests needed for the work.

PERMISSIVE ONLY / NO LIABILITY: This permit is permissive only. No liability shall be imposed by the State of Minnesota or any of its officers, agents or employees, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors. This permit shall not be construed as estopping or limiting any legal claims or right of action of any person other than the state against the permittee, its agents, employees, or contractors, for any damage or injury resulting from any such act or omission, or as estopping or limiting any legal claim or right of action of the state against the permittee, its agents, employees, or contractors for violation of or failure to comply with the permit or applicable conditions.

EXTENSION OF PUBLIC WATERS: Any extension of the surface of public waters from work authorized by this permit shall become public waters and left open and unobstructed for use by the public.

WETLAND CONSERVATION ACT: Where the work authorized by this permit involves the draining or filling of wetlands not subject to DNR regulations, the permittee shall not initiate any work under this permit until the permittee has obtained official approval from the responsible local government unit as required by the Minnesota Wetland Conservation Act.

CONTRACTOR RESPONSIBILITY: The permittee shall ensure the contractor has received and thoroughly understands all conditions of this permit. Contractors must obtain a signed statement from the property owner stating that permits required for work have been obtained or that a permit is not required, and mail a copy of the statement to the regional DNR Enforcement office where the proposed work is located. The Landowner Statement and Contractor Responsibility Form can be found at: <http://www.bwsr.state.mn.us/wetlands/wca/index.html#general>.

INVASIVE SPECIES - EQUIPMENT DECONTAMINATION: All equipment intended for use at a project site must be free of prohibited invasive species and aquatic plants prior to being transported into or within the state and placed into state waters. All equipment used in designated infested waters, shall be inspected by the Permittee or their authorized agent and adequately decontaminated prior to being transported from the worksite. The DNR is available to train inspectors and/or assist in these inspections. For more information refer to the "Best Practices for Preventing the Spread of Aquatic Invasive Species" at http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best_practices_for_prevention_ais.pdf. Contact your regional Invasive Species Specialist for assistance at www.mndnr.gov/invasives/contacts.html. A list of designated infested waters is available at www.mndnr.gov/invasives/ais/infested.html. A list of prohibited invasive species is available at www.mndnr.gov/invasives/laws.html#prohibited.

FISHERY PROTECTION - EXCLUSION DATES: No activity affecting the bed of the protected water may be conducted between April 1 and June 30, to minimize impacts on fish spawning and migration. If work during this time is essential, it shall be done only upon written approval of the Area Fisheries Manager. See contact list at: http://files.dnr.state.mn.us/fisheries/management/dnr_fisheries_managers.pdf. Should work begin elsewhere in the project area within these dates, all exposed soils that are within 200 feet of Public Waters and drain to those waters must complete erosion control measures within 24 hours of its disturbance to prevent sediment from entering Public Waters.

MAINTENANCE: Maintenance of this project to originally authorized conditions may be authorized by amendment to this permit.

PHOTOS AND AS-BUILTS: Upon completion of the authorized work, the permittee shall submit representative photographs and any as-built surveys, as appropriate, of the project area to the DNR Division of Ecological & Water Resources.

FINAL CONSTRUCTION PLANS AND OPERATING PLAN: The final construction plan set and operating plan must be approved by the DNR Area Hydrologist and Wildlife Manager prior to construction. This project may not proceed without an approved operating plan.

NATURAL EROSION CONTROL: Only natural erosion control material may be used in all riparian areas.

cc: Jeanne Daniels, EWR District Manager
James Fogarty, Conservation Officers, Prior Lake
Ben Carlson, BWSR Wetland Specialists, Scott
Leslie Parris, DNR Regional Environmental Assessment Ecologist, Region 3
Becky Horton, DNR Regional Environmental Assessment Ecologist, Region 3
Diana Regenscheid, DNR Wildlife, Shakopee
Daryl Ellison, DNR Fisheries, West Metro Area
Marty Schmitz, County, Scott
Corps of Engineers, Corps of Engineers, Scott
Troy Kuphal, SWCD, Scott SWCD

103G.408 TEMPORARY DRAWDOWN OF PUBLIC WATERS.

(a) The commissioner, upon consideration of recommendations and objections as provided in clause (2), item (iii), and paragraph (c), may issue a public-waters-work permit for the temporary drawdown of a public water when:

(1) the public water is a shallow lake to be managed for fish, wildlife, or ecological purposes by the commissioner and the commissioner has conducted a public hearing presenting a comprehensive management plan outlining how and when temporary drawdowns under this section will be conducted; or

(2) the permit applicant is a public entity and:

(i) the commissioner deems the project to be beneficial and makes findings of fact that the drawdown is in the public interest;

(ii) the permit applicant has obtained permission from at least 75 percent of the riparian landowners; and

(iii) the permit applicant has conducted a public hearing according to paragraph (d).

(b) In addition to the requirements in section 103G.301, subdivision 6, the permit applicant shall serve a copy of the application on each county, municipality, and watershed management organization, if one exists, within which any portion of the public water is located and on the lake improvement district, if one exists.

(c) A county, municipality, watershed district, watershed management organization, or lake improvement district required to be served under paragraph (b) or section 103G.301, subdivision 6, may file a written recommendation for the issuance of a permit or an objection to the issuance of a permit with the commissioner within 30 days after receiving a copy of the application.

(d) The hearing notice for a public hearing under paragraph (a), clause (2), item (iii), must:

(1) include the date, place, and time for the hearing;

(2) include the waters affected and a description of the proposed project;

(3) be mailed to the director, the county auditor, the clerk or mayor of a municipality, the lake improvement district if one exists, the watershed district or water management organization, the soil and water conservation district, and all riparian owners of record affected by the application; and

(4) be published in a newspaper of general circulation in the affected area.

(e) Periodic temporary drawdowns conducted under paragraph (a) shall not be considered takings from riparian landowners.

(f) This section does not apply to public waters that have been designated for wildlife management under section 97A.101.

History: 2009 c 48 s 1; 2012 c 277 art 1 s 80

6115.0271 SPECIFIC STANDARDS; DRAINAGE.

In addition to compliance with the general standards in part 6115.0270, subparts 2 to 4, specific requirements for drainage or drawdown activities shall be met as follows:

A. the drainage or diversion of public waters for mining iron ore, taconite, copper, copper-nickel, or nickel shall be approved only when all of the provisions of Minnesota Statutes, section 103G.297 and part 6115.0280 have been met;

B. the drainage or diversion of public waters for mining all other metallic and nonmetallic minerals shall be approved only when the public waters being drained are replaced by public waters that will have equal or greater public value, subject to provisions of part 6115.0280; and

C. all other drainage or diversion of public waters allowed in part 6115.0270, subparts 2 to 4, shall be approved if all of the following specific criteria are met:

(1) for public waterbasins and public water wetlands, permits shall be issued only to governmental agencies having the authority to undertake such projects. In addition, a public need for the partial drainage or temporary drawdown shall be established by specifying the public interests to be enhanced;

(2) written consent for the partial drainage or temporary drawdown of public waterbasins and public water wetlands is obtained from all riparian owners;

(3) partial drainage or temporary drawdown of public waterbasins and public water wetlands shall be approved only when the applicant has submitted data to confirm:

(a) that the partial drainage will improve navigation or recreational uses;

(b) that the partial drainage will improve or restore fish and wildlife habitat; or

(c) that agricultural lands have been flooded due to artificial obstruction of downstream drainage or increased upstream discharge;

(4) any proposed temporary drawdown shall not exceed two years in duration under normal climatic conditions;

(5) there are no feasible and practical means to attain the intended purpose without drainage; and

(6) the proposal adequately protects public safety and promotes the public welfare.

Statutory Authority: *MS s 103G.315; 105.415*

History: *8 SR 533; 25 SR 143; 27 SR 529*

Published Electronically: *June 11, 2008*

PLSLWD
CLASS:
PROJECT: Sutton Lake Bathymetry & NRI

EOR
JOB: 00758-XXXX
PHASE: N/A TASK: N/A

START DATE: 4/29/2019

END DATE: 11/01/2019

TOTAL PROJECT BUDGET: \$19,843

OVERVIEW OF PROJECT SCOPE: Engineering services including bathymetric surveying of Sutton Lake and the extent and density of existing cattail vegetation, wetland seed bank field investigation and a Natural Resources Inventory (NRI) to document plant and animal communities within the project area.

PROJECT TEAM

PLSLWD
PROJECT LEAD: Diane Lynch, District Administrator
OTHER STAFF: Jaime Rockney, Water Resources Specialist
EOR
PROJECT LEAD: Carl Almer
OTHER STAFF: Kyle Crawford, Mike Talbot, Dan Mossing, Jason Naber, Mike Majeski, Jimmy Marty

SUMMARY OF TASKS

TASK 1: Bathymetric and Cattail Surveying
SUMMARY: A lake survey will be completed to catalog both bathymetry and the extent and density of cattails within Sutton Lake. The data will also be used for refinement of the hydrologic modeling and Operating Plan.
DELIVERABLES: 1) Bathymetric survey map (pdf) 2) Revised hydrologic model results 3) Revised Operating Plan (as necessary)
TIMELINE: April 2019 – May 2019
ESTIMATED COSTS: \$5,412
TASK 2: Natural Resources Inventory (NRI)
SUMMARY: An inventory of the plant and animal community will be conducted using existing desktop data and data obtained via field surveys. The desktop review will include assessment of DNR Natural Heritage Information System (NHIS)

	data for records of rare species. The field component will include a spring frog survey, a summer vegetation survey of the emergent fringe, and spring, summer, and fall avian surveys. Incidental observations of additional wildlife such as reptiles, mammals, and fish will be noted during each survey. The vegetation survey will not include a survey of the open water macrophyte community. The data will be used to refine the Operating Plan recommendations for drawdown management.
DELIVERABLES:	1) Technical Memo summarizing results 2) Revised Operating Plan (as necessary)
TIMELINE:	May 2019 – October 2019
ESTIMATED COSTS:	\$9,625
TASK 3: Wetland Seed Bank Investigation	
SUMMARY:	The existing seed bank will be assessed using sediment samples collected along 2 transects located perpendicular to the lake shore. Plant species composition of surface sediments from the cores will be investigated via two complementary methods: 1) Seeds and other plant material will be extracted from sediment and identified to finest taxonomic resolution feasible. This data will provide a list of taxa present in the seed bank. 2) Sediment samples will be planted and maintained under moist to saturated conditions. Seedlings will be identified upon emergence over a two month period. This data will provide a list of species with viable seed present, though it will be limited to species that emerge under moist to saturated conditions (e.g. not submerged aquatic plants). This investigation will be used to refine the Operating Plan recommendations for drawdown management.
DELIVERABLES:	1) Technical Memo summarizing results 2) Revised Operating Plan (as necessary)
TIMELINE:	April 2019 – July 2019
ESTIMATED COSTS:	\$4,806

ESTIMATED COST SUMMARY

DESCRIPTION	HOURS/ QUANTITY	ESTIMATED COST
TASK 1: Bathymetric and Cattail Surveying	42	\$ 5,412
TASK 2: Natural Resources Inventory	75	\$ 9,625
TASK 3: Wetland Seed Bank Investigation	48	\$ 4,806
EXPENSES: Mileage Equipment rental Other	***Included in the above estimated costs***	
TOTAL		\$19,843

NOTE: Actual costs per task may differ from the estimated costs listed above, but the TOTAL amount must not exceed \$19,843.

ASSUMPTIONS: The estimated cost summary for the execution of the tasks in this Scope of Services is based upon the following assumptions:

- 1) EOR staff will be allowed access to Sutton Lake via the Sandey and Larson properties.

SIGNATURES:

The services described in this Scope of Services are being provided in accordance with the Agreement for Engineer Consulting Services between PLSLWD and EOR dated January 1, 2018. Any changes to the project team, tasks, deliverables, timeline or total cost will require a signed amendment/update to this Scope of Services.

Prior Lake-Spring Lake Watershed District

Emmons & Olivier Resources, Inc.

Signature: _____

Name: Diane Lynch

Title: District Administrator

Date: _____

Signature: _____

Name: Carl K. Almer

Title: Water Resources Lead

Date: _____

Background Information 2019 MAWD Resolution

Proposing District: Prior Lake-Spring Lake Watershed District

Contact Name: Diane Lynch

Phone Number: 952-440-0067

Email Address: dlynch@plslwd.org

Resolution Title: Requiring wetland replacements to occur in the basin where they were drained or filled

Background that led to the submission of this resolution:

Minnesota Statute 103G.2242 Wetland Subdivision 2. Evaluation states that:

- a. Questions concerning the public value, location, size or type of a wetland shall be submitted to and determined by a Technical Evaluation Panel (TEP) after on-site inspection
 - b. The TEP is composed of technical professional employees of: the Minnesota Board of Soil and Water Resources, local soil and water conservation district, and Minnesota Department of Natural Resources for projects affecting public waters or wetland adjacent to public waters
1. Technical professional employees of watershed districts may be invited to attend and comment on the questions, but their comments are not considered with the same value as official TEP representatives.
 2. Watershed districts have rules that affect draining, filling, excavating or otherwise altering wetlands.
 3. Wetlands play a vital role in the health of watersheds.
 4. Technical professional employees of watershed districts offer an important perspective regarding protecting wetlands within their watersheds.

Ideas for how this issue could be solved:

Initiate legislation to amend the statute to require technical representatives of watershed districts to be on the TEP.

Anticipated support or opposition from other governmental units?

We would expect watershed districts to support it.

This issue is of importance to (Check one):

The entire state ☒ ☐

Only our Region ☐

Only our District ☐

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Watershed District Membership on Wetland Technical Evaluation Panels Resolution 19-334

WHEREAS, the Prior Lake-Spring Lake Watershed District (PLSLWD) is a watershed management organization and political subdivision of the State of Minnesota established under and operating with powers and purposes set forth at Minnesota Statutes Chapters 103B and 103D; and

WHEREAS, the District has rules that affect drilling, filling, excavating or otherwise altering wetlands; and

WHEREAS, by state statute, questions concerning the public value, location, size or type of wetland are required to be submitted to and determined by a Technical Evaluation Panel (TEP); and

WHEREAS, technical professional employees of watershed districts are not official members of a TEP; and

WHEREAS, wetlands play a vital role in the health of watersheds

THEREFORE BE IT RESOLVED that the PLSLWD Board of Managers supports 2020 state legislation to require technical representatives of watershed districts to be official members of TEPs.

The Resolution was adopted/rejected by the following vote:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>
MYSER			
CORRIGAN			
HENNES			
LONEY			
HOWLEY			

Upon vote, the chair declared the resolution adopted.

Bruce Loney, Secretary

Dated: _____, 2019

PRIOR LAKE – SPRING LAKE

W A T E R S H E D D I S T R I C T

4.5 Interns' Summer Projects Wrap Up

Talori Dunsworth and Vincent Grube, District Summer Interns, will present on their time with the District.

PRIOR LAKE - SPRING LAKE

WATERSHED DISTRICT

MEMORANDUM

TO: PLSLWD BOARD OF MANAGERS
FROM: DIANE LYNCH, DISTRICT ADMINISTRATOR
SUBJECT: MANAGER PER DIEM INCREASE
DATE: AUGUST 2, 2019

BACKGROUND

The Minnesota Association of Watershed Districts (MAWD) membership passed a resolution at its Annual Meeting to seek legislation to increase Board Manager compensation from \$75 per diem to \$125 per diem. The rationale was “that if districts want to recruit and retain competent, thoughtful, forward-looking individuals, compensation is an important tool-and the flexibility to customize pay according to regional norms could also be very important to some districts.” Managers’ compensation was last adjusted in 2005.

The MAWD resolution was “that MAWD supports legislation to lift and/or increase the maximum \$75 a day manager compensation rate set in MN Statute 103D.315 Subd. 8. If the compensation rate is adjusted to a new dollar amount, MAWD supports the inclusion of an annual cost of living adjustment with the local board having authority to set their own rates for a lesser amount if deemed appropriate.”

The law was changed in the 2018-19 legislative session. It is found in Session Law Chapter 4, Article 3, Section 77 and reads:

The compensation of managers for meetings and for performance of other necessary duties may not exceed \$125 a day. Managers are entitled to reimbursement for traveling and other necessary expenses incurred in the performance of official duties.

Discussion

In 2018, the Board confirmed its policy to allow the maximum per diem for its managers at \$75/day for attending a Board meeting. If the Manager attends a meeting as an official Liaison for the District, the per diem will be \$40, up to a maximum of \$75/day. If Manager attends a meeting or training outside of board meetings or as an official liaison, the meeting/training will be considered for approval at a Board meeting.

Action

There are several actions the Board could take:

1. Not change the existing Per Diem policy (no action necessary)
2. Revise the existing Per Diem policy to increase the per diem to \$125/day
3. Revise the existing Per Diem policy to increase the per diem to another amount less than \$125/day
4. If the per diem is increased to \$125/day, either keep the official Liaison meetings at \$40 or increase the amount, allowing expenditures up to \$125/day
5. If the per diem is increased to another amount, either keep the official Liaison meetings at \$40 or increase the amount, allowing expenditures up to a certain amount, less than \$125/day

If the Board changes its per diem policy, it should set an effective date.

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

WORKSHOP MEETING MINUTES

Tuesday, July 9, 2019

Prior Lake City Hall

Members Present: Curt Hennes, Bruce Loney, Charlie Howley, Fred Corrigan & Mike Myser

Staff Present: Diane Lynch, District Administrator and Jaime Rockney, District Water Resources Specialist

Others Present: Glenn Kelly, Spring Lake Township Board; Annette Thomson, Prior Lake; Jim Fitzsimmons, SWCD; Dave Beer, Scott County; and Marianne Breitbach, CAC

The meeting was called to order by President Mike Myser at 4:30 p.m.

Microsoft Technology—Chesapeake Bay Conservancy

Manager Corrigan was interested in exploring land survey software donated by Microsoft and used by the Conservancy. Carl and Jaime indicated that the District uses the state's Minnesota Land Cover Classification System (MLCCS) and that gives the District the detail it needs.

Ferric Chloride Property

Jaime provided detail on the equipment near the FeCl shed, vegetation and driveway gravel. She indicated that staff would weed-whip the area.

Water Organization Efficiency

Managers Myser and Corrigan reported that at a recent work group strategic planning session with SCALE, Scott County broached the subject of water planning agencies in the County. They had a subsequent meeting with the County to discuss possible next steps. The Board supported further conversations on this subject.

2020 Budget Kick-off

Diane reviewed a process to move ahead with reviewing 2020 budget options. The Board will begin discussing details at its August meeting.

The meeting adjourned at 5:50 p.m.

PRIOR LAKE – SPRING LAKE WATERSHED DISTRICT

REGULAR MEETING MINUTES

Tuesday, July 9, 2019

Prior Lake City Hall

6:00 PM

Members Present: Fred Corrigan, Curt Hennes, Charlie Howley, Mike Myser & Bruce Loney

Staff & Consultants Present: Diane Lynch, District Administrator
Maggie Karschnia, Water Resources Project Manager
Jaime Rockney, Water Resource Specialist
Jeff Anderson, Water Resource Technician
Carl Almer, EOR, District Engineer

Others Present: Tony Havranek, WSB
Mary Newman, WSB

- **CALL TO ORDER/PLEDGE OF ALLEGIANCE:** Meeting called to order by President Myser at 6:02 PM.
- **2.0 PUBLIC COMMENT:** None
- **PUBLIC HEARING – Stormwater Pollution Prevention Plan (SWPPP) Annual Public Hearing**
Manager Hennes moved to open the Public Hearing. Second by Manager Howley. All ayes.
Motion passed 5-0.

Diane Lynch gave a brief background on SWPPP and Jaime Rockney provided an overview of the MS4 Annual Report. No public comment.

Manager Hennes moved to close the Public Hearing. Second by Manager Howley. All ayes.
Motion passed 5-0.

- **3.0 APPROVAL OF AGENDA:**
Manager Hennes moved to approve the agenda. Second by Manager Howley. All ayes. Motion passed 5-0.

OTHER OLD/NEW BUSINESS

- **4.1 PROGRAMS & PROJECT UPDATES**
Staff gave updates on current and ongoing District projects and activities. Focusing on Water Quality, Upper Subwatershed Storage, AIS and Spring Flood Damage (Kici Yapi)

- **4.2 CARP MANAGEMENT TIMELINE**

Discussion with Tony Havranek & Mary Newman (WSB) and Staff on carp management. Discussion only, no vote taken.

- **4.3 SUTTON LAKE STORAGE PROJECT OPTIONS**

Manager Hennes moved to direct the District Administrator, Diane Lynch, to proceed with Option 4, Conditioned Drawdown. Second by Manager Howley. All ayes. Motion passed 5-0.

- **4.4 MAWD SUMMER TOUR REPORT**

District Administrator Diane Lynch, Water Resources Project Manager Maggie Karschnia & Manager Fred Corrigan provided an overview of the conference they attended located in Moorhead area June 26-28th.

- **5.0 APPROVAL OF CONSENT AGENDA**

Manager Hennes moved to approve the consent agenda. Second by Manager Corrigan. All ayes. Motion passed 5-0.

- **6.0 TREASURER REPORT/FINANCIAL REPORT**

Manager Howley gave updates on current financial reporting.

- **7.0 MANAGER PRESENTATIONS ON WATERSHED RELATED ITEMS**

Managers gave updates on liaison meetings and other related items. Discussion only, no vote taken.

- **8.0 UPCOMING MEETINGS/EVENTS**

- CAC Meeting, Thursday, July 25th from 6:30-8:00 PM, Prior Lake City Hall
- Farmer Led Council, August 7th, St. Patrick's, 12:00 noon.

ADJOURNMENT

Manager Hennes moved to adjourn meeting. Second by Manager Howley. All ayes. Motion passed 5-0. Meeting adjourned at 8:08 PM.

Bruce Loney, Secretary

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

Citizen Advisory Committee

Thursday July 25, 2019

6:30-8:00 p.m.

Prior Lake City Hall

4646 Dakota Street SE Prior Lake, MN 55372

Attendees:

- **CAC Members present:** Steve P., Elizabeth S., Woody S., Adam F. Marianne B., Christian M., Jerry M., Larry R.
- **Others present:** Board Member: Curt H., Board Secretary: Bruce L. District Staff Director, Diane L.

- I. Call meeting to order 6:30 pm – President Steve Pany
- II. Introduction of newest CAC member, Christian M.
- III. Agenda-additions-Approval of Agenda & April meeting minutes.
 - a. Approved minutes.
 - b. Approved agenda.
- IV. Marianne's summary of the MAWD Summer Tour
 - a. Review of tours taken
 - b. Discussion around some of the projects' applications
 - c. Steve mentioned – 60 minutes ran a 15 minute show on the flooding in the Netherlands and how they handled it.
 - d. Interesting the budgeting they used to complete the projects. Common theme, it takes time and money to run the projects.
 - e. An idea brought out was to maybe restore wetlands in the watershed.
- V. Watershed District Projects update / Discussion topics
 - a. Lakefront Days booth volunteers (questions, locations of storm drains for adoption)
 - i. Volunteers needed
 - ii. Only one day this year
 - iii. Watershed has enough questions, but share more if you like!
 - b. Accelerated carp control strategies. Cost share with PLA / SLA.
 - i. Reviewed the Watershed's management strategies.
 - ii. CAC in favor of pushing these items forward.
 - iii. Push traps would be most effective
 - iv. Move towards a removal policy and away from a 'study' policy.
 - v. This topic will come up at the August board meeting to hear the timeline and budget for remaining year and 2020.
 - vi. SLA – Christian will request and let Diane know cost-share possibilities
 - vii. PLA – Woody will request and let Diane know cost-share possibilities
 - c. Fish inventory.
 - i. DNR survey is more around the game fish population
 - ii. High numbers of carp remain on upper Prior Lake and are increasing a bit on Spring Lake.
 - iii. Catch and release game fish will help keep the carp population down.
 - iv. South MPLS. Lakes have seen fish kills this year. Similar to what Spring Lake and Upper Prior Lake experience last year.

PRIOR LAKE - SPRING LAKE

WATERSHED DISTRICT

- v. It is thought the fish kill that happened last year contributed to the brown water in Spring & Upper Prior Lakes
- vi. There are possibilities to purchase stock fish – May be something that SLA would consider.
- vii. Bull Heads are also considered a rough fish and should be removed.
- d. Sutton Lake Project update. Water levels. Low flow gate, Solutions from SCALE?
 - i. Sutton Lake will hold water back – permitting still in progress
 - ii. Other solutions - Maybe farm land to hold back temporarily; discussed a few options that allow farmers within the tiling of their land to hold the water for a time and then release in a schedule or phased approach.
 - iii. CAC would like to see the weir open in the fall to lower the lake a bit before going into the winter-spring season.
 - iv. Culvert pipe at Hwy 13
 - 1. Overcoming some pipe installation concerns a new plan to install will begin - Watershed is seeking out what the new plan will be, but understand that the crew is doing what was permitted.
 - 2. Ferric chloride setup is protected and remains intact.
 - 3. Water flow containing silt should be managed. Prior Lake City is stating that all is being upheld. Watershed also has staff checking on progress.
 - 4. The 5 foot pipe is being replaced with 6 foot one, and may handle more flow. Will the additional flow be handled through the system? Carl and Pete assured watershed that this will be ok and project is following permit.
- v. Water Levels
 - 1. Five years since the 2014 flood, project to help future floods is not in place, water levels on Prior Lake this year is not dropping below 902.5
 - a. Would it be possible to ask DNR for control to drop the water during times of the year(s) until we have a working storage plan in place?
 - b. Request to invite person who reviews all of our permits at the DNR and have her talk to us about the process and guidelines. Diane will check her availability.
 - c. Concerns around the sediment from erosion – seems to be happening on Prior Lake by the wake sent from larger boats that now utilize the lake.
- e. WD 50th year anniversary work group.
 - i. Reviewed list of activities and potential costs
 - ii. Pelican Lake Watershed brochure will be sent out via email.
 - iii. Gala event was voted down by CAC
 - iv. CAC to review and email Diane & Kathryn their top 3 events
- f. More citizen outreach? Public involvement. 1-5 (5best) rating system for citizen lakeshore.
 - i. How to reach the adult population and have them more engaged in clean water for our lakes?
 - ii. Thought – setup a rating system for shoreline owners to be more lake friendly – to help educate shoreline owners who ask for help on being more shoreline friendly offer to go out and rate their existing shoreline and provide insight in how to improve.
- g. CAC has advised? New process to account for implementation.
 - i. What is a good process to track our action items of suggestions to the board with results of completion?
 - ii. A historical, on going record of CAC advisement to Watershed

PRIOR LAKE - SPRING LAKE

WATERSHED DISTRICT

1. Past notes may have this information – but would need to be scoured to capture them.
 - h. CAC goals for 2020.
 - i. Need to come up with some goals.
 - i. 2020 budget possibilities. Eligible costs.
 - i. Budget needs to be approved by September 15th
 - ii. Past CAC budget \$350 per year
 - iii. Water Quality Award was part of the budget
 - iv. Liz provided training opportunities previously
 - v. 50th anniversary events need to be in the budget
 - vi. Diane will send out a email around this topic and our action needed.
 - j. Proposed project: Shoreline stabilization/path to beach. Boat landing to Sand Point beach.
 - i. Rugged terrain, many boats, approx. 100 feet.
 - ii. Possible project to restore/stabilize this area. Will need to be planned and scheduled.
 - iii. Who owns this parcel of land. DNR? City? Diane will ask Pete who may own this.
 - k. Spring Lake housing proposal / boat slips.
 - i. Developer is proposing new homes with lake access
 - ii. Up to 100 boat slips; to 100 homes
 - iii. Need a more comprehensive plan for all lakes and reduce or mitigate association docks.
 - iv. There is criteria that needs to be met – more is forthcoming.
 - v. If the DNR guest can speak at one of our meetings, we can pose the question around this topic and get their perspective.
 - l. Next CAC meeting: September 26. (will not meet in August)
- VI. Comments, suggestions, questions.
- VII. Adjourned 8:09pm

PLSLWD: Our mission is to manage and preserve the water resources of the Prior Lake-Spring Lake Watershed District to the best of our ability using input from our communities, sound engineering practices, and our ability to efficiently fund beneficial projects which transcend political jurisdictions.

CAC: The Prior Lake-Spring Lake Watershed District Citizen Advisory Committee (CAC) consists of residents who provide input and recommendations to the Board on projects, reports, prioritization and act as the primary interface for the Board to address the current issues of concern of the local citizens

Projects: ferric chloride treatment facility, alum treatments, carp seining, carp management program, carp mapping, carp contests, carp barriers, easement enforcement, permits, 12/17 wetland, Lower Prior Lake protection program, outlet channel, outlet channel repair, invasive aquatic plant control, NW Spring Lake shore project, lake and stream water monitoring, flood reduction plan, Farm Led-Council, partnerships with other agencies, workshops, project cost share, Water Quality Improvement Award, Fish Point Park, Raymond Park, Indian Ridge Park, Sand Point Beach Project, Watzl's Beach shoreline restoration.

8/13/2019
Prior Lake Spring Lake Watershed District
Claims list for Invoice Payments due for the prior month

Managers will consider approving this claims list - Staff payroll and Manager per diems have already been paid via ADP.

After the managers vote, two Managers will sign checks within three days of the meeting for approve claims.

Then, staff will US mail checks (written on the Klein Bank) to the claims list parties.

Staff will request that all vendors provide information on their invoices to fit into the categories below

UPDATED 8/8/2019

Vendor	Invoice	Description	Amount
1. Watershed District Projects (excluding staff payroll)			
Applied Ecological Services, Inc.	53227	Site Vegetation Maintenance	1,114.52
EOR	00758-0019	Sutton Lake Outlet Modification	1,148.00
EOR	00758-0019	PIPP Redwing Ave Ditch Improvement	307.75
EOR	00758-0019	PIPP Fairlawn Shores Drainage	338.00
EOR	00758-0018	General Engineering	1,309.75
EOR	00758-0015	Permitting	169.00
EOR	00758-0018	District Plan Update	1,315.24
EOR	00758-0019	Rule Revisions	2,796.50
Frontier Precision	220694	GIS Mapping	180.00
Landice Wilson		Lake Pump Cost Share	88.50
RMB	459351	Water Sample Analysis	40.00
RMB	459353	Water Sample Analysis	280.00
RMB	453037	Water Sample Analysis	510.00
RMB	453531	Water Sample Analysis	280.00
RMB	439334	Water Sample Analysis	270.00
RMB	444378	Water Sample Analysis	680.00
RMB	446542	Water Sample Analysis	343.00
RMB	450087	Water Sample Analysis	343.00
RMB	453033	Water Sample Analysis	416.00
RMB	459144	Water Sample Analysis	680.00
RMB	457774	Water Sample Analysis	353.00
RMB	457784	Water Sample Analysis	595.00
RMB	450055	Water Sample Analysis	765.00
Ryan Tomsich		Lake Pump Cost Share	150.00
Tech Sales	323540	Monitoring Equipment	14,553.00
Theresa Feldman		Lake Pump Cost Share	150.00
TNC Fabricating, LLC	1802	Carp Barrier	472.99
WSB	003032-010-45	Carp Project	7,624.27
Xcel Energy		July	23.28
Subtotal			37,295.80
2. Outlet Channel - JPA/MOA (excluding staff payroll)			
Applied Ecological Services, Inc.	53328	Channel Vegetation Maintenance	2,880.00
Barr Engineering	23701065.00 8	Channel Stabilization	26,523.21
EOR	00758-0038	PLOC Engineering Assistance	3,239.58
EOR	00758-0129	PLOC Vegetation Maintenance	1,348.52
EOR	00758-0122	2019 PLOC Veg Stability Inspection	1,081.28
HG & K		July Accounting	250.00
Subtotal			35,322.59
3. Payroll, Office and Overhead			
ADP Manager Per Diems		Already Paid	1,525.82
ADP Staff Payroll		Already Paid	24,354.33
ADP Taxes & Benefits		Already Paid	13,973.26
Connexus Credit Union		Health Savings Account	115.38
H SA Bank		Health Savings Account	115.38
HG & K		July Accounting	1,116.25
Metro Sales	1391512	Copy Machine Contract	110.60
NCPERS		Life Insurance	160.00
SW NewsMedia	100426	Legal Notice - SWPPP	77.41
VISA		July Charges	2,463.52
Subtotal			44,011.95
4. Debt repayment and interest			
Northland Trust Services		Principal	
Northland Trust Services		Interest	
Northland Trust Services		Agent Fee	
Subtotal			0.00

TOTAL

116,630.34

PRIOR LAKE - SPRING LAKE

WATERSHED DISTRICT

MEMORANDUM

TO: PLSLWD BOARD OF MANAGERS
FROM: MAGGIE KARSCHNIA, WATER RESOURCES PROJECT MANAGER
SUBJECT: CONSERVATION EASEMENT #A657578 - AMENDMENT
DATE: AUGUST 8, 2019

BACKGROUND

At its September 11, 2018 meeting, the Board of Managers approved an easement amendment request by landowners of two parcels of Conservation Easement #A657578 to remove approximately 5,220 square feet from the easement that lies behind their homes and is currently being mowed and/or landscaped. The removal area would then be replaced with roughly double the area being removed (approximately 10,500 square feet), located on the south end of the wetland that is currently unprotected and being mowed to the edge.

District staff have worked with the landowners to survey and mark the new boundaries, establish now mowing on the new area, and negotiate and draft the conservation easement document for recording.

REQUESTED ACTION

Title documents must be approved by the Board prior to executing the document and recording it in the County Recorder's Office. District staff is requesting that the attached conservation easement document be approved as written.

FIRST AMENDMENT TO DECLARATION AND ACCEPTANCE OF CONSERVATION EASEMENTS

This amendment ("Amendment") is made between Volodymyr Dudin, a single person, and Kit Tuu Tran and Didi Dao Tran, each the spouse of the other ([collectively] "Owner"), and the PRIOR LAKE-SPRING LAKE WATERSHED DISTRICT, a political subdivision under Minnesota law ("District").

RECITALS

The Owner owns certain land ("Property") within the District, described as follows:

Lot 4 and Lot 5, Block 1, McCANN FARM, Scott County, Minnesota.

This Property is subject to a conservation easement ("Conservation Easement") established by a "Declaration and Acceptance of Conservation Easements" dated February 25, 2004, and filed for record on May 25, 2004, as Document No. A657578 ("Declaration"), to create and preserve a buffer strip pursuant to District Rules relating to the development of land in Scott County, Minnesota. The parties now desire to amend the Declaration pursuant to Section 6 (c) thereof.

AMENDMENT

In consideration of the mutual covenants and agreements herein, the parties hereto agree as follows:

1. RECITALS. The foregoing recitals are true and correct and incorporated herein by this reference.
2. AMENDMENTS. The Declaration is amended as follows:
 - a. The legal description and location of the Conservation Easement is amended to be that portion of the Property on which is located any part of the Conservation Area as legally described and delineated on the attached Exhibit A. In the event of a

discrepancy between the legal description and delineation, the legal description will control.

b. Paragraph 2(c) of the Declaration is amended to read as follows:

Easement identification monuments will be placed and maintained on the upland edge of the Conservation Easement, at each lot line and at each point where the bearing of the Conservation Easement boundary line changes. Monument design and wording will conform to District Rules or be as otherwise approved by the District.

3. OTHER TERMS. All terms and conditions of the Declaration remain effective and in force except as explicitly amended by this Amendment.

(Signatures on following pages.)

IN WITNESS WHEREOF, the Owner has voluntarily executed this Agreement on this _____ day of _____, 2019.

OWNER:

By: _____
Volodymyr Dudin

STATE OF MINNESOTA)
) ss.
COUNTY OF SCOTT)

The foregoing instrument was acknowledged before me this _____ day of _____, 2019, by Volodymyr Dudin, a single person.

Notary Public

My Commission Expires: _____

IN WITNESS WHEREOF, the Owner has voluntarily executed this Agreement on this _____ day of _____, 2019.

OWNER:

By: _____
Kit Tuu Tran

By: _____
Didi Dao Tran

STATE OF MINNESOTA)
) ss.
COUNTY OF SCOTT)

The foregoing instrument was acknowledged before me this _____ day of _____, 2019, by Kit Tuu Tran and Didi Dao Tran, each the spouse of the other.

Notary Public

My Commission Expires: _____

ACCEPTANCE

The PRIOR LAKE-SPRING LAKE WATERSHED DISTRICT hereby accepts the foregoing Amendment this _____ day of _____, 2019.

PRIOR LAKE-SPRING LAKE WATERSHED
DISTRICT

By: _____
Diane Lynch

Title: District Administrator

STATE OF MINNESOTA)
) ss.
COUNTY OF SCOTT)

The foregoing instrument was acknowledged before me this _____ day of _____, 2019, by Diane Lynch as the Administrator of the Prior Lake-Spring Lake Watershed District, a political subdivision under Minnesota law.

Notary Public

My Commission Expires: _____

EXHIBIT A

Legal Description of Conservation Area

An easement over that part of Lots 4, 5, and 6, Block 1, McCANN FARM, Scott County, Minnesota, described as follows:

Beginning at the southwest corner of said Lot 4; thence North 01 degrees 07 minutes 44 seconds West, along the west line of said Lot 4, a distance of 40.04 feet; thence North 63 degrees 22 minutes 50 seconds East, a distance of 10.70 feet; thence North 62 degrees 00 minutes 36 seconds East, a distance of 66.83 feet; thence North 86 degrees 36 minutes 18 seconds East, a distance of 43.05 feet; thence North 73 degrees 07 minutes 48 seconds East, a distance of 52.48 feet; thence South 73 degrees 38 minutes 22 seconds East, a distance of 22.19 feet; thence South 86 degrees 33 minutes 23 seconds East, a distance of 27.12 feet; thence North 72 degrees 11 minutes 41 seconds East, a distance of 37.85 feet; thence North 57 degrees 09 minutes 38 seconds East, a distance of 25.25 feet; thence North 40 degrees 03 minutes 17 seconds East, a distance of 29.37 feet; thence North 50 degrees 17 minutes 33 seconds East, a distance of 25.23 feet; thence North 64 degrees 42 minutes 58 seconds East, a distance of 28.60 feet; thence North 72 degrees 01 minutes 15 seconds East, a distance of 16.70 feet; thence North 40 degrees 53 minutes 48 seconds East, a distance of 19.58 feet; thence North 59 degrees 35 minutes 29 seconds East, a distance of 34.96 feet; thence North 69 degrees 09 minutes 28 seconds East, a distance of 45.57 feet; thence South 61 degrees 18 minutes 56 seconds East, a distance of 15.70 feet to the East line of said Lot 6; thence South 01 degrees 07 minutes 44 seconds East, along said East line of Lot 6, a distance of 46.10 feet; thence North 61 degrees 18 minutes 56 seconds West, a distance of 20.17 feet; thence South 69 degrees 09 minutes 28 seconds West, a distance of 23.77 feet; thence South 59 degrees 35 minutes 29 seconds West, a distance of 25.03 feet; thence South 40 degrees 53 minutes 48 seconds West, a distance of 24.13 feet; thence South 72 degrees 01 minutes 15 seconds West, a distance of 25.29 feet; thence South 64 degrees 42 minutes 58 seconds West, a distance of 24.74 feet; thence South 50 degrees 36 minutes 50 seconds West, a distance of 18.26 feet; thence South 34 degrees 01 minutes 45 seconds West, a distance of 24.75 feet; thence South 57 degrees 10 minutes 20 seconds West, a distance of 9.71 feet; thence South 59 degrees 13 minutes 30 seconds West, a distance of 17.96 feet; thence South 85 degrees 43 minutes 22 seconds West, a distance of 19.04 feet; thence South 82 degrees 54 minutes 23 seconds West, a distance of 30.30 feet; thence South 87 degrees 40 minutes 05 seconds West, a distance of 19.86 feet; thence South 77 degrees 25 minutes 15 seconds West, a distance of 29.88 feet; thence North 77 degrees 33 minutes 01 seconds West, a distance of 12.55 feet; thence North 84 degrees 48 minutes 34 seconds West, a distance of 27.48 feet; thence South 81 degrees 18 minutes 52 seconds West, a distance of 22.04 feet;

thence South 66 degrees 26 minutes 33 seconds West, a distance of 30.17 feet; thence South 28 degrees 38 minutes 44 seconds West, 9.14 feet; thence South 79 degrees 34 minutes 56 seconds West, a distance of 21.45 feet; thence South 47 degrees 55 minutes 40 seconds West, a distance of 21.11 feet; thence South 10 degrees 40 minutes 07 seconds West, a distance of 18.61 feet to the South line of said Lot 4; thence South 88 degrees 52 minutes 16 seconds West, along said south line of said Lot 4, a distance of 39.89 feet to the point of beginning.

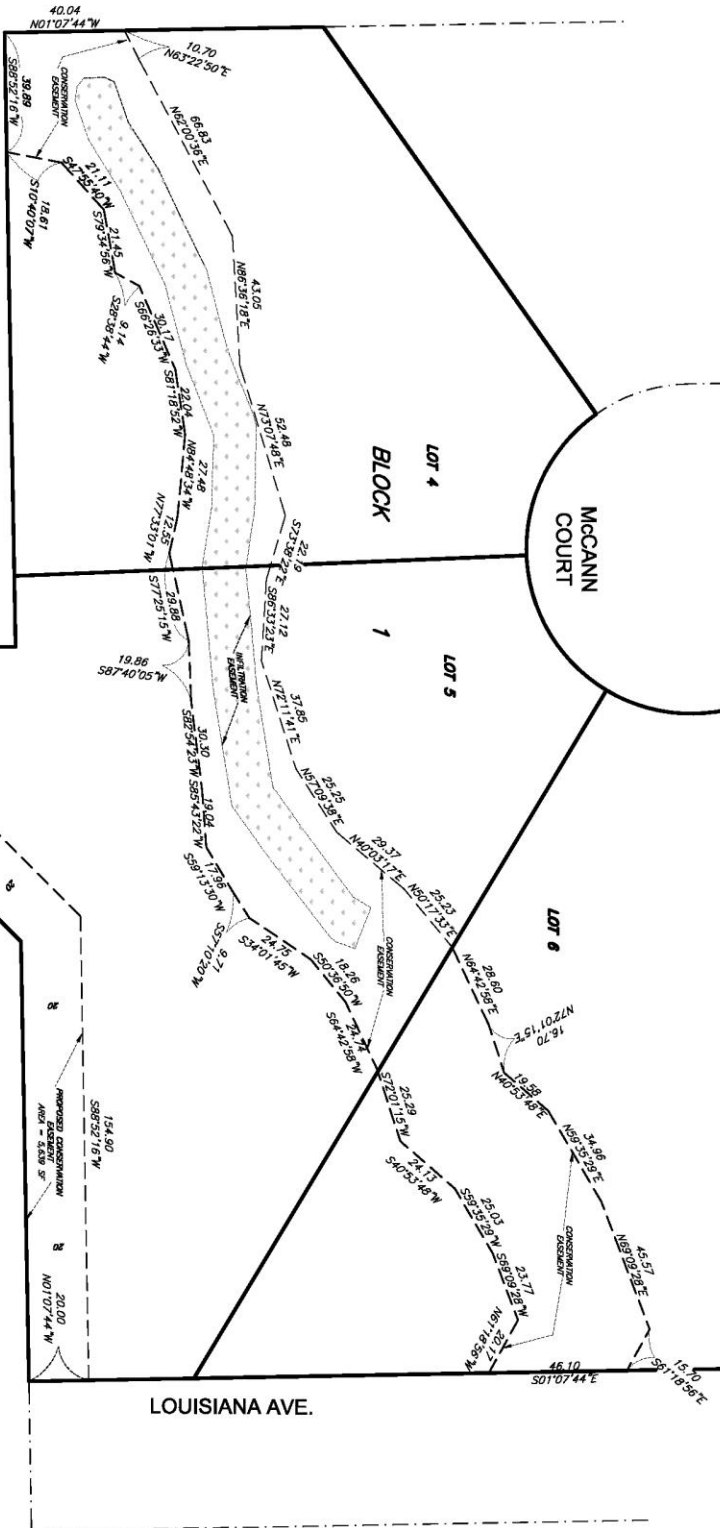
Also

An easement over and across that part of Lot 5, Block 1, McCANN FARM, Scott County, Minnesota, lying southerly and southeasterly of the following described lines:

Commencing at the southeast corner of said Lot 5; thence North 01 degrees 07 minutes 44 seconds West, along the East line of said Lot 5, a distance of 20.00 feet to the point of beginning of the lines to be described; thence South 88 degrees 52 minutes 16 seconds West, a distance of 154.90 feet; thence South 44 degrees 52 minutes 16 seconds.

EASEMENT SKETCH

FOR
PRIOR LAKE-SPRING LAKE, WATERSHED



SEE ATTACHED EASEMENT DESCRIPTIONS

Bohlen
Surveying & Associates

31432 Follage Avenue
Northfield, MN 55057
Phone: (807) 645-7768
bomasa@bohlersurveying.com

1692 Cliff Road E.
Burnsville, MN 55337
Phone: (852) 895-9212
Fax: (852) 895-9259

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I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED
LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 12-8-18

Thomas J. O'Leary
THOMAS J. O'LEARY, LAND SURVEYOR
MINNESOTA LICENSE NO. 46167

PRIOR LAKE – SPRING LAKE

WATERSHED DISTRICT

5.5 District Administrator Performance Appraisal Summary

The Board President will announce that the District Administrator's performance was reviewed on July 10 and the Administrator met or exceeded expectations.

PRIOR LAKE – SPRING LAKE

W A T E R S H E D D I S T R I C T

7.0 Manager Presentations

Managers will provide information on recent events they're attended on behalf of the District.