AGENDA OF THE REGULAR MEETING OF THE CITY COUNCIL CITY OF BIRCHWOOD VILLAGE WASHINGTON COUNTY, MINNESOTA January 11, 2022 7:00 P.M.

NOTE: Due to Open Meeting Law restrictions, the City Council may be discussing agenda items for the first time. Your patience and understanding is appreciated during this process.

CALL TO ORDER

In light of the status of the ongoing Covid-19 health pandemic the City of Birchwood Village is conducting its January meeting using interactive web-based technology. Pursuant to Minnesota Statutes, Chapter 13D. 021 Subdivision 1(1) the City of Birchwood is declaring that, "an in-person meeting or a meeting conducted under section 13D.02 is not practical or prudent because of a health pandemic..."

The meeting will be conducted using the *Zoom* meeting platform and the details of that are directly below for participating. If you plan to attend it is suggested that you familiarize yourself with the technology in advance. If you plan to participate than you must either 1) send your name, topic you plan to speak on, and the phone number you will be calling from to City Hall by noon the day before the meeting; or 2) join the meeting no later than 6:50pm to coordinate with the Moderator.

The Moderator of the meeting shall be City Administrator Andy Gonyou and all participants, except Council Members, shall have their microphones muted unless recognized by the Mayor. Public Forum shall be honored using this technology and the meeting will be broadcast via the Cable Commission like other meetings.

Topic: Birchwood Village City Council Meeting
Time: **Jan 11, 2022 07:00 PM** Central Time (US and Canada)
Join Zoom Meeting
https://us02web.zoom.us/j/87372452556?pwd=RjA1RnZMWDlDR0Z0VUxwWHo0Umtndz09

Meeting ID: 873 7245 2556
Passcode: 107363

PLEDGE OF ALLEGIANCE

APPROVE AGENDA

OPEN PUBLIC FORUM

ANNOUNCEMENTS

A. Ice Rink is now open!
B. We are social, follow us on Facebook at @BirchwoodCityHall or Twitter at @CityofBirchwood

ADMINISTRATIVE PRESENTATION

A. Sheriff Report* (pp. 5-7)
B. 2022 Schedule of Meetings and Holidays* (p. 9)
C. Planning Commission Regular Meeting Minutes from October 28, 2021* (pp. 11-13)

CITY BUSINESS – CONSENT AGENDA

A. Approve Regular Meeting Minutes from December 14, 2021* (pp. 15-22)
B. Approve Treasurer's Report* (pp. 23-34)
C. Approve Resolution 2022-01, Designating White Bear Press as the Official Newspaper for Publication* (p. 35)
D. Approve Resolution 2022-02, Naming U.S. Bank and the 4M Fund as Official Depositories of Municipal Funds* (p. 37)

CITY BUSINESS – REGULAR AGENDA

A. Planning Commission Discussion
   Time Budget: 15 Minutes
B. Second Reading Ord. 2021-12-01, Sec. 617 Public Lake Tracts* (pp. 39-42)
   a. Public Hearing
   b. Council Deliberation and Approval
   c. Approve Resolution 2022-03, Approving Summary Publication
   Time Budget: 5 Minutes
C. 2022 Fee Schedule* (pp. 43-51)
   a. Review Proposed Amendments
   b. Council Deliberation and Approval
   Time Budget: 10 Minutes
D. White Bear Township Public Works Inquiry* (p. 53)
   a. Council Deliberation
   Time Budget: 5 Minutes
E. Hall's Marsh Sediment Investigation* (pp. 55-92)
   a. Council Deliberation
   Time Budget: 10 Minutes
F. Council Workshop – February 15, 2022
   a. Schedule for Major Maintenance & Repairs* (pp. 93-94)

b. Guiding Principles of Procedure* (p. 95)

Time Budget: 10 Minutes

G. Council Member Reports:

a. Mayor Wingfield

i. Back Flow Law* (pp. 97)

Time Budget: 10 Minutes

ADJOURN

*Denotes items that have supporting documentation

MEMORANDUM

City of Birchwood Village

TO: **Birchwood Village City Council**
FROM: **Andy Gonyou, City Administrator**
SUBJECT: **Sheriff Report**
DATE: **January 6, 2022**

Dear Mayor & City Council Members: The following pages are a report of law enforcement incidents and citations for December 2021:

Citations for: Birchwood

12/1/2021 To 12/31/2021

Agcy	Date	Citation Number	Badge	Officer Name	Citation Type	Block	Street Name	Str Sfx	Cross Street Name	Cross St Sfx	City	Literal Description	Statute

Incident Summary Report - PUBLIC

From:12/1/2021 12:00:00 AM To:12/31/2021 11:59:59 PM

WASHINGTON COUNTY SHERIFFS OFFICE

BIRCHWOOD VILLAGE - 20

12/1/2021 12:15:15 AM	WC21057517	40XXX -408 BIRCHWOOD AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/2/2021 2:06:07 AM	WC21057722	1-99 BIRCHWOOD LN, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/3/2021 1:33:19 AM	WC21057926	19XXX -299 WILDWOOD AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/4/2021 11:35:42 AM	WC21058167	XXX Wildwood Ave, BIRCHWOOD VILLAGE	ALARM-BUSINESS/RES/FIRE/MEDICAL/ETC
12/4/2021 8:05:06 PM	WC21058224	XXX Lake Ave, BIRCHWOOD VILLAGE	MEDICAL
12/7/2021 9:59:22 AM	WC21058547	34XXX -399 WILDWOOD AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/7/2021 11:53:37 AM	WC21058561	Unknown, BIRCHWOOD VILLAGE	FOLLOW UP
12/7/2021 11:43:14 PM	WC21058646	28XXX -299 JAY ST, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/8/2021 1:04:00 PM	WC21058717	XXX WILDWOOD AVE, BIRCHWOOD VILLAGE	OFFICER INITIATED CALL
12/9/2021 7:48:55 PM	WC21058974	XXX Wildwood Ave, BIRCHWOOD VILLAGE	SUSPICIOUS PERSON/ACTIVITY
12/14/2021 7:06:49 AM	WC21059603	XXX Lake Ave, BIRCHWOOD VILLAGE	911 ABANDONED/HANGUP/OPEN LINE
12/14/2021 10:43:43 AM	WC21059636	XXX Lake Ave, BIRCHWOOD VILLAGE	MEDICAL
12/15/2021 8:07:09 AM	WC21059754	40XXX -599 WILDWOOD AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/17/2021 8:52:00 AM	WC21060088	BIRCHWOOD VILLAGE, BIRCHWOOD VILLAGE	AREA CHECK
12/19/2021 6:37:14 AM	WC21060423	XXX Cedar St, BIRCHWOOD VILLAGE	ROAD HAZARD
12/20/2021 7:43:31 PM	WC21060668	XXX Hall Ave, BIRCHWOOD VILLAGE	LOST PROPERTY/ITEM
12/21/2021 8:43:52 AM	WC21060723	20XXX -255 CEDAR ST, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/21/2021 10:12:16 AM	WC21060735	XXX Lake Ave, BIRCHWOOD VILLAGE	CITIZEN/PUBLIC ASSIST
12/23/2021 10:05:30 AM	WC21060995	30XXX -426 HALL AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL
12/23/2021 11:59:00 PM	WC21061130	XXX WILDWOOD AVE, BIRCHWOOD VILLAGE	DIRECTED PATROL

TOTAL INCIDENTS: 20

City of Birchwood Village

2022 SCHEDULE OF REGULAR CITY COUNCIL MEETINGS

(Start time is 7:00 p.m. at City Hall)

January 11

February 8

March 8

April 12

May 10

June 14

July 12

August 16

September 13

October 11

November 15

December 13

2022 SCHEDULE OF OFFICIAL CITY HOLIDAYS

MLK Jr. Day – Mon, Jan 17

Presidents Day – Mon, Feb 21

Memorial Day – Mon, May 30

Independence Day – Mon, July 4

Labor Day – Mon, Sep 5

Veterans Day – Fri, Nov 11

Thanksgiving – Thu-Fri, Nov 24-25

Christmas Day – (Observed) Mon, Dec 26

New Years Day – (Observed) Mon, Jan 2. 2023

COMMITTEE/COMMISSION MEETING SCHEDULE

Planning Commission: Fourth Thurs 7pm

All other committees meet as needed - with notice

City Staff Office Hours

Mondays
9:30 a.m. – 12:30 p.m.
Thursdays
6:00 p.m. – 9:00 p.m.

Phone: 651-426-3403
E-mail: info@cityofbirchwood.com
Website: www.cityofbirchwood.com
Facebook: @BirchwoodCityHall

MEETING MINUTES (Final)

Birchwood Planning Commission Regular Meeting

7 Zoom Virtual Meeting – 7:00 PM Meeting 10/28/2021

Submitted by Michael Kraemer – acting secretary

COMMISSIONERS PRESENT: – Andy Sorenson – Chairman, Ryan Hankins – Vice Chairman, Michelle Maiers-Atakpu, Joe Evans, Michael Kraemer.

COMMISSIONERS ABSENT:

OTHERS PRESENT: Patrick Hughes – RCWD

1. CALL TO ORDER Meeting called to order by Chairman Andy Sorenson at 7:00 PM.

2. PUBLIC FORUM – no one present
3. APPROVE AGENDA
    a. Motion by Maiers-Atakpu, 2nd Evans to approve agenda as listed. Vote Yes – 5, No – 0. Motion passed.
4. Agenda Item A – Rice Creek Watershed District Representative Visit
    a. Patrick Hughes from RCWD was present for discussion and questions from the Commission. Patrick gave an overview of the RCWD jurisdiction and permitting process.
        i. Jurisdiction
            1. RCWD focus areas include permitting above OHW related to flood plain disturbances, public drainage systems, and stormwater treatment within the White Bear Lake Shoreland area.
            2. Shoreland area storm water triggers include
                a. subdivisions over 1 acre,
                b. surface disturbances over 10,000 SF
                c. disturbances/filling in the flood plain over 100 cubic yards
                d. linear roadway construction/re-construction over 1 acre
        ii. RCWD Storm Water Management Preferences
            1. RCWD has no set rules on impervious thresholds
            2. Preference is infiltration first
            3. Prefer systems that catch 1st flush runoff from impervious surfaces such as street and driveways
            4. Prefer systems that include long term management plans with periodic testing and an agreement recorded with title
            5. Acknowledge that combination treatment and infiltration systems like rain gardens and bioswales are accepted by most cities as an “offset” to impervious surfaces

6. Most Cities accept some percentage of pervious paver systems as a pervious system
7. 25% goal for impervious allocation is a fairly common goal in many cities but not a RCWD criteria.
8. Patrick speculated the Birchwood 25% goal may have been chosen because of the age of the community and absence of existing storm water collection and treatment systems.
9. RCWD preference is natural shoreline using planting and natural rock to stabilize shorelines and control erosion.

iii. Alternative Storm Water Collection and Treatment Concepts
1. Patrick indicated that an option to offset the 25% goal may be the use of City parklands for stormwater credits as treatment and infiltration areas.
2. Patrick indicated that Hugo is incorporating public collection, treatment and infiltration systems as an offset the 25% goal.

5. Agenda Item B - City Code Sec. 302.020, Structure Location Requirements
a. Discussion.
i. Planning Commissioner Ryan Hankins submitted revisions to City Code Sec. 302.020, Structure Location Requirements, Item 4.d – Small Lots proposing to revise the language to allow re-building on the pre-existing structure foot print and changing the side yard setbacks to 9’ for lots ranging in area from 10,000 sf to 15,000 sf and 8’ for lots under 10,000 sf in area.
ii. In discussing the proposed edits to City Code Sec. 302.020, Structure Location Requirements Item 4.d – Small Lots the question was raised as to what level of endorsement of this particular City Code was being requested. For example, was the Planning Commission just endorsing edits to item Item 4.d – Small Lots or was it being asked to re-endorse all of Sec. 302.020?
iii. Commissioner Michelle Maiers-Atakpu suggested that since some Planning Commission members would like to review the rationale behind some of the other criteria in the Sec. 302.020, and some “related items”, that meeting agenda Item B be tabled until the next meeting. Commissioner Michelle Maiers-Atakpu suggested a table of related items be prepared for the Commission for systematic review at the next meeting. The review is anticipated to include the review of structure placement related items including topics such as street setbacks, retaining wall setbacks, shoreland setbacks.
iv. Commissioner Ryan Hankins agreed to combine the review of his proposed Sec. 302.020 edits with the review of related items at the next meeting.

v. Commissioner Kraemer volunteered to dust off and recirculate the City Code comparison table put together for Commission discussion purposes late last year.

b. Planning Commission Action:
    i. Topic was tabled until the next meeting.

6. Agenda Item C – Variance Worksheet Discussion
    a. Review and Discuss
        i. Chairman Sorenson requested the discussion around the Birchwood Village – Variance Findings Form be tabled until the next meeting. All Commissioners were asked to review the form for efficacy and usefulness.
    b. Planning Commission Action:
        i. Topic was tabled until the next meeting.
7. Agenda Item D – Review/Approve September 23, 2021 Meeting Minutes
    a. Motion by Hankins, 2nd by Maiers-Atakpu, Vote Yes – 5, No – 0, Motion to approve minutes passed.
8. Agenda Item E – Review/Approve October 7, 2021 Meeting Minutes
    a. Motion by Maiers-Atakpu, 2nd Evans, Vote Yes – 5, No – 0. Motion to approve minutes passed.
9. Adjournment
    a. At 8:51 PM motion by Hankins. 2nd by Maiers-Atakpu to adjourn the meeting. Vote: Yes – 5, No – 0. Motion passed.

CITY OF BIRCHWOOD VILLAGE
207 BIRCHWOOD AVENUE
BIRCHWOOD, MINNESOTA

MINUTES OF THE CITY COUNCIL MEETING
VIA TELECONFERENCE
DECEMBER 14, 2021, 7:00 P.M.

MEMBERS:

Mary Wingfield	Mayor
Jon Fleck	Councilmember
Mark Foster	Councilmember
Justin McCarthy	Councilmember
Kevin Woolstencroft	Councilmember

STAFF:

Andy Gonyou	City Administrator
H. Alan Kantrud	City Attorney

GUESTS:

Barton Winter	Birchwood Village Resident
Kyle Hunt	CEO and President, Kyle Hunt & Partners
Brent Stevens	Project Manager, Kyle Hunt & Partners
David Snyder	Attorney, Johnson and Turner

Minutes prepared by Anh Nguyen of Minutes Solutions Inc. from an audio recording.

1. CALL TO ORDER

In light of the status of the ongoing COVID-19 health pandemic, the City of Birchwood Village is conducting its December 2021, meeting using interactive web-based technology. Pursuant to *Minnesota Statutes, Chapter 13D.021 Subdivision 1(1)*, the City of Birchwood Village is declaring that, “an in-person meeting or a meeting conducted under *section 13D.02* is not practical or prudent because of a health pandemic...”.

Mayor Wingfield called the meeting to order at 7:00 p.m.

2. PLEDGE OF ALLEGIANCE

3. APPROVAL OF AGENDA

Mayor Wingfield requested the addition of the following item to the agenda:

- 469 Lake Avenue

Councilmember McCarthy requested the addition of the following item to the agenda:

- Staff Raises

Councilmember Woolstencroft requested the addition of the following item to the agenda:

- Tennis Sanitation

City Administrator Andy Gonyou requested the addition of the following item to the agenda:

- City Planner Function

On a motion made by Councilmember Fleck, seconded by Councilmember Woolstencroft, it was resolved to approve the agenda, as amended. All in favor; motion carried.

4. OPEN PUBLIC FORUM

Barton Winter, 15 Five Oaks Lane, expressed concern regarding the new ice rink boards. He reported that some of the boards are missing bolts, and others are not bolted appropriately. He noted that the boards are not in an acceptable condition.

5. ANNOUNCEMENTS

A. **Social Media:** Follow Birchwood Village on Facebook/Twitter and/or register for the e-mail list.

B. **Ice Rink Opening Date:** The ice rink is expected to open the week of December 20, 2021, pending consistent weather.

C. **Recycling Bins:** Recycling bins can be upgraded to the largest size at no additional charge.

ACTION – Mayor Wingfield will include a notice regarding the recycling bin upgrade at no charge in the next newsletter.

6. ADMINISTRATIVE PRESENTATION

A. **Sheriff Report:** A report of law enforcement incidents and citations for November 2021, was provided for the Council's review.

7. CITY BUSINESS – CONSENT AGENDA

A. **Approval of the Treasurer's Report:** The Treasurer's Report for the period ending December 10, 2021, was provided for the Council's review and approval.

Mayor Wingfield noted that the report does not include the $250,000 that is expected to be received from Washington County the week of December 20, 2021. The city's year-end balance will be approximately $829,000. The disbursement of $1,300 to SL-serco for the water meter reading in Q3 of 2021 will be removed; the City of Birchwood Village did not utilize SL-serco's services at that time.

Mayor Wingfield confirmed that the roof [R11]is completed and the city is starting to make payments towards the $30,000 balance to the roofing company[R12].

On a motion made by Mayor Wingfield, seconded by Councilmember McCarthy, it was resolved to approve the Treasurer's Report as amended. All in favor; motion carried.

B. Approval of the Regular Meeting Minutes: The meeting minutes of the October 12, 2021, regular Council meeting was provided for the Council's review and approval.

C. Approval of the Special Meeting Minutes: The meeting minutes of the October 18, 2021, special Council meeting was provided for the Council's review and approval.

D. Approval of Resolution 2021-28, Designating Polling Place

E. Approval of Resolution 2021-27, Adopting MOA with State of Minnesota

F. Approval of NYFS Agreement for 2022

On a motion made by Councilmember Woolstencroft, seconded by Councilmember McCarthy, it was resolved to approve the consent agenda as presented. All in favor; motion carried.

8. CITY BUSINESS – REGULAR AGENDA

A. Planning Commission Discussion

a. 469 Lake Avenue: City Attorney H. Alan Kantrud noted that the variance request was only for the impervious surface. He queried how the applicant would obtain sufficient separation for pervious surface given the nature of the lot on the property. H. Alan Kantrud reported that Steve Thatcher, the City Engineer, has identified at least four additional variances required for the project to move forward.

Mayor Wingfield reported no additional submissions from the applicant since the October Council meeting. She recommended that the applicant submit the additional requirements as set out by the City Engineer, to be reviewed as a variance request, and proceed through the proper channels for approval from the Planning Commission followed by final approval from the Council.

The builder, Kyle Hunt & Partners, reported that they have not received any information from the City Engineer regarding additional requirements. He expressed concern regarding misinformation provided to the builder regarding the side yard setback. He noted that the neighbors to 469 Lake Avenue have offered to provide written authorization to the Council confirming their support of the project.

Mayor Wingfield noted a conversation with the builder following the October 2021 Council meeting in which she reiterated that the 60% rule only applies to lot size and does not apply to any setback. She informed the builder that the Council has since terminated the contract with Doug Danks due to his misinterpretations of city ordinances. She noted that the Council has not received additional information from the applicant to meet the sideline setback.

The property owner's attorney, David Snyder, suggested that Council designate a liaison to act as a direct designee. The liaison would communicate and meet with the builder to review submissions and iterations to the plan and discuss potential changes that would satisfy the Council. Mayor Wingfield agreed to act as the liaison.

Mayor Wingfield cautioned that it is not the Council's job to direct applicants to apply for variances, and that it would be incumbent upon the applicant to declare what variances they need.

On a motion made by Mayor Wingfield, seconded by Councilmember Fleck, it was resolved to reiterate the motion from the October 18, 2021, Council meeting in which the Council requested clarity and referred to Steve Thatcher's report from the packet, as well as any other reports to be forwarded to the applicant so that the additional requirements can be addressed, as the application is currently deemed incomplete by the Council based on the single variance request. All in favor; motion carried.

B. <u>Truth in Taxation/Adoption of Final Levy and Budget</u>

a. Public Hearing:
The levy is the same as 2021 in the amount of $512,000. There is no increase in the tax levy. There were no comments made for the public hearing.

On a motion made by Mayor Wingfield, seconded by Councilmember Woolstencroft, it was resolved to close the public hearing. All in favor; motion carried.

b. Review of Proposed 2022 Levy and Budget: A draft levy and budget for 2022 was provided for the Council's review.

c. Approve Resolution 2021-29, Final Budget Adoption:

On a motion made by Councilmember McCarthy, seconded by Councilmember Fleck, it was resolved to approve Resolution 2021-29 to adopt the final 2022 budget. All in favor; motion carried.

d. Approve Resolution 2021-30, Final Levy Adoption:

On a motion made by Councilmember Woolstencroft, seconded by Councilmember Foster, it was resolved to approve Resolution 2021-30 to adopt the final 2022 levy. All in favor; motion carried.

C. <u>Resolution 2021-31, Certification of Delinquent Utility Accounts to the County</u>

a. Public Hearing: Mayor Wingfield confirmed that a 5% interest rate and a $50 administrative fee can be reimposed in addition to the collection of monies for delinquent utility accounts. Andy Gonyou, the City Administrator, reported that delinquent property owners have been notified. He will be providing Washington County with the list of delinquent accounts on December 15, 2021.

On a motion made by Councilmember Fleck, seconded by Councilmember McCarthy, it was resolved to close the public hearing. All in favor; motion carried.

b. Council Deliberation and Approval: The Council discussed an interest rate of 4%. Mayor Wingfield noted that a 5% interest rate was recommended by Shelly Rueckert, the Finance Director of Saint Anthony Village.

On a motion made by Councilmember Woolstencroft, seconded by Councilmember Fleck, it was resolved to approve Resolution 2021-31, Certification of Delinquent Utility Accounts to the County with a 5% interest collected per annum and a $50 administrative collection fee per account. All in favor; motion carried.

D. Delinquent Water Meter Installations

a. Consider Contracting with City Water Superintendent for Further Installations: Mayor Wingfield reported nine delinquent water meter installations. She noted that Manship Plumbing and Heating can install the new water meters. Property owners will continue to be billed at double the usage rate and will rely on the billing from the previous year until the new meters are installed.

Mayor Wingfield noted that the new water meters would have recovered $44,000 in usage due to the ineffectiveness of the old water meters.

On a motion made by Councilmember Fleck, seconded by Councilmember Woolstencroft, it was resolved to authorize Manship Plumbing and Heating to install the new water meters and make the collections independent of the city. All in favor; motion carried.

E. First Reading of Ordinance 2021-12-01, Amending Section 617 (Public Lake Tracts)

a. Council Deliberation: The ordinance is being amended to read “1 vote” instead of “0 votes”. The Dock Association has indicated that they are not interested in offering the boat slip at Feistner Beach to their membership. The City of Birchwood Village will offer a boat slip to the public.

b. Order Second Reading and Public Hearing

On a motion made by Mayor Wingfield, seconded by Councilmember McCarthy, it was resolved to approve a second reading and public hearing of the amended Section 617 for Ordinance 2021-12-01 at the January 2022 Council meeting. All in favor; motion carried.

F. City Engineering Update

a. Lake Links Trail/Hall Avenue Memo: The City Engineer, Steve Thatcher, met with a representative from T.A. Schifsky & Sons regarding road improvements for pedestrians and cyclists. The project is estimated to cost $35,000 and is expected to be completed in the spring of 2022 prior to the start of the T.A. Schifsky & Sons tar operations. The Council agreed to hold a public hearing at the February 2022 Council meeting.

ACTION – Andy Gonyou will include the Lake Links Trail/Hall Avenue item on the agenda for public hearing at the February 2022 Council meeting.

b. **Wildwood Lift Station:** Steve Thatcher is requesting $10,000 in funding to prepare shovel ready plans for the Wildwood lift station.

On a motion made by Councilmember Fleck, seconded by Councilmember Woolstencroft, it was resolved to authorize Steve Thatcher to pursue shovel ready plans for the Wildwood lift station at a cost not to exceed $10,000. All in favor; motion carried.

G. Fee Schedule 2022

a. **Council Deliberation:** Mayor Wingfield recommended a $35 resident fee and a $50 non-resident fee for access to the kayak racks. The Council discouraged widespread use of the kayak racks by non-residents, citing concerns of non-residents commuting into the community and utilizing the space. The Council agreed that the kayak rack will be restricted to resident use only as confirmed to be permitted by the City Attorney H. Alan Kantrud.

Mayor Wingfield reported that the city is still not tracking the irrigation system. There is currently no management to ensure the public water supply is protected. The Council suggested sending a notice to residents advising that all old irrigation systems should include a backflow prevention device, and all new irrigation systems will require a backflow preventor and a permit.

The city code will be amended to state that residents who do not comply will be responsible for damages that may ensue.

ACTION – Andy Gonyou will add the $1,000 boat space at Feistner Beach to the fee schedule.

ACTION – Andy Gonyou will convert the sewer and water cubic rate to a per gallon rate.

ACTION – H. Alan Kantrud will confirm the already established plumbing code as per the state of Minnesota and obtain sample codes from surrounding communities to present to Council for review.

H. Councilmember Reports

a. Mayor Wingfield

i) **Hall's Marsh Update:** Pace Analytical conducted a soil sampling the week of November 29, 2021. A report is pending. The city did not proceed with Braun Intertec due to an increase to $7,500 for the cost of the water study.

Bud Jensen and Ruth Jensen have drafted a response to the RCWD in response to the Council's motion. Mayor Wingfield noted that her contact

[RI3]recommended that the Council would have more traction with the Minnesota Pollution Control Agency to protect the City's interests.

b. Councilmember McCarthy

i) **Maintenance Code:** Councilmember McCarthy recommended removing any reference to specific sections of the state building code.

Mayor Wingfield recommended deleting definitions in code 404.030 which were already defined in *section 402*. Councilmember McCarthy suggested amending 404.030 to state: "substantial presence or inundation of insects or rodents". H. Alan Kantrud suggested including a reference to: "in the opinion of a pest control expert poses a risk to public health."

Mayor Wingfield referred to 404.060 and suggested deleting the window screen requirement.

ACTION – Councilmember McCarthy will revise the ordinance and prepare for a first reading of the amended ordinance at the January 2022 Council meeting.

ii) **Staff Raises:** Councilmember McCarthy recommended a raise for the City Administrator, Andy Gonyou, and the City Maintenance, Jim Rydeen, in conjunction with the cost of living. The Council agreed on a 6% raise.

On a motion made by Councilmember McCarthy, seconded by Mayor Wingfield, it was resolved to increase the rate for Andy Gonyou and Jim Rydeen by 6%, in conjunction with the increase in the cost of living, effective December 15, 2021. All in favor; motion carried.

c. Councilmember Woolstencroft

i) **Tennis Sanitation:** Tennis Sanitation offers residential trash removal at an annual cost of $292.99. This includes 11 months of trash removal and one month at no charge.

I. City Administrator Report

a. **Ice Rink:** The Council agreed to open the hockey hut for residents to use at their own risk and on the condition that masks are required, and a maximum capacity of four people are permitted unless they are from the same household.

ACTION – Andy Gonyou will post a notice advising residents that the hockey hut is open for use on the condition that masks are required, and a maximum occupancy of four people are permitted unless from the same household.

b. **Council Workshop:** The next workshop will be scheduled for February 15, 2022.

c. **City Planner Function:** Steve Thatcher was serving as interim City Planner after Doug Danks' removal as City Planner at the Council meeting held on November

9, 2021. Steve Thatcher will serve as City Planner in full capacity moving forward. He has informed the City that his rate would increase to $100 per hour effective January 1, 2022.

On a motion made by Councilmember McCarthy, seconded by Councilmember Woolstencroft, it was resolved to authorize Steve Thatcher to operate as City Planner in its full capacity at a rate of $100 per hour. All in favor; motion carried.

ACTION – Andy Gonyou will update the fee schedule to include Steve Thatcher's rate as City Planner.

9. NEXT MEETING

The next Council meeting will be held at a date and time to be determined.

10. ADJOURNMENT

On a motion made by Councilmember Woolstencroft, seconded by Councilmember McCarthy and carried unanimously, it was agreed that there was no further business of the Council to transact; the meeting was closed at 9:06 p.m. by Mayor Wingfield.

DISCLAIMER

The above minutes should be used as a summary of the motions passed and issues discussed at the meeting of the members of the Birchwood Village City Council. This document shall not be considered to be a verbatim copy of every word spoken at the meeting.

Mayor Mary Wingfield	City Administrator Andy Gonyou
Date	Date

For the Period : **12/14/2021 To 1/6/2022**

Name of Fund	Beginning Balance	Total Receipts	Total Disbursed	Ending Balance
General Fund	$367,941.29	$10,486.54	$62,986.37	$315,441.46
Road and Bridge	$0.00	$0.00	$0.00	$0.00
Other Federal Programs	$0.00	$0.00	$0.00	$0.00
Comp Plan Grant	$0.00	$0.00	$0.00	$0.00
Tree Canopy Care	$0.00	$0.00	$0.00	$0.00
Special Rev Projects	$12,525.69	$0.00	$0.00	$12,525.69
Spec Rev - Warm House	$0.00	$0.00	$0.00	$0.00
REIMBURSED CONTRACTED SERVICES	$0.00	$0.00	$0.00	$0.00
General Debt Service (Identify) (Inactive)	$0.00	$0.00	$0.00	$0.00
Birchwood ln Re-hab Bond	$0.00	$0.00	$0.00	$0.00
Sewer Re-hab Debt	$0.00	$0.00	$0.00	$0.00
CAPITAL PROJECT FUNDS (401 through 499)	$0.00	$0.00	$0.00	$0.00
General Capital Projects	$0.00	$0.00	$0.00	$0.00
Municipal State Aid Streets - Construction (Inactive)	$0.00	$0.00	$0.00	$0.00
Capital Project PW	$123,615.31	$0.00	$0.00	$123,615.31
Water	$5,709.33	$0.00	$1,354.56	$4,354.77
Sewer	$119,878.59	$0.00	$13,714.85	$106,163.74
Transit System	$0.00	$0.00	$0.00	$0.00
Sewer Infrastructure	$0.00	$0.00	$0.00	$0.00
Water Meter Upgrade Fees	($2,046.08)	$0.00	$0.00	($2,046.08)
American Rescue Act Proceeds	($46,665.31)	$0.00	$0.00	($46,665.31)
Engineering Services	$0.00	$0.00	$0.00	$0.00
Total	**$580,958.82**	**$10,486.54**	**$78,055.78**	**$513,389.58**

Fund Name: **All Funds**

Date Range: **12/14/2021 To 01/06/2022**

Date	Vendor	Check #	Description	Void	Account Name	F-A-O-P	Total
12/14/2021	Xcel Energy	EFT12142021A*	Electricity 210 Birchwood Ave Unit Tower 10/17/21-11/15/21	N	Water Utility	601-43180-380-	$ 14.04
		EFT12142021A*			Sewer Utility	605-43190-383-	$ 43.26
	Total For Check	**EFT12142021A**					**$ 57.30**
12/14/2021	Xcel Energy	EFT12142021B*	Gas Service 407 Lake Ave 10/15-11/15	N	Sewer Utility	605-43190-383-	$ 34.04
	Total For Check	**EFT12142021B**					**$ 34.04**
12/22/2021	Mow Joe Inc	31697*	Fall Leaf Pick Up 2021	N	Leaf Pick-Up	100-43110-314-	$ 5,685.51
	Total For Check	**31697**					**$ 5,685.51**
12/22/2021	White Bear Township	31698*	Contracted Services - Nov 2021	N	Sewer Utility	605-43190-314-	$ 3,145.53
	Total For Check	**31698**					**$ 3,145.53**
12/22/2021	City of Roseville	31699*	IT charges December	N	General Government Buildings and Plant	100-41940-320-	$ 692.70
	Total For Check	**31699**					**$ 692.70**
12/22/2021	Water Conservation Service Inc.	31700*	Water Main Leak Locates - 11/18/2021	N	Wtr/Swr Emergency	601-43185-300-	$ 312.40
	Total For Check	**31700**					**$ 312.40**
12/22/2021	AirFresh Industries, Inc.	31701*	Portable Restrooms-Dec Billing	N	Parks	100-45207-314-	$ 162.50
	Total For Check	**31701**					**$ 162.50**
12/22/2021	TA Schifsky & Sons, Inc.	31702*	Street Maintenance	N	Streets and Road Mntnc	100-43101-314-	$ 4,300.00
		31702*				100-43101-314-	$ 2,600.00
	Total For Check	**31702**					**$ 6,900.00**
12/22/2021	White Bear Rental	31703*	Chipper 12/10/2021	N	Parks	100-45207-400-	$ 354.22
	Total For Check	**31703**					**$ 354.22**
12/22/2021	Minutes Solutions	31704*	Minutes	N	MISCELLANEOUS	100-49001-300-	$ 260.00
	Total For Check	**31704**					**$ 260.00**

Date	Vendor	Check #	Description	Void	Account Name	F-A-O-P	Total
12/22/2021	USS Minnesota One MT LLC	31705	Energy Charges - Dec	N	General Government Buildings and Plant	100-41940-380-	$ 45.35
		31705			Sewer Utility	605-43190-380-	$ 120.91
		31705				605-43190-380-	$ 219.16
	Total For Check	**31705**					**$ 385.42**
12/22/2021	Toshiba Business Solutions	31706	Printer Maintenance - 12/9-1/08	N	Office Operations Supplies	100-41911-314-	$ 10.62
	Total For Check	**31706**					**$ 10.62**
12/22/2021	TSE, Inc. Work Account	31707	Janitorial Services - 12/2/2021	N	General Government Buildings and Plant	100-41940-314-	$ 31.25
	Total For Check	**31707**					**$ 31.25**
12/22/2021	Metropolitan Council - Env. Service	31708*	Wastewater Service- 2 Invoices Oct and Dec	N	Sewer Utility	605-43190-217-	$ 4,988.17
		31708*				605-43190-217-	$ 5,105.97
	Total For Check	**31708**					**$ 10,094.14**
12/22/2021	H.A. Kantrud, P.A.	31709	Attorney Services -Dec 2021	N	Legal Services	100-41601-300-	$ 1,500.00
	Total For Check	**31709**					**$ 1,500.00**
12/22/2021	City of White Bear Lake Fire	31710	Fire Srvc - Dec	N	Fire	100-42201-314-	$ 2,445.62
	Total For Check	**31710**					**$ 2,445.62**
12/22/2021	Payroll Period Ending 12/22/2021	31711	Council members 2021	N	Mayor	100-41310-100-	$ 1,385.25
	Total For Check	**31711**					**$ 1,385.25**
12/22/2021	Payroll Period Ending 12/22/2021	31712	Council members 2021	N	Mayor	100-41310-100-	$ 1,185.25
	Total For Check	**31712**					**$ 1,185.25**
12/22/2021	Payroll Period Ending 12/22/2021	31713	Council members 2021	N	Mayor	100-41310-100-	$ 1,385.25
	Total For Check	**31713**					**$ 1,385.25**
12/22/2021	Payroll Period Ending 12/22/2021	31714	Council members 2021	N	Mayor	100-41310-100-	$ 1,883.75
	Total For Check	**31714**					**$ 1,883.75**
12/22/2021	Payroll Period Ending 12/22/2021	31715	Council members 2021	N	Mayor	100-41310-100-	$ 1,385.25
	Total For Check	**31715**					**$ 1,385.25**
12/22/2021	Payroll Period Ending 12/22/2021	31716	Andy Gonyou- City Administrator	N	Clerk - Treasurer	100-41401-100-	$ 1,040.77

Date	Vendor	Check #	Description	Void	Account Name	F-A-O-P	Total
	Total For Check	**31716**					**$ 1,040.77**
12/22/2021	Payroll Period Ending 12/22/2021	31717	Jackie Smith- Deputy Clerk	N	Clerk - Treasurer	100-41401-100-	$ 404.59
	Total For Check	**31717**					**$ 404.59**
12/22/2021	Payroll Period Ending 12/22/2021	31718	Mary Cahill- Assistant Treasurer	N	Clerk - Treasurer	100-41401-100-	$ 162.66
	Total For Check	**31718**					**$ 162.66**
12/22/2021	PERA	eft12242021a	Retirement funds- Mary Wingfield, mayor	N	Mayor	100-41310-121-	$ 233.08
	Total For Check	**eft12242021a**					**$ 233.08**
01/03/2022	Xcel Energy	01032022A*	Street Lighting- 11/3/2021-12/02/21	N	Street Lighting	100-43160-381-	$ 1,296.48
	Total For Check	**01032022A**					**$ 1,296.48**
01/03/2022	A T & T Mobility	12222021A	Water Meter 11/30-12/02	N	Water Utility	601-43180-382-	$ 54.10
	Total For Check	**12222021A**					**$ 54.10**
01/03/2022	Payroll Period Ending 01/01/2022	31719	Andy Gonyou - City Administrator	N	Clerk - Treasurer	100-41401-100-	$ 1,088.85
	Total For Check	**31719**					**$ 1,088.85**
01/03/2022	Payroll Period Ending 01/01/2022	31720	Jim Rydeen, Maintenance & Rink Attendant - Payroll	N	Parks	100-45207-100-	$ 1,531.37
	Total For Check	**31720**					**$ 1,531.37**
01/03/2022	Payroll Period Ending 01/01/2022	31721	Jackie Smith - Deputy Clerk	N	Clerk - Treasurer	100-41401-100-	$ 355.35
	Total For Check	**31721**					**$ 355.35**
01/04/2022	Manship Plumbing & Heating Inc	31722*	Standby, locates, water system testing	N	Water Utility	601-43180-314-	$ 600.00
		31722*				601-43180-314-	$ 240.00
		31722*				601-43180-314-	$ 120.00
	Total For Check	**31722**					**$ 960.00**
01/04/2022	Menards - Oakdale	31723*	Maintenance Supplies	N	Parks	100-45207-400-	$ 45.04
		31723*				100-45207-400-	$ 42.45
	Total For Check	**31723**					**$ 87.49**
01/04/2022	Washington County Sheriff	31724*	Police Services: Jul - Dec 2021	N	Police	100-42101-314-	$ 30,384.53
	Total For Check	**31724**					**$ 30,384.53**

Fund Name: **All Funds**
January 11, 2022 Regular City Council Meeting
Date Range: **12/14/2021 To 01/06/2022**

Date	Vendor	Check #	Description	Void	Account Name	F-A-O-P	Total
01/04/2022	Press Publications	31725*	Legal Notice Publications - December 2021	N	Ordinances and Proceedings	100-41130-351-	$ 54.51
		31725*				100-41130-351-	$ 63.60
		31725*				100-41130-351-	$ 45.43
	Total For Check	**31725**					**$ 163.54**
01/04/2022	BrightView Landscapes, LLC.	31726*	Snow Removal Services (11/13/21 Snow Event)	N	Ice and Snow Removal	100-43125-210-	$ 225.00
		31726*				100-43125-314-	$ 130.00
	Total For Check	**31726**					**$ 355.00**
01/04/2022	Andrew Gonyou	31727*	Zoom- Dec 30-Jan 29, 2022	N	Office Operations Supplies	100-41911-200-	$ 16.09
	Total For Check	**31727**					**$ 16.09**
01/04/2022	R Leeves Productions LLC	31728*	Videography - Council Mtgs, 12/14/2021	N	Cable Eqpmt and Service	100-41950-314-	$ 82.50
	Total For Check	**31728**					**$ 82.50**
01/04/2022	Xcel Energy	EFT011822A*	Electricity 210 Birchwood Ave Unit Tower 11/15/21-12/16/21	N	Water Utility	601-43180-380-	$ 14.02
	Total For Check	**EFT011822A**					**$ 14.02**
01/04/2022	Xcel Energy	EFT011822B*	Gas Service 407 Lake Ave 11/15/21 - 12/16/21	N	Sewer Utility	605-43190-383-	$ 26.85
	Total For Check	**EFT011822B**					**$ 26.85**
01/04/2022	Xcel Energy	EFT011822C*	Gas Service 200 Wildwood Ave 11/15/21 - 12/16/21	N	Sewer Utility	605-43190-383-	$ 30.96
	Total For Check	**EFT011822C**					**$ 30.96**
01/05/2022	PERA	EFT010522A*	Retirement funds- Andy Gonyou, City Administrator	N	Clerk - Treasurer	100-41401-121-	$ 204.06
	Total For Check	**EFT010522A**					**$ 204.06**
01/05/2022	PERA	EFT010522B*	Retirement funds- Jim Rydeen, Maintenance & Rink Attendant	N	Parks	100-45207-121-	$ 267.49
	Total For Check	**EFT010522B**					**$ 267.49**
Total For Selected Checks							**$ 78,055.78**

Fund Name: **All Funds**

Date Range: **12/14/2021 To 01/06/2022**

Date	Remitter	Receipt #	Description	Deposit ID	Void	Account Name	F-A-P	Total
12/16/2021	New Century Systems	171735294*	Building Permit- Mechanical-2021-98	(12/16/2021) -	N	Building Permits	100-32211-	$ 84.45
								$ 84.45
12/20/2021	Air Flow Mechanical	171735296*	Mechanical permit	(12/20/2021) -	N	Building Permits	100-32211-	$ 84.49
								$ 84.49
12/22/2021	Bonnie Schwichenberg	171735267	Monday Art classes at the Hall-annual dues	(12/22/2021) -	N	City/Town Hall Rent	100-34101-	$ 10.00
								$ 10.00
12/22/2021	Stanhope	171735268*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Fleck	171735269*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Paradise	171735270*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Donnell	171735271*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Nelson	171735272*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Tessier	171735273*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Hoffman	171735274*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Anderson	171735275*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00

Fund Name: **All Funds**
January 11, 2022 Regular City Council Meeting
Date Range: **12/14/2021 To 01/06/2022**

Date	Remitter	Receipt #	Description	Deposit ID	Void	Account Name	F-A-P	Total
12/22/2021	Berg	171735276*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Sperl	171735277*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Alexander	171735278*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Arsenault	171735279*	Dog License- 3 dogs	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 60.00
								$ 60.00
12/22/2021	Kapsner	171735280*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Nickolaus	171735281*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Pratt	171735282*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Mayek	171735283*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Evans	171735284*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
12/22/2021	Rietveld	171735285*	2 Dog Licenses	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 40.00
								$ 40.00
12/22/2021	Hansen	171735286*	2 Dog Licenses	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 40.00
								$ 40.00
12/22/2021	Atakpu	171735287*	Hall Rental	(12/22/2021) -	N	City/Town Hall Rent	100-34101-	$ 25.00
								$ 25.00
12/22/2021	Atakpu	171735288*	Hall Rental Escrow	(12/22/2021) -	N	Escrow Deposits	100-36245-8	$ 100.00
								$ 100.00

Fund Name: **All Funds**
January 11, 2022 Regular City Council Meeting
Date Range: **12/14/2021 To 01/06/2022**

Date	Remitter	Receipt #	Description	Deposit ID	Void	Account Name	F-A-P	Total
12/22/2021	Edenwood	171735289*	Building Permit # 2021-95	(12/22/2021) -	N	Building Permits	100-32211-	$ 1,196.25
								$ 1,196.25
12/22/2021	Edenwood	171735290*	Building Permit- Escrow	(12/22/2021) -	N	Escrow Deposits	100-36245-8	$ 3,000.00
								$ 3,000.00
12/22/2021	League of Minnesota Cities	171735291*	Dividends reimbursement	(12/22/2021) -	N	Refund-Reimbursemnt-Dividend	100-36240-	$ 841.00
								$ 841.00
12/22/2021	Lindstrom Restoration	171735292*	Building Permit # 2021-97	(12/22/2021) -	N	Building Permits	100-32211-	$ 1,665.35
						Escrow Deposits	100-36245-8	$ 3,000.00
								$ 4,665.35
12/22/2021	Seibert	171735293*	Dog License	(12/22/2021) -	N	Animal Licenses	100-32240-	$ 20.00
								$ 20.00
Total for Selected Receipts								**$ 10,486.54**

As on 1/6/2022

Special Rev Projects

	Budget	Actual	Variance
Receipts:			
Total Revenues	**0.00**	**0.00**	**0.00**
Other Financing Sources:			
Total Other Financing Sources	**0.00**	**0.00**	**0.00**
Disbursements:			
Total Disbursements	**0.00**	**0.00**	**0.00**
Other Financing Uses:			
Total Other Financing Uses	**0.00**	**0.00**	**0.00**

Beginning Cash Balance	**12,525.69**
Total Receipts and Other Financing Sources	**0.00**
Total Disbursements and Other Financing Uses	**0.00**
Cash Balance as of 01/06/2022	**12,525.69**

As on 1/6/2022

Capital Project PW

	Budget	Actual	Variance
Receipts:			
Total Revenues	**0.00**	**0.00**	**0.00**
Other Financing Sources:			
Total Other Financing Sources	**0.00**	**0.00**	**0.00**
Disbursements:			
Total Disbursements	**0.00**	**0.00**	**0.00**
Other Financing Uses:			
Total Other Financing Uses	**0.00**	**0.00**	**0.00**
Beginning Cash Balance		**123,615.31**	
Total Receipts and Other Financing Sources		**0.00**	
Total Disbursements and Other Financing Uses		**0.00**	
Cash Balance as of 01/06/2022		**123,615.31**	

As on 1/6/2022

Water

	Budget	Actual	Variance
Receipts:			
Total Revenues	**0.00**	**0.00**	**0.00**
Other Financing Sources:			
Total Other Financing Sources	**0.00**	**0.00**	**0.00**
Disbursements:			
Water Utility			
Contracted Services	0.00	960.00	(960.00)
Utility Services (381 through 389)	0.00	14.02	(14.02)
Utility Services: Water	0.00	54.10	(54.10)
Total Acct 431	**0.00**	**1,028.12**	**(1,028.12)**
Total Disbursements	**0.00**	**1,028.12**	**(1,028.12)**
Other Financing Uses:			
Total Other Financing Uses	**0.00**	**0.00**	**0.00**
Beginning Cash Balance		**5,382.89**	
Total Receipts and Other Financing Sources		**0.00**	
Total Disbursements and Other Financing Uses		**1,028.12**	
Cash Balance as of 01/06/2022		**4,354.77**	

As on 1/6/2022

Sewer

	Budget	Actual	Variance
Receipts:			
Total Revenues	**0.00**	**0.00**	**0.00**
Other Financing Sources:			
Total Other Financing Sources	**0.00**	**0.00**	**0.00**
Disbursements:			
Sewer Utility			
Utility Services: Gas Utilities	0.00	57.81	(57.81)
Total Acct 431	**0.00**	**57.81**	**(57.81)**
Total Disbursements	**0.00**	**57.81**	**(57.81)**
Other Financing Uses:			
Total Other Financing Uses	**0.00**	**0.00**	**0.00**
Beginning Cash Balance		**106,221.55**	
Total Receipts and Other Financing Sources		**0.00**	
Total Disbursements and Other Financing Uses		**57.81**	
Cash Balance as of 01/06/2022		**106,163.74**	

RESOLUTION 2022-01

CITY OF BIRCHWOOD VILLAGE
WASHINGTON COUNTY, MINNESOTA

A RESOLUTION DESIGNATING THE WHITE BEAR PRESS AS THE OFFICIAL NEWSPAPER FOR PUBLICATION FOR ALL CITY LEGAL NOTICES

BE IT RESOLVED, by the City Council of the City of Birchwood Village that:

The White Bear Press is designated as the official newspaper for all City of Birchwood Village legal notices.

I certify that the City of Birchwood Village adopted the above Resolution on this 11th day of January, 2022.

_____
Mary Wingfield, Mayor

ATTEST:

_____
Andy Gonyou
City Administrator-Clerk

RESOLUTION 2022-02

CITY OF BIRCHWOOD VILLAGE
WASHINGTON COUNTY, MINNESOTA

A RESOLUTION NAMING U. S. BANK, N.A. AND THE MINNESOTA MUNICIPAL MONEY MARKET FUND (A/K/A "4M FUND") AS THE OFFICIAL DEPOSITORIES OF MUNICIPAL FUNDS

SECTION 1. RESOLVED, that U. S. Bank, N.A. and the Minnesota Municipal Money Market Fund (a/k/a "4M Fund") are hereby designated as depositories for the funds of the City of Birchwood Village. The City Treasurer is authorized to deposit city funds therein.

SECTION 2. RESOLVED ALSO, that before any deposits are made that exceed the amount that is guaranteed by the Federal Deposit Insurance Corporation (FDIC), the depository must supply to the City a corporate surety bond in the amount of at least 10 percent more than the amount on deposit at the depository's cutoff hour. The bond is subject to the approval of the City Council. The surety bond must be conditioned to repay the above amount or any part thereof upon proper demand therefore and to perform such other duties in connection with the deposit as the council may require.

SECTION 3. RESOLVED FURTHER, that, in lieu of the above bond, the depository may furnish collateral in the manner and to the extent permitted by law. All such collateral must be approved by the City Council and accompanied by a written assignment providing that, upon default, the financial institution shall release to the City on demand, free of exchange or any other charges, the collateral pledged.

SECTION 4. RESOLVED FURTHER, all collateral must be placed in safekeeping in a restricted account at either a Federal Reserve Bank or in an account at a trust department of a commercial bank or other financial institution that is not owned or controlled by the financial institution that is furnishing the collateral. The selection must be approved by the City Council. In case of default upon the part of the depository, the City Council shall have full power and authority to sell such collateral or as much as may be necessary to realize the full amount due the city over such federal guarantee.

This designation is effective until subsequently rescinded by the Birchwood Village City Council.

I certify that the City of Birchwood Village adopted the above Resolution on this 11th day of January, 2022.

_____
Mary Wingfield, Mayor

Attest:

_____
Andy Gonyou
City Administrator-Clerk

ORDINANCE 2021-12-01

CITY OF BIRCHWOOD VILLAGE
WASHINGTON COUNTY, MINNESOTA

AN ORDINANCE AMENDING PUBLIC LAKE TRACTS IN CITY CODE

The City Council of the City of Birchwood Village hereby ordains that Chapter 617 (Public Lake Tracts) of the Municipal Code of the City of Birchwood Village is hereby amended to read as follows:

SECTION 617. PUBLIC LAKE TRACTS

617.370 **Boat Slip Permits**. Use of a boat slip on a Public Lake Tract shall require a Dock Association Boat Slip Permit. The Dock Association shall manage the assignment of Boat Slip Permits on docks installed on its Public Lake Tracts as follows:

(1) On November 15 of each year, the Dock Association shall determine if each boat slip permit holder is eligible for a boat permit slip for the following year, and if so, send written notice to each permit holder to renew their permit for the next boating season. Failure to reply and pay the Boat Slip permit fee and provide proof of insurance by December 15 of that same year will result in forfeiture of any remaining Boating Seasons for such permit holder.

(2) The Dock Association shall assign any Boat Slip Permits that are not renewed by December 15, shall be filled according to the provision set out in 617.410 by March 1 for the following boating season.

(3) Boat Slip permits shall be assigned by Dock Association by March 1 of each boating season and shall be valid for the boating season if the requisite fee has been paid and proof of insurance in compliance with 617.390(2) are provided to the Dock Association.

(4) Boat Slip Permits are not transferable or assignable by the holder.

(5) Boat Slip Permits may not be used for any commercial purpose.

(6) No person or household shall be permitted more than one (1) boat slip on the Public Lake Tracts.

(7) The maximum number of years an individual or household may use a Boat Slip Permit is six (6) continuous full Boating Seasons. A Boat Slip permit holder may begin another six year period if no other applicants on the Boat Slip Wait List desire that assigned boat slip.

(8) The Dock Association shall maintain an up-to-date list of individuals assigned a Boat Slip Permit that includes their accrued number of years of use and provide that list as part of its yearly Dock permit application.

(9) Upon a Dock Association member reaching the maximum number of years of Boat Slip Permit, said Dock Association member shall relinquish his or her Boat Slip Permit, and his or her years of accrued use shall be set back to zero years. Thereafter, said Dock Association member may submit an application for the Boat Slip Waiting List pursuant to the provisions of Section 617.400.

(10) An individual may voluntarily relinquish their Boat Slip Permit at any time but shall be required to reapply to be added to the Boat Slip Waiting List pursuant to Section 617.410 to regain a Boat Slip Permit.

(11) The Dock Association shall have the discretion to determine the physical boat slip to be used by each individual who has a valid Boat Slip Permit. The Dock Association shall assign slips as to maximize the useable number of boat slips. The City reserves the right to monitor the Dock Association's boat slip assignment process and to recommend changes to the Dock Association's boat slip assignment process.

(12) The maximum number of boat slips that can be approved by the City for each of its Public Lake Tracts is as follows:

a. Curt Feistner Beach – 1~~0~~
b. Ash Beach – 8
c. Birch Beach – 10
d. Elm Beach – 6
e. Dellwood Beach – 8
f. Kay Beach – 0

RESOLUTION 2022-03

CITY OF BIRCHWOOD VILLAGE
WASHINGTON COUNTY, MINNESOTA

A RESOLUTION APPROVING SUMMARY PUBLICATION OF ORDINANCE NO. 2021-12-01, AN ORDINANCE AMENDING SECTION 617 OF CITY CODE

WHEREAS, the City of Birchwood Village is a political subdivision, organized and existing under the laws of the State of Minnesota; and

WHEREAS, the City has adopted Ordinance No. 2021-12-01, which amends the language of City Code Section 617; and

WHEREAS, the new ordinance is lengthy and would be costly for the City to publish in its entirety as required by law for the adoption of an ordinance.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Birchwood Village, Minnesota, as follows:

1. Because the terms of Ordinance 2021-12-01 are lengthy, the City may publish the attached summary of the Ordinance as allowed by statute, and need not publish the entire ordinance. The attached summary clearly informs the public of the intent and effect of the Ordinance. Summary publication has been approved by at least a 4/5 vote of the City Council.

2. The effective date of the Ordinance amendments shall be upon their publication by summary as required by law.

Resolution duly seconded and passed this 11th day of January, 2022.

_____
Mary Wingfield, Mayor

Attest:

_____
Andy Gonyou, City Administrator-Clerk

Please be advised that the City of Birchwood has duly-passed the following ORDINANCE:

An ordinance amending the City's Public Lake Tracts code to allow for one boat slip at Feistner beach.

The following is a SUMMARY of the Ordinance:

On 01/11/2022 the City amended Code 617.370.12a:

Amending the number of boat slips permitted at Curt Feistner Beach from 0 to 1.

PLEASE BE ADVISED, this is not the full text of the Ordinance passed and the published material is only a summary. The full text is available for public inspection at the City of Birchwood, 207 Birchwood Ave, Birchwood, MN or delivered upon request electronically or by U.S. Mail.

Summary complies with Minn. Stat. §§ 331A.05 subd. 8. & 412.191 subd 4

CITY OF BIRCHWOOD VILLAGE
2022~~1~~ FEE SCHEDULE

All fees in this schedule are subject to "Other Inspections and Fees" (under Additional Fees) when required by the City

GENERAL FEES

Compact Disk……$1.00 per disk
Copies (Black and White)…… $0.25 per page 8 ½ x 11 and 8 ½ x 14
$0.35 per page 11 x 17
Copies (Color)…….. $1.00 per page
Chicken / Pig License……$10.00 for two years; late fee after Feb. 15
Dog License……$20.00 bi-annual; late fee after Feb. 15
Facsimile……$1.00 first page; $0.50 each additional page
Hall Rental……$25.00 plus $100.00 refundable deposit
Postage & Envelopes for Mailings & Public Hearing Notices...$1.00 plus postage
Public Property Access Limited License (§607.235)……. …$50.00
Returned Check……$30.00

DOCK ASSOCIATION FEES

Dock Permit Fee: $750 ($650 per boat slip user plus $100 per stored boat lift) payable in full by April 1 of the boating season. In the event of low water, the fee shall be at least the fee amount multiplied by the number of boat slip users at the end of the previous boating season or the number of boat slip users for the following boating season, whichever is greater.

SMALL CRAFT STORAGE FEES

Annual Small Craft Permit……$30.00*
Use of Small Craft Rack without a Permit……$75.00
Small Craft Removal Fee……$50.00
Post Boat Storage Boating Season Violation Fee……$25.00 per diem
Boat Slip at Feistner Beach~~.~~……$1,000/.00
*waived upon proof of adjusted annual gross income of $35,000 or less.

PLANNING AND ZONING FEES*

Comprehensive Plan Amendment Application Fee……$500.00
Conditional Use Permit Application Fee……$400.00
Home Occupation Permit Application Fee……$100.00
Interim Use Permit Application Fee……$400.00
Planned Unit Development Application Fee……$650.00
Rezoning Application Fee……$650.00
Subdivision: Minor Subdivision/Lot Split Application Fee……$225.00
Subdivision Preliminary Plat Application Fee……$450.00
Street Vacation……$150.00
Variance Application Fee……$600.00
Preliminary Plat Application Fee……$1,000.00
Final Plat Application Fee……$1,000.00

***subject to additional fees infra**

Zoning Permits: Shed, Driveway, or Fence…….$30.00
- (plus City Engineer's review time and materials)
Right-of-Way Permit Application Fee……...$250.00
- (plus time and materials for Engineer's review time extending beyond two hours; plus time and materials for utility locates)

PERMIT ESCROWS FOR DAMAGE

Subdivision…….$10,000
Lot Split……..n/a
Variance…….$3000
Conditional Use Permit……..$3000
(amended and new)
All other Land uses*……..$3000
(Including building, driveway, grading, fence and retaining wall permits)

*Unless specifically exempted by the City Administrator and/or Building Official pursuant to Chapter 301.055.

BUILDING PERMIT FEES

TOTAL VALUATION	FEE
$1.00 to $500.00	$29.50
$501.00 to $2,000.00	$23.50 for the first $500.00 plus $3.05 for each additional $100.00 or fraction thereof, to and including $2,000.00
$2001.00 to $25,000.00	$69.25 for the first $2,000.00 plus $14.00 for each additional $1,000.00 or fraction thereof, to and including $25,000.00
$25,001.00 to $50,000.00	$391.25 for the first $25,000.00 plus$10.10 for each additional $1,000.00 or fraction thereof, to and including $50,000.00
$50,001.00 to $100,000.00	$643.75 for the first $50,000.00 plus $7.00 for each additional $1,000.00 or fraction thereof, to and including $100,000.00.
$100,001.00 to $500,000.00	$993.75 for the first $100,000 plus $5.60 for each additional $1,000.00 or fraction thereof, to and including $500,000.00
$500,001.00 to $1,000,000.00	$3,233.75 for the first $500,000.00 plus$4.75 for each additional $1,000.00 or fraction thereof, to and including $1,000,000.00

$1,000,001.00 and up	$5,608.75 for the first $1,000,000.00 plus $3.15 for each additional $1,000.00 or fraction thereof.

DEMOLITION AND WRECKING OF BUILDINGS FEES

$25.00 for the first 1,000 square feet, plus $10.00 for each additional 1,000 square feet or fraction thereof. The minimum permit fee is $25.00.

SEAL COATING FEES

$4.50 per linear foot of roadway

GRADING FEES

Plan Review Fees:

100 cubic yards or less	No fee
101 to 1,000 cubic yards	$40
1,001 to 10,000 cubic yards	$50
10,001 to 100,000 cubic yards	$50 for first 10,000 cubic yards $25 for each additional 10,000 or fraction thereof.
101,000 to 200,000 cubic yards	$300 for first 100,000 cubic yards $15 for each additional 10,000 or fraction thereof.
200,001 cubic yards or more	$400 for first 200,000 cubic yards $10 for each additional 10,000 or fraction thereof.

Permit Fees:

100 cubic yards or less	$25
101 to 1,000 cubic yards	$40 for first 100 cubic yards $25 for each additional 100 or fraction thereof.
1,001 to 10,000 cubic yards	$200 for first 1,000 cubic yards $20 for each additional 1,000 or fraction thereof.
10,001 to 100,000 cubic yards	$350 for first 10,000 cubic yards $75 for each additional 10,000 or fraction thereof.
101,000 cubic yards or more	$1,000 for first 100,000 cubic yards $40 for each additional 10,000 or fraction thereof.

UTILITY CONNECTION FEES

Buildings or dwellings existing or constructed in the City of Birchwood Village must connect to the municipal water and sanitary sewer system so long as it is reasonably available. Prior to connecting to public utilities, the owner or representative must pay the following fees:

(a) Metropolitan Council Sewer Access Charge SAC fee as established by the Metropolitan Council per state statute MN 473.517.

(b.) City Sewer Connection (SAC) Fees.

(1) Per lot……$3,500.00

(c) Water Connection (WAC) Fees

(1) Per lot……$5,500.00

CERTIFICATE OF OCCUPANCY

If a permit shall require a certificate of occupancy, a fee of $10.00 shall be paid at the time of issuance.

PLUMBING PERMIT FEES

Plumbing Fixture Unit Fees:

Residential fee (minimum permit fee) ……$25.00

Non-Residential fee (minimum permit fee) ……$35.00

For each fixture or fixture opening……$10.00

For each gas piping outlet, stove, dryer etc. ……$5.00

For each water heater and/or vent……$30.00

For each lawn sprinkler system backflow protection device……$20.00

For each atmospheric-type vacuum breaker……$1.00

For each backflow protection device (other than items 6 & 7) ……$20.00

Clothes washers: First five or less……$20.00
For each additional unit……$7.00

For each flammable waste trap or catch basin……$5.00

For each sewage ejector……$15.00

For each water softener……$20.00

For each ground run for existing buildings……$15.00

For each water distribution piping extension or alteration……$20.00

For each rainwater leader……$10.00

Main gas line……$10.00

Sewer and Water: Unit Fee Schedule:

Street excavation/refundable deposit……$25.00/$1,500

For each water tap……$20.00

For each sewer tap……$20.00

For each residential water line installation or repair……$30.00

For each residential sewer line installation or repair……$30.00

For each non-residential water line installation or repair…….$45.00

For each non-residential sewer line installation or repair…….$45.00

For each hydrostatic and conductivity test……$45.00

Storm Sewer……$30.00

Value-Based Repairs/Alterations: Unit Fee Schedule:

Repair or alteration of any plumbing system based on value:

-First $100.00 (of value) ……$15.00

-For each additional $100.00 (of value) or fraction thereof……$2.00

Backflow Protection Test Filing Fee: For each RPZ or double check/double gate valve……$15.00

HEATING PERMIT FEES

For the installation of any new or replacement central heating and/or air conditioning system, or in floor heating with heat source, the permit fee is 1% of estimated cost or the minimum, whichever is greater.

Minimum Fee - Heating system……$60.00

Minimum Fee - Air Conditioning……$30.00

Minimum Fee - Heating and Air Conditioning……$90.00

(a) For each appliance or piece of equipment regulated by the code, but not classed in other appliance categories, or for which no other fee is listed in the code, the fee is 1% of the estimated cost or $25.00, whichever is greater.

(b) For the extension or alteration of ductwork in one and two family dwellings whereby the work is supplemental to a current building permit, the permit fee is 1% of the estimated value or $20.00, whichever is greater.

(c) For the installation or alteration of each process piping system, the fee is 1% of the estimated value or $30.00, whichever is greater.

(d) For the installation of a fireplace, the fee is 1% of the estimated cost or $25.00, whichever is greater.

(e) For a review of plans and other data the fee is equal to 25% of the permit fee or $ ##.00, whichever is greater.

ELECTRICAL FEES

Electrical fees shall be applied as established in Minnesota Statutes Section 326B.37.

FIRE SPRINKLER SYSTEM FEES

(a) For each fire suppression cooking hood extinguisher system……$30.00

(b) For each bath or tank system……$30.00

(c) For each automatic fire suppression system
1 to 10 heads, including risers……$30.00
Each additional 10 heads or fraction thereof……$3.00

(d) For each on site fire hydrant……$35.00

(e) Building standpipe systems per building……$50.00

(f) Fire Alarm……$30.00

(g) Fire Permit Plan Review Fee……50% of the permit fee

STATE SURCHARGE FEES

If the fee for the permit issued is fixed in amount the surcharge is equivalent to one-half mil (0.0005) of the fee or $5.00, whichever amount is greater. For all other permits the surcharge is as follows:

VALUATION OF STRUCTURE, ADDITION OR ALTERATION	SURCHARGE COMPUTATION
$1,000,000 or less	.0005 x valuation
$1,000,000 to $2,000,000	$500 + .0004 x (Value - $1,000.000)
$2,000,000 to $3,000,000	$900 + .0003 x (Value - $2,000,000)
$3,000,000 to $4,000,000	$1200 +.0002 x (Value - $ 3,000,000)
$4,000,000 to $5,000,000	$1400 +.0001 x (Value - $ 4,000,000)
Greater than $5,000,000	$1500 +.00005 x (Value - $ 5,000,000)

BUILDING MOVING FEES

The fee to move a building from its present location in Birchwood to any other site, whether or not the new site is within Birchwood, shall be $100.00.

WATER AND SEWER RELATED FEES

Water Use……$25/Qtr base fee plus:
Tier 1 - $2.66 per additional 748 gallons (GAL) up to 5,984 GAL;
Tier 2 - $3.07 per additional 748 GAL after 5,985 up to 14,961 GAL;
Tier 3 - $3.53 per additional 748 GAL after 14,962 up to 29,922 GAL;
Tier 4 - $4.07 per additional 748 GAL after 29,923 up to 74,805 GAL;
Tier 5 - $4.66 per additional 748 GAL after 74,805 GAL;
State Surcharge - $1.59
Sewer Fee (metered, quarterly) ……$40.00 base fee
PLUS: $3.50 per 748 GAL based on first quarter water consumption
~~Water Use……$21/Qtr base fee plus:~~
~~Tier 1 - $2.56 per additional 100 cubic feet (CF) up to 800 CF;~~
~~Tier 2 - $2.95 per additional 100 CF after 801 up to 2,000 CF;~~
~~Tier 3 - $3.39 per additional 100 CF after 2,001 up to 4,000 CF;~~
~~Tier 4 - $3.91 per additional 100 CF after 4,001 up to 10,000 CF;~~
~~Tier 5 - $4.48 per additional 100 CF after 10,000 CF;~~
~~State Surcharge - $1.59~~
~~Sewer Fee (metered, quarterly) ……$36.00 base fee~~
~~PLUS: $3.37 per 100 CF based on first quarter water consumption~~
Sewer Fee (unmetered, quarterly)…… ……..$80.00
Outside sewer/water installation or repair permit……..……..……$60.50
Turning water service on or off at street……$150.00
Water Meter Replacement (time and materials) ……$400.00 (plus $150/hr after first hour)
Self-install (approval required)…… ……$200.00
Utility Bill Late Fee……5% of the unpaid balance
ACH Discount……$2/Qtr
Utility Account Fees – Open……$25.00
Close……$25.00

ADDITIONAL FEES

Late Fee: In the event a person shall engage in conduct for which a permit or license is required without first paying the appropriate fee and obtaining the permit or license, the fee established shall be tripled or $50, whichever is greater.

Additional Fee: An additional fee, not to exceed actual expenses or the original amount of the fee (whichever is less), shall be paid if the City Council determines that the applicant has changed the project after submission of the initial application, or if it is necessary to conduct an excessive number of reinspections of the project in order to ensure compliance with the City Code or the terms of the permit of license.

Fines: Payment of any late fee or additional fees shall be in addition to any fines that may be imposed for violation of the City Code.

Additional fees paid when incurred by the City (examples below)

Other Inspections and Fees: All fees in this schedule are subject to the following charges when required by the City:

Building Official

- Inspections outside of normal business hours (min. charge – two hours) ……...$63.25 /hr*
- Re-inspection fee ……..……...$63.25 /hr*
- Inspection for which no fee is specifically indicated (min. charge – ½ hour)……..$63.25 /hr*
- Plan Review…….……..65% of the building permit fee
- Additional plan review for changes, additions or revisions to plans (min. ½ hour)……$63.25 / hr*

Engineer & Planner

- Consult and/or plan review (bldg., zoning, C.U.P., variance, etc.)…….….$10085.00 /hr*
- Inspections or both……..…….actual costs**

~~Planner~~

- ~~Consult and/or plan review (bldg., zoning, C.U.P., variance, etc.)……..$100.00 /hr*~~
- ~~Inspections or both……..…….actual costs**~~

Attorney

- Consult, review and/or analysis…….……...actual costs**

Other Professionals

- Consult, review, and/or inspect……actual costs**

*Or the total hourly cost to the city, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages, and fringe benefits of the employees involved, as well as any consulting fees

**Actual cost includes administrative and overhead costs, and attorney consultant review and analysis expenses

REFUNDS

The City will refund ½ of the fee for the permit or license if the applicant requests a refund within 15 days after the fee is paid and no action has been taken by the City on the request for the permit or license.

From: Mary Wingfield
To: Andy Gonyou
Subject: Jan agenda item
Date: Wednesday, January 5, 2022 10:37:50 AM

For consideration (from wbt public works):

When the Wildwood Lift station work takes place and if there are any SCADA changes on the master computer, can the old Birchwood 1 be removed from the screen at the same time? The second question is could there be a possibility to have some work a lift station 3 be included? There a two things, a standard size manhole casting and cover at the wet well and to remove all the brackets and tubing from the wet well from the old bubbler system that was originally used. These two items would make the work of cleaning the wet well a lot easier for Public Works.

From: Mary Wingfield
To: Andy Gonyou
Cc: Justin McCarthy; Alan kantrud
Subject: Jan agenda item: Hall"s Marsh Sediment Investigation
Date: Wednesday, January 5, 2022 10:12:49 AM
Attachments: 2021-12-26 TEI Report - Birchwood Village - Halls Marsh.pdf

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Here is Pace report.

The analysis is on page 6 and the conclusions and recommendations are on page 7.

Next steps:

1. Demand RCWD take responsibility for cleaning out toxic soil from hall.s marsh

2. Demand RCWD install pollution control weir/control measures upstream before drainage enters Birchwood

3. Other thoughts

December 26, 2021

City of Birchwood Village
Attn: Andy Gonyou
City Administrator
207 Birchwood Avenue
Birchwood, MN 55110

Re: Hall's Marsh
Sediment Investigation

Dear Mr. Gonyou:

As requested by the City Council, Thatcher Engineering Inc. (TEI) has prepared this report.

Background

Minnesota Public Waters (Department of Natural Resources (DNR) #82-480W) is known as Hall's Marsch and is located primarily in the City of Birchwood Village (City). The City and several property owners own the underlying land. The U.S. Fish and Wildlife Service wetlands mapper website shows that the total area of Hall's Marsh is 7.44 acres and is classified as 5.63 acres of Freshwater Emergent Wetland and 1.81 acres of Freshwater Pond.

Minnesota Public Waters (DNR #62-38P) is known as Priebe Lake and is located in the City of White Bear Lake. Several property owners own the underlying land. The U.S. Fish and Wildlife Service wetlands mapper website shows that the total area of Priebe Lake is 5.33 acres and is classified as 5.33 acres of Freshwater Pond Excavated by Humans. The Public Waters map for Washington County (Appendix #1) shows both Hall's Marsh and Priebe Lake. Prior to about 1979, stormwater entering Priebe Lake did not flow to Hall's Marsh and then to White Bear Lake (This stormwater likely infiltrated into the ground).

In or about 1979, Rice Creek Watershed District (RCWD) constructed an approximately 4,500 foot long (36 inch to 48 inch diameter) reinforced concrete stormsewer pipe (Pipe) from Priebe Lake to Hall's Marsh. Thus, for approximately 42 years, stormwater entering Priebe Lake has flowed from Proebe Lake to Hall's Marsh, through Hall's Marsh, and then to White Bear Lake.

The years of stormwater flow from Priebe Lake may have contaminated the sediment in Hall's Marsh.

TEI understands that a portion of Hall's Marsh property was conveyed to the City by an Indenture of Title dated June 9, 1976 which requires that the property conveyed is specifically dedicated for, and is to be preserved as, a wildlife sanctuary into perpetuity.

Background: Minnesota Pollution Control Agency Information

Minnesota Pollution Control Agency (MPCA) Managing Stormwater Sediment Best Management Practices Guidance dated May 2017 states the following:

1. Stormwater collection and conveyance systems help protect infrastructure from flooding and they collect and concentrate pollutants to prevent them from reaching lakes, rivers, streams, wetlands, and other waters of the state where they could have a negative effect on water quality, aquatic animals, or human health. Managing contamination and pollutants in stormwater collection and conveyance systems should be expected and sampling is required prior to disposal, or beneficial use (e.g. fill, topsoil, or compost) to determine proper management.

2. Action was taken during the 2009 Minnesota Legislative session, which included funding to conduct research on stormwater pond sediment contamination and to help Minnesota cities clean-out contaminated stormwater ponds. (House File Number 1231 Passed by the Minnesota Legislature on May 18, 2009, and approved by Governor Tim Pawlenty on May 22, 2009.)

3. Research concluded that polycyclic aromatic hydrocarbons (PAHs) are often responsible for the greatest contamination problems in stormwater pond sediment (Crane et al. 2010). Research conducted on stormwater pond sediments in the Minneapolis-St. Paul, Minnesota metropolitan area showed that PAHs are the primary contaminants of concern affecting disposal decisions (Polta et al. 2006; Crane et al. 2010). PAHs persist in the environment and pose a risk to animals, plants, and people at elevated concentrations. These contaminants are formed by the incomplete combustion of organic materials, such as wood, oil, and coal, as well as occurring naturally in crude oil and coal (Crane et al. 2010).

4. Coal tar-based sealants are a major source of PAHs in urban sediments where these products are used in the surrounding watershed (Mahler et al. 2012). The MPCA's research (Crane 2014) determined that coal tar-based sealants were the most important source of PAHs (67.1%), followed by vehicle emissions (cars and trucks) (29.5%) and pine wood combustion (3.4%).

5. The Legislation also provided funding for municipalities who pass ordinances banning or restricting the use of coal tar-based sealants. Twenty-nine municipalities passed such ordinances before legislation in the spring of 2013 banned coal tar-based sealants state wide effective January 1, 2014 (Minn. Stat. § 116.202).

6. Sediment may also be generated in other stormwater collection devices such as rain gardens, infiltration swales, sumps, traps, pipes, and/or other conveyance structures. This guidance may be adapted for other situations to determine representative contaminant concentrations. The analytical component outlined in this guidance may be applied to other sediment sampling situations, but the MPCA does not have specific sampling guidance at this time for those situations and it is not necessary to follow this guidance for other types

of sediment removal projects. The sampling guidance provided is strictly for sampling sediment from stormwater ponds that have been designed, constructed, operated, and maintained for the purpose of providing treatment of stormwater.

7. The high cost to manage contaminated stormwater sediment has brought operation and maintenance of stormwater ponds into the public spotlight. Disposal costs for stormwater sediment removal projects with contamination exceeding the industrial soil reference values is regulated as a solid waste and the cost for disposal can be as much as three times more expensive than uncontaminated sediment depending on the type and level of contamination. The high cost to manage contaminated sediment emphasizes the importance of source control to reduce the loading of contamination into stormwater ponds.

8. Evaluating and testing sediment:

    a. Sediment samples are collected and compared to MPCA's Remediation Division soil reference values (SRVs) to determine where excavated sediment may be beneficially used or disposed.

    b. There are two sets of SRVs based on the following remediation soil land use categories:

        i. Residential land includes lawn surrounding single family housing and newly developed single family residences, multi-family housing, condominiums, playgrounds, sports fields, beaches, produce gardens, long-term care facilities, correctional housing, hospitals, campgrounds, child care centers, churches, schools, wildlife areas, local/state/national forests, and public or private erodible trails.

        ii. Industrial land includes lawns, yards, and landscaping that surround hotels, office buildings, retail stores, shopping centers, and restaurants and industrial property, public utility facilities, rail and freight facilities, storage facilities, warehouses, office buildings, and manufacturing facilities.

    c. The analytical results and calculation of B[a]P equivalents are compared to the MPCA's Remediation Divisions SRV values to determine management or treatment options.

    d. Management options include:

        i. <u>Use of excavated sediment as unregulated fill.</u> Contaminant concentrations from the list of analytes, including cPAHs expressed as B[a]P equivalents and any other site-specific contaminants, are all below the Residential SRVs. The excavated sediment is unregulated fill and does not require any special management. Excavated sediment may be reused in accordance with

the MPCA's BMPs for the Off-Site Use of Unregulated Fill available at: http://www.pca.state.mn.us/index.php/view-document.html?gid=13503.

ii. Determination of excavated soil as regulated solid waste. One or more of the required list of analytes, including cPAHs expressed as B[a]P equivalents and any other site-specific contaminants, exceed the Residential SRVs but do not exceed the Industrial SRVs. The excavated sediment requires special management and cannot be used as unregulated fill.

iii. Excavated sediment that is not considered unregulated fill is most commonly guided to a solid waste landfill. Depending on the types and concentrations of contaminants, sediment may need to be disposed of at a Municipal Solid Waste (MSW) landfill that has an industrial solid waste management plan; that do accept contaminated soils. This means contaminated sediment must go to a MSW landfill that has a liner and a leachate collection system.

MPCA Soil Reference Value Technical Support Document dated May 2017 states the following:

1. Soil Reference Values (SRVs) are risk-based values derived to assess potential human health exposures from soil at a Remediation cleanup site using a reasonable maximum exposure (RME) scenario. RME scenarios are intended to protect an entire population without being overly conservative by using reasonable upper bound estimates for the most sensitive exposure parameters and central tendency estimates for less sensitive exposure parameters. They are derived based on the U.S. Environmental Protection Agency's (EPA) Superfund methodology using exposure assumptions based on specific land use categories depicting a specific land use scenario and set of receptors (people).

2. SRVs were derived to represent chronic, long-term exposures to a contaminant.

3. SRVs are intended to evaluate both potential non-cancer and cancer risks associated with a contaminant present in soil. Two separate SRVs are calculated for each contaminant, one for non-cancer risk and one for cancer risk. The final SRV reported as the Residential or Industrial SRV is the lower of the two. In other words, it is the smallest concentration of the contaminant that could potentially pose either a non-cancer or cancer risk. For example, for contaminant "X", if the non-cancer SRV is 10 mg/kg and the cancer SRV is 5 mg/kg, then the final SRV is reported as 5 mg/kg.

4. Since stormwater sediment removed from the stormwater pond is being evaluated for use on dry land as soil, SRVs are an appropriate conservative risk based values to evaluate potential human health risks.

5. The Residential/Recreational land use category includes single family homes; multi-family housing; facilities that house or care for potentially sensitive populations, such as long-term care facilities, correctional housing, hospitals, child care centers, churches, and

schools; and land used for recreational purposes, ranging from playgrounds and sports fields to wildlife areas. The general exposure assumptions associated with this land use category include use of the property by all ages, with expected contact with soil in the accessible zone and varying degrees of contact with soil in the potentially accessible zone, depending on the specific scenario. One set of SRVs – Residential/Recreational SRVs – applies to all of these scenarios.

6. The Commercial/Industrial land use category includes warehouses, offices, manufacturing facilities, restaurants, retail stores, entertainment venues, hotels, and other similar uses. The Commercial land use category includes use of the property by all ages, although children are not expected to spend a significant amount of time at the property. The Industrial land use category includes use of the property by adult workers. In both scenarios, people are expected to have a lesser degree of contact with soil as compared to the Residential/Recreational land use category. One set of generic SRVs – Commercial/Industrial SRVs – applies to all of these scenarios.

7. Both the Residential/Recreational and Commercial/Industrial land use categories include the concept of an Accessible Zone (0 to 4 feet below ground surface (bgs) in greenspace areas and Potentially Accessible Zone (4 to 12 feet bgs in greenspace areas) to describe different soil depths that a receptor (person) is expected to access.

8. In the Accessible Zone, contaminant concentrations that are less than the Residential/Recreational SRVs protect people from exposure to contaminated soil at the land surface and while gardening, planting trees, installing fence posts, etc. Meeting these values down to four feet below ground surface protects people from exposure to contaminated soil while digging during activities such as planting trees and volunteer-driven site improvements.

Objective

The objective of this sediment investigation is to collect and test sediment from Hall's Marsh.

Sample Collection and Testing

On November 30, 2021, sediment samples were collected by TEI from two areas of Hall's Marsh. The locations are shown on a location map (Appendix #2) and described as follows:.

1. Sampling Area #1 (SA #1) was in the northwest part of Hall's Marsh near the Hall's Marsh end of the Pipe that carries stormwater from Priebe Lake into Hall's Marsh.

2. Sampling Area #2 (SA #2) is on the south portion of Hall's Marsh approximately half way between SA #1 and the outlet pipe that carries stormwater from Hall's Marsh's to White Bear Lake.

At SA #1, technicians collected one composite sediment sample. The sample was obtained by the collection of 3 sediment samples from randomly selected locations near SA #1 using an AMS coring sampler, placing samples in a clean container, mixing thoroughly, and removing a single sample. Each of the 3 sediment samples collected contained sediment from the ground surface to 30 inches below the ground surface.

At SA #2, technicians collected one composite sediment sample using the same procedures used at SA #1.

Both composite samples were delivered to Pace Analytical for testing and each sample was analyzed for the following:

1. Arsenic
2. Copper
3. Extended list of Polycyclic Aromatic Hydrocarbons (PAH's) as shown in Table A-1 (page 18) of MPCA Managing Stormwater Sediment Best Management Practices Guidance dated May 2017.

Sediment sampling, parameters (contaminants) to test, and analysis was conducted in accordance with the requirements of MPCA Managing Stormwater Sediment Best Management Practices Guidance dated May 2017.

Analysis

Pace Analytical conducted tests on both composite sediment samples and prepared a report dated December 14, 2021 (Appendix #3). A summary of the results is in Appendix #4 and as follows:.

1. Analytical results of tests on sediment from SA #1 show:

    a. Benzo[a]pyrene (B[a]P) equivalents were detected. The concentration of B[a]P equivalents in SA #1 was 2.401 mg/kg. The B[a]P equivalents concentration in SA #1 was 20% greater than the MPCA residential threshold Soil Reference Value (SRV) of 2.0 mg/kg. The B[a]P equivalents concentration in SA #1 was less than the MPCA industrial threshold SRV of 23.0 mg/kg.

    b. Sediment from SA #1 is not suitable for residential land use, but is suitable for industrial land use.

    c. Sediment from SA #1 is classified as a carcinogen to humans by the MPCA.

    d. Sediment from SA #1 is a cancer risk to humans because its SRV is above the MPCA's SRV of 2.0 mg/kg.

2. Analytical results of tests on sediment from SA #2 show:

    a. B[a]P equivalents was detected. The concentration of B[a]P equivalents in SA #2 was 0.217 mg/kg. The B[a]P equivalents concentration in SA #2 was less than the MPCA residential threshold SRV of 2.0 mg/kg.

    b. Sediment from SA #1 is suitable for both residential and industrial land use.

    c. Sediment from SA #2 is not classified as a carcinogen to humans by the MPCA.

    d. Sediment from SA #2 is not a cancer risk to humans because its SRV is below the MPCA's SRV of 2.0 mg/kg.

3. The concentration of B[a]P equivalents in SA #1 (2.401 mg/kg) was 11 times greater than the concentration of B[a]P equivalents in SA #2 (0.217 mg/kg).

Conclusions

1. The concentration of contamination in the sediment near the location where stormwater from Priebe Lake enters Hall's Marsh was 11 times greater than the concentration of contamination in the sediment approximately half the distance from where stormwater from Priebe Lake enters Hall's Marsh and where it exists Hall's Marsh.

2. The likely root cause of the contamination is stormwater from Priebe Lake.

Recommendations

TEI recommends the following to the City of Birchwood Village:

1. Share this report with Rice Creek Watershed District.

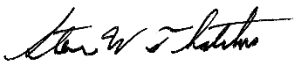
2. Conduct further investigations to determine the horizontal and vertical extent of the contamination.

Standard of Care

This report is for the exclusive use of the party to which it has been addressed. Without written approval, TEI assumes no responsibility to other parties regarding this report. Our evaluation, analysis, recommendations, and conclusions may not be appropriate for other parties or projects. TEI's services for this project were performed in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in this area under similar budget and time restraints. No warranty, expressed or implied, is made.

Let me know if you want any further information.

Very truly yours,



Steven W. Thatcher, P.E.
Thatcher Engineering Inc.
sthatcher@thatcher-eng.com

APPENDIX #1

Public Waters

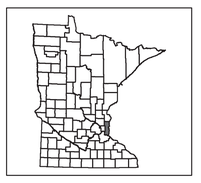
Washington County Minnesota

Public Waters are defined in *Minnesota Statutes*, section 103G.005. The boundaries of public waters shown on this map are approximate. A public water boundary coincides with the ordinary high water level as defined in *Minnesota Statutes*, section 103G.005 and is determined through DNR field inspection or survey. Public waters are subject to regulation as per *Minnesota Statutes*, section 103G.245. Current designated trout streams are listed in *Minnesota Rules*, part 6264.0050. Shaded Public Land Survey sections may contain designated trout stream tributaries (see *Minnesota Rules*, part 6264.0050) subject to permit requirements. Additional public watercourses may exist within these sections, subject to field determination. It is incumbent upon a person contemplating work in a public watercourse to investigate whether said watercourse is a designated trout stream regardless of whether said public watercourse is depicted on this map. **Note:** As stated in *Minnesota Statutes*, section 103G.205, the designation of waters of this state as public waters ***does not*** affect state law forbidding trespass on private lands. Contact the DNR office in your area for further information or visit http://mndnr.gov.

Legend

- Public Water Basin or Wetland
- Public Water Watercourse
- Public Ditch/Altered Natural Watercourse
- Other Watercourse, Not a Public Watercourse
- Interstate Highway
- Federal Trunk Highway
- State Trunk Highway
- City Streets & Township Roads
- PLS40 Section Line
- PLS40 Township Line
- Municipal Boundaries
- *Public Land Survey Sections Containing Designated Trout Stream Tributaries*
- Washington County
- Adjacent Counties

Locator Map:

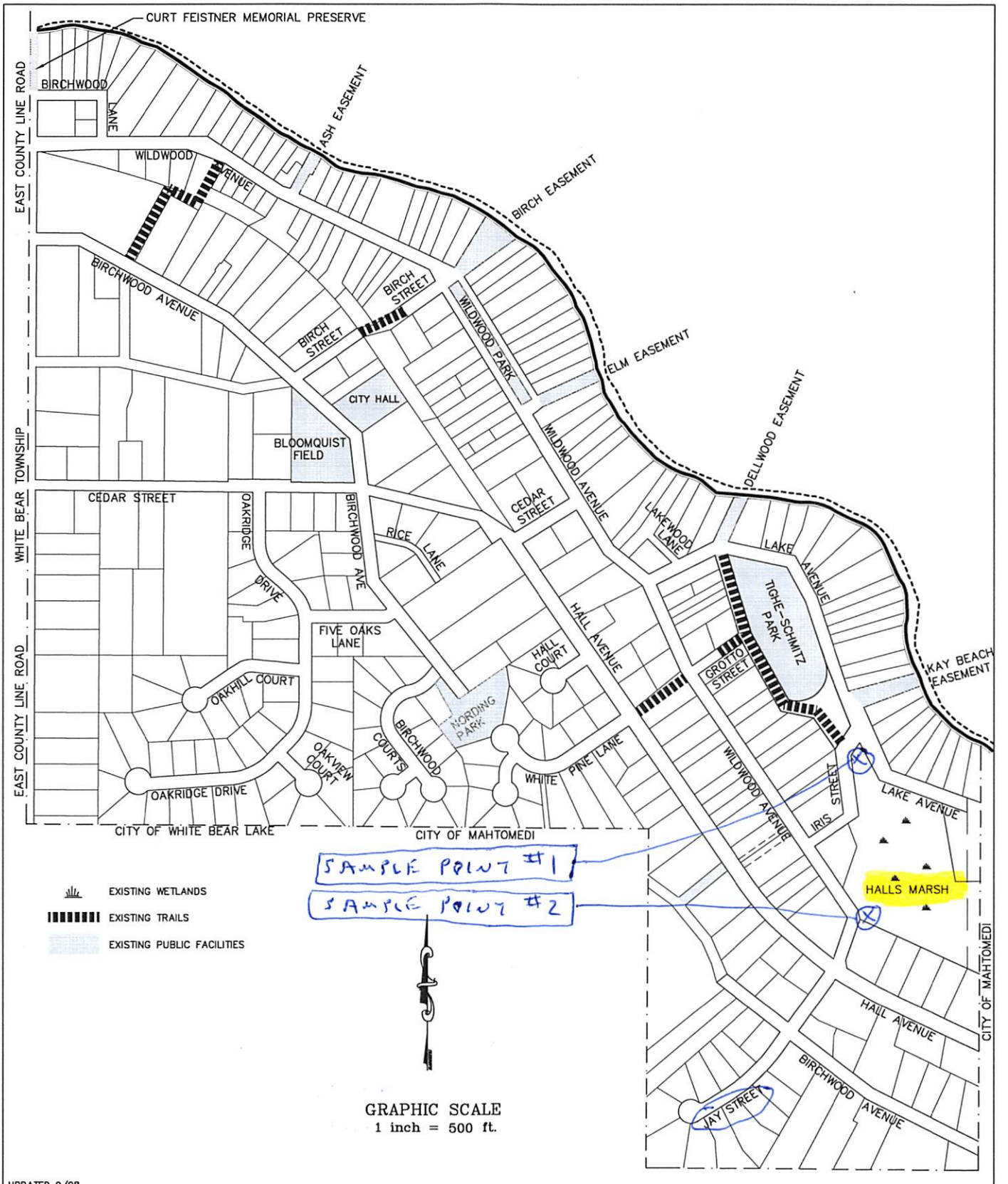


Scale: Convert map units to miles

0 0.5 1 2 3 4
Miles

The DNR Information Center
Twin Cities: (651) 296-6157
Minnesota toll free: 1-888-646-6367
Telecommunication device for the hearing impaired (TDD): (651) 296-5484
TDD Minnesota toll free: 1-800-657-3929
DNR web site: http://mndnr.gov

APPENDIX #2



ELFERING & ASSOCIATES

TRUE NORTH

10062 FLANDERS COURT NE
BLAINE, MN 55449
PH: (763) 780-0450
FAX: (763) 780-0452

CITY OF BIRCHWOOD VILLAGE
PARK AND TRAIL SYSTEM

FIGURE
VI

HALL'S MARSH

10/1/21

APPENDIX #3

Pace Analytical® Services, LLC 1700
Elm Street SE Minneapolis, MN
55414 Phone: 612.607.1700
www.pacelabs.com

December 14, 2021

Mr. Steven Thatcher
Thatcher Engineering
6201 Creek Valley Rd.
Edina, MN 55459

RE: Pace Field Project No. 21-05337 Lab ID: 10589420
Client Project ID: Thatcher Engineering - Hall's Marsh Sediments 2021

Dear Mr. Thatcher,

Enclosed are the analytical results for the sediment samples collected for Thatcher Engineering's Hall's Marsh sediment sampling project in Birchwood Village, MN. On November 30, 2021, samples were collected from two regions of one storm water basin to form one composite sample for each region. These regions were identified as SA #1 (near the sediment pond inlet) and SA #2 (near the southwest region) of the sediment basin. Core samples were collected from ranges of 0"-30". Samples were placed on wet ice and transported to the Minneapolis laboratory for analysis.

Soil Reference Values for B[a]P equivalents were calculated by Pace Field Services from analytical results provided by the laboratory. The Soil Reference Values indicate that sediment from this storm-water basin is not suitable for residential land applications, but is suitable for industrial land applications.

The following documents are included with this submittal:

1. Cover Letter
2. Lab Report
3. SRV Calculation Results
4. Field Data Sheets
5. Site Maps

Thank you for the opportunity to serve Thatcher Engineering. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Pelosi
Project Manager
612-597-7254

State of Minnesota Laboratory No. 027-053-137

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

December 14, 2021

Chris Pelosi
Pace Analytical Services - Field Services
1700 Elm Street SE
Minneapolis, MN 55414

RE: Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Dear Chris Pelosi:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Anderson
jennifer.anderson@pacelabs.com
(612)607-6436
Project Manager

Enclosures

cc: Riley Jacobson, Pace Analytical Services - Field Services

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10589420001	**SA #1**	Solid	11/30/21 13:30	11/30/21 15:07
10589420002	**SA #2**	Solid	11/30/21 14:30	11/30/21 15:07

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10589420001	**SA #1**	EPA 6020B	RJS	2
		ASTM D2974	JDL	1
		EPA 8270E by SIM	JNG	39
10589420002	**SA #2**	EPA 6020B	RJS	2
		ASTM D2974	JDL	1
		EPA 8270E by SIM	JNG	39

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Sample: SA #1 **Lab ID: 10589420001** Collected: 11/30/21 13:30 Received: 11/30/21 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis								
Arsenic	**1.2**	mg/kg	0.80	0.17	1	12/07/21 11:28	12/12/21 22:29	7440-38-2	
Copper	**14.4**	mg/kg	1.6	0.39	1	12/07/21 11:28	12/12/21 22:29	7440-50-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**42.0**	%	0.10	0.10	1		12/01/21 14:10		N2
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis								
Acenaphthene	**0.027**	mg/kg	0.017	0.0019	1	12/01/21 15:03	12/07/21 19:15	83-32-9	
Acenaphthylene	**0.025**	mg/kg	0.017	0.0032	1	12/01/21 15:03	12/07/21 19:15	208-96-8	M1,R1
Anthracene	**0.11**	mg/kg	0.017	0.0011	1	12/01/21 15:03	12/07/21 19:15	120-12-7	M1,R1
Benzo(a)anthracene	**0.48**	mg/kg	0.017	0.0015	1	12/01/21 15:03	12/07/21 19:15	56-55-3	M1,R1
Benzo(a)pyrene	**0.52**	mg/kg	0.017	0.0018	1	12/01/21 15:03	12/07/21 19:15	50-32-8	M1,R1
Benzo(e)pyrene	**0.40**	mg/kg	0.017	0.0023	1	12/01/21 15:03	12/07/21 19:15	192-97-2	M1,R1
Benzo(g,h,i)perylene	**0.38**	mg/kg	0.017	0.0043	1	12/01/21 15:03	12/07/21 19:15	191-24-2	M1,R1
Benzofluoranthenes (Total)	**1.1**	mg/kg	0.052	0.0071	1	12/01/21 15:03	12/07/21 19:15		M1,N2,R1
Carbazole	**0.039**	mg/kg	0.017	0.0017	1	12/01/21 15:03	12/07/21 19:15	86-74-8	
2-Chloronaphthalene	**<0.0019**	mg/kg	0.017	0.0019	1	12/01/21 15:03	12/07/21 19:15	91-58-7	
Chrysene	**0.74**	mg/kg	0.086	0.0084	5	12/01/21 15:03	12/08/21 19:14	218-01-9	M1,R1
Dibenz(a,h)acridine	**0.023**	mg/kg	0.017	0.0017	1	12/01/21 15:03	12/07/21 19:15	226-36-8	R1
Dibenz(a,h)anthracene	**0.099**	mg/kg	0.017	0.0014	1	12/01/21 15:03	12/07/21 19:15	53-70-3	R1
Dibenz(a,j)acridine	**0.0081J**	mg/kg	0.017	0.0059	1	12/01/21 15:03	12/07/21 19:15	224-42-0	L2,M0,R1
Dibenzo(a,e)pyrene	**0.19**	mg/kg	0.017	0.0023	1	12/01/21 15:03	12/07/21 19:15	192-65-4	M1,R1
Dibenzo(a,h)pyrene	**0.099**	mg/kg	0.017	0.0023	1	12/01/21 15:03	12/07/21 19:15	189-64-0	R1
Dibenzo(a,i)pyrene	**0.028**	mg/kg	0.017	0.0037	1	12/01/21 15:03	12/07/21 19:15	189-55-9	R1
Dibenzo(a,l)pyrene	**0.012J**	mg/kg	0.017	0.0085	1	12/01/21 15:03	12/07/21 19:15	191-30-0	R1
7H-Dibenzo(c,g)carbazole	**0.015J**	mg/kg	0.017	0.0026	1	12/01/21 15:03	12/07/21 19:15	194-59-2	R1
Dibenzofuran	**0.013J**	mg/kg	0.017	0.0014	1	12/01/21 15:03	12/07/21 19:15	132-64-9	
7,12-Dimethylbenz(a)anthracene	**<0.0012**	mg/kg	0.017	0.0012	1	12/01/21 15:03	12/07/21 19:15	57-97-6	
Fluoranthene	**1.6**	mg/kg	0.086	0.0066	5	12/01/21 15:03	12/08/21 19:14	206-44-0	M1,R1
Fluorene	**0.039**	mg/kg	0.017	0.0010	1	12/01/21 15:03	12/07/21 19:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.35**	mg/kg	0.017	0.0015	1	12/01/21 15:03	12/07/21 19:15	193-39-5	M1,R1
3-Methylcholanthrene	**0.0094J**	mg/kg	0.017	0.0045	1	12/01/21 15:03	12/07/21 19:15	56-49-5	R1
5-Methylchrysene	**<0.0016**	mg/kg	0.017	0.0016	1	12/01/21 15:03	12/07/21 19:15	3697-24-3	R1
1-Methylnaphthalene	**<0.0035**	mg/kg	0.017	0.0035	1	12/01/21 15:03	12/07/21 19:15	90-12-0	M1
2-Methylnaphthalene	**<0.0035**	mg/kg	0.017	0.0035	1	12/01/21 15:03	12/07/21 19:15	91-57-6	M1
Naphthalene	**<0.0042**	mg/kg	0.017	0.0042	1	12/01/21 15:03	12/07/21 19:15	91-20-3	M1
5-Nitroacenaphthene	**<0.0055**	mg/kg	0.017	0.0055	1	12/01/21 15:03	12/07/21 19:15	602-87-9	R1
6-Nitrochrysene	**<0.0055**	mg/kg	0.017	0.0055	1	12/01/21 15:03	12/07/21 19:15	7496-02-8	M1
2-Nitrofluorene	**0.015J**	mg/kg	0.017	0.0071	1	12/01/21 15:03	12/07/21 19:15	607-57-8	N2,R1
1-Nitropyrene	**<0.0081**	mg/kg	0.017	0.0081	1	12/01/21 15:03	12/07/21 19:15	5522-43-0	N2

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Sample: SA #1 **Lab ID: 10589420001** Collected: 11/30/21 13:30 Received: 11/30/21 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis								
4-Nitropyrene	**<0.0066**	mg/kg	0.017	0.0066	1	12/01/21 15:03	12/07/21 19:15	57835-92-4	N2
Perylene	**0.12**	mg/kg	0.017	0.0024	1	12/01/21 15:03	12/07/21 19:15	198-55-0	M1,R1
Phenanthrene	**0.73**	mg/kg	0.086	0.0070	5	12/01/21 15:03	12/08/21 19:14	85-01-8	M1,R1
Pyrene	**1.3**	mg/kg	0.086	0.0081	5	12/01/21 15:03	12/08/21 19:14	129-00-0	M1,R1
Surrogates									
2-Fluorobiphenyl (S)	46	%.	38-125		1	12/01/21 15:03	12/07/21 19:15	321-60-8	
p-Terphenyl-d14 (S)	39	%.	31-125		1	12/01/21 15:03	12/07/21 19:15	1718-51-0	

Sample: SA #2 **Lab ID: 10589420002** Collected: 11/30/21 14:30 Received: 11/30/21 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3050B Pace Analytical Services - Minneapolis								
Arsenic	**0.52J**	mg/kg	0.72	0.16	1	12/07/21 11:28	12/12/21 22:32	7440-38-2	
Copper	**15.0**	mg/kg	1.4	0.35	1	12/07/21 11:28	12/12/21 22:32	7440-50-8	
Dry Weight / %M by ASTM D2974	Analytical Method: ASTM D2974 Pace Analytical Services - Minneapolis								
Percent Moisture	**33.5**	%	0.10	0.10	1		12/01/21 14:10		N2
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis								
Acenaphthene	**<0.0017**	mg/kg	0.015	0.0017	1	12/01/21 15:03	12/07/21 20:49	83-32-9	
Acenaphthylene	**0.014J**	mg/kg	0.015	0.0028	1	12/01/21 15:03	12/07/21 20:49	208-96-8	
Anthracene	**0.0075J**	mg/kg	0.015	0.00096	1	12/01/21 15:03	12/07/21 20:49	120-12-7	
Benzo(a)anthracene	**0.032**	mg/kg	0.015	0.0013	1	12/01/21 15:03	12/07/21 20:49	56-55-3	
Benzo(a)pyrene	**0.045**	mg/kg	0.015	0.0016	1	12/01/21 15:03	12/07/21 20:49	50-32-8	
Benzo(e)pyrene	**0.036**	mg/kg	0.015	0.0020	1	12/01/21 15:03	12/07/21 20:49	192-97-2	
Benzo(g,h,i)perylene	**0.039**	mg/kg	0.015	0.0037	1	12/01/21 15:03	12/07/21 20:49	191-24-2	
Benzofluoranthenes (Total)	**0.093**	mg/kg	0.045	0.0062	1	12/01/21 15:03	12/07/21 20:49		N2
Carbazole	**0.0036J**	mg/kg	0.015	0.0015	1	12/01/21 15:03	12/07/21 20:49	86-74-8	
2-Chloronaphthalene	**<0.0017**	mg/kg	0.015	0.0017	1	12/01/21 15:03	12/07/21 20:49	91-58-7	
Chrysene	**0.045**	mg/kg	0.015	0.0015	1	12/01/21 15:03	12/07/21 20:49	218-01-9	
Dibenz(a,h)acridine	**0.0022J**	mg/kg	0.015	0.0015	1	12/01/21 15:03	12/07/21 20:49	226-36-8	
Dibenz(a,h)anthracene	**0.0094J**	mg/kg	0.015	0.0012	1	12/01/21 15:03	12/07/21 20:49	53-70-3	
Dibenz(a,j)acridine	**<0.0051**	mg/kg	0.015	0.0051	1	12/01/21 15:03	12/07/21 20:49	224-42-0	L2
Dibenzo(a,e)pyrene	**0.020**	mg/kg	0.015	0.0020	1	12/01/21 15:03	12/07/21 20:49	192-65-4	
Dibenzo(a,h)pyrene	**0.013J**	mg/kg	0.015	0.0020	1	12/01/21 15:03	12/07/21 20:49	189-64-0	
Dibenzo(a,i)pyrene	**<0.0032**	mg/kg	0.015	0.0032	1	12/01/21 15:03	12/07/21 20:49	189-55-9	
Dibenzo(a,l)pyrene	**<0.0074**	mg/kg	0.015	0.0074	1	12/01/21 15:03	12/07/21 20:49	191-30-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Sample: SA #2 **Lab ID: 10589420002** Collected: 11/30/21 14:30 Received: 11/30/21 15:07 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3550C Pace Analytical Services - Minneapolis								
7H-Dibenzo(c,g)carbazole	**<0.0023**	mg/kg	0.015	0.0023	1	12/01/21 15:03	12/07/21 20:49	194-59-2	
Dibenzofuran	**<0.0012**	mg/kg	0.015	0.0012	1	12/01/21 15:03	12/07/21 20:49	132-64-9	
7,12-Dimethylbenz(a)anthracene	**<0.0010**	mg/kg	0.015	0.0010	1	12/01/21 15:03	12/07/21 20:49	57-97-6	
Fluoranthene	**0.084**	mg/kg	0.015	0.0012	1	12/01/21 15:03	12/07/21 20:49	206-44-0	
Fluorene	**0.0022J**	mg/kg	0.015	0.00090	1	12/01/21 15:03	12/07/21 20:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.034**	mg/kg	0.015	0.0013	1	12/01/21 15:03	12/07/21 20:49	193-39-5	
3-Methylcholanthrene	**<0.0039**	mg/kg	0.015	0.0039	1	12/01/21 15:03	12/07/21 20:49	56-49-5	
5-Methylchrysene	**<0.0014**	mg/kg	0.015	0.0014	1	12/01/21 15:03	12/07/21 20:49	3697-24-3	
1-Methylnaphthalene	**<0.0031**	mg/kg	0.015	0.0031	1	12/01/21 15:03	12/07/21 20:49	90-12-0	
2-Methylnaphthalene	**<0.0031**	mg/kg	0.015	0.0031	1	12/01/21 15:03	12/07/21 20:49	91-57-6	
Naphthalene	**<0.0037**	mg/kg	0.015	0.0037	1	12/01/21 15:03	12/07/21 20:49	91-20-3	
5-Nitroacenaphthene	**<0.0048**	mg/kg	0.015	0.0048	1	12/01/21 15:03	12/07/21 20:49	602-87-9	
6-Nitrochrysene	**<0.0048**	mg/kg	0.015	0.0048	1	12/01/21 15:03	12/07/21 20:49	7496-02-8	
2-Nitrofluorene	**<0.0062**	mg/kg	0.015	0.0062	1	12/01/21 15:03	12/07/21 20:49	607-57-8	N2
1-Nitropyrene	**<0.0071**	mg/kg	0.015	0.0071	1	12/01/21 15:03	12/07/21 20:49	5522-43-0	N2
4-Nitropyrene	**<0.0057**	mg/kg	0.015	0.0057	1	12/01/21 15:03	12/07/21 20:49	57835-92-4	N2
Perylene	**0.015**	mg/kg	0.015	0.0021	1	12/01/21 15:03	12/07/21 20:49	198-55-0	
Phenanthrene	**0.024**	mg/kg	0.015	0.0012	1	12/01/21 15:03	12/07/21 20:49	85-01-8	
Pyrene	**0.075**	mg/kg	0.015	0.0014	1	12/01/21 15:03	12/07/21 20:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%.	38-125		1	12/01/21 15:03	12/07/21 20:49	321-60-8	
p-Terphenyl-d14 (S)	64	%.	31-125		1	12/01/21 15:03	12/07/21 20:49	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

QC Batch: 787324
QC Batch Method: EPA 3050B
Analysis Method: EPA 6020B
Analysis Description: 6020B Solids UPD5
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10589420001, 10589420002

METHOD BLANK: 4191369 Matrix: Solid
Associated Lab Samples: 10589420001, 10589420002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.10	0.47	0.10	12/12/21 22:22	
Copper	mg/kg	0.38J	0.94	0.23	12/12/21 22:22	

LABORATORY CONTROL SAMPLE: 4191370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	41.5	85	80-120	
Copper	mg/kg	49	44.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4191371 4191372

Parameter	Units	10589816023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.0	56.4	54.3	52.3	47.0	87	81	75-125	11	20	
Copper	mg/kg	18.0	56.4	54.3	69.6	63.0	91	83	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

QC Batch: 786693
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight / %M by ASTM D2974
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10589420001, 10589420002

SAMPLE DUPLICATE: 4187814

Parameter	Units	10589484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	21.9	22.0	1	30	N2

SAMPLE DUPLICATE: 4187819

Parameter	Units	10589348001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.2	0	30	N2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

QC Batch: 786704
QC Batch Method: EPA 3550C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E CPAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10589420001, 10589420002

METHOD BLANK: 4187882 Matrix: Solid
Associated Lab Samples: 10589420001, 10589420002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	<0.0020	0.010	0.0020	12/07/21 15:34	
1-Nitropyrene	mg/kg	<0.0047	0.010	0.0047	12/07/21 15:34	N2
2-Chloronaphthalene	mg/kg	<0.0011	0.010	0.0011	12/07/21 15:34	
2-Methylnaphthalene	mg/kg	<0.0021	0.010	0.0021	12/07/21 15:34	
2-Nitrofluorene	mg/kg	<0.0041	0.010	0.0041	12/07/21 15:34	N2
3-Methylcholanthrene	mg/kg	<0.0026	0.010	0.0026	12/07/21 15:34	
4-Nitropyrene	mg/kg	<0.0038	0.010	0.0038	12/07/21 15:34	N2
5-Methylchrysene	mg/kg	<0.00094	0.010	0.00094	12/07/21 15:34	
5-Nitroacenaphthene	mg/kg	<0.0032	0.010	0.0032	12/07/21 15:34	
6-Nitrochrysene	mg/kg	<0.0032	0.010	0.0032	12/07/21 15:34	
7,12-Dimethylbenz(a)anthracene	mg/kg	<0.00068	0.010	0.00068	12/07/21 15:34	
7H-Dibenzo(c,g)carbazole	mg/kg	<0.0015	0.010	0.0015	12/07/21 15:34	
Acenaphthene	mg/kg	<0.0011	0.010	0.0011	12/07/21 15:34	
Acenaphthylene	mg/kg	<0.0019	0.010	0.0019	12/07/21 15:34	
Anthracene	mg/kg	<0.00064	0.010	0.00064	12/07/21 15:34	
Benzo(a)anthracene	mg/kg	<0.00087	0.010	0.00087	12/07/21 15:34	
Benzo(a)pyrene	mg/kg	<0.0011	0.010	0.0011	12/07/21 15:34	
Benzo(e)pyrene	mg/kg	<0.0013	0.010	0.0013	12/07/21 15:34	
Benzo(g,h,i)perylene	mg/kg	<0.0025	0.010	0.0025	12/07/21 15:34	
Benzofluoranthenes (Total)	mg/kg	<0.0041	0.030	0.0041	12/07/21 15:34	N2
Carbazole	mg/kg	<0.0010	0.010	0.0010	12/07/21 15:34	
Chrysene	mg/kg	<0.00098	0.010	0.00098	12/07/21 15:34	
Dibenz(a,h)acridine	mg/kg	<0.00099	0.010	0.00099	12/07/21 15:34	
Dibenz(a,h)anthracene	mg/kg	<0.00082	0.010	0.00082	12/07/21 15:34	
Dibenz(a,j)acridine	mg/kg	<0.0034	0.010	0.0034	12/07/21 15:34	
Dibenzo(a,e)pyrene	mg/kg	<0.0013	0.010	0.0013	12/07/21 15:34	
Dibenzo(a,h)pyrene	mg/kg	<0.0013	0.010	0.0013	12/07/21 15:34	
Dibenzo(a,i)pyrene	mg/kg	<0.0021	0.010	0.0021	12/07/21 15:34	
Dibenzo(a,l)pyrene	mg/kg	<0.0050	0.010	0.0050	12/07/21 15:34	
Dibenzofuran	mg/kg	<0.00079	0.010	0.00079	12/07/21 15:34	
Fluoranthene	mg/kg	<0.00077	0.010	0.00077	12/07/21 15:34	
Fluorene	mg/kg	<0.00060	0.010	0.00060	12/07/21 15:34	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.00088	0.010	0.00088	12/07/21 15:34	
Naphthalene	mg/kg	<0.0025	0.010	0.0025	12/07/21 15:34	
Perylene	mg/kg	<0.0014	0.010	0.0014	12/07/21 15:34	
Phenanthrene	mg/kg	<0.00081	0.010	0.00081	12/07/21 15:34	
Pyrene	mg/kg	<0.00094	0.010	0.00094	12/07/21 15:34	
2-Fluorobiphenyl (S)	%.	87	38-125		12/07/21 15:34	
p-Terphenyl-d14 (S)	%.	93	31-125		12/07/21 15:34	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

LABORATORY CONTROL SAMPLE: 4187883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.1	0.083	83	56-125	
1-Nitropyrene	mg/kg	0.1	0.074	74	37-126	N2
2-Chloronaphthalene	mg/kg	0.2	0.17	86	31-125	
2-Methylnaphthalene	mg/kg	0.1	0.082	82	56-125	
2-Nitrofluorene	mg/kg	0.1	0.090	90	63-125	N2
3-Methylcholanthrene	mg/kg	0.1	0.059	59	53-125	
4-Nitropyrene	mg/kg	0.1	0.081	81	55-125	N2
5-Methylchrysene	mg/kg	0.1	0.088	88	71-125	
5-Nitroacenaphthene	mg/kg	0.1	0.081	81	51-135	
6-Nitrochrysene	mg/kg	0.1	0.076	76	35-131	
7,12-Dimethylbenz(a)anthracene	mg/kg	0.1	0.098	98	36-125	
7H-Dibenzo(c,g)carbazole	mg/kg	0.1	0.086	86	68-125	
Acenaphthene	mg/kg	0.1	0.080	80	59-125	
Acenaphthylene	mg/kg	0.1	0.077	77	57-125	
Anthracene	mg/kg	0.1	0.084	84	64-125	
Benzo(a)anthracene	mg/kg	0.1	0.084	84	66-125	
Benzo(a)pyrene	mg/kg	0.1	0.084	84	71-125	
Benzo(e)pyrene	mg/kg	0.2	0.19	97	41-129	
Benzo(g,h,i)perylene	mg/kg	0.1	0.089	89	34-125	
Benzofluoranthenes (Total)	mg/kg	0.3	0.30	100	75-125	N2
Carbazole	mg/kg	0.2	0.17	86	40-130	
Chrysene	mg/kg	0.1	0.088	88	71-125	
Dibenz(a,h)acridine	mg/kg	0.1	0.085	85	75-125	
Dibenz(a,h)anthracene	mg/kg	0.1	0.090	90	75-125	
Dibenz(a,j)acridine	mg/kg	0.1	0.016	16	32-125	L2
Dibenzo(a,e)pyrene	mg/kg	0.1	0.085	85	67-125	
Dibenzo(a,h)pyrene	mg/kg	0.1	0.093	93	71-125	
Dibenzo(a,i)pyrene	mg/kg	0.1	0.083	83	59-125	
Dibenzo(a,l)pyrene	mg/kg	0.1	0.057	57	30-125	
Dibenzofuran	mg/kg	0.2	0.17	84	34-125	
Fluoranthene	mg/kg	0.1	0.087	87	74-125	
Fluorene	mg/kg	0.1	0.084	84	65-125	
Indeno(1,2,3-cd)pyrene	mg/kg	0.1	0.091	91	74-125	
Naphthalene	mg/kg	0.1	0.083	83	54-125	
Perylene	mg/kg	0.1	0.088	88	74-125	
Phenanthrene	mg/kg	0.1	0.086	86	72-125	
Pyrene	mg/kg	0.1	0.093	93	72-125	
2-Fluorobiphenyl (S)	%.			86	38-125	
p-Terphenyl-d14 (S)	%.			93	31-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4187884 4187885

Parameter	Units	10589420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	mg/kg	<0.0035	0.17	0.17	0.083	0.096	47	55	53-125	14	30	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4187884 4187885

Parameter	Units	10589420001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Nitropyrene	mg/kg	<0.0081	0.17	0.17	0.060	0.076	35	44	30-150	24	30	N2
2-Chloronaphthalene	mg/kg	<0.0019	0.34	0.34	0.17	0.21	50	62	31-125	21	30	
2-Methylnaphthalene	mg/kg	<0.0035	0.17	0.17	0.081	0.092	46	53	56-125	13	30	M1
2-Nitrofluorene	mg/kg	0.015J	0.17	0.17	0.095	0.14	47	70	30-150	35	30	N2,R1
3-Methylcholanthrene	mg/kg	0.0094J	0.17	0.17	0.079	0.11	41	59	30-143	34	30	R1
4-Nitropyrene	mg/kg	<0.0066	0.17	0.17	0.062	0.082	36	48	30-140	28	30	N2
5-Methylchrysene	mg/kg	<0.0016	0.17	0.17	0.099	0.14	58	79	30-150	32	30	R1
5-Nitroacenaphthene	mg/kg	<0.0055	0.17	0.17	0.081	0.11	45	63	30-150	32	30	R1
6-Nitrochrysene	mg/kg	<0.0055	0.17	0.17	0.041	0.054	24	32	30-131	28	30	M1
7,12-Dimethylbenz(a)anthracene	mg/kg	<0.0012	0.17	0.17	0.084	0.11	49	65	30-150	28	30	
7H-Dibenzo(c,g)carbazole	mg/kg	0.015J	0.17	0.17	0.088	0.13	42	67	30-144	39	30	R1
Acenaphthene	mg/kg	0.027	0.17	0.17	0.10	0.13	44	59	30-150	22	30	
Acenaphthylene	mg/kg	0.025	0.17	0.17	0.096	0.14	41	66	46-125	37	30	M1,R1
Anthracene	mg/kg	0.11	0.17	0.17	0.15	0.22	24	63	43-125	36	30	M1,R1
Benzo(a)anthracene	mg/kg	0.48	0.17	0.17	0.42	0.67	-34	111	30-150	45	30	E,M1,R1
Benzo(a)pyrene	mg/kg	0.52	0.17	0.17	0.46	0.73	-31	124	30-150	45	30	E,M1,R1
Benzo(e)pyrene	mg/kg	0.40	0.34	0.34	0.46	0.70	18	87	30-150	42	30	E,M1,R1
Benzo(g,h,i)perylene	mg/kg	0.38	0.17	0.17	0.38	0.60	-1	124	30-150	44	30	E,M1,R1
Benzofluoranthenes (Total)	mg/kg	1.1	0.52	0.52	1.1	1.6	-2	112	30-150	43	30	M1,N2,R1
Carbazole	mg/kg	0.039	0.34	0.34	0.21	0.28	49	69	30-150	28	30	
Chrysene	mg/kg	0.74	0.17	0.17	0.57	0.86	-99	73	30-150	41	30	E,M1,R1
Dibenz(a,h)acridine	mg/kg	0.023	0.17	0.17	0.094	0.14	41	66	30-150	36	30	R1
Dibenz(a,h)anthracene	mg/kg	0.099	0.17	0.17	0.15	0.23	31	77	30-150	41	30	R1
Dibenz(a,j)acridine	mg/kg	0.0081J	0.17	0.17	0.057	0.097	29	52	30-137	51	30	M0,R1
Dibenzo(a,e)pyrene	mg/kg	0.19	0.17	0.17	0.23	0.35	24	96	30-150	42	30	M1,R1
Dibenzo(a,h)pyrene	mg/kg	0.099	0.17	0.17	0.16	0.25	38	85	30-150	39	30	R1
Dibenzo(a,i)pyrene	mg/kg	0.028	0.17	0.17	0.10	0.14	43	65	30-131	31	30	R1
Dibenzo(a,l)pyrene	mg/kg	0.012J	0.17	0.17	0.075	0.11	37	55	30-125	35	30	R1
Dibenzofuran	mg/kg	0.013J	0.34	0.34	0.18	0.23	48	62	32-134	25	30	
Fluoranthene	mg/kg	1.6	0.17	0.17	1.1	1.7	-322	7	30-150	41	30	E,M1,R1
Fluorene	mg/kg	0.039	0.17	0.17	0.11	0.15	43	63	30-150	25	30	
Indeno(1,2,3-cd)pyrene	mg/kg	0.35	0.17	0.17	0.35	0.56	-1	118	30-150	45	30	M1,R1
Naphthalene	mg/kg	<0.0042	0.17	0.17	0.084	0.11	47	59	48-125	23	30	M1
Perylene	mg/kg	0.12	0.17	0.17	0.17	0.25	24	75	30-150	42	30	M1,R1
Phenanthrene	mg/kg	0.73	0.17	0.17	0.55	0.82	-103	53	30-150	39	30	E,M1,R1
Pyrene	mg/kg	1.3	0.17	0.17	0.86	1.3	-243	34	30-150	43	30	E,M1,R1
2-Fluorobiphenyl (S)	%.						55	63	38-125			
p-Terphenyl-d14 (S)	%.						54	63	31-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
R1	RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Halls Marsh Soils 2021
Pace Project No.: 10589420

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10589420001	**SA #1**	EPA 3050B	787324	EPA 6020B	787894
10589420002	**SA #2**	EPA 3050B	787324	EPA 6020B	787894
10589420001	**SA #1**	ASTM D2974	786693		
10589420002	**SA #2**	ASTM D2974	786693		
10589420001	**SA #1**	EPA 3550C	786704	EPA 8270E by SIM	787658
10589420002	**SA #2**	EPA 3550C	786704	EPA 8270E by SIM	787658

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytic

The Chain-of-Custody is a LEGAL DOCUMENT. All releva

WO# : 10589420

10589420

January 11, 2021 Regular City Council Meeting

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Thatcher Engineering	Report To:	Chris Pelosi	Attention:	Ciara Ruikkie
Address:	c/o Pace Analytical	Copy To:	Riley Jacobson	Company Name:	Pace Field Services Division
	Field Services			Address:	1700 Elm Street, Ste. 200 Minneapolis, MN 55414
Email To:	Chris Pelosi	Purchase Order No.:		Pace Quote Reference:	
Phone: (612) 597-7254	Fax:	Project Number		Pace Project Manager:	Jennifer Anderson
Requested Due Date/TAT: STD		Project Name:	Halls Marsh Soils 2021	Pace Profile #:	15439 Line 2

REGULATORY AGENCY

NPDES ☑ GROUND WATER ☐ DRINKING WATER
UST ☐ RCRA ☐ OTHER MCES

SITE LOCATION: NC ☑ MN ☐ IL ☐ IN ☐ MI ☐ OH ☐ SC ☐ WI ☑ OTHER

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: Total Metals*	Dry Weight Moisture	cPAH (8270D SIM)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	SA #1	SL	C	---	---	11/30/21	1330		3	X									X	X	X		OCI
2	SA #2	SL	C	---	---	11/30/21	1430		3	X									X	X	X		002
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

RO 11/30/21

Additional Comments:

*Total Metals-EPA 6020: As, Cu

*Report all to MDL in mg/L

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Riley Jacobson / Pace	11/30/21	1507	C Pace	11/30/21	1507

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
1.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Riley Jacobson

SIGNATURE of SAMPLER: Riley Jacobson

DATE Signed (MM / DD / YY): 11/30/21

Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 14Apr2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.02**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: WATSON ENGINEERING

Project #:

WO#: 10589420

PM: JMA **Due Date: 12/14/21**

CLIENT: PASI-MNFLD

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ OS418-LS ☐ T4(0254) ☒ T5(0489) ☐ 160285052 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.6 °C

Correction Factor: +0.1 **Cooler Temp Corrected w/temp blank:** 1.7 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

Date/Initials of Person Examining Contents: AC3 11.30.21

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☐ Water ☒ Soil ☐ Oil ☐ Other _____	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐ Yes	☐ No	☒ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ ENV-FRM-MIN4-0142
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐ ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Rachel Johnson **Date:** 12/2/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: AC3

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

Summary of stormwater pond sediment testing results

Municipal Stormwater Program

wq-strm4-79 (Revised 4/2/20)

Project name: Thatcher Engineering - Hall's Marsh Sediment Sampling 2021

Sample date: November 30, 2021

Chemical	Reporting limit* mg/kg	Residential SRV mg/kg	Industrial SRV mg/kg	Sample location and depths: SW Basin Sed Composite SA#1 0"-30" depth mg/kg	SW Basin Sed Composite SA#2 0"-30" depth mg/kg
Metals					
Arsenic	0.80	9	20	**1.2**	**0.52**
Copper	1.6	100	9000	**14.4**	**15.0**
Noncarcinogenic PAHs					
Acenapthene	0.017	1,200	5,260	**0.027**	**0.0**
Acenapthylene	0.017	na	na	**0.025**	**0.014**
Anthracene	0.017	7,880	45,400	**0.11**	**0.0075**
Benzo(g,h,i)perlyene	0.017	na	na	**0.38**	**0.039**
Fluoranthene	0.086	1,080	6,800	**1.6**	**0.084**
Fluorene	0.017	850	4,120	**0.039**	**0.0022**
2-Methylnapthalene	0.017	100	369	**0.0**	**0.0**
Naphthalene	0.017	10	28	**0.0**	**0.0**
Phenanthrene	0.086	na	na	**0.73**	**0.024**
Pyrene	0.086	890	5,800	**1.3**	**0.075**

Carcinogenic PAHs/ B[a]P Equivalents	Reporting limit* mg/kg	Potency Equiv. Factor (PEF)		Site Conc. mg/kg	BaP Equiv. Conc. mg/kg	Site Conc. mg/kg	BaP Equiv. Conc. mg/kg
Benz[a]anthracene	0.017	0.10		**0.48**	**0.048**	**0.032**	**0.003**
Benzo[b]fluoranthene*[1]	0.052	0.10		**1.1**	**0.110**	**0.093**	**0.009**
Benzo[j]flouranthene*[1]	0.052	0.10		**0.0**	**0.000**	**0.0**	**0.000**
Benzo[k]fluoranthene*[1]	0.052	0.10		**0.0**	**0.000**	**0.0**	**0.000**
Benzo[a]pyrene	0.017	1.00		**0.52**	**0.520**	**0.045**	**0.045**
Chrysene	0.086	0.01		**0.74**	**0.007**	**0.045**	**0.000**
Dibenz[a,h]acridine	0.017	0.10		**0.023**	**0.002**	**0.0022**	**0.000**
Dibenz[a,h]anthracene	0.017	0.56		**0.099**	**0.055**	**0.0094**	**0.005**
7H-Dibenzo[c,g]carbazole	0.017	1.00		**0.015**	**0.015**	**0.0**	**0.000**
Dibenzo[a,e]pyrene	0.017	1.00		**0.19**	**0.190**	**0.020**	**0.020**
Dibenzo[a,h]pyrene	0.017	10.00		**0.099**	**0.990**	**0.013**	**0.130**
Dibenzo[a,i]pyrene	0.017	10.00		**0.028**	**0.280**	**0.0**	**0.000**
Dibenzo[a,l]pyrene	0.017	10.00		**0.012**	**0.120**	**0.0**	**0.000**
7,12 Dimethylbenz-anthracene	0.017	34.00		**0.0**	**0.000**	**0.0**	**0.000**
Indeno[1,2,3,-c,d]pyrene	0.017	0.10		**0.35**	**0.035**	**0.034**	**0.003**
3-Methylcholanthrene	0.017	3.00		**0.0094**	**0.028**	**0.0**	**0.000**
5-Methylchrysene	0.017	1.00		**0.0**	**0.000**	**0.0**	**0.000**
Total B[a]P Equivalents		2*	23		2.401		0.217
Total B[a]P Equivalents - Kaplan Meier		2*	23		3.675		0.294

SRV = soil reference value

PAHs = polycyclic aromatic hydrocarbons

B[a]P = benzo[a]pyrene

conc. = concentration

* Based on background threshold value (BTV) since residential SRV calculated to be below an estimate of ambient background

Residential SRV (suitable for residential land use)

Industrial SRV (suitable for industrial land use)

Highlight value for "J" flagged data - sample concentration is above method detection limit but below reporting limit

*** Reporting limit**- insert reporting limit in this column from the lab analytical results reports (converting to mg/kg if necessary)

B[a]P Equivalent - Each contaminant sample concentration is multiplied by it's Potency Equivalency Factor (PEF) to obtain a B[a]P equivalent concentration. All B[a]P equivalent concentrations are summed to calculate the total B[a]P equivalent concentration. For nondetect data, use the procedures outlined in Appendix B of "Managing Stormwater Sediment BMP Guidance For Municipalities".

***[1] Combined concentration of Benzo[b]fluoranthene, Benzo[j]fluoranthene, and Benzo[k]fluoranthene was reported as Benzofluoranthenes (Total). Since all three contaminants have the same PEF value, the results for Benzofluoranthenes (Total) were entered in the row for Benzo[b]fluoranthene, while the concentration of Benzo[j]fluoranthenes and Benzo[k]fluoranthenes were entered as zero.**

Pace Analytical® Field Services Division

Water Grab Sampling Field Data Log Sheet

Page 1 of 2 (monitoring point)

General Information

Client Name: Thatcher Engineering — Pace Project No.: 21-05337

Facility Location: Iris St. + Lake Ave, Birchwood Village — Project Name: Halls Marsh Soils

On-Site Contact: Steve Thatcher — Date(s): 11/30/21

Monitoring Point: SA1 / SA2 — Technician(s): RGS

Meters

☐ pH Meter (ID): ____ ☐ Chlorine Meter (ID): ____

☐ Multi-Parameter Meter (ID): ____ ☐ Other (description/ID): ____

RGS 11/30/21

(see meter calibration archives for calibration results)

Sampling Equipment

☐ Not Applicable (collected directly into sample bottle)

☒ Transfer Container (circle type): Glass / Plastic / Stainless — Plastic Pan for comp

☐ Bailer (circle type): Stainless / Disposable

☐ Trowel/Scoop ☐ Shovel / Post-Hole Digger

☐ Pump and Tubing (circle tubing type): Tygon / Teflon / Other: ____

☐ Other Device(s): ____

☐ COLIWASA (circle type): Plastic / Glass

☐ Pole Sampler

☐ Dredge

☐ Sediment Core Sampler

☒ Hand Soil Auger

pH

pH Measurement					Continuing Calibration Verification (CCV)						
					Standard Info			Meter Value (s.u.)	Temp (°C)	Date (m/d)	Time
Analyst	pH Result (s.u.)	Temp (°C)	Date (m/d)	Time	Value	Mfg. / Lot No.	Exp.				
						RGS 11/30/21					

(see meter calibration archives for calibration results) — CCV: Pass / Fail — CCV acceptable if ± 0.1 s.u. of buffer value

Sample Collection Notes

Monitoring Point	Time	Results / Observations / Sample Characteristics
SA1 (Pond Inlet)	1330	Core 1 - Top 6" Organic, dark layer. Middle 16" was fine Sand, followed
	(2)	by 8" of light, fluffy organic layer. (30" core)
(1) Composited 1/2 of the Vol each of the 3 cores together to form 1 sample.		Core 2 - Top 4" Organic layer, middle 18" a more coarse "gravely" sand layer ~~(correct)~~ (Pages 11/30/21), followed by 5" fluffy organic (30" Core)
*when taking 1/2, took half the long-ways through profile to get a better mixture. RGS 11/30/21		Core 3 - Top 6" Organic layer, ~~Middle 18"~~ 2" Sand layer, followed
	(3)	by 10" light organic layer, then 12" layer of a sticky-ish organic - clay like mixture. (1)

Attach additional notes if necessary.

Samples chilled immediately after collection: ☒ Yes ☐ Other ____

Lead Technician Signature: RGS — Date: 11/30/21

Form Revised 11/20/2020

(2) North of Inlet (3) S. of Inlet (*) MAP ON BACK (*)

Pace Analytical® Field Services Division

Water Grab Sampling Field Data Log Sheet

Page 2 of 2 (monitoring point)

General Information

Client Name: Thatcher Engineering
Pace Project No.: 21-05337
Facility Location: Iris St. Birchwood Village
Project Name: Halls Marsh Soils
On-Site Contact: Steve Thatcher
Date(s): 11/30/21
Monitoring Point: SA1 / SA2
Technician(s): RDS

Meters

☐ pH Meter (ID): ____ ☐ Chlorine Meter (ID): ____
☐ Multi-Parameter Meter (ID): ____ RDS 11/30/21 ☐ Other (description/ID): ____
(see meter calibration archives for calibration results)

Sampling Equipment

☐ Not Applicable (collected directly into sample bottle)
☒ Transfer Container (circle type): Glass / Plastic / Stainless Pan for comp
☐ Bailer (circle type): Stainless / Disposable
☐ Trowel/Scoop ☐ Shovel / Post-Hole Digger
☐ Pump and Tubing (circle tubing type): Tygon / Teflon / Other: ____
☐ Other Device(s): ____
☐ COLIWASA (circle type): Plastic / Glass
☐ Pole Sampler
☐ Dredge
☐ Sediment Core Sampler
☒ Hand Soil Auger

pH

pH Measurement					Continuing Calibration Verification (CCV)						
					Standard Info			Meter Value (s.u.)	Temp (°C)	Date (m/d)	Time
Analyst	pH Result (s.u.)	Temp (°C)	Date (m/d)	Time	Value	Mfg. / Lot No.	Exp.				
						RDS 11/30/21					
(see meter calibration archives for calibration results)					CCV: Pass / Fail		CCV acceptable if ± 0.1 s.u. of buffer value				

Sample Collection Notes

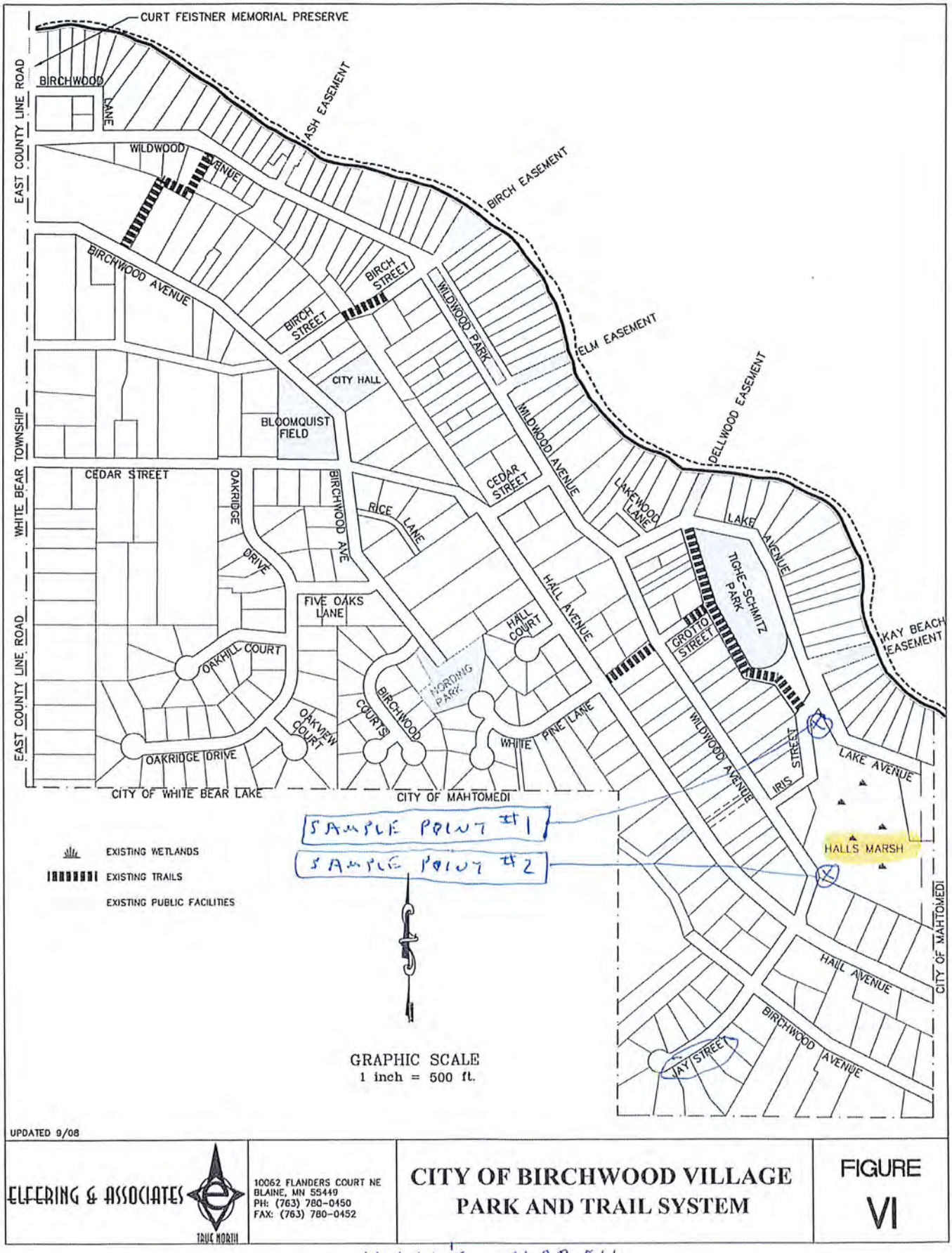
Monitoring Point	Time	Results / Observations / Sample Characteristics
SA2	1430	Core 1 - Top 8" organic sediments, 10" layer of Clayey-Sand mixture next, then bottom 12" of course Sand sed. (30" core)
① Took 1/2 of the Vol. of each core (lengthways - not compromising integrity of core) & mixed together to form 1 comp sample. RDS 11/30/21		Core 2 - Top 8" organic sediment, followed by 10" clayey-Sand mixture, w/ bottom 12" coarse sand sed. (30" Core)
		Core 3 - Top 4" Sandy-Organic sed. mix, followed by darker Sandy-clay mix of 18", bottom 8" of course Sandy Sed. (30" core)
		① Attach additional notes if necessary.

Samples chilled immediately after collection: ☒ Yes ☐ Other ____

Lead Technician Signature: [signature] Date: 11/30/21

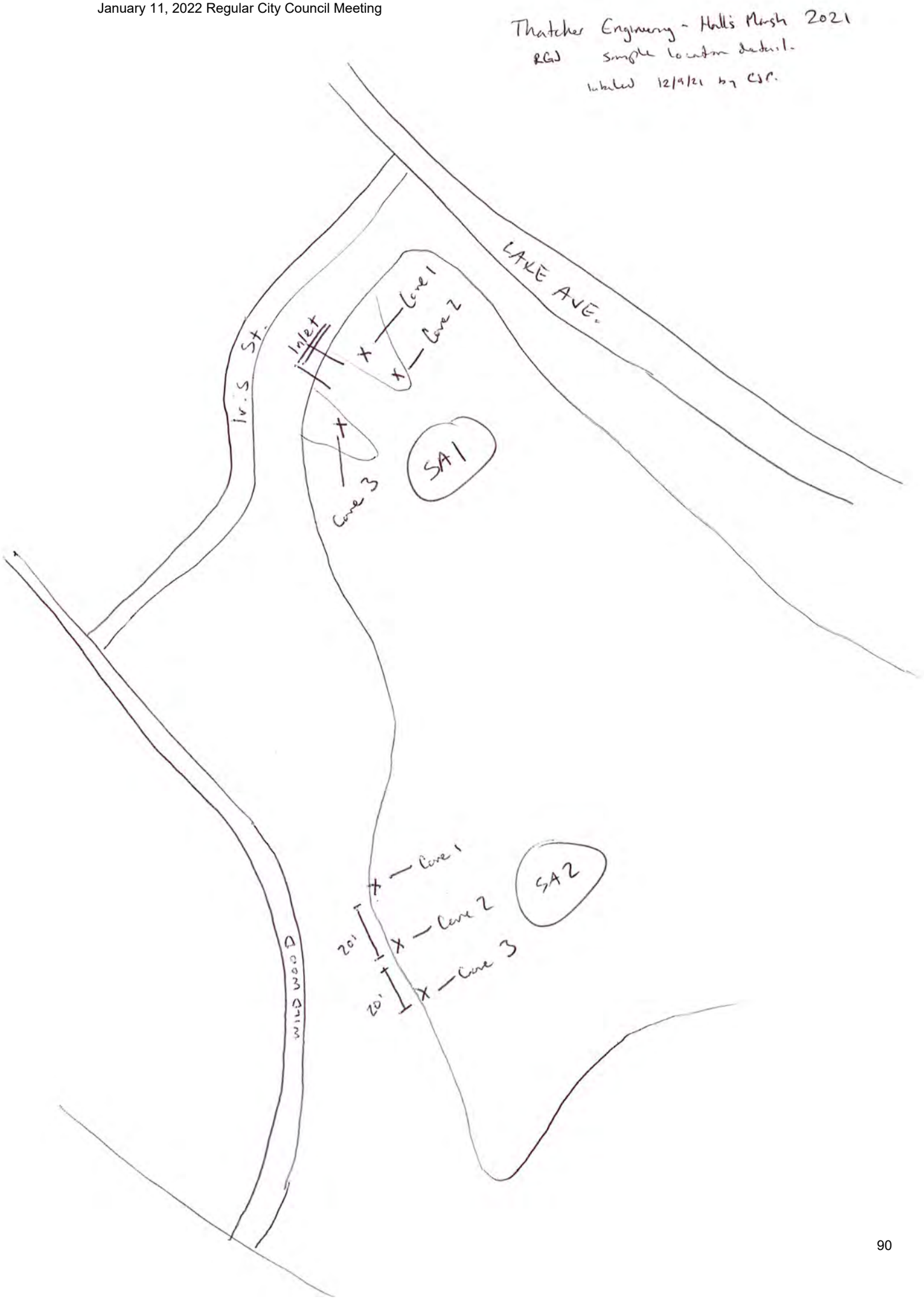
Form Revised 11/20/2020

@ Map on back of pg 1 ⊛



HALL'S MARSH

10/1/21


Thatcher Engineering - Halls Marsh 2021
RGJ sample location sketch.
labeled 12/9/21 by CSP.
LAKE AVE.
Iv. S St.
Inlet
Core 1
Core 2
Core 3
SA1
SA2
WILD GRASS
20'
20'

APPENDIX #4

MINNESOTA POLLUTION CONTROL AGENCY
520 Lafayette Road North
St. Paul, MN 55155-4194

Summary of stormwater pond sediment testing results

Municipal Stormwater Program

wq-strm4-79 (Revised 4/2/20)

Project name: Thatcher Engineering - Hall's Marsh Sediment Sampling 2021

Sample date: November 30, 2021

				Sample location and depths			
		Residential SRV	Industrial SRV	SW Basin Sed Composite SA#1 0"-30" depth	SW Basin Sed Composite SA#2 0"-30" depth		
Chemical	**Reporting limit* mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**		
Metals							
Arsenic	0.80	9	20	**1.2**	**0.52**		
Copper	1.6	100	9000	**14.4**	**15.0**		
Noncarcinogenic PAHs							
Acenapthene	0.017	1,200	5,260	**0.027**	**0.0**		
Acenapthylene	0.017	na	na	**0.025**	**0.014**		
Anthracene	0.017	7,880	45,400	**0.11**	**0.0075**		
Benzo(g,h,i)perlyene	0.017	na	na	**0.38**	**0.039**		
Fluoranthene	0.086	1,080	6,800	**1.6**	**0.084**		
Fluorene	0.017	850	4,120	**0.039**	**0.0022**		
2-Methylnapthalene	0.017	100	369	**0.0**	**0.0**		
Naphthalene	0.017	10	28	**0.0**	**0.0**		
Phenanthrene	0.086	na	na	**0.73**	**0.024**		
Pyrene	0.086	890	5,800	**1.3**	**0.075**		
Carcinogenic PAHs/ B[a]P Equivalents	**Reporting limit* mg/kg**	**Potency Equiv. Factor (PEF)**		**Site Conc. mg/kg**	**BaP Equiv. Conc. mg/kg**	**Site Conc. mg/kg**	**BaP Equiv. Conc. mg/kg**
Benz[a]anthracene	0.017	0.10		**0.48**	**0.048**	**0.032**	**0.003**
Benzo[b]fluoranthene*[1]	0.052	0.10		**1.1**	**0.110**	**0.093**	**0.009**
Benzo[j]flouranthene*[1]	0.052	0.10		**0.0**	**0.000**	**0.0**	**0.000**
Benzo[k]fluoranthene*[1]	0.052	0.10		**0.0**	**0.000**	**0.0**	**0.000**
Benzo[a]pyrene	0.017	1.00		**0.52**	**0.520**	**0.045**	**0.045**
Chrysene	0.086	0.01		**0.74**	**0.007**	**0.045**	**0.000**
Dibenz[a,h]acridine	0.017	0.10		**0.023**	**0.002**	**0.0022**	**0.000**
Dibenz[a,h]anthracene	0.017	0.56		**0.099**	**0.055**	**0.0094**	**0.005**
7H-Dibenzo[c,g]carbazole	0.017	1.00		**0.015**	**0.015**	**0.0**	**0.000**
Dibenzo[a,e]pyrene	0.017	1.00		**0.19**	**0.190**	**0.020**	**0.020**
Dibenzo[a,h]pyrene	0.017	10.00		**0.099**	**0.990**	**0.013**	**0.130**
Dibenzo[a,i]pyrene	0.017	10.00		**0.028**	**0.280**	**0.0**	**0.000**
Dibenzo[a,l]pyrene	0.017	10.00		**0.012**	**0.120**	**0.0**	**0.000**
7,12 Dimethylbenz-anthracene	0.017	34.00		**0.0**	**0.000**	**0.0**	**0.000**
Indeno[1,2,3,-c,d]pyrene	0.017	0.10		**0.35**	**0.035**	**0.034**	**0.003**
3-Methylcholanthrene	0.017	3.00		**0.0094**	**0.028**	**0.0**	**0.000**
5-Methylchrysene	0.017	1.00		**0.0**	**0.000**	**0.0**	**0.000**
Total B[a]P Equivalents		2*	23		2.401		0.217
Total B[a]P Equivalents - Kaplan Meier		2*	23		3.675		0.294

SRV = soil reference value

PAHs = polycyclic aromatic hydrocarbons

B[a]P = benzo[a]pyrene

conc. = concentration

* Based on background threshold value (BTV) since residential SRV calculated to be below an estimate of ambient background

Residential SRV (suitable for residential land use)

Industrial SRV (suitable for industrial land use)

Highlight value for "J" flagged data - sample concentration is above method detection limit but below reporting limit

*** Reporting limit**- insert reporting limit in this column from the lab analytical results reports (converting to mg/kg if necessary)

B[a]P Equivalent - Each contaminant sample concentration is multiplied by it's Potency Equivalency Factor (PEF) to obtain a B[a]P equivalent concentration. All B[a]P equivalent concentrations are summed to calculate the total B[a]P equivalent concentration. For nondetect data, use the procedures outlined in Appendix B of "Managing Stormwater Sediment BMP Guidance For Municipalities".

***[1] Combined concentration of Benzo[b]fluoranthene, Benzo[j]fluoranthene, and Benzo[k]fluoranthene was reported as Benzofluoranthenes (Total). Since all three contaminants have the same PEF value, the results for Benzofluoranthenes (Total) were entered in the row for Benzo[b]fluoranthene, while the concentration of Benzo[j]fluoranthenes and Benzo[k]fluoranthenes were entered as zero.**

From: Mary Wingfield
To: Andy Gonyou
Subject: Agenda item: Spreadsheet Schedule for major repairs/maintenance.
Date: Wednesday, January 5, 2022 10:17:28 AM

For review and discussion at workshop.

Spring and fall:
Catch basin monitoring/potential clean out
Clean off Village Hall roof
Street sweeping
Leaf pick up

Yearly
Crack fill, pot hole repair

2022
Initiate Wildwood lift station replacement
Lake Links shoulder rehab Hall Av
Paint Lines -- Hall/Cedar (every other year?)

2023
Seal coat roads (every 3-5 years, as needed)

2024
Inspect Flared ends for MS4 permit (every five years)
Trim back roadways (STS, every three to four years)

2025
Jet sewers (every five years unless data/camera show greater need) $20k

2026, 27, or 28
Clean out Birch Rain garden (every 5-8 years. Done in 2021)

2030
Mill and overlay entire city (except Lake av done in 2020)
Review Tennis court surface (installed 2010)

2035 replace garage roof shingles

2041 paint Village hall

2042 replace water meter batteries

2050-2070 replace Village Hall roof

2086 replace playground equipment

Other issues TBD:
office furnace/ac

Cable room/chamber AC. Installed 2018
Boiler village hall

Lift station Dellwood replaced 2007
m

From: Mary Wingfield
To: Andy Gonyou
Subject: Jan agenda item
Date: Wednesday, January 5, 2022 10:06:39 AM

For consideration and discussion/ modification at Feb workshop for adoption. Please come prepared to discuss then.

Guiding Principles of Procedure:

All city staff and representatives:

Shall treat each other and residents fairly and with respect

Shall listen and work together to reach consensus without violating
their individual judgment and conscience

Shall respect each others opinions and not take such conflict personally.

Shall be impeccable with their word (borrowed from the Four Agreements)...I e. assume good intent on the part of others

CROSS CONNECTION CONTROL:

Whenever any premises are connected to the City water system, there shall be maintained a complete physical separation between the City water supply system and the private water supply system so that it is impossible to intentionally or unintentionally allow any water produced by a private system to be introduced in the supply line from the City system.

VALVES:

A. Backflow Valves: All water lines serving residential water-customers/residents which are connected to the Municipal water system shall contain an automatic backflow valve to prevent contamination of the Municipal water in the event of low pressure. Additionally, all irrigation systems shall be installed with an additional backflow valve. The valve shall be of a type approved by the building official and installed by permit and inspection to guarantee performance. Per UPC, Sec. 605.3.1, dual check-valve backflow preventers installed on the water supply system shall comply with ASSE 1024 or CSA B64.6. 605.4

B. Hydrant Shutoff Valves: All fire hydrants installed in the City, except those in single-family residential districts, shall be equipped with a shutoff valve in the water supply line.