

AMENDED

ISHPEMING CITY COUNCIL SPECIAL MEETING
Wednesday, September 19, 2018 at 1:30 p.m.
Ishpeming City Hall, 100 E. Division Street, Ishpeming, MI 49849
City Hall Telephone Number: 906-485-1091

Meeting Called to Order

Roll Call

Agenda Comment

AGENDA ITEMS

1. USDA Rural Development Project
 - (a) Business Route M-28 Substitution
 - (b) Street Paving - Operating Engineers Labor Dispute
2. SAW Grant – Sanitary Sewer Backup Review
3. Special Event Application: UPAWS Fundraising Hike: 10-13-18
4. Resolution #13-2018, Accept Application for NEZ Certificate: 1060 Highland Drive
5. Purchase of Sand and Winter Gravel for 2018-2019
6. Amendment to Resolution #5-2018, Tennis Court and Trail Grant Application
7. Approval of L-4029, 2018 Tax Rate Request



Mark Slown
City Manager

Memorandum

To: Mr. Mark Slown, City Manager
CC: Cathy Smith, Assistant to the City Manager
From: Mark Stoor
Regarding: Sanitary Sewer System Backups
Date: September 12, 2018

Mark,

In reviewing the occurrences of last week, there does not appear to be any significant change to the sanitary sewer system from past operations. The large storm events of this year, as well as the saturation from continuous storms, contributed more water than the system could handle. We will continue to work on metering and modeling the system and identifying infiltration sources and possible undersized pipes, so that a long-term solution can be reached. This memo provides more detail into our investigations.

During the storm event last week, GEI worked alongside the City's Public Works Department to identify the reaction of the sanitary sewer system to the storm. Many manholes were investigated to determine flow conditions, and multiple meetings were held last week to discuss occurrences, including system backups in manholes as well as into some basements.

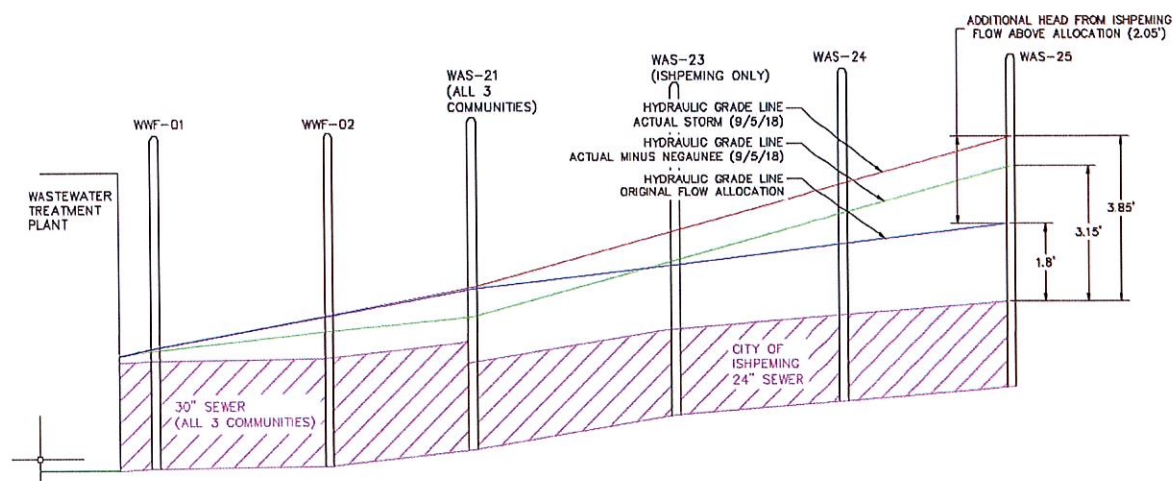
From that meeting, there were a few items that we wanted to investigate immediately. These were how do the flows compare to past years, and what kind of capacity issues were we seeing at the downstream pipes to the wastewater treatment plant. With the help of the Ishpeming Area Joint Wastewater Treatment Facility staff, we were able to gather data both from the storm event, as well as historical events.

We examined historical records for the past 7 years and tabulated any precipitation events over 1". Since 2012, there have been 15 events that fit that description, and 5 of them have occurred in 2018. **The two largest precipitation events were both this year**, including the most recent one and the one from mid-June. The table below shows the events that were recorded, along with the Daily Flow recorded for the events.

Table 1: >1" Precipitation Events Since 2012

Date	Recorded Precipitation (in)	Max Day Recorded Flow (MGD)
6/20/2012	1.1	1.2
10/25/2012	1.8	1.9
7/18/2013	2.4	1.8
7/26/2013	1.6	2.0
9/10/2014	1.9	2.2
8/20/2016	2.1	2.3
9/16/2016	1.3	2.5
6/11/2017	1.0	1.8
6/24/2017	2.2	3.0
8/27/2017	1.6	1.8
6/17/2018	4.2	5.0
6/30/2018	1.8	2.3
8/14/2018	1.1	1.7
8/27/2018	1.3	1.7
9/5/2018	3.5	4.9

The most recent precipitation event was 3.5 inches in total. It caused peak flows at the plant of approximately 7,000 gpm, for a period of 3 hours. Of that total, based on flow metering data that the facility collects, the City contributed approximately 70% to the peak flow rate observed, or 4,900 gpm. This section of the system was modeled to simulate the storm. Results of the model are shown below:

*Figure 1: Modeled Water Levels Near Sanitary Outfall*

As can be seen by the red line, the hydraulic grade line (hgl) in the 30" piping does show a surcharged condition from the size storm received. The 24" pipe with wastewater flows from only the City is also impacted by this surcharged condition, and at Manhole WAS-25, approximately 1300 feet down

Washington Street, a surcharge of 3.85 feet is predicted. This matches reasonably well with the high-water lines we saw on the manhole the following day.

One item of concern raised by the City was the contribution of the Negaunee flows to the system, and what effect they had on the flooding. The green line on the figure shows the hgl we would have expected without the contributions of Negaunee flows. As can be seen, there is approximately 0.7 feet of difference between the projected HGL due to Negaunee's flows for this storm, and the HGL if the City of Negaunee had never been connected.

The Blue line on the figure, however, shows the anticipated HGL of the system at the 10.0 MGD flow rate capacity of the system per the agreed to flow allocations. Per an agreement executed by the Ishpeming Wastewater Authority Board Operational Procedures Guide, the City was allocated 4.48 MGD, Ishpeming Township 2.21 MGD, and the City of Negaunee 3.31 MGD. Based upon these numbers and the modeling, one could conclude that the hgl at WAS-25 is about 2.05 ft higher than originally anticipated due to flow rates in excess of 4.48 MGD coming from that portion of the City. As mentioned earlier, it seems that inflow and infiltration into the City's system is more than anticipated.

As discussed, the amount of grit received during the storm was very large, and it may have exacerbated the initial flooding as it moved through the system. However, the data used to model the flows, versus the actual conditions witnessed suggest that the pipes were operating properly, there was just more flow than the system could handle.

We do not believe installing a trash pump at the downstream end of the sanitary system will accomplish much to reduce the hydraulic grade line and upstream surcharging. It is evident from the modeling, that the rate of submergence increases at a higher rate in the 24" sanitary sewers, and if a trash pump could be installed somewhere near WAS-23 or WAS-24, that may relieve the submergence, but in order to do this, the trash pump would need to discharge untreated sanitary sewer into the storm water system and this is not advisable unless approved by the MDEQ.

The main question that has been asked during the events this year, and the system backups, is why now? What has changed? The precipitation recordings show that at the very least, the weather itself has changed significantly. In addition to the large number of events, it is very possible that the additional saturation of the ground is also playing a role in the backups. In the drier years, it was visible that flows at the plant returned to normal more quickly, as dry soils would recover. The saturated conditions this year exacerbate the actual storm events and result in high peak flow rates which results in increased surcharging.

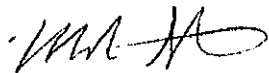
There are some solutions that homeowners may pursue on floor drains to prevent damage from sanitary sewer backups. There are internal check valves that will prevent the drains from backing up into the house. Some communities make these a requirement for customers to install. There are also covers that can be installed on floor drains that can be locked in place and removed if the floor drains are needed. It is also recommended that homeowner be reminded that sump pumps must not be

connected to the sanitary sewer system. It is recommended that the City consider pursuing some type of inspection program to identify illegal sump pump connections. Some City's make a point to look for illegal sump pump connections while inspecting water meters.

Ishpeming has long had issues with system infiltration, and we are continuing with the SAW grant to work on gathering information. Unfortunately, there doesn't appear to be a quick fix for the problems experienced this year. We need to find the sources of infiltration and eliminate them or reduce them system wide, so that the capacity of the piping is no longer exceeded during storm events. We have recently completed the televising, as well as the manhole inspections. We are beginning our first round of flow metering and will be continuing that effort to obtain infiltration data. We will be building a system model to provide better information on system flows. When all of this is completed, we will have the information needed to guide the City toward resolution to these issues.

If you have any questions, please do not hesitate to contact me.

Thank you,



Mark Stoor, P.E.
Senior Project Manager



Jeff Bal, P.E.
Vice President/Branch Manager

MFS:plw

CITY OF ISHPEMING
SPECIAL EVENT APPLICATION

Please complete this application and return it to the City Manager's Office at least 30 calendar days prior to the starting date of the event.

Organization's Name UPAWS Phone 906-475-6661

Organization Address 84 Snowfield Rd. Negaunee, MI 49864

Organization's Agent A Kryston Beaumont Phone 312-945-6148

Agent's Title N/A

Agent's Address 307 West Clark Street Negaunee, MI 49864

Event Name Pups on Peaks

Event purpose Raise money for upaws

Event Dates 10/13/18

Event Times 9am - 12pm

Event Location RAMBA trailhead / trails

1. Type of Event:

- ☐ City Operated Event ☐ Co-Sponsored Event
☒ Other Non-Profit Event ☐ Other For-Profit Event
☐ Political or Ballot Issue Event

2. Annual Event: Is this event expected to occur next year? ☒ YES ☐ NO

If yes, you can reserve a date for next year with this application. To reserve dates for next year, please provide the following information:

Normal Event Schedule not sure yet

Next year's Specific Dates: not sure yet

3. An Event Map [Is] [Is Not] attached. If your event will use streets and/or sidewalks (for a parade, run, etc.) or will use multiple locations, please attach a complete map showing the assembly and dispersal locations and the route plan. Also please show any streets or parking lots that you are requesting to be blocked off.

4. Vendors: Food Concessions? [Yes] ☒ No Other vendors? [Yes] ☒ No

5. Event signs: Will this event include the use of signs? ☒ Yes ☐ No I will provide them

6. Other Requests: _____

7. CERTIFICATION AND SIGNATURE: I understand and agree on behalf of the sponsoring organization that:

a. A certificate of Insurance must be provided which names the City of Ishpeming as an additional named insured party on the policy.

b. Event organizers and participants will be required to sign Indemnification Agreement forms.

c. All food vendors must be approved by the Marquette County Health Department and each food vendor must provide the City with a Certificate of Insurance which names the City as an additional named insured on the policy.

d. All liquor vendors must obtain a liquor license for the event which must be approved by the Michigan Liquor Control Commission and must provide the City with a Certificate of Insurance which names the City as an additional named insured on the policy.

e. The approval of this special event may include additional requirements based on the City's review of this application in accordance with the City's Special Event Policy. The event will be operated in conformance with the written confirmation of approval.

f. The organization will provide a security deposit for the estimated fees as may be required by the City and will promptly pay any billing for City services which may be rendered.

7/21/15

As the duly authorized agent of the organization, I hereby apply for approval of this Special Event, affirm the above understandings, and agree that my sponsoring organization will comply with the City's Special Event Policy, the terms of the Written Confirmation of Approval, and all other City requirements, ordinance and other laws which apply to this Special Event.

9/14/18
Date


Signature of Organization's Agent

Return this Application at least thirty (30) days prior to the first day of the event to:

City Manager's Office
City Hall
E. Division Street
Ishpeming, Michigan 49849

7/21/15



Shipping

R.A.M.B.A.

Molton Rd

N

Rusty Bike Trail
Entrance

Iron Ore Heritage Trail

Trail

Trail

County Rd. 28

Trail

Trail

Suicide Hill

Negunee

Michigan St.

RESOLUTION NO. 13-2018

RESOLUTION ACKNOWLEDGING RECEIPT OF APPLICATION
FOR NEIGHBORHOOD ENTERPRISE ZONE CERTIFICATE

Whereas, the City of Ishpeming established the Ishpeming Hills Neighborhood Enterprise Zone No. 2 on February 6, 2008; and

Whereas, the City of Ishpeming received an application from Miles M. Buck and Rosanne Nardi for the construction of a new home located at 1060 Highland Drive, Ishpeming, Michigan 49849; and

Now, Therefore, Be It Resolved that the City of Ishpeming acknowledges receipt of the Application for Neighborhood Enterprise Zone Certificate filed by the above-mentioned property owner and finds that it is in compliance with the requirements of Public Act 145 of 1992.

Be It Further Resolved, the City of Ishpeming finds that the application meets the requirements necessary for approval of a Neighborhood Enterprise Zone Certificate for a period of 15 years.

Councilwoman _____ moved and Councilman _____
_____ seconded adoption of the above resolution.

Ayes:

Nays:

Absent:

Tammie Leece
City Clerk

Adopted:

TO: Mark Slown, City Manager
FROM: Carl Petersen, DPW Director
DATE: September 11, 2018
SUBJECT: Gravel and Winter Sand

We would like to purchase more gravel and winter sand. We requested quotes from A. Lindberg & Sons, Carlson Loy, and Moyle. A. Lindberg & Sons quoted us \$6.50 a ton for gravel and \$15 a ton for winter sand. Carlson Loy does not supply gravel and approximately \$11.50 a ton for winter sand. Moyle did not respond to our request for quotes. We would like to purchase 800 ton of gravel from A. Lindberg & Sons and 1100 ton of winter sand from Carlson Loy. The totals cost for each would be approximately \$5200 for gravel and \$12650 for winter sand.

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City of Ishpeming

City Council Resolution # 5-2018

Amendment of Tennis Court and Trail Grant Application

Whereas, the City of Ishpeming previously supports the submission of an application titled "Ishpeming Tennis Court and Trail Project" to the Michigan Natural Resources Trust Fund in Resolution #5-2018; and

Whereas, this application is for development of new tennis courts and a trail connection at the Ishpeming Playground Park; and

Whereas, the proposed application is supported by the Community's 5-year approved Parks and Recreation Plan; and;

Whereas, residents of the City of Ishpeming were provided with a well-advertised opportunity to express opinions, ask questions, and discuss all aspects of the grant application at a Public meeting on March 7, 2018; and

Whereas, the public has shown strong support for this Tennis Court and Trail Project via the original commitment of \$120,500 donated for this purpose, plus an additional \$9,500 in local match, totaling \$130,000 (30.2% of the project cost), to be combined with grant funds in the amount of \$300,000 for a total project cost of \$430,000; and

Whereas, the City of Ishpeming is hereby making a commitment to act as the fiduciary for the \$130,000 in private donations and ensure that they are available for the cash match; and

Whereas, the City of Ishpeming and the Ishpeming School District have agreed to an efficient and effective "Use and Maintenance Agreement;" and

Whereas, the City of Ishpeming and the Ishpeming School District have removed previous encumbrances on this land that might have prevented the full and free public use in perpetuity of this property for public recreation; and

Now, therefore be it resolved the City Council for the City of Ishpeming hereby authorizes the submission of a Michigan Natural Resources Trust Fund application in the amount of \$300,000, and further resolves to make available its financial obligation of \$130,000 (30%) of a total \$430,000 project cost, to be constructed during 2019-2020 time period;

Be it further resolved that the City Council authorizes City Manager Mark Slown to submit the grant application, this amended resolution, and other supplemental information on behalf of the City.

Yeas:

Nays:

City of Ishpeming

City Council Resolution # 5-2018

Approval of Tennis Court and Trail Grant Application

Whereas, the City of Ishpeming supports the submission of an application titled "Ishpeming Tennis Court and Trail Project" to the Michigan Natural Resources Trust Fund for the development of new tennis courts and a trail connection at the Ishpeming Playground Park; and

Whereas, the proposed application is supported by the Community's 5-year approved Parks and Recreation Plan; and; and

Whereas, residents of the City of Ishpeming were provided with a well-advertised opportunity to express opinions, ask questions, and discuss all aspects of the grant application at a Public meeting on March 7, 2018; and

Whereas, the public has shown strong support for this Tennis Court and Trail Project via commitment of over \$120,500 in funds donated for this purpose, to be combined with grant funds in the amount of \$300,000 for a total project cost of \$420,500; and

Whereas, the City of Ishpeming is hereby making a commitment to act as the fiduciary for the \$120,500 in private donations and ensure that they are available for the cash match; and

Whereas, the City of Ishpeming is working with the Ishpeming School District to ensure that an efficient and effective "Use and Maintenance Agreement" is in place for this project; and

Whereas, the City of Ishpeming is working with the Ishpeming School District to ensure that no encumbrances exist on this land preventing the full and free public use in perpetuity of this property for public recreation; and

Now, therefore be it resolved the City Council for the City of Ishpeming hereby authorizes the submission of a Michigan Natural Resources Trust Fund application in the amount of \$300,000, and further resolves to make available its financial obligation of \$120,500 (28%) of a total \$420,500 project cost, during 2019

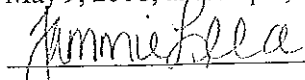
Be it further resolved that the City Council authorizes City Manager Mark Slown to submit the grant application on behalf of the City.

Yeas: Mayor Pro Tem Koski, Council Members Karl Lehmann and Mike Tonkin (3)

Nays: Council Member Stuart Skauge (1)

Absent: Mayor Joseph Juidici (1)

I, Tammie Leece, City Clerk, do hereby certify that the foregoing is a true and original copy of an amended resolution duly made and passed by the City Council of Ishpeming at a Regular Meeting held on May 9, 2018, at 7:00 pm, with a quorum present.


Tammie Leece

5-11-18
Date

2018 Tax Rate Request (This form must be completed and submitted on or before September 30, 2018)

Carefully read the instructions on page 2.

MILLAGE REQUEST REPORT TO COUNTY BOARD OF COMMISSIONERS

This form is issued under authority of MCL Sections 211.24e, 211.34 and 211.34d. Filing is mandatory. Penalty applies.

County(ies) Where the Local Government Unit Levies Taxes

MARQUETTE COUNTY

2018 Taxable Value of ALL Properties in the Unit as of 5-29-18

\$119,488,574

Local Government Unit Requesting Millage Levy
CITY OF ISHPEMING

This form must be completed for each unit of government for which a property tax is levied. Penalty for non-filing is provided under MCL Sec 211.119. The following tax rates have been authorized for levy on the 2018 tax roll.

(1) Source	(2) Purpose of Millage	(3) Date of Election	(4) Original Millage Authorized by Charter, etc.	(5) ** 2017 Millage Rate Permanently Reduced by MCL 211.34d "Headlee"	(6) 2018 Current Year "Headlee" Millage Reduction Fraction	(7) 2018 Millage Rate Permanently Reduced by MCL 211.34d "Headlee"	(8) Sec. 211.34 Truth In Assessing or Equalization Millage Rollback Fraction	(9) Maximum Allowable Millage Levy *	(10) Millage Requested to be Levied July 1	(11) Millage Requested to be Levied Dec. 1	(12) Expiration Date of Millage Authorized
CHARTER	GENERAL OPERATING	N/A	15.0000	13.4433	.9934	13.3545	1.0000	13.3545		13.3545	N/A
ACT 345	RETIREMENT	N/A	N/A	N/A	N/A	N/A	N/A	N/A		1.9835	N/A
CHARTER	PUB IMPROVEMENTS	NA	5.0000	4.4810	.9934	4.4514	1.0000	4.4514		4.4514	N/A
VOTED	FIRE EQUIP	AUG-17	.9000	.9000	.9934	.8940	1.0000	.8940		.8940	2028

Prepared by JACKI LYKINS	Telephone Number 906-225-8411	Title of Preparer ASSESSOR	Date 9/17/2018
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CERTIFICATION: As the representatives for the local government unit named above, we certify that these requested tax levy rates have been reduced, if necessary to comply with the state constitution (Article 9, Section 31), and that the requested levy rates have also been reduced, if necessary, to comply with MCL Sections 211.24e, 211.34 and, for LOCAL school districts which levy a Supplemental (Hold Harmless) Millage, 380.121(3).

<input type="checkbox"/> Clerk	Signature	Print Name	Date 9/17/2018
<input type="checkbox"/> Secretary			
<input type="checkbox"/> Chairperson	Signature	Print Name	Date
<input type="checkbox"/> President			

* Under Truth In Taxation, MCL Section 211.24e, the governing body may decide to levy a rate which will not exceed the maximum authorized rate allowed in column 9. The requirements of MCL 211.24e must be met prior to levying an operating levy which is larger than the base tax rate but not larger than the rate in column 9.

**** IMPORTANT:** See instructions on page 2 regarding where to find the millage rate used in column (5).

Local School District Use Only. Complete if requesting millage to be levied. See STC Bulletin 3 of 2018 for instructions on completing this section.	
Total School District Operating Rates to be Levied (HH/Supp and NH Oper ONLY)	Rate
For Principal Residence, Qualified Ag, Qualified Forest and Industrial Personal	
For Commercial Personal	
For all Other	