



State of Ohio
Public Works Commission
Application for Financial Assistance

IMPORTANT: Please consult "Instructions for Financial Assistance for Capital Infrastructure Projects" for guidance in completion of this form.

Applicant

Applicant: Village of Hamler Subdivision Code: 069-33096
 District Number: 5 County: Henry Date: 09/07/2018
 Contact: Greg Bockrath P.E., P.S. Phone: (419) 523-5789
(The individual who will be available during business hours and who can best answer or coordinate the response to questions)
 Email: greg@bockrath-es.com FAX: (419) 523-5799

Project Name: Hubbard Street Water Main Replacement & Sanitary Sewer Extension Zip Code: 43524

Project

Subdivision Type <small>(Select one)</small>	Project Type <small>(Select single largest component by \$)</small>	Funding Request Summary <small>(Automatically populates from page 2)</small>
<input type="checkbox"/> 1. County	<input type="checkbox"/> 1. Road	Total Project Cost: <u>200,000.00</u>
<input type="checkbox"/> 2. City	<input type="checkbox"/> 2. Bridge/Culvert	1. Grant: <u>100,000.00</u>
<input type="checkbox"/> 3. Township	<input checked="" type="checkbox"/> 3. Water Supply	2. Loan: <u>100,000.00</u>
<input checked="" type="checkbox"/> 4. Village	<input type="checkbox"/> 4. Wastewater	3. Loan Assistance/ Credit Enhancement: <u>0.00</u>
<input type="checkbox"/> 5. Water (6119 Water District)	<input type="checkbox"/> 5. Solid Waste	Funding Requested: <u>200,000.00</u>
	<input type="checkbox"/> 6. Stormwater	

District Recommendation (To be completed by the District Committee)

Funding Type Requested <small>(Select one)</small>	SCIP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> State Capital Improvement Program	RLP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> Local Transportation Improvement Program	Grant:	Amount: _____ .00
<input type="checkbox"/> Revolving Loan Program	LTIP:	Amount: _____ .00
<input type="checkbox"/> Small Government Program	Loan Assistance / Credit Enhancement:	Amount: _____ .00
District SG Priority: _____		

For OPWC Use Only

STATUS: _____ Grant Amount: _____ .00 Loan Type: SCIP RLP
 Project Number: _____ Loan Amount: _____ .00 Date Construction End: _____
 _____ Total Funding: _____ .00 Date Maturity: _____
 Release Date: _____ Local Participation: _____ % Rate: _____ %
 OPWC Approval: _____ OPWC Participation: _____ % Term: _____ Yrs

District 5

Capital Improvement Project

Priority Rating Sheet, Round 33

Revised 04/17/18

PROJECT NUMBER

COUNTY:												PROJECT NUMBER					
PROJECT:																	
EST. COST:																	
No.	"A" WEIGHT FACTOR	CRITERIA TO BE CONSIDERED	"B" PRIORITY FACTORS					"A" x "B"	Priority Factors						No.		
			0	2	4	6	8		10	0	2	4	6	8		10	
1	1	(Repair or Replace) vs. (New or Expansion)	0	2	4	6	8	10	10	Repair or Reclamation	Repair or Reclamation	Repair or Reclamation	60%+ Repair or Replacement	80%+ Repair or Replacement	100%+ Repair or Replacement	1	
2	1.5	Existing Physical Condition: Must submit substantiating documentation and CIR (100% New or Expansion = 0 Points)	0	2	4	6	8	10	9	Excellent	Good	Fair	Poor	Critical	Closed or Not Operating	2	
3	2	Public Health and/or Public Safety Concerns Submittals without supporting documentation will receive 0 points for this criterion.	0	2	4	6	8	10	10	No Impact	Minimal	Moderate	Major	Critical	Extremely Critical	3	
4	2	Percentage of Local Share (Local funds are funds derived from the applicant budget or a loan to be paid back through the applicant budget, assessments, rates or tax/revenues)	0	2	4	6	8	10	20	0%+	10%+	20%+	30%+	40%+	50%+	4	
5	1	OTHER FUNDING SOURCES (Excluding Issue II Funds) (Grants and other revenues not contributed or collected through taxes by the applicant, including Gifts, Contributions, etc. - must submit copy of award or status letter.)	0	2	4	6	8	10	0	0%+	10%+	20%+	30%+	40%+	50%+	5	
No.	"A" WEIGHT FACTOR	CRITERIA TO BE CONSIDERED	"B" PRIORITY FACTORS					"A" x "B"	Priority Factors						No.		
			-9	-8	0	8	9		10	-9	-8	0	8	9		10	
6	2	OPWC Grant and Loan Funding Requested, Please refer to Item 6 on Questionnaire for Clarification.	-9	-8	0	8	9	10	20	Grant or Loan Only \$500,001	\$400,001 to	\$325,001	\$275,001	\$175,001	\$175,000	6	
	2		-9	-8	0	8	9	10	20	Grant/Loan Combination \$750,000	\$600,001 to	\$487,501 to	\$412,501 to	\$262,501 to	\$262,500	6	
When scoring a project that is only grant or only loan. Please use the chart labeled "Grant or Loan Only". When scoring a grant/loan combination, score the project for the grant in the first chart, then use the second chart labeled "Grant/Loan Combination" to score the total (grant and loan combined). Use the lower of the two as the score.																	
No.	"A" WEIGHT FACTOR	CRITERIA TO BE CONSIDERED	"B" PRIORITY FACTORS					"A" x "B"	Priority Factors						No.		
			0	2	4	6	8		10	0+	7+	15+	25+	50+		100+	
7	1	Will the Proposed Project Create Permanent jobs or retain jobs that would otherwise be permanently lost (Written Documentation Required)	0	2	4	6	8	10	0	0+ jobs	7+ jobs	15+ jobs	25+ jobs	50+ jobs	100+ jobs	8	
8	1	Benefits to Existing Users such as households, (Equivalent dwelling units), traffic counts, etc.	0	2	4	6	8	10	0	0+	100+	350+	500+	750+	1000+	9	
9		SUBTOTAL RANKING POINTS (MAX = 115)							Other Info: Does this project have a significant impact on productive farmland? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> Attach impact statement if yes. Is the Applicant ready to proceed to bids after State Approval within 6 months? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>								
10		COUNTY PRIORITY POINTS (25-30)															
11		DISCRETIONARY POINTS (BY DISTRICT ONLY) (MAX=12)															
12		GRAND TOTAL RANKING POINTS															

* Applicants must certify local share contribution. Specify, all funding sources to be utilized as local share at the time of application submittal.

Bockrath &

Associates
Engineering and Surveying, LLC
115 S. Fair Avenue, Suite A - Ottawa - Ohio 45875
Phone: 419.523.5789

Ohio Public Works Commission

Henry County - District 5
Grant Application Submittal
Program Year 33

Village of Hamler, Ohio
Hubbard Street Water Main
Replacement & Sanitary Sewer
Extension



GREGORY A. BOCKRATH P.E., P.S.
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ENGINEERING AND SURVEYING, LLC
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www.bockrath-es.com

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1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

1.1 Project Estimated Costs

Engineering Services

Preliminary Design:	<u>6,500</u> .00		
Final Design:	<u>6,500</u> .00		
Construction Administration:	<u>2,000</u> .00		
Total Engineering Services:	a.) <u>15,000</u> .00	<u>8</u> %	
Right of Way:	b.) _____ .00		
Construction:	c.) <u>180,160</u> .00		
Materials Purchased Directly:	d.) _____ .00		
Permits, Advertising, Legal:	e.) _____ .00		
Construction Contingencies:	f.) <u>4,840</u> .00	<u>3</u> %	
Total Estimated Costs:	g.) <u>200,000</u> .00		

1.2 Project Financial Resources

Local Resources

Local In-Kind or Force Account:	a.) _____ .00		
Local Revenues:	b.) _____ .00		
Other Public Revenues:	c.) _____ .00		
ODOT / FHWA PID: _____	d.) _____ .00		
USDA Rural Development:	e.) _____ .00		
OEPA / OWDA:	f.) _____ .00		
CDBG:	g.) _____ .00		
<input type="checkbox"/> County Entitlement or Community Dev. "Formula"			
<input type="checkbox"/> Department of Development			
Other: _____	h.) _____ .00		
Subtotal Local Resources:	i.) <u>0</u> .00	<u>0</u> %	

OPWC Funds (Check all requested and enter Amount)

Grant: <u>50</u> % of OPWC Funds	j.) <u>100,000</u> .00		
Loan: <u>50</u> % of OPWC Funds	k.) <u>100,000</u> .00		
Loan Assistance / Credit Enhancement:	l.) <u>0</u> .00		
Subtotal OPWC Funds:	m.) <u>200,000</u> .00	<u>100</u> %	
Total Financial Resources:	n.) <u>200,000</u> .00	<u>100</u> %	

1.3 Availability of Local Funds

Attach a statement signed by the Chief Financial Officer listed in section 5.2 certifying all local resources required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

2.0 Repair / Replacement or New / Expansion

2.1 Total Portion of Project Repair / Replacement:	<u>119,000</u> .00	<u>60</u> %
2.2 Total Portion of Project New / Expansion:	<u>81,000</u> .00	<u>41</u> %
2.3 Total Project:	<u>200,000</u> .00	<u>100</u> %

A Farmland Preservation letter is required for any impact to farmland

3.0 Project Schedule

3.1 Engineering / Design / Right of Way	Begin Date: <u>08/15/2018</u>	End Date: <u>03/30/2019</u>
3.2 Bid Advertisement and Award	Begin Date: <u>07/15/2019</u>	End Date: <u>08/15/2019</u>
3.3 Construction	Begin Date: <u>09/01/2019</u>	End Date: <u>06/30/2020</u>

Construction cannot begin prior to release of executed Project Agreement and issuance of Notice to Proceed.

Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by project official of record and approved by the Commission once the Project Agreement has been executed.

4.0 Project Information

If the project is multi-jurisdictional, information must be consolidated in this section.

4.1 Useful Life / Cost Estimate / Age of Infrastructure

Project Useful Life: 40 Years Age: 1950 (Year built or year of last major improvement)

Attach Registered Professional Engineer's statement, with seal or stamp and signature confirming the project's useful life indicated above and detailed cost estimate.

4.2 User Information

Road or Bridge: Current ADT _____ Year _____ Projected ADT _____ Year _____

Water / Wastewater: Based on monthly usage of 4,500 gallons per household; attach current ordinances.

Residential Water Rate Current \$ 42.75 Proposed \$ 69.75

Number of households served: 3

Residential Wastewater Rate Current \$ 64.00 Proposed \$ 72.75

Number of households served: 3

Stormwater: Number of households served: 0

4.3 Project Description

- A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 500 character limit.

Water Main Replacement - Beginning at a point on the North side of E. Hubbard St. & the East side of 2nd St., thence South in 2nd St. R/W 204', thence West along the South side of lots 1650' also a 488' loop to the North side of Twp. Rd. E. Sanitary Sewer Extension - Beginning at a point 150' West of an existing SAN MH in the intersection of Hubbard St. & 1st St., thence South 195' to a proposed SAN MH thence West 1200' and there terminate. Located in the Village of Hamler, Henry County, Ohio.

- B: PROJECT COMPONENTS (Describe the specific work to be completed; the engineer's estimate does not replace this requirement) 1,000 character limit.

The project consists of replacing & extending the existing 6" Water Main and eliminating a Dead End 4" Water Main. Also, consists of extending the existing Gravity Sanitary Sewer to service residential Lots.

- 1) 2350 LF of 6" Water Main, C900 PVC
- 2) 5 Fire Hydrant Assemblies
- 3) 1400 LF of 8" Gravity Sewer Pipe, SDR 35
- 4) 5 Concrete Sanitary Sewer Manholes

- C: PHYSICAL DIMENSIONS (Describe the physical dimensions of the existing facility and the proposed facility. Include length, width, quantity and sizes, mgd capacity, etc in detail.) 500 character limit.

Total Length of the 6" Water Main Replacement is 2350 LF and includes 3 Fire Hydrants and valves. Total length of the 8 inch Gravity Sanitary Sewer Extension is 1400 LF and includes 5 Sanitary Sewer Manhole.

5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

5.1 Chief Executive Officer (Person authorized in legislation to sign project agreements)

Name: Jeff Brubaker
Title: Mayor of Hamler
Address: 871 E. Hubbard Street

City: Hamler State: OH Zip: 43524
Phone: (419) 274-7651
FAX:
E-Mail: hamlermayor@gmail.com

5.2 Chief Financial Officer (Can not also serve as CEO)

Name: Shelly Grant
Title: Fiscal Officer of Hamler
Address: 871 E. Hubbard Street

City: Hamler State: OH Zip: 43524
Phone: (419) 274-7651
FAX:
E-Mail: shellygrant4@yahoo.com

5.3 Project Manager

Name: Greg Bockrath P.E., P.S.
Title: Owner / Manager Bockrath & Associates
Address: 115 S. Fair Ave., Suite A

City: Ottawa State: OH Zip: 45875
Phone: (419) 523-5789
FAX: (419) 523-5799
E-Mail: greg@bockrath-es.com

6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- A certification signed by the applicant's chief financial officer stating the amount of all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's seal or stamp and signature.
- A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- Farmland Preservation Review - The Governor's Executive Order 98-IV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.
- Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.
- Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

7.0 Applicant Certification

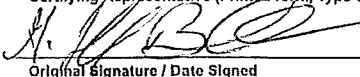
The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Jeff Brubaker - Mayor of Hamler

Certifying Representative (Printed Name, Type or Print Name and Title)

Original Signature / Date Signed

 06 Aug 2018

Resolution # 003-2018
AUTHORIZING LEGISLATION

A RESOLUTION AUTHORIZING **JEFF BRUBAKER – MAYOR OF HAMLER** TO PREPARE AND SUBMIT AN APPLICATION TO PARTICIPATE IN THE OHIO PUBLIC WORKS COMMISSION STATE CAPITAL IMPROVEMENT AND / OR LOCAL TRANSPORTATION IMPROVEMENT PROGRAM(S) – Program Year 33 - AND TO EXECUTE CONTRACTS AS REQUIRED

WHEREAS, the State Capital Improvement Program and the Local Transportation Improvement Program both provide financial assistance to political subdivisions for capital improvements to public infrastructure, and

WHEREAS, the Village of Hamler is planning to make capital improvements to the Hubbard Street Water Main Replacement & Sanitary Sewer Extension Project

WHEREAS, the infrastructure improvement herein above described is considered to be a priority need for the community and is a qualified project under the OPWC programs,

NOW THEREFORE, BE IT RESOLVED by Village of Hamler:

Section 1: The **Mayor of Hamler, Jeff Brubaker** is hereby authorized to apply to the OPWC for funds as described above.

Section 2: The **Fiscal Officer of Hamler, Shelly Grant** is authorized to enter into any agreements as may be necessary and appropriate for obtaining this financial assistance.

Passed on this Date of: 06 Aug 2018

Signed: 

Printed Name: G. Jeff Brubaker

Title: MAYOR

CHIEF FINANCIAL OFFICER'S CERTIFICATION OF LOCAL FUNDS /
LOAN REPAYMENT LETTER

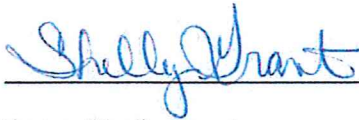
August 06, 2018

I, Fiscal Officer of the Village of Hamler, hereby certify that the Village of Hamler, has the amount of \$ _____ in the _____ Account / Fund and that this amount will be used to pay the local share for the Hubbard Street Water Main Replacement & Sanitary Sewer Extension Project when it is required.

{NOTE: If the application is for a loan or grant / loan combination the following paragraph is also required.}

I, Fiscal Officer of the Village of Hamler, hereby certify that the Village of Hamler has / will have / will collect the amount of \$ 100,000.00 (Loan Amount) in the General Account / Fund and that this amount will be used to repay the Ohio Public Works Commission SCIP or RLP loan requested for the Hubbard Street Water Main Replacement & Sanitary Sewer Extension Project over a 20-year term.

Signed: _____



Printed Name: Shelly Grant

Title: Fiscal Officer of Hamler

FARMLAND PRESERVATION REVIEW LETTER

**FARMLAND PRESERVATION REVIEW
FOR THE OHIO PUBLIC WORKS COMMISSION**

July 1, 2018

Ref: Village of Hamler - Hubbard Street Water Main Replacement & Sanitary Sewer Extension

This review is to comply with Farmland Preservation Review Advisory of the Ohio Public Works Commission and the Governor's Executive Order 98-IV. This review was accomplished by the Village of Hamler.

1. The immediate impact the project will have on productive agricultural and grazing land related to land acquisition.

None

2. Indirect impact that will result in the loss of productive agricultural and grazing land from development related to the project.

None

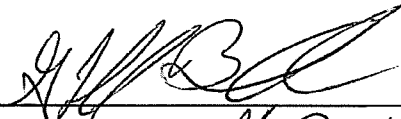
3. Mitigation measures that could be implemented when alternative sites or locations are not feasible.

N/A

Signed: _____

Printed Name: _____

Title: _____


G. J. A. Binkaker
Mayor

Bockrath & Associates

Engineering and Surveying, LLC

115 S. Fair Avenue, Suite A - Ottawa - Ohio 45875
Phone: 419.523.5789

Village of Hamler - Hubbard St. Water Main & Sanitary Sewer Extension OPWC Round 33 - District 5

Engineer's Estimate and Useful Life

Ref. No.	ODOT Item	Item Description	Quantity	Unit	Unit Cost	Subtotal
1	201	Clearing & Grubbing	1	LS	\$ 500.00	\$ 500.00
2	202	Asphalt Pavement Removed (Includes Saw Cut)	22	SY	\$ 10.00	\$ 220.00
3	441	Asphalt Conc. Surface, Type 1,(448) PG 64-22	4	CY	\$ 250.00	\$ 1,000.00
4	638	6" Water Main, C900 PVC (Earth Backfill)	2,210	LF	\$ 31.00	\$ 68,510.00
5	638	6" Water Main, C900 PVC (Under Road / Aggregate Backfill)	60	LF	\$ 40.00	\$ 2,400.00
6	638	6" Water Main, C900 PVC (Directional Bore Under SR 109)	80	LF	\$ 70.00	\$ 5,600.00
7	638	6" Gate Valve, Valve Box & Blocking	5	EA	\$ 1,200.00	\$ 6,000.00
8	638	6" Live Tap with Valve	1	EA	\$ 3,000.00	\$ 3,000.00
9	638	Connect to Existing Water Main	1	EA	\$ 1,500.00	\$ 1,500.00
10	638	6" Ductile Tees for Water Main	3	EA	\$ 450.00	\$ 1,350.00
11	638	6" Fire Hydrant Assembly & 6" C909 PVC from valve to Hyd.	3	EA	\$ 4,500.00	\$ 13,500.00
12	611	8" Gravity Sewer Pipe SDR 35 (ASTM 3034) (Earth Backfill)	1,400	LF	\$ 30.50	\$ 42,700.00
13	611	8"x8"x6" Sewer Pipe Tee & Cleanout for Service Lateral	6	EA	\$ 600.00	\$ 3,600.00
14	611	Sanitary Sewer Manhole	5	EA	\$ 4,500.00	\$ 22,500.00
15	611	Connect to Existing Sanitary Sewer with Manhole (Core & Boot)	1	EA	\$ 2,000.00	\$ 2,000.00
16	659	As Built Drawings	1	LS	\$ 500.00	\$ 500.00
17	614	Maintaining Traffic	1	LS	\$ 2,000.00	\$ 2,000.00
18	624	Mobilization	1	LS	\$ 2,000.00	\$ 2,000.00
19	659	Restoration (Fine Grading & Seeding)	1	LS	\$ 3,000.00	\$ 3,000.00

Subtotal	\$ 180,160
Engineering Services	\$ 15,000
Construction Contingency	\$ 4,840
GRAND TOTAL	\$ 200,000

The above estimate accounts for State Prevailing Wage Rates
Useful Life Certification - Water & Sanitary Sewer 40 years = WUL - 40.0 years

Cost Estimate Prepared By:
Gregory A. Bockrath P.E., P.S.
Bockrath & Associates Engineering and Surveying, LLC
115 S. Fair Avenue, Suite A
Ottawa, OH 45875
Phone: (419) 523-5789



Village of Hamler - Hubbard Street Water Main & Sanitary Sewer Extension

Weighted Useful Life & Design Service Capacity Calculations

Major Component	Cost (\$1,000)	Portion Repair / Replacement (%)	Repair / Replace Product	Useful Life (Years)	Useful Life Product
Full-depth road construction w/ drainage				25	
Full-depth road construction w/o drainage				25	
Partial-depth road construction w/ drainage				15	
Partial-depth road construction w/o drainage				15	
Storm Sewers				40	
Sanitary Sewers	81			40	3240
Water Lines	119	100	11900	40	4760
Bridge				75	
Pumps, Lift Stations				15	
Sidewalks				25	
Bike Facility				7	
Asphalt Overlay				20	
Chip Seal				10	
Totals	200		11900		8000

Weighted Useful Life: 40.0 Years

Design Service Capacity (Project Application, Section 2.0):

Portion Repair / Replace	60 %
Portion New / Expansion	40 %

- The above estimate accounts for State Prevailing Wage Rates

Prepared By:
 Gregory A. Bockrath P.E., P.S.
 Bockrath & Associates Engineering and Surveying LLC
 115 S. Fair Avenue, Suite A
 Ottawa, OH 45875
 Phone: (419) 523-5789



Hubbard Street Water Main Replacement & Sanitary Sewer Extension Hamler, Ohio Location Map



ORDINANCE NO 2018-003

AN ORDINANCE TO INCREASE THE SURCHARGE
FOR SEWAGE USAGE

WHEREAS, The Village of Hamler, Ohio, has in operation a municipal sanitary sewage system operation;

WHEREAS, it is necessary to raise the minimum monthly charge in order to raise sufficient funds to operate the sanitary sewage system.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE VILLAGE OF HAMLER, OHIO, TWO-THIRDS OF ITS MEMBERS CONCURRING THERETO, THAT:

Section 1: Ordinance No. 695-02, and Ordinance _____ Section 2 (a), (b), and (c) shall read as follows:

- a) The sum thirty-three dollars (\$33.00) per meter, regardless of usage, to be held in segregated funds for capital sewer improvements.
- b) The sum of ten dollars (\$10.00) for the first one thousand (1,000) gallons of water consumption or part thereof used monthly, along with a minimum monthly charge of ten dollars (\$10.00).
- c) The sum of eight dollars and fifty cents (\$8.50) for each 1,000 gallons of water used in excess of 1,000 gallons effective at the earliest billing cycle after this ordinance takes effect.

Section 2: That this Ordinance shall take effect from and after the earliest period allowed by law.

1st Reading: _____

2nd Reading: _____

3rd Reading: _____

Passed _____

Mayor

Attest: _____
Clerk

ORDINANCE NO 2018-002

AN ORDINANCE TO INCREASE THE SURCHARGE FOR EXCESS WATER USAGE

WHEREAS, The Village of Hamler, Ohio, has in operation a waterworks operation;

WHEREAS, it is necessary to raise the minimum monthly charge for water consumption to efficiently operate the waterworks operation.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE VILLAGE OF HAMLER, OHIO, TWO-THIRDS OF ITS MEMBERS CONCURRING THERETO, THAT:

Section 1: Ordinance No. 621-02, and Ordinance 710-06 Section 2 (a), (b), and (c) shall read as follows:

- a) A minimum charge of twenty dollars (\$20.00) for a maximum of one thousand gallons (1,000) water consumption per month or part thereof payable monthly, plus an additional twenty dollars (\$20.00) added to every meter for debt reduction measures, and an additional five dollars (\$5.00) added to every meter that measures two inches in diameter and above.
- b) The sum of eight dollars and fifty cents (\$8.50) for each 1,000 gallons of water used in excess of 1,000 gallons; the rates in this ordinance shall be effective at the earliest billing cycle after this ordinance takes effect.
- c) The sum of ten dollars (\$10.00) for each one thousand (1,000) gallons of treated water tank load acquired at the waterworks plant.

Section 2: That this Ordinance shall take effect from and after the earliest period allowed by law.

1st Reading: 8-18-18

2nd Reading: _____

3rd Reading: _____

Passed _____

Mayor

Attest: _____
Clerk

ORDINANCE NO: 2013-02

AN ORDINANCE TO INCREASE THE SURCHARGE
FOR SEWAGE USAGE

WHEREAS, The Village of Hamler, Ohio, has in operation a municipal sanitary sewage system operation;

WHEREAS, it is necessary to raise the minimum monthly charge in order to raise sufficient funds to pay for necessary improvements to the current system.


NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE VILLAGE OF HAMLER, OHIO, TWO-THIRDS OF ITS MEMBERS CONCURRING THERETO, THAT:

Section 1: Ordinance No. 695-02, and Ordinance 710-06 Section 2 (a), (b), and (c) shall read as follows:

- a) The sum thirty-three dollars (\$33.00) per meter, regardless of usage, to be held in segregated funds for capital sewer improvements;
- b) The sum of ten dollars (\$10.00) for the first one thousand (1,000) gallons of water consumption or part thereof used monthly, and.
- c) The sum of five dollars (\$5.00) for each 1,000 gallons of water used in excess of 1,000 gallons effective upon passage of this ordinance; and effective January 1, 2014 the sum of five dollars and fifty cents (\$5.50); and effective January 1, 2015 the sum of six dollars (\$6.00); and effective January 1, 2016 the sum of six dollars and fifty cents shall be charged for water consumption used in excess of 1,000 gallons.

Section 2: This ordinance will go into force after three full readings of council.

Passed 3-4-13


Mayor

Attest: 
Clerk

ORDINANCE NO: 2013-01

AN ORDINANCE TO INCREASE THE SURCHARGE FOR EXCESS WATER USAGE

WHEREAS, The Village of Hamler, Ohio, has in operation a waterworks operation;

WHEREAS, it is necessary to raise the minimum monthly charge for water consumption and in order to raise sufficient funds to pay for necessary improvements to the current water system.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE VILLAGE OF HAMLER, OHIO, TWO-THIRDS OF ITS MEMBERS CONCURRING THERETO, THAT:

Section 1: Ordinance No. 621-02, and Ordinance 710-06 Section 2 (a), (b), and (c) shall read as follows:

- a) A minimum charge of twenty dollars (\$20.00) for a maximum of one thousand gallons (1,000) water consumption per month or part thereof payable monthly;
- b) The sum of five dollars (\$5.00) for each 1,000 gallons of water used in excess of 1,000 gallons effective upon the passage of this ordinance; and effective January 1, 2014 the sum of five dollars and fifty cents (\$5.50); and effective January 1, 2015 the sum of six dollars (\$6.00); and effective January 1, 2016 the sum of six dollars and fifty cents (\$6.50) shall be charged for water used in excess of 1,000 gallons.
- c) The sum of ten dollars (\$10.00) for each one thousand (1,000) gallons of untreated water tank load acquired at the waterworks plant.

Section 2: This ordinance will go into force after three full readings of council.

Passed 3-4-13

Jeff Bumbach
Mayor

Attest: Shelly Gray
Clerk

Revised: April 17, 2018

DISTRICT 5
CAPITAL IMPROVEMENT PROJECTS
QUESTIONNAIRE
ROUND 33

Name of Applicant: Village of Hamler
Project Title: Hubbard Street Water Main Replacement & Sanitary Sewer Extension

The following questions are to be answered for each application submitted for State Issue II SCIP, LTIP and Loan Projects. Please provide specific information using the best documentation available to you. Justification of your responses to these questions will be required if your project is selected for funding, so please provide correct and accurate responses. **Communities and Townships under 5,000 in population should also complete the Small Government Criteria.**

1. What percentage of the project in repair A= __%, replacement B= 60%, expansion C= 40%, and new D= 0%? (Use dollar amounts of project to figure percentages and make sure the total equals one hundred(100) percent) A+B= 60% C+D= 40%

Repair/Replacement = Repair or Replacement of public facilities owned by the government (any subdivision of the state).

New/Expansion = Replacement of privately owned wells, septic systems, private water or wastewater systems, etc.

2. Give the physical condition rating:

Closed or Not Operating: The condition is unusable, dangerous and unsafe. The primary components have failed. The infrastructure is not functioning at all.

Critical: The condition is causing or contributing to a serious non-compliance situation and is threatening the intended design level of service. The infrastructure is functioning at seriously diminished capacity. Imminent failure is anticipated within 18 months. Repair and/or replacement is required to eliminate the critical condition and meet current design standards. **(For Road Projects structural repair items would represent a minimum of 25% of the total Project Cost).**

Poor:

The condition is substandard and requires repair/replacement in order to return to the intended level of service and comply with current design standards. Infrastructure contains a major deficiency and is functioning at a diminished capacity.

Fair:

The condition is average, not good or poor. The infrastructure is still functioning as originally intended. Minor deficiencies exist requiring repair to continue to function as originally intended and/or to meet current design standards.

Good: The condition is safe and suitable to purpose. Infrastructure is functioning as originally intended, but requires minor repairs and/or upgrades to meet current design standards.

Excellent: The condition is new, or requires no repair. Or, no supporting documentation has been submitted.

* **In order to receive points provide supporting documentation (e.g. photos, a narrative, maintenance history, or third party findings) to justifying the rating.**

3. If the proposed project is not approved what category would best represent the impact on the general health and/or public safety?

ROADS

Extremely Critical: Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Major Access Road.*

Critical: Resurfacing, Restoration and Rehabilitation (3R) of a Major Access Road.*

Major: Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Minor Access Road.*

Moderate: Resurfacing, Restoration and Rehabilitation (3R) of a Minor Access Road.*

Minimal: Preventative Maintenance of a Major Access Road.

No Impact: Preventative Maintenance of a Minor Access Road.

Projects that have a variety of work will be scored in the LOWEST category of work contained in the Construction Estimate.

Road/Street Classifications:

Major Access Road: Roads or streets that have a dual function of providing access to adjacent properties and providing through or connecting service between other roads.

Minor Access Road: Roads or streets that primarily provide access to adjacent properties without through continuity, such as cul-de-sacs or loop roads or streets.

Preventative Maintenance: Non Structural Pavement work such as chip sealing, cape sealing, microsurfacing, crack sealing, etc.

*(3R) Resurfacing, Restoration and Rehabilitation - Improvements to existing roadways, which have as their main purpose, the restoration of the physical features (pavement, curb, guardrail, etc.) without altering the original design elements.

*(4R) Resurfacing, Restoration, Rehabilitation and Reconstruction - Much like 3R, except that 4R allows for the complete reconstruction of the roadway and alteration of certain design elements (i.e., lane widths, shoulder

width, SSD, etc.).

BRIDGES SUFFICIENCY RATING

- Extremely Critical: 0-25, or a General Appraisal rating of 3 or less.
- Critical: 27-50, or a General Appraisal rating of 4.
- Major: 51-65 or a General Appraisal rating of 5 or 6.
- Moderate: 66-80 or a General Appraisal rating of 7.
- Minimal: 81-100 or a General Appraisal rating of more than 7.
- No Impact: Bridge on a new roadway.

WASTEWATER TREATMENT PLANTS

- Extremely Critical: Environmental Protection Agency (EPA) orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.
- Moderate: Increase capacity to meet current needs or update processes to improve effluent quality.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

WATER TREATMENT PLANT

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Improvements to meet Environmental Protection Agency (EPA) Safe Drinking Water Regulations and/or NPDES Orders.
- Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.
- Moderate: Increase capacity to meet current needs or update processes to improve water quality.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

COMBINED SEWER SEPARATIONS (May be construction of either new storm or sanitary sewer as long as the result is two separate sewer systems.)

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Separate, due to chronic backup or flooding in basements.
- Major: Separate, due to documented water quality impairment, or due to EPA recommendations.
- Moderate: Separate, due to specific development proposal within or upstream of the combined system area.
- Minimal: Separate, to conform to current design standards.
- No Impact: No positive health effect.

STORM SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Chronic flooding (structure damage).
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or project needs.

CULVERTS

- Extremely Critical: Structurally deficient or functionally obsolete. Deterioration has already caused a safety Critical: hazard to the public.
- Critical: Inadequate capacity with land damage and the existing or high probability of property damage.
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or projected needs.

Minimal: New/Expansion to meet a specific development proposal.

No Impact: New/Expansion to meet future or projected needs.

WATER LINES/WATER TOWERS

Extremely Critical: Solve low water pressure or excessive incidents of main breaks in project area.

Critical: ✓ Replace, due to deficiency such as excessive corrosion, etc.

Major: Replace undersized water lines as upgrading process.

Moderate: Increase capacity to meet current needs.

Minimal: New/Expansion project to meet a specific development proposal.

No Impact: New/Expansion to meet future or projected needs.

OTHER

Extremely Critical: There is a present health and/or safety threat.

Critical: The project will provide immediate health and/or safety benefit.

Major: The project will reduce a probable health and/or safety problem.

Moderate: The project will delay a health and/or safety problem.

Minimal: A possible future health and/or safety problem mitigation.

No Impact: No health and/or safety effect.

NOTE: Combined projects that can be rated in more than one subset may be rated in the other category at the discretion of the District 5 Executive Committee. In general, the majority of the cost or scope of the project shall determine the category under which the project will be scored.

(Submittals without supporting documentation will receive 0 Points for this question.)

Extremely Critical ____, Critical ____, Major ✓, Moderate ____, Minimal ____, No Impact ____. Explain your answer.

EPA White Paper pages on Effects of Water Age & Leaking Dead End Water Mains.

(Additional narrative, charts and/or pictures should be attached to questionnaire)

SANITARY SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Replace, due to chronic pipe failure, chronic backup or flooding in basements. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: Replace, due to inadequate capacity or infiltration, or due to EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs or to reduce inflow and infiltration.
- Minimal: ✓ New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

SANITARY LIFT STATIONS AND FORCE MAINS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety/health hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with actual or a high probability of property damage. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: EPA recommendations, or, reduces a probable health and/or safety problem.
- Moderate: Rehabilitate to increase capacity to meet current needs.
- Minimal: New/Expansion to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

WATER PUMP STATIONS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with the inability to maintain pressure required for fire flows.
- Major: Replace due to inadequate capacity or EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs.

4. Identify the amount of local funds that will be used on the project as a percentage of the total project cost.

A.) Amount of Local Funds = \$ 100 K
B.) Total Project Cost = \$ 200 K

RATIO OF LOCAL FUNDS DIVIDED by TOTAL PROJECT COSTS (A/B)= 50 %

Note: Local funds should be considered funds derived from the applicant budget or loans funds to be paid back through local budget, assessments, rates or tax revenues collected by the applicant.

5. Identify the amount of other funding sources to be used on the project, excluding State Issue II or LTIP Funds, as a percentage of the total project cost.

Grants ___% Gifts ___%, Contributions ___% ?

Other ___% (explain) _____ , Total 0 %

Note: Grant funds and other revenues not contributed or collected through taxes by the applicant should be considered other funds. The Scope of Work for each Funding Source must be the same.

6. Total Amount of SCIP and Loan Funding Requested- An Applicant can request a grant per the categories below for points as indicated on the Priority Rating Sheet. If the Applicant is including a loan request equal to, but not exceeding 50% of the OPWC funding amounts listed below, there will be no point penalty. If loan funds requested are more than 50%, points as listed in the Priority Rating Sheet will apply.

- _____ \$500,001 or More
- _____ \$400,001-\$500,000
- _____ \$325,001-\$400,000
- _____ \$275,001-\$325,000
- _____ \$175,001-\$275,000
- ✓ _____ \$175,000 or Less

There are times when the District spends all of the grant money and has loan money remaining. When this happens, the district makes a loan offer in the amount of the requested grant to the communities that were not funded. The offers are made in the order of scoring. We need to know if you are not successful in obtaining grant dollars for your project if you would be interested in loan money:

YES ✓ NO _____

(This will only be considered if you are not funded with grant money and there is remaining loan money.) **Please note: if you answer “no” you will not be contacted, only if you answer “yes” will an offer be made in the event that there is loan money remaining.**

7. If the proposed project is funded, will its completion directly result in the creation of permanent full-time equivalent (FTE) jobs (FTE jobs shall be defined as 35 hours/week) ? Yes ___ No ✓. If yes, how many jobs within eighteen months? ___ Will the completed project retain jobs that would otherwise be

permanently lost? Yes ___ No . If yes, how many jobs _____ will be created/retrained within 18 months following the completion of the improvements?

(Supporting documentation in the form of letter from affected industrial or commercial enterprises that specify full time equivalent jobs that will be retained or created directly by the installation or improvement of Public infrastructure. Additional items such as; 1) newspaper articles or other media news accounts, 2) public meeting minutes, and/or 3) a letter from the County Economic Development Director or State of Ohio Economic Development Professional that alludes to the requirement for the infrastructure improvement to support the business. Submittals without supporting documentation will receive 0 points for this question.)

8. What is the total number of existing users that will directly benefit from the proposed project if completed? _____ (Use households served, traffic counts, etc. and explain the basis by which you arrived at your number.)

9. Is subdivision's population less than 5,000 Yes No ___

If yes, continue. You may want to design your project per Small Government Project Evaluation Criteria, released for the current OPWC Round to assist in evaluating your project for potential Small Government Funding. The Small Government Criteria is available on the OPWC website at <http://www.pwc.state.oh.us/Meth.SG.PDF> If No, skip to Question 11.

10. **OHIO PUBLIC WORKS COMMISSION SMALL GOVERNMENT PROGRAM GUIDELINES**

All projects that are sponsored by a subdivision with a population of 5,000 or less, and not earning enough points for District Funding from SCIP or LTIP Funds, are then rated using the Small Government Program Rating Criteria for the corresponding funding round. In order to be rated the entity must submit the Small Government Supplement and their required budgets with their application. **Only infrastructure that is village- or township- owned is eligible for assistance.** The following policies have been adopted by the Small Government Commission:

- District Integrating Committees may submit up to seven (7) applications for consideration by the Commission. All 7 must be ranked, however, only the top five (5) will be scored. The remaining two (2) will be held as contingency projects should an application be withdrawn.
- Grants are limited to \$500,000. Any assistance above that amount must be in the form of a loan.
 - Grants for new or expanded infrastructure cannot exceed 50% of the project estimate.
- The Commission may deny funding for water and sewer systems that are deemed to be more

cost-effective if regionalized.

- If a water or sewer project is determined to be affordable, the project will be offered a loan rather than a grant. Pay special attention to the **Water & Wastewater Affordability Supplemental and the Small Government Water & Wastewater Affordability Calculation Worksheet. Both are available on the Small Government Program Tab at <http://www.pwc.state.oh.us/SmallGovernment.html>**

- Should there be more projects that meet the “annual score” than there is funding, the tie breaker is those projects which scored highest under Health & Safety, with the second tie breaker being Condition. If multiple projects have equivalent Health & Safety and Condition scores they are arranged according to the amount of assistance from low to high. Once the funded projects are announced, “contingency projects” may be funded from project under-runs by continuing down the approved project list.

- Supplemental assistance is not provided to projects previously funded by the Commission.

- Applicants have 30 days from receipt of application by OPWC without exception to provide additional documentation to make the application more competitive under the Small Government criteria. Applications will be scored after the 30-day period has expired. The applicants for each District's two (2) contingency projects will have the same 30-day period to submit supplemental information but these applications will not be scored unless necessary to do so. **It is each applicant's responsibility for determining the need for supplemental material. The applicant will not be asked for or notified of missing information unless the Commission has changed the project type and it affects the documentation required. Important information may include, but is not limited to: age of infrastructure, traffic counts or utility users, median income information, user rates ordinances, and the Auditor's Certificate of Estimated Revenues or documentation from the Auditor of State that subdivision is in a state of fiscal emergency.**

If you desire to have your Round 33 project considered for Small Government Funding please download the Small Government Evaluation Criteria applicable to Round 33 by accessing the OPWC Website at <http://www.pwc.state.oh.us/Meth.SG.PDF>. Please complete the Small Government Evaluation Criteria and attach all required supporting documentation and attach it to the District 5 Questionnaire for Round 32.

11. MANDATORY INFORMATION, DISTRICT 5, DISCRETIONARY RANKING POINTS

List all specific user fees: Amount or
ROAD & BRIDGE PROJECTS: (OHIO REVISED CODE) Percentage

Permissive license fee	4504.02 or 4504.06 _____
	4504.15 or 4504.17 _____
	4504.16 or 4504.171 _____
	4504.172 _____
	4504.18 _____
Special property taxes	5555.48 _____
	5555.49 _____

Municipal Income Tax 1% Ordinance # 550

County Sales Tax 1.5% + state 5.75% = 7.25%

Others _____

(DO NOT INCLUDE SCHOOL TAXES)

SPECIFIC PROJECT AREA INFORMATION.

Median household income 43,316

Monthly utility rate: Water \$ 69²⁵

*Based on
4500 gal/mo.*

Sewer 72²⁵

Other _____

List any special user fees or assessment (be specific)

POLITICAL SUBDIVISION= _____

COUNTY= _____

DISCRETIONARY POINTS (BY DISTRICT COMMITTEE ONLY)= _____

(25-20-15)

Date: _____

Signature: _____

Title: _____

Address: _____

Phone: _____

FAX: _____

Email: _____



Office of Water (4601M)
Office of Ground Water and Drinking Water
Distribution System Issue Paper

Effects of Water Age on Distribution System Water Quality

August 15, 2002

2.3 Water Quality Problems Associated With Increased Water Age

Table 4 lists water quality problems that can be caused or worsened by increased detention time in the distribution system. Those items marked with an asterisk were identified as having direct potential health impacts, and are discussed further in this White Paper or in other White Papers. Other items may impact water quality, but direct health impacts have not been identified.

Chemical issues	Biological issues	Physical issues
*Disinfection by-product Formation	*Disinfection by-product Biodegradation	Temperature increases
Disinfectant decay	*Nitrification	Sediment Deposition
*Corrosion control effectiveness	*Microbial regrowth / recovery / shielding	Color
Taste and odor	Taste and odor	

* Denotes water quality problem with direct potential public health impact.

3.0 Potential Health Impacts

Various potential health impacts have been associated with the chemical and biological issues identified in Table 4. The Chemical Health Effects Tables (U.S. Environmental Protection Agency, 2002a) provides a summary of potential adverse health effects from high/long-term exposure to hazardous chemicals in drinking water. The Microbial Health Effects Tables (U.S. Environmental Protection Agency, 2002b) provides a summary of potential health effects from exposure to waterborne pathogens.

3.1 Disinfection By-Product Formation

Disinfectants can react with naturally occurring materials in drinking water to form organic and inorganic disinfection by-products (DBPs). With over 200 million people served by public water systems that apply a disinfectant, there is a very large population potentially exposed to DBPs through drinking water in the U.S. (USEPA 1998).

The DBP formation potential for each system's water is a function of several chemical and physical characteristics including type and level of organic matter, type and level of specific inorganic parameters, pH, temperature, type and level of disinfectant residual, and contact time. As water ages, there is a greater potential for DBP formation. Higher water temperatures during summer seasons can increase DBPs as the chemical reactions proceed faster and go further at higher temperatures. Also, higher water temperatures often cause a higher chlorine demand, requiring an increased disinfectant dose and resulting in higher DBP formation potential. Decreases in HAA5 concentrations in some distribution systems are attributed to microbial activity.

designed to accommodate future growth and long-term water system needs. Therefore, some distribution system storage tanks may be oversized. Storage tanks may also be hydraulically locked out of the distribution system due to high system pressures, low system demands, and inadequate height of the tanks. Oversized tanks and/or hydraulically locked out tanks do not have adequate flow through the tanks and volume turnover, potentially resulting in water quality degradation. When events such as main breaks, fire flow, or some other unexpected peak demand condition occurs in a system, water from these tanks can be drawn into the distribution system.

For a tank that is oversized or hydraulically locked out under normal system operating conditions, there are limited options for improving mixing characteristics and reducing water age. For a tank that is hydraulically locked, the maximum water level in the tank can be lowered to reduce the operational hydraulic grade. Similarly, the tank can be raised, effectively lowering the maximum water level. For an oversized tank, more water needs to be forced in and out of the tank on a daily basis, possibly by adjusting pumping schedules. Quite frequently, such modifications may not be feasible due to system hydraulics. Therefore, for an oversized or hydraulically locked out tank, permanent decommissioning of the tank can be considered to prevent water quality degradation. Before a tank is decommissioned, the effects of taking the tank out of service should be determined. A distribution system analysis should be performed to make sure that the tank is not needed and there is adequate hydraulic connectivity for equalization storage, fire flow, or emergency conditions such as main breaks or treatment plant shutdowns.

When it is necessary to maintain a storage facility due to consumer demand, fire flow, or hydraulic considerations it may be necessary install pumps to force water from the tank and encourage effective mixing and volume turnover.

4.2 Distribution Piping

Distribution system piping configuration and materials can have a significant impact on water quality – primarily as a result of excessive water age. High water age in the distribution pipes can lead to a number of water quality problems including loss of disinfectant residual, increased DBP concentrations, taste and odor, color, increased microbial activity, and nitrification (in chloraminated distribution systems). Piping material can also have a significant impact on water quality. For example, unlined cast iron pipe may exert substantial disinfectant residual demand, metals may leach from cement mortar linings, and corrosion of metal pipe may result in increased metals concentrations, taste and odor, color, or other water quality problems.

4.2.1 Looping Dead-Ends

Excessive water age at dead ends can be reduced with pipe looping which generally involves constructing new pipe sections to make appropriate hydraulic connections among existing pipes. However, in some cases pipe looping can also create zones with very slow moving water elsewhere in the system. For example, looping a dead end may cause water with opposite flow directions and similar flow rates to meet and cause very slow moving water at that location. Therefore, the specific hydraulic response of a system to looping must be assessed to make sure that looping does not negatively impact the residence time of other parts of the system.



(https://www.census.gov)

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COMMUNITY FACTS

GUIDED SEARCH

ADVANCED SEARCH

DOWNLOAD CENTER

Community Facts - Find popular facts (population, income, etc.) and frequently requested data about your community.

Enter a state, county, city, town, or zip code:

Hamler village, Ohio

GO

- Population
- Age
- Business and Industry
- Education
- Governments
- Housing
- Income
- Origins and Language
- Poverty
- Race and Hispanic Origin
- Veterans
- Show All

Hamler village, Ohio

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Description	Measure	Source
Population		
Census 2010 Total Population	576	2010 Demographic Profile (/bkmk/table/1.0/en/DEC/10_DP/DPDP1/1600000US3933096)
2017 Population Estimate (as of July 1, 2017)	559	2017 Population Estimates (/bkmk/table/1.0/en/PEP/2017/PEPANNRES/1620000US3933096)
2016 ACS 5-Year Population Estimate	647	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Median Age	29.8	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/B01002/1600000US3933096)
Number of Companies	N/A	2012 Survey of Business Owners
Educational Attainment: Percent high school graduate or higher	87.7%	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/S1501/1600000US3933096)
Count of Governments	N/A	2012 Census of Governments
Total housing units	289	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/B25001/1600000US3933096)
Median Household Income	46,316	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/S1901/1600000US3933096)
Foreign Born Population	4	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/B05002/1600000US3933096)
Individuals below poverty level	21.1%	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP03/1600000US3933096)
Race and Hispanic Origin		
White alone	602	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Black or African American alone	0	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
American Indian and Alaska Native alone	1	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Asian alone	0	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Native Hawaiian and Other Pacific Islander alone	0	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Some Other Race alone	28	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Two or More Races	16	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Hispanic or Latino (of any race)	91	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
White alone, Not Hispanic or Latino	548	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/DP05/1600000US3933096)
Veterans	36	2012-2016 American Community Survey 5-Year Estimates (/bkmk/table/1.0/en/ACS/16_5YR/B21001/1600000US3933096)

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