

WORK SESSION
Monday, February 11, 2013
6:00p to 7:30p

THE VILLAGE OF DEXTER
VILLAGE COUNCIL

Dexter Senior Center- 7720 Dexter Ann Arbor Road

Purpose:

This workshop has been scheduled to review the Surcharge Rate Structure for Significant Industrial Users (SIU) on the Village's Sanitary Sewer System. Rich Grant of Fleis & Vandenbrink will be attending the meeting to review the rates and provide background on SIU, the approach being used with Northern United Brewery, and next steps regarding Maximum Allowable Headwork's Loading (MAHL) Analysis. The following support documents are attached:

- Original Proposal for the MAHL analysis.
- Documents from the Council agenda of 1-28-13.
- Surcharge Worksheet attached. Additional information will be provided in an email and or at the meeting.
- Please reference documents provided under item F. Public Hearings on the regular agenda.

1. Legal Requirements

2. Northern United Brewery -Immediate Needs and Long-Term Needs

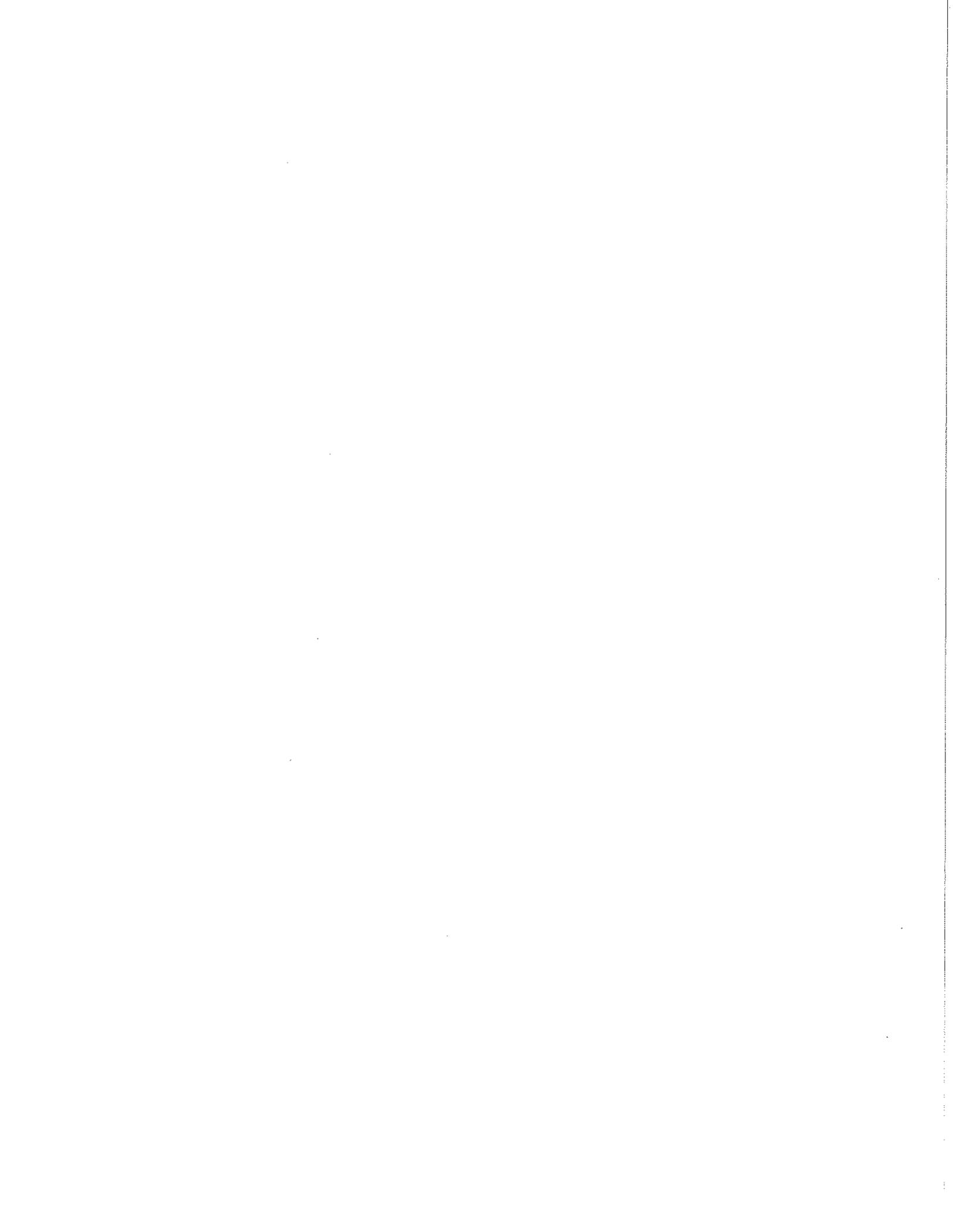
- Explore Options
- Allocation of Capacity

3. Next Steps regarding Maximum Allowable Headworks Loading (MAHL) Analysis

- Feedback from DEQ on DRAFT MAHL
- Meeting with DEQ, tentative date February 19, 2013

This is a Special Council work session meeting; action will NOT be taken.

"This meeting is open to all members of the public under Michigan Open Meetings Act"





July 31, 2012

Ms. Donna Dettling
Village Manager
Village of Dexter
8140 Main Street
Dexter, MI 48130

**RE: Headworks Loading and WWTP Capacity Evaluation
Village of Dexter, Washtenaw County, MI**

Dear Ms. Dettling,

We appreciate the opportunity to submit this proposal to determine the Village's wastewater treatment plant (WWTP) capacity and perform a headworks loading evaluation. The professionals at F&V Operations and Resource Management (FVOP) offer comprehensive experience that will deliver practical and cost-effective solutions. Please find information on our project team and references enclosed. Based on our previous meetings with you, we understand that the maximum allowable wastewater concentrations listed in the Village's current Sewer Use Ordinance were implemented in 1980. It is our understanding that a site-specific analysis was not done at that time to develop appropriate limits

There are important reasons to conduct a Maximum Allowable Headworks Loading (MAHL) evaluation and WWTP capacity analysis at this time. The last MAHL that was completed was in 1980. An evaluation will determine the actual treatment capacity and is imperative for successful operation of the plant. It will allow you to run the plant more effectively, efficiently and to receive additional customers going forward.

Understanding the available capacity allows the Village to better plan for future industrial, commercial and residential development and growth. In doing so, you can rest assured that the Village is not creating a scenario where you may be approaching the plant's limits and a potential MDEQ violation. For example, we understand that a local brewery is planning a substantial expansion in the near future. A solid understanding of the plant capacity and maximum allowable loading for compatible (e.g. BOD5, TSS, ammonia, phosphorus) and non-compatible pollutants is necessary in order to develop appropriate limits and charges for the brewery and other non-domestic users. Knowing the total capacity of the plant and its ability to handle waste stream constituents will allow you to sell Dexter as a place to establish or expand a business, to better negotiate with existing or potential businesses, and to protect yourself from potential violations, as well as reserve capacity for planned residential growth.

SCOPE OF SERVICES

The professional services have been divided into the following tasks: WWTP Capacity Analysis, MAHL Evaluation for Compatible Pollutants, MAHL Evaluation for Incompatible Pollutants, and Local Limits Development.

WWTP Capacity Analysis

This task will determine the treatment plant's actual "dry weather" flow-based capacity. This is critical for developing appropriate billing structures for non-domestic users.

MAHL Evaluation - Compatible Pollutants

This task consists of several smaller tasks. FVOP will assist the Village in sample coordination. Village staff would need to collect a minimum of seven 24-hour composite wastewater samples of the WWTP influent, effluent, and samples of the brewery and metal finishing wastewater. Sludge samples may also need to be taken. Samples will be analyzed for BOD5, total suspended solids, ammonia-nitrogen, and phosphorus.

FVOP will review and incorporate the analytical data into a biological treatment model using GPS-x modeling software to determine simulated affects to the treated effluent and the WWTP maximum capacity. FVOP will also perform a spreadsheet review for compatible pollutants. Results from the modeling and spreadsheet analysis will be used to determine the treatment plant's capacity for each compatible pollutant.

MAHL Evaluation - Incompatible Pollutants

Considering the potential for incompatible pollutants from certain non-domestic discharges, it is advisable to also determine the MAHL for incompatible pollutants.

The incompatible pollutants (e.g. metals) can be a by-product of manufacturing operations in certain industries, and can accumulate in the biosolids and pass through or interfere with treatment operations at the WWTP.

Samples collected during the compatible pollutants work would be analyzed by a qualified analytical laboratory for select metals: arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, selenium, silver, and zinc. The samples would also be analyzed for cyanide.

FVOP will review and incorporate the analytical data into an incompatibles pollutants MAHL spreadsheet model developed by US EPA.

Local Limits Development

Results from the compatibles MAHL evaluation will be used to develop appropriate limits for BOD5, total suspended solids, ammonia-nitrogen, and phosphorus.

Results of the incompatible pollutants MAHL evaluation will be used to develop recommended local limits for the incompatible pollutants identified above.

We will review our initial local limits recommendations with the Village and MDEQ and will assist the Village into incorporating these into the Sewer Use Ordinance. Follow up meetings with the MDEQ and edits to the initial recommendations for MDEQ approval are in addition to the scope and budget presented in this proposal.

Update Surcharge Rate Schedule

Results from the WWTF Capacity Evaluation and MAHL will be used to update the Village's current surcharge rate schedule for BOD, TSS, ammonia, and phosphorus.

BUDGETS

Legal documents, such as the Sewer Use Ordinance, require review by an experienced attorney. The sections of the Sewer Use Ordinance (SUO) which incorporate the updated local limits will require review from an attorney. Legal costs are outside of this scope of work.

Ms. Donna Dettling
Village of Dexter
July 30, 2012
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The following budgets have been developed for the engineering scope of work described above. Note that the estimated laboratory budget assumes analysis for compatible pollutants will be performed by the Village's laboratory and metals will be performed by a qualified contract laboratory.

Scope of Work	Proposed Budgets
WWTP Capacity Analysis	\$2,000
MAHL Evaluation - Compatible Pollutants	\$3,000
MAHL Evaluation - Incompatible Pollutants	\$3,000
Local Limits Development	\$3,400
Update Surcharge Rate Schedule	\$800
Engineering Subtotal	\$12,200
Laboratory Analysis, Outside of Scope	\$1,500 estimate
Legal, Documents Costs, Outside of Scope	
Estimated Total Project Budget	\$13,700

INFORMATION NEEDED

The budgets and scope of work above assumes that the Village will share pertinent information with FVOP staff. To work efficiently, we will need access to the Village WWTP record drawings, WWTP design basis and/or O&M manual, collection system maps, current Sewer Use Ordinance and other relevant IPP documents, sewer fund financial information, the latest biosolids (sludge) annual report, MORs and/or treatment plant flow data for 2011, and available information regarding the brewery and metal finisher's discharge.

SCHEDULE

We are prepared to begin this work immediately upon your authorization of our proposal. If you concur with our Scope of Services and budget, you may authorize us to begin work by signing where indicated below and mailing a copy of this letter back to us.

We thank you for this opportunity and we look forward to working with you. If you have any questions regarding this proposal or any FVOP services, please contact Blair Selover at 810.252.8884 or bselover@fv-operations.com.

Sincerely,

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

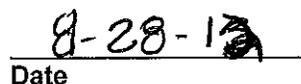


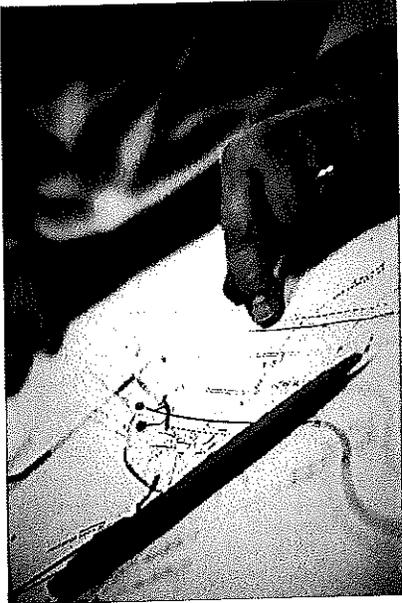
H. Blair Selover
Regional Manager

cc: Dan Schlaff, DPW Director
A. Mohr, FVOP

F&V Operations and Resource Management, Inc. (FVOP) is hereby authorized to perform the Services detailed in this letter dated July 31, 2012.


Authorized Representative


Date



We are proposing a very experienced project team to provide the services requested. Our team consists of professional personnel with the training, certifications, and experience necessary to accommodate the needs of the Village of Dexter. Staff key to the successful completion of the project are as follows:

Blair Selover will serve as **Client Manager and Operations Consultant**. Blair is a certified operator in the State of Michigan with nearly 30 years of experience. He is very familiar with the current operations at the Dexter WWTF.

Assisting Blair will be:

Richard Grant, PE serving as **Project Manager**. Rich is a principal of the firm with over 25 years of consulting engineering experience. He has served a variety of clients, both industrial and municipal, with a variety of process engineering challenges. The main focus of his career has been on wastewater treatment design, waste minimization, and assisting clients with meeting environmental regulations. He is an active member of the Michigan Water Environment Association (MWEA) Industrial Pretreatment Program (IPP) committee.

Elaine Venema, PE serving as **Project Engineer**. Elaine has 6 years of experience in Process Engineering with F&V. Her work includes project planning, report writing, data analysis, process design, wastewater treatment plant computer modeling and simulation, MAHL calculations, and construction inspection.

Brian Schanhals, EIT will serve as **Staff Engineer**. Brian has a degree in Chemical Engineering. His work at F&V includes project planning, data analysis, process design and hydraulics calculations, and wastewater treatment plant computer modeling and simulation.

This experience and strong team relationship will provide the Village with efficient work and clear direction during the project. Other staff members will be available on an as-needed basis. Our multi-disciplined staff includes certified geologists, professional engineers, draftsmen, GIS specialists, professional surveyors, and administrative support.



Project Experience & References

We provide expert consultation and engineering services in the development of local limits, negotiations with industry, IPP regulations in the State of Michigan, and MAHL calculations. Our professional staff has assisted numerous clients with development and review of Local Limits, Industrial Pretreatment Programs and MAHLs.

MAHLs, Local Limits, and IPP Assistance (partial list)

City of Plainwell: We have been assisting the City for years with Sewer Use Ordinance, Local Limits considerations, industrial permits, inspections, industrial compliance and enforcement. Our staff is currently assisting the City in updating their entire Industrial Pretreatment Program. We coordinated the collection of necessary data and completed a Maximum Allowable Headworks Loading Evaluation for compatible and toxic/metal pollutants. The results of the MAHL evaluation were used to develop initial recommendations for tiered local limits and are currently pending DEQ approval.

Bryan Pond, Water Renewal Plant Superintendent
129 Fairlane Street
Plainwell, MI 49080
P: 269.685.5153

Erik Wilson, City Manager
141 North Main Street
Plainwell, MI 49080
P: 269.685.6821

Village of Bloomingdale: We recently assisted the Village in designing a comprehensive wastewater system improvements project. The upgraded treatment plant had to be able to accommodate a high strength organic wastewater from a local blueberry producer, Northern Pride. Wastewater from the blueberry producer is very high in BOD, but low in ammonia, and has a highly variable seasonal flows and concentrations. We also assisted the Village in developing appropriate surcharge rates for high strength wastewater users.

Tom Rock, Village President
109 East Kalamazoo Street
Bloomingdale, MI 49026
P: 269.521.3222

City of Sturgis: In 2010, we completed a MAHL evaluation for toxic/metal pollutants and assisted the City in developing the sampling and data collection plan necessary for the work. The MAHL results allow the City to implement new Tiered Local Limits that are more appropriate than previous limits specified in the Sewer Use Ordinance and distributed in industrial permits. The Local Limits are ready for review by the DEQ. Importantly, the Tiered Local Limits evaluation identified ("found") significant additional metals capacity that allows existing local industries to increase production and/or allows new industries to connect to the wastewater system.

Jeanette Fenner, Director of Wastewater/IT
130 N. Nottawa Street
Sturgis, MI 49091
P: 269.659.7239

Tom Sikorski, Superintendent
130 N. Nottawa Street
Sturgis, MI 49091
P: 269.651.6520



Project Experience & References

Berlin Charter Township: In 2008, we completed a MAHL evaluation for both compatible and toxic/metal pollutants in order to confirm the ability of the wastewater treatment facility to accept an attractive revenue stream; weak landfill leachate.

Dave Roberts, Superintendent of Water and Sewer
8000 Swan View
Newport, MI 48166
P: 734.586.2187

Oscoda Charter Township: We completed a MAHL evaluation for toxic/metal pollutants in 2007 in order to determine the capacity of the wastewater treatment facility to accept additional septage from local haulers. This work was used in a septage receiving Business Plan in order to identify economically attractive radius of acceptance from the plant and evaluate needed capital improvements for continued septage receiving.

Chuck Goslee, WWTP Superintendent
P: 989.739.8152

Bob Stalker, Township Supervisor
110 South State Street
Oscoda, MI 48750
P: 989.739.8299

City of Davenport, IA: We provided MAHL, IPP and Local Limits engineering services for the City and an industrial consortium in completely reworking their MAHL and Local Limits to better accommodate industry. Starting in the midst of an industrial outcry, the work was quickly completed with the F&V customized Tiered Local Limits model to both identify and distribute newly "found" metals capacity. Our staff hosted subsequent industrial negotiations with both small local industries and large multi-nationals. The result was truly a win-win and well received by the community. The metals capacity was created without the need for treatment plant or biosolids composting facility improvements.

Gary Douglas
John Deere Corporation
P: 563.370.4831

Kathy Evert
P: 712.264.3474

Tara Barney, Quad-Cities Chamber of Commerce, CEO
P: 563.322.1706

City of Wyoming: We completed a MAHL evaluation with Tiered Local Limits for toxic/metal pollutants in order to determine whether the existing Clean Water Plant could both accommodate local industry and continue acceptance of septage from local haulers. With a number of high-flow/low concentration industrial dischargers, the previous Local Limits unnecessarily allocated a large amount of metals capacity to industries that did not require this capacity. Tiered Local Limits process was key to both identifying the actual (i.e. large) metals capacity of the Clean Water Plant and identifying an optimum distribution of metals capacity for industrial clients.

AGENDA 1-28-13
ITEM L-4

VILLAGE OF DEXTER

cnicholls@villageofdexter.org

8140 Main Street Dexter, MI 48130-1092
5614

Phone (734)426-8303 ext 17 Fax (734)426-

MEMO

To: President Keough and Council Members
From: Courtney Nicholls, Assistant Village Manager
Date: January 22, 2013
Re: Set Information Meeting to Adjust Sewer Surcharge Rates
Amended Resolution for Sewer System Extra Strength Surcharges and
Industrial Cost Recovery Charges

Provided for your review is a memo from Blair Selover of F & V Operations regarding the recommended increases in extra strength surcharges and industrial cost recovery surcharges for sewer system users. The rates in our current resolution have not been modified in approximately 30 years. The new rates are based on the Village current treatment cost.

Presented for your review is an amendment to the water/sewer/refuse rates resolution that is passed each June. If the resolution is passed the rates will go into effect March 1, 2013. Northern United Brewing is intending to start operations within the next month and the rates need to be established for use in their State of Michigan required Significant Industrial User permit.

Blair Selover will be at the meeting to address any questions.

Council action is requested to set an informational meeting for the February 11, 2013 Regular Council Meeting to adjust Sewer System Extra Strength Surcharges and Industrial Cost Recovery Charges.



January 21, 2013

Ms. Donna Dettling
Village Manager
Village of Dexter
8140 Main Street
Dexter, MI 48130

**RE: Extra Strength Surcharges and Industrial Cost Recovery
Village of Dexter, Washtenaw County, Michigan**

Dear Ms. Dettling,

One of the milestone tasks within the Maximum Allowable Headworks Loading Study we are finalizing is to develop new rates for extra strength and industrial wastewater discharges to the wastewater treatment plant. We have reviewed the cost of treatment and developed new rates which reflect current treatment cost. A summary of the recommendation for new rates is as follows:

Extra Strength Surcharges

BOD in excess of 300 mg/L	\$0.62/lb
Suspended solids in excess of 275 mg/L	\$0.21/lb
Phosphorus as P in excess of .12 mg/L	\$4.57/lb

Industrial Cost Recovery

Water usage in excess of 22 gallons per employee per day (gpepd)	\$0.28 per 1,000 gallons
BOD in excess of 300 mg/L	\$0.62/lb
Suspended solids in excess of 275 mg/L	\$0.21/lb
Phosphorus as P in excess of 12 mg/L	\$4.57/lb

Please let me know if you have any questions or concerns we will be happy to address them. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "H Blair Selover".

H Blair Selover
F&V Operations

NOTICE OF PUBLIC HEARING ON PROPOSED SEWER SURCHARGE RATES

Notice is hereby given that the Dexter Village Council will hold a public hearing on Monday, February 11, 2013 at 7:30 p.m. at the Dexter Senior Center – 7720 Ann Arbor Street, Dexter, Michigan for the purpose of hearing public comment regarding a proposed Sewer Surcharge Rate Increase. Extra Strength Surcharges and Industrial Cost Recovery Charges are assessed on commercial/resident (non-residential) users whose wastewater exceeds certain limits.

Extra Strength Surcharges-- Current:

BOD in excess of 300 mg/l	\$0.09/pound
Suspended solids in excess of 275 mg/l	\$0.1/pound
Phosphorous as P in excess of 16 mg/l	\$1.41/pound

Industrial Cost Recovery-- Current:

Water usage in excess of 22 gpepd	\$0.140 per 1,000 gallons
BOD in excess of 300 mg/l	\$0.09/pound
Suspended solids in excess of 275 mg/l	\$0.1/pound
Phosphorous as P in excess of 16 mg/l	\$1.41/pound

Extra Strength Surcharges-- Proposed:

BOD in excess of 300 mg/l	\$0.62/pound
Suspended solids in excess of 275 mg/l	\$0.21/pound
Phosphorous as P in excess of 12 mg/l	\$4.57/pound

Industrial Cost Recovery-- Proposed:

Water usage in excess of 22 gpepd	\$0.28 per 1,000 gallons
BOD in excess of 300 mg/l	\$0.62/pound
Suspended solids in excess of 275 mg/l	\$0.21/pound
Phosphorous as P in excess of 12 mg/l	\$4.57/pound

Donna Dettling
Dexter Village Manager

Publish: February 7, 2013

Village of Dexter

Surcharge Calculations

January 2013

"Sewer Expenditures"

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	OM&R Factors for Annual Costs								
	Actual	Actual	Actual	Actual	As amended	Proposed	Vol/Flow	Flow portion	BOD	BOD portion	TSS	TSS portion	TP	TP portion	
Salaries Non Union	\$ 21,792	\$ 23,073	\$ 26,082	\$ 10,326	\$ 43,700	\$ 30,000	0.7	\$ 21,000	0.25	\$ 7,500	0.045	\$ 1,350	0.005	\$ 150	
Salaries - Union	\$ 175,915	\$ 214,267	\$ 203,341	\$ 179,587	\$ 122,100	\$ 132,000	0.7	\$ 92,400	0.25	\$ 33,000	0.045	\$ 5,940	0.005	\$ 660	
Salaries - Overtime	\$ 8,827	\$ 8,292	\$ 7,940	\$ 22,732	\$ 8,000	\$ 10,000	0.7	\$ 7,000	0.25	\$ 2,500	0.045	\$ 450	0.005	\$ 50	
Longevity	\$ 15,976	\$ 2,317	\$ 2,266	\$ 6,897	\$ -	\$ -	0.7	\$ -	0.25	\$ -	0.045	\$ -	0.005	\$ -	
Vacations/Sick Time Cash Out	\$ 9,492	\$ 6,198	\$ -	\$ 10,794	\$ 4,000	\$ 8,700	0.7	\$ 6,090	0.25	\$ 2,175	0.045	\$ 392	0.005	\$ 44	
Social Security/Medicare	\$ 17,748	\$ 20,980	\$ 18,332	\$ 17,592	\$ 13,600	\$ 14,000	0.7	\$ 9,800	0.25	\$ 3,500	0.045	\$ 630	0.005	\$ 70	
Health & Dental Insurance	\$ 56,750	\$ 54,671	\$ 59,286	\$ 58,424	\$ 45,000	\$ 49,000	0.7	\$ 34,300	0.25	\$ 12,250	0.045	\$ 2,205	0.005	\$ 245	
Retiree Health Care	\$ -	\$ -	\$ -	\$ -	\$ 21,000	\$ 20,000	0.7	\$ 14,000	0.25	\$ 5,000	0.045	\$ 900	0.005	\$ 100	
Life & Short Term Disability Ins	\$ 74	\$ 1,446	\$ 1,459	\$ 1,167	\$ 1,500	\$ 1,200	0.7	\$ 840	0.25	\$ 300	0.045	\$ 54	0.005	\$ 6	
Defined Benefit Retirement Plan	\$ 30,340	\$ 34,383	\$ 31,980	\$ 34,382	\$ 16,000	\$ 13,000	0.7	\$ 9,100	0.25	\$ 3,250	0.045	\$ 585	0.005	\$ 65	
Add'l MERS Contribution	\$ -	\$ -	\$ -	\$ 7,714	\$ -	\$ -	0.7	\$ -	0.25	\$ -	0.045	\$ -	0.005	\$ -	
Defined Contribution Retirement Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	0.7	\$ 700	0.25	\$ 250	0.045	\$ 45	0.005	\$ 5	
Postage	\$ 1,947	\$ 1,384	\$ 400	\$ 544	\$ 1,500	\$ 1,500	0.7	\$ 1,050	0.25	\$ 375	0.045	\$ 68	0.005	\$ 8	
Operating Supplies	\$ 2,092	\$ 2,460	\$ 1,960	\$ 2,895	\$ 2,500	\$ 3,500	0.7	\$ 2,450	0.25	\$ 875	0.045	\$ 158	0.005	\$ 18	
Road Repair Supplies	\$ -	\$ 544	\$ -	\$ -	\$ 2,000	\$ 2,000	0.7	\$ 1,400	0.25	\$ 500	0.045	\$ 90	0.005	\$ 10	
Chemical Supplies - Plant	\$ 32,505	\$ 36,048	\$ 25,690	\$ 36,907	\$ 28,000	\$ 35,000	0.25	\$ 8,750	0.1	\$ 3,500	0.25	\$ 8,750	0.4	\$ 14,000	
Chemical Supplies - Lab	\$ 4,659	\$ 7,382	\$ 7,873	\$ 8,792	\$ 10,000	\$ 10,000	0.7	\$ 7,000	0.25	\$ 2,500	0.045	\$ 450	0.005	\$ 50	
Uniform Allowance	\$ 2,886	\$ 3,211	\$ 2,443	\$ 2,646	\$ 2,800	\$ 2,000	0.7	\$ 1,400	0.25	\$ 500	0.045	\$ 90	0.005	\$ 10	
Gasoline & Oil	\$ 13,787	\$ 9,707	\$ 10,379	\$ 11,217	\$ 9,000	\$ 12,500	0.7	\$ 8,750	0.25	\$ 3,125	0.045	\$ 563	0.005	\$ 63	
Professional Services	\$ 109,521	\$ 100,470	\$ 86,215	\$ 69,671	\$ 40,000	\$ 40,000	0.7	\$ 28,000	0.25	\$ 10,000	0.045	\$ 1,800	0.005	\$ 200	
Sludge	\$ -	\$ -	\$ -	\$ 95,239	\$ 70,000	\$ 50,000	0.25	\$ 12,500	0.25	\$ 12,500	0.25	\$ 12,500	0.25	\$ 12,500	
Testing & Analysis	\$ 5,573	\$ 4,969	\$ 2,897	\$ 1,346	\$ 4,000	\$ 2,000	0.7	\$ 1,400	0.25	\$ 500	0.045	\$ 90	0.005	\$ 10	
Travel & Mileage	\$ 83	\$ 33	\$ 61	\$ 134	\$ 200	\$ 200	0.7	\$ 140	0.25	\$ 50	0.045	\$ 9	0.005	\$ 1	
Printing & Publishing	\$ 223	\$ 312	\$ 217	\$ 442	\$ 300	\$ 300	0.7	\$ 210	0.25	\$ 75	0.045	\$ 14	0.005	\$ 2	
Workers Compensation	\$ 7,252	\$ 5,930	\$ 5,649	\$ 7,136	\$ 4,700	\$ 4,700	0.7	\$ 3,290	0.25	\$ 1,175	0.045	\$ 212	0.005	\$ 24	
Liability Insurance	\$ 19,581	\$ 22,559	\$ 21,957	\$ 20,852	\$ 18,000	\$ 18,000	0.7	\$ 12,600	0.25	\$ 4,500	0.045	\$ 810	0.005	\$ 90	
Utilities	\$ 86,400	\$ 78,012	\$ 70,654	\$ 61,672	\$ 67,000	\$ 65,000	0.5	\$ 32,500	0.45	\$ 29,250	0.045	\$ 2,925	0.005	\$ 325	
Utilities - telephone	\$ 11,363	\$ 12,114	\$ 12,666	\$ 6,632	\$ 5,000	\$ 3,000	0.7	\$ 2,100	0.25	\$ 750	0.045	\$ 135	0.005	\$ 15	
Building Maintenance & Repair	\$ 6,253	\$ 3,860	\$ 1,174	\$ 9,981	\$ 8,000	\$ 8,000	0.7	\$ 5,600	0.25	\$ 2,000	0.045	\$ 360	0.005	\$ 40	
Equipment Maintenance & Repair	\$ 2,241	\$ 2,075	\$ 3,819	\$ 3,760	\$ 4,000	\$ 25,000	0.7	\$ 17,500	0.25	\$ 6,250	0.045	\$ 1,125	0.005	\$ 125	
Vehicle Maintenance & Repair	\$ 937	\$ 47	\$ 49	\$ -	\$ 1,500	\$ 1,500	0.7	\$ 1,050	0.25	\$ 375	0.045	\$ 68	0.005	\$ 8	
Miscellaneous	\$ 36	\$ -	\$ 14,730	\$ 439	\$ 500	\$ 500	0.7	\$ 350	0.25	\$ 125	0.045	\$ 23	0.005	\$ 3	
State License/Permits	\$ -	\$ -	\$ -	\$ -	\$ 2,000	\$ 2,000	0.7	\$ 1,400	0.25	\$ 500	0.045	\$ 90	0.005	\$ 10	
Memberships & Dues	\$ 245	\$ 100	\$ 110	\$ -	\$ 500	\$ 500	0.7	\$ 350	0.25	\$ 125	0.045	\$ 23	0.005	\$ 3	
Education & Training	\$ 99	\$ 275	\$ 659	\$ 970	\$ 2,000	\$ 2,000	0.7	\$ 1,400	0.25	\$ 500	0.045	\$ 90	0.005	\$ 10	
Capital Improvements	\$ -	\$ 770	\$ 4,978	\$ -	\$ -	\$ -	0.7	\$ -	0.25	\$ -	0.045	\$ -	0.005	\$ -	
Equipment	\$ 9,425	\$ 4,273	\$ 9,547	\$ 9,624	\$ 10,000	\$ 10,000	0.7	\$ 7,000	0.25	\$ 2,500	0.045	\$ 450	0.005	\$ 50	
Vehicles	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ -	0.7	\$ -	0.25	\$ -	0.045	\$ -	0.005	\$ -	
Transfers Out	\$ 34,556	\$ -	\$ -	\$ -	\$ -	\$ -	0.7	\$ -	0.25	\$ -	0.045	\$ -	0.005	\$ -	
MISC IPP/MONITORING	\$ 708,578	\$ 662,162	\$ 634,813	\$ 700,514	\$ 568,400	\$ 40,000	0.1	\$ 4,000	0.7	\$ 28,000	0.2	\$ 8,000			
Effects of Baseline Flow of Excess Flow, beyond 22 gal/employee/D								\$ 353,420		\$ 180,275		\$ 51,440		\$ 28,966	
25000 gal/day Significant Industrial User							Avg flow, MGD	0.365							
18250 gal/day 5% of Total Flow - Significant Industrial User							Avg conc, mg/L		262 mg/L		217 mg/L		5.7 mg/L		
22 gal/employee/D							Avg load, lb/yr		291,107 lb/yr		241,108 lb/yr		6,333 lb/yr		
0 XS water switch							"Flow portion only"		2.61 per 1000gal		\$ 0.62 per lb BOD		\$ 0.21 per lb TSS		\$ 4.57 per lb TP