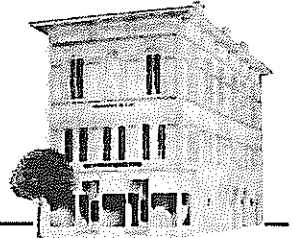




VILLAGE OF JONESVILLE

265 E. CHICAGO ST.
JONESVILLE, MI 49250
www.jonesville.org

(517) 849-2104
Fax (517) 849-9037
email: manager@jonesville.org



**VILLAGE OF JONESVILLE
COUNCIL AGENDA
JANUARY 6, 2010
6:30 P.M. VILLAGE HALL**

- 1. CALL TO ORDER/PLEDGE OF ALLEGIANCE**
- 2. PRESENTATIONS AND RECOGNITIONS**
 - A. Jonesville Lions Club, President Don Germann
- 3. APPROVAL OF AGENDA**

Items can be added or deleted from the Agenda by Council action
- 4. PUBLIC COMMENTS/AUDIENCE PRESENTATIONS**

Citizens wanting to address the Council can do so at this time. Persons addressing the Council are requested to give their name and address for the record when called on by the President.
- 5. PUBLIC HEARING AND SUBSEQUENT COUNCIL ACTION**
- 6. REPORTS AND RECOMMENDATIONS**
 - A. Septage Receiving Facility Preliminary Study **[Discussion/Action Item]**
- 7. COUNCIL MINUTES**
 - A. Approve the minutes of December 16, 2009 **[Action Item]**
- 8. ACCOUNTS PAYABLE AND PAYROLL**
 - A. Accounts Payable for January 6, 2010 for \$13,093.89 **[Action Item]**
- 9. DEPARTMENT REPORTS/YOUTH ADVISORS REPORT/COMMITTEE MINUTES**
- 10. ADJOURNMENT**

Potential Additions to the Council Agenda (5)

As a result of the scheduled meeting of the Planning Commission on January 5, 2009, the following items may result in additions to the Council Agenda:

- Adoption of the Joint Master Plan, 2010 edition
- Planning Commission 2009 Annual Report
- 2010 Planning Commission Proposed Work Program

As a result of the scheduled meeting of the Local Development Finance Authority on January 6, 2009, the following items may result in additions to the Council Agenda:

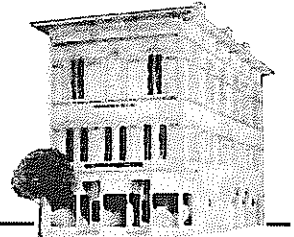
- LDFA Board Appointment
- Scheduling of a public hearing regarding the LDFA Development and Tax Increment Financing Plan Update.



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To: Jonesville Village Council
From: Adam R. Smith, Village Manager
Date: December 30, 2009
Re: Manager Report & Recommendation for January 6, 2010 Council Meeting

6. A Septage Receiving Facility Preliminary Study [Discussion/Action Item]

This item is reserved for discussion and/or action regarding consideration of a preliminary study to solve site specific concerns of the Jonesville Wastewater Treatment Plant accepting septage as a source of alternative revenue. As septage receiving offers the largest potential source of alternative revenue for our municipality, Council had identified WWTP septage receiving assessment as a top priority. All plants require special design considerations prior to the acceptance of septage with proper engineering planning and design to avoid adverse impacts.

Matt Campbell, Michigan Department of Environment Quality provided a presentation to Council on June 3, 2009 regarding wastewater facilities receiving septage at which time Council directed staff to further assess our situation. WWTP Superintendent Mahoney's initial follow-up report was provided to Council on July 15, 2009 in which a preliminary study cost of \$3,500.00 - \$5,000.00 was identified. Prior to any further action by Council additional information on the septage receiving facilities in our area was to be gathered by staff and is included in Superintendent Mahoney's attached follow-up report dated November 4, 2009. Superintendent Mahoney will present his follow-up report. The low flows and strict compliance limits of our facility represent challenges that we need to be attentive to.

Without a preliminary study to address site specific concerns, no further assessments can be made regarding the projects as too many variables are unknown at this time. An accurate return on investment estimation can not be determined without the preliminary study in which capital improvement costs and potential gallons of septage per day would be calculated. The financing of a preliminary study would need to be supported by the General Fund. At this time, it is my recommendation to conduct the preliminary study. The alternative option would be to remove the item as a Council priority.

Please refer to Superintendent Mahoney's reports dated July 8, 2009 and November 4, 2009.

November 4, 2009

To: Jonesville Village Council

Re: Septage Disposal—Jonesville Wastewater Treatment Plant

Matt Campbell from the Michigan Department of Environmental Quality sent some information concerning wastewater facilities that receive wastes from septic tank haulers. I have checked the list of receiving facilities that was provided. The larger plants such as Detroit or Grand Rapids do not offer a fair comparison because of the sheer volume of wastewater available for dilution. I found that a lot of the smaller systems were lagoon systems. This will not offer a fair comparison because lagoons are basically large holding areas that do not practice continual discharge. Lagoon discharge permit limits are usually not as stringent as the Village limits and many times do not even have limits on phosphorus or ammonia nitrogen. I have contacted three systems in our area that accept septage.

Leoni Township WWTP, Jackson County

I spoke with Tom High, the Superintendent of the facility. Tom and I worked together at the South Huron Valley Project while working for Earth Tech. The Leoni facility is a large lagoon system that is currently upgrading to a full treatment plant. The septage is discharged into 6 million gallon lagoon. The detention time in the lagoon negates any adverse affect that the septage has on the treatment system. They accept an average of 20,000 gallons per day at \$0.10 per gallon. The cost of the additional receiving equipment was in the neighborhood of \$300,000. Although the septage has no ill effects on the quality of the effluent, Mr. High stated that he could not recommend placing a receiving station at the Jonesville WWTP because of the type of treatment system, low flows and strict NPDES limits. Mr. High taught a course in wastewater treatment at a community college in Kokomo, Indiana and has authored several on line wastewater courses that have been accepted for continuing education credits.

Rollin-Woodstock WWTP, Lenawee County

I spoke with Drain Commissioner Steve May concerning their facility. They have a standard activated sludge process and treat between 0.75 MGD and 1.0 MGD at the plant. They introduce the septage into their aerobic digester rather than in to the treatment plant flow stream. They accept 3,000 to 15,000 gallons of septage per day. They have not experienced any compliance problems, however their ammonia limit is 5.0 mg/l in the summer and they have no limit in the winter. The 5.0 mg/l of ammonia is 10 times greater than the Jonesville WWTP. They currently charge \$0.055 per gallon. They have occasionally had trouble collecting fees from the septage haulers.

Coldwater WWTP, Branch County

Plant Superintendent Dave Woodman gave me a tour of his receiving facility. The Coldwater WWTP treats 1.7 to 2.2 MGD and is a standard treatment facility that utilizes both the trickling filter and activated sludge processes for secondary treatment. They accept 10,000 to 15,000 gallons per day. Septage is introduced to the headworks of the plant via a variable frequency pump. The equipment and mechanical costs were around \$120,000 plus the cost of a building. The NPDES limits are fairly tight and they have not experienced any compliance problems that can be traced directly to septage. They are currently expanding the facility to enhance ammonia nitrogen removal. They charge \$0.085 per gallon and occasionally have problems collecting fees.

I spoke with septage equipment supplier, Scott Kafka from Hamlet Environmental Technologies and asked if he had any information on plants with the same characteristics and limits as Jonesville. At the time of this writing, he has not responded.

In working my way through this exercise it is my conclusion that a receiving system could be designed and made to work at this facility. I also feel that due to our low flows and strict limits, it would be quite expensive and would take up capacity that could be used for expansion of the service area. If Council wishes to proceed, the next step should be a study conducted by a qualified consulting firm.

July 8, 2009

To: Jonesville Village Council

Re: Septage Receiving Facility

During the June 3, 2009 Village Council Meeting, Matt Campbell from the Michigan Department of Environmental Quality gave a presentation on septage receiving facilities at local wastewater treatment plants. I was asked to prepare this report to address some of the pros and cons of receiving septage. During the recent Michigan Water Environment Association conference I was able to speak with several consulting firms about the costs associated with the facility.

Currently there are three facilities in this area that are receiving septage. Jackson County, Lenawee County, and Branch County currently have receiving facilities. The facility in Branch County is located at the WWTP in Coldwater and is the only one of the three that is a conventional treatment plant. The other two are large lagoon systems. Mr. Campbell sent me a list of septage haulers in the area. There are two licensed haulers in Hillsdale County and several port-a-john rental facilities. I have included the list. I have also included an appendix from MDEQ concerning septage reception at treatment plants that outlines some the requirements of the receiving facility. This is the information that would need to be addressed prior to the installation of the receiving facility. Several consultants indicated that a preliminary study would cost between \$3,500.00 and \$5,000.00. Construction of a receiving facility is estimated in the one million dollar range depending on the information gleaned in the preliminary study. This study would also answer many concerns because it would be specific to this facility.

Some site specific concerns to be answered are as follows:

- What is the expected capital expense on a receiving facility and what would be the duration of the payoff?
- What effect would septage have on the ability of the WWTP to maintain compliance with the NPDES permit especially during the summer months when the limits are so strict?
- What additional cost would be associated the operation and maintenance of the facility?
- What additional laboratory monitoring would be required?
- What additional lab work would be required that is out of the realm of normal compatable pollutant range? (ie; heavy metals, VOC, SOC, Cyanide, etc.
- If Council decides to proceed, would we be able to be financially competitive with other disposal sites in the area?
- What would be the consequences of the sporadic extra organic loading to the current process?

I performed some preliminary calculations concerning the amount of time it would take to pay off the facility and possibly make it profitable. I do not have any solid data concerning the amount of septage that would be delivered so this is all hypothetical.

Example:

Two septage haulers in the area with trucks containing 2,000 gallons per load deliver 12 loads or 24,000 gallons per week. The Village charges \$0.10 per gallon. This would generate \$2,400.00 per week. At this rate it would take 5,000 loads or 417 weeks to pay off a one million dollar capital improvement project. This is a little over eight years and does not take into account interest, O & M costs or additional lab fees.

Conclusion:

Septage disposal is a complicated issue that should be studied extensively before proceeding. If Council decides to proceed, I would recommend requesting proposals from several consultants to conduct a preliminary study to see if this would be a viable option for the Village of Jonesville.

Rick Mahoney
Jonesville Wastewater Treatment Plant

***Subject to Council Approval**

**JONESVILLE VILLAGE COUNCIL
MINUTES OF
December 16, 2009**

The regular meeting of the Jonesville Village Council was held on Wednesday, December 16, 2009 at the Jonesville Village Hall. President David Steel called the meeting to order at 6:30 p.m. Council members present were: Dana Kyser, Gerry Arno, Jerry Drake, Jim Marks, Brenda Guyse and Ron Hayes.

Also present: Manager Smith, Interim DPW Superintendent Kyser, WWTP Superintendent Mahoney, Chief Corbett, Chief Adair, Finance Director/Treasurer Spahr and Tom Marcetti.

Brenda Guyse led the Pledge of Allegiance.

A motion was made by Jim Marks and seconded by Ron Hayes to approve Resolution 2009-28 – MDOT Performance Resolution for Governmental Agencies. All in favor. Motion carried.

Brenda Guyse gave the Sidewalk Committee Report stating that recommend Reading Avenue and Murphy Street be considered for sidewalks and that this report be referred to the Budget Committee for funding consideration for the 2011 Budget Year.

A motion was made by Dana Kyser and seconded by Jerry Drake to approve membership renewal to Region 2 Planning Commission for their 2010 Fiscal Year in the amount of \$630.99. All in favor. Motion carried.

The minutes of December 2, 2009 were approved with a correction that Resolution 2007-27 should be 2009-27 (Amending the Zoning Ordinance) by Brenda Guyse and seconded by Ron Hayes. All in favor. Motion carried.

The accounts payable in the amount of \$21,759.29 were approved for payment with a motion by Gerry Arno and a second by Ron Hayes. All in favor. Motion carried.

Reports and updates were given by department heads and council members.

Submitted by,



Betsy Brooks
Village Clerk

VILLAGE OF JONESVILLE
INVOICE APPROVAL LIST
FOR JANUARY 6, 2010

<u>Vendor Name</u>	<u>Description</u>		<u>Amount</u>
1. ALEXANDER CHEMICAL CORP	WATER - SUPPLIES	619.00	
	WATER - SUPPLIES	(200.00)	
TOTAL			419.00
2. AMERICAN COPPER & BRASS, II	WWTP - OPERATING SUPPLIES		163.25
3. APOLLO FIRE EQUIPMENT CO.	JFD - REPAIRS	246.60	
	JFD - REPAIRS	81.12	
TOTAL			327.72
4. AUTOMOTIVE SERVICE CO, INC	MVP - SALT SPREADER MOTOR/TRUCK 4		380.96
5. BRINER OIL CO., INC.	MVP - GASOLINE		398.52
6. BROOKS, JAMIE	CLEANING SERVICE		100.00
7. CDW GOVERNMENT, INC.	COMPUTER REPLACEMENT		951.05
8. CENTENNIAL WIRELESS	CELL PHONES		127.66
9. CONSUMERS ENERGY	L DFA - SPRINKLER METER	29.59	
	WATER - TOWER METER	28.96	
	L DFA - SPRINKLER METER	19.66	
	L DFA - SPRINKLER METER	50.33	
TOTAL			128.54
10. CRIMECOG TECHNOLOGIES, INC	JPD - SOFTWARE MAINT AGREEMENT		2,000.00
11. CURRENT OFFICE SOLUTIONS	JPD - OFFICE SUPPLIES	190.00	
	JPD/DDA - SUPPLIES	91.04	
	DDA - STDI SUPPLIES	189.75	
	OFFICE SUPPLIES	108.05	
	OFFICE SUPPLIES	4.39	
TOTAL			583.23
12. HILLS COUNTY COMM FOUND	DDA - ENTREPRENURIAL EXPO		200.00
13. JONESVILLE COMM SCHOOLS	COPY PAPER		152.40
14. LITTLEJOHN, KEN JR	JFD - REPAIRS/TRUCK 531	642.22	
	JFD - REPAIRS/TRUCK #535	504.75	
TOTAL			1,146.97
15. MICHIGAN GAS UTILITIES	GAS/HEAT - IRON REMOVAL PLANT	276.24	
	GAS/HEAT - VILLAGE HALL	114.91	
	GAS/HEAT - FIRE DEPT	426.94	
	GAS/HEAT - DPW BLDG	209.09	
	GAS LIGHT SERVICE	14.13	
	GAS/HEAT - WWTP	1,582.55	
	GAS/HEAT - POLICE DEPT	123.10	
TOTAL			2,746.96
16. NORTH EAST FABRICATION CO,	WATER/WWTP - SUPPLIES/TOOLS	304.47	
	MVP - BLADE FOR TRACTOR #3	35.00	
TOTAL			339.47
17. PERRY CORPORATION	COPIER MAINTENANCE		58.34
18. ROE-COMM	JFD - RADIO BATTERIES		225.40
19. SPEEDWAY SUPERAMERICA, LL	GASOLINE		954.10
20. STATE OF MICHIGAN	WWTP - BIOSOLIDS APP FEE		804.16
21. SUD-Z DRY CLEANERS, INC.	JPD - DRY CLEANERS		74.25
22. TOOLS PLUS INDUSTRIES	STREETS/WATER - SUPPLIES		295.00
23. WALMART COMMUNITY	WWTP - OFFICE/OPERATING SUPPLIES		196.16
24. WELLS EQUIPMENT SALES, INC	MVP - REPAIRS	28.25	
	MVP - REPAIRS	292.50	
TOTAL			320.75
TOTAL - ALL VENDORS			13,093.89

* PLEASE CALL, EMAIL, OR ASK QUESTIONS REGARDING INVOICES PRIOR TO THE MEETING.
THANK YOU.