

NORTHFIELD TOWNSHIP BOARD AGENDA
November 11, 2014 - - 7:00 PM
8350 Main Street, 2nd Floor

CALL TO ORDER
PLEDGE/INVOCATION
ROLL CALL
CONSENT AGENDA: Minutes, Bills
ADOPT BALANCE OF AGENDA
CALL TO THE PUBLIC
CORRESPONDENCE AND ANNOUNCEMENTS

REPORTS/UPDATES

- Department Head Reports
- ZBA Report
- Planning Commission Report
- Parks and Rec Report
- Financial Report
- Township Manager's Report

AGENDA ITEMS

1. Health Insurance
2. Tax Tribunal Case: Mary L. Wolowiec Living Trust vs. Township of Northfield

JOINT SESSION WITH PLANNING COMMISSION

1. Sewer Capacity Report for Proposed Biltmore Development

2nd CALL TO THE PUBLIC
BOARD MEMBER COMMENTS
ADJOURNMENT

* Denotes previous backup; + denotes no backup in package

This notice is posted in compliance with PA 267 of 1976 as amended (Open Meetings Act) MCLA 41.72A (2) (3) and the Americans with Disabilities Act. (ADA) individuals with disabilities requiring auxiliary aids or services should contact the Northfield Township Office, (734-449-2880) seven days in advance.

**NORTHFIELD TOWNSHIP
Township Board
Minutes
November 11, 2014**

CALL TO ORDER

The meeting was called to order at 7:00 P.M. by Supervisor Engstrom at 8350 Main Street.

PLEDGE

Supervisor Engstrom led those present in the Pledge of Allegiance.

ROLL CALL

Township Board:

Marilyn Engstrom, Supervisor	Present
Angela Westover, Clerk	Present
Kathy Braun, Treasurer	Present
Janet Chick, Trustee	Present
Wayne Dockett, Trustee	Present
Jacki Otto, Trustee	Present
Tracy Thomas, Trustee	Present

Planning Commission:

Janet Chick	Present
Marlene Chockley	Present
Brad Cousino	Absent with notice
Kenneth Dignan	Present
Sam Jaquinto	Present
Larry Roman	Present
Mark Stanalajczo	Absent with notice

Also present:

Township Manager Howard Fink
Wastewater Treatment Plant Superintendent
Tim Hardesty
Public Safety Director William Wagner
Community Center Director Tammy Averill
Township Attorney Paul Burns
Planning Consultant Laura Kreps, Carlisle-Wortman
Recording Secretary Lisa Lemble
Members of the community

CONSENT AGENDA:

- **Minutes of September 23rd special meeting and October 28th regular meeting**
- **Bills**

Dockett asked that minutes and bills be pulled for discussion. It was agreed to add these as agenda items 3 and 4.

ADOPT BALANCE OF AGENDA

Engstrom noted that the topic listed for discussion with the Planning Commission should be only Sewer Capacity Report (with "for Proposed Biltmore Development" stricken).

- ▶ **Motion:** Chick moved, Engstrom supported, that agenda be adopted as amended.
Motion carried 7—0 on a voice vote.

FIRST CALL TO THE PUBLIC

Biltmore Request to Amend Master Plan. Mary Devlin, 9211 Brookside, spoke in favor of development in the Township. Dale Brewer, 11548 East Shore Drive, said Biltmore is following the process required by State law.

The following people spoke in opposition to the Biltmore request to amend the Master Plan:

Ed Wojtys, 6235 Hellner Road
Susan Wienckowski, 5558 Hellner Road
Kitty Burkhart, 6187 Nollar Road
David Gordon, 5558 Hellner Road
Heidi Braun, 5510 Hellner Road
Robin Wojtys, 6235 Hellner Road
Mary Christianson, 409 East Shore Drive
Michael Galea, 6211 Hellner Road
Laura Wojtys, 6235 Helner Road
Craig Warburton, 450 W. Joy Road
Lenore Zelenock, 1440 Six Mile Road
Mike Cicchella, 7789 Sutton Road
Amy Grambeau, 5165 Hellner Road
Pete Misangy, 409 E. Shore Drive
Jeff Souza, 7641 Edmund Avenue
Jim Nelson, 7777 Sutton Road

Engstrom thanked Kim Phillips for sending a note to the Board.

REPORTS

Department Heads

Fire. Public Safety Director Wagner read the report summary. In answer to a question from Dockett, Wagner said he is pursuing grant funding.

Police. Public Safety Director Wagner read the report summary.

- ▶ **Motion:** Otto moved, Thomas supported, that the sale of Police Department vehicles—2005 Dodge Dakota, 2003 Ford Taurus, and a 2012 Ford Explorer—be approved. **Motion carried 7—0 on a voice vote.**

- ▶ **Motion:** Otto moved, Engstrom supported, that the Police Department request to purchase a new 2015 Chevy Tahoe from Champion Chevrolet at a cost of \$34,534.10. **Motion carried 7—0 on a voice vote.**

- ▶ *Wastewater Treatment Plant.* Superintendent Hardesty referred to his written report. In answer to a question from Dockett, Hardesty said the sludge hauling contract went out for bids three years ago for a three year period.

Senior Center. Averill referred to her written report and said she and Fink will have more information about the Meals on Wheels proposal at the next meeting.

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Minutes of Regular Meeting
Public Safety Building; 8350 Main Street
November 11, 2014**

Other

Zoning Board of Appeals. Otto announced that Athena Trentin is moving out of state so is resigning in December. She asked that a search for a new member be opened up to the public. She noted that the ZBA is required to have one more Board meeting this year.

Otto also reported that a June variance applicant has asked for a discount on his ZBA fee. She noted that discounts are offered at February and August meetings.

- ▶ **Motion:** Otto moved, Dockett supported, that the Township Board apply a discount for Mr. Trim and give him a \$500 discount on his Zoning Board of Appeals fee.

Dockett asked for a roll call vote. Thomas said he would abstain because he does not have enough information. Chick also recommended tabling this.

- ▶ **Motion:** Chick moved, Braun supported, that this request be tabled.
Motion carried 7—0 on a voice vote.

Planning Commission. Chick reported that six public hearings were held on November 5th for a request for cell phone tower and zoning ordinance amendments.

Parks and Recreation. Thomas referred to the Township Manager's report.

Township Manager. Fink referred to his written report and answered questions from Dockett.

AGENDA ITEMS

**1.
Health Insurance**

Fink said he is recommending that (a) the Board remove the hard caps (i.e. opt out of Act 152), (b) choose the Silver HSA and Bronze HSA, and (c) increase the health insurance pool by \$40,000 to fund the HSAs. He said he cannot see another way to provide good insurance for employees and member of the Police Department, and without doing this some employees would have to pay \$12,000/year for their insurance.

Jack Schmitz of Burnham & Flower Insurance Group said 90% of the Townships he works with are opting out of the hard caps. He noted that age banding is increasing the costs for Townships more than for other groups.

Dockett objected to spending more money on health insurance.

- ▶ **Motion:** Chick moved, Engstrom supported, that the Township opt out of Public Act 152. **Motion carried 6—1 on a voice vote, Dockett opposed.**
- ▶ **Motion:** Otto moved, Westover supported, that the HSA Silver PPO and HSA Bronze PPO insurance plans be approved. **Motion carried 6—1 on a voice vote, Dockett opposed.**

- ▶ **Motion:** Chick moved, Westover supported, that \$40,000 be transferred from the general fund to fund the cost of health insurance for the Township staff and Police. **Motion carried 6—1 on a voice vote, Dockett opposed.**

- ▶ **Motion:** Otto moved, Engstrom supported, that the Silver HSA account be funded at minimum at \$5,000 for a family, \$3,300 for a couple, and \$1,650 for an individual. **Motion carried 6—1 on a voice vote, Dockett opposed.**

- ▶ **Motion:** Otto moved, Engstrom supported, that the Bronze HSA account be funded at minimum at \$6,550 for a family and 3550 for an individual. **Motion carried 6—1 on a voice vote, Dockett opposed.**

2.

Tax Tribunal Case: Mary L. Wolowiec Living Trust vs. Township of Northfield

- ▶ **Motion:** Engstrom moved, Chick supported, that the negotiated settlement in Tax Tribunal Case 14-005631 be approved. **Motion carried 7—0 on a voice vote.**

3.

Minutes

Dockett made two corrections to the minutes of the October 28th meeting.

- ▶ **Motion:** Chick moved, Engstrom supported, that the minutes of the regular Township Board meeting of October 28, 2014, be accepted as amended, and to dispense with the reading.
Motion carried 7—0 on a voice vote.

- ▶ **Motion:** Chick moved, Engstrom supported, that the minutes of the special Township Board meeting of September 23, 2014, be accepted as presented, and to dispense with the reading.
Motion carried 7—0 on a voice vote.

4.

Bills

Fink and Wagner answered questions from Dockett about several expenditures including a water heater for the Community Center, repair to a Fire Department utility vehicle, and purchase of uniforms

- ▶ **Motion:** Engstrom moved, Chick supported, that the bills be paid. **Motion carried 7—0 on a voice vote.**

**JOINT SESSION WITH PLANNING COMMISSION:
Sewer Capacity Report**

Brian Rubel of Tetra Tech provided an overview of the current sewer system which currently operates at about 600,000 to 700,000 gallons/day, has a permit for discharge of up to 1.3 million gallons/day (for an average day)—which would allow for approximately 1900 additional residences—and has capacity to expand to 3 million gallons/day. He noted that during rains of several

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Minutes of Regular Meeting
Public Safety Building; 8350 Main Street
November 11, 2014**

inches upwards of 3 million gallons/day have been processed while meeting permit requirements.

Rubel noted that many sewer systems have storage tanks to hold overflow temporarily and that has been something the Township has wished to have for many years. He said it is difficult to tell how many additional homes could be added before a difference in flow would be noticeable, and while the system is not near a situation of creating an environmental problem, it is near the capacity where storm condition flows could be handled without adding a storage tank.

Dockett questioned what commitments the Township has for providing service to Green Oak Township and existing sewer districts. Rubel said he has seen only one document committing 250,000 gallons (740 REUs) to Green Oak. He said the issue of whether capacity is reserved for the North Territorial district is a Board decision.

In answer to a question from Iaquinto, Rubel said the cost of a sewer system expansion would be paid for only by those who use it through connection and use fees. Braun said no developer would pay for a sewer plant expansion, so the cost would have to come from a millage or the general fund.

Dignan said it is an embarrassment that the need identified 26 years ago for a storage tank has not been addressed. In answer to a question from Otto, Rubel said some communities order sewer studies every five years, while others may wait 15 years. He said if growth areas are identified they could be included in a master plan and a capital improvement plan.

There was more discussion about what the actual available capacity of the current system might be and whether capacity should be reserved for property owners in districts who have paid their frontage fees. Dignan said a vision for the community has been lacking, and the Township needs to make desired development more attractive to developers and be prepared to provide services when projects are proposed. Engstrom said developers are sometimes willing to pay for some of these costs.

Burns said the plant is regulated by the Department of Natural Resources and also by Livingston County court order as a result of an environmental protection lawsuit which limits expansion to 2.25 million gallons/day. He said the Township also has a legal obligation to fulfill requests for service from people in special assessment districts (SADs), so an inventory of those districts and all other areas potentially requesting services is needed, and the Township currently does not have that. He said lawsuits have resulted when governments have not been

able to provide services for parcels that have paid in advance for it.

Rubel said preparation of an inventory would best be done jointly by him, Burns, and Hardesty. In answer to a question from Braun, Burns said the equalization basin discussed in a court order was never built, but that is what Rubel is suggesting needs to be provided. Dockett said many studies have been done, and if another is to be done there needs to be a commitment to carry through on the findings. Thomas said the Township has legal and moral obligations to people—including those in other Townships—to figure out what the situation is now.

Fink said he, Burns, Rubel, and Hardesty can develop a list of questions that have to be asked and bring that to the Board so a study can be ordered to find the answers. Rubel said within a month he can provide a very broad range of costs for that work.

SECOND CALL TO THE PUBLIC

Sewer Capacity/Study. Pete Misangy, 409 E. Shore Drive, said putting a storage basin right away makes sense and updating the last plan and coordinating it with the master plan is what residents want to see. David Gordon, 5558 Hellner Road, said he hopes the study the Board orders includes figures for the costs if subdivisions are allowed all the way down US-23. Amy Grambeau, 5165 Hellner Road, said including information about the financial problems encountered in Sylvan Township should be included. Udo Huff, 6451 Whitmore Lake Road, said the Board did not plan properly when it created the sewer district he is in.

BOARD MEMBER COMMENTS

Sewer Capacity/Study. Planning Commissioners and Board members agreed it was useful to have this discussion, but noted this is the very start of the project.

Biltmore Development. Iaquinto recalled that at the last joint Board/Commission meeting many people spoke in favor of the Biltmore Development. Chockley and Chick said all of the information the Board and Commission have is discussed at public meetings, nothing is being hidden, and no elected officials are courting Biltmore.

Election. Westover said turnout was excellent and thanked the volunteers and everyone who voted.

ADJOURNMENT

Engstrom adjourned the meeting at 10:18 P.M.

Submitted by Lisa Lemble.

Corrections to the originally issued minutes are indicated as follows:

Wording removed is ~~stricken through~~;

Wording added is underlined.

Approved by the Township Board on December 9, 2014.

Angela Westover, Clerk

Official minutes of all meetings, as well as expanded notes, are available on the Township's website at http://www.twp-northfield.org/government/township_board_of_trustees/

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AGENDA ITEMS

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JOINT SESSION WITH PLANNING COMMISSION

1. Sewer Capacity Report for Proposed Biltmore Development

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NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board
From: Howard Fink
Date: 11/6/2014
Re: Meeting Minutes

Dear Township Board,

There were a few errors in the draft Minutes from the October 28, 2014 meeting. These are noted in the copy you are receiving. Please note at Tuesday's meeting, the Minutes will need to be "Approved as Amended". Also, the Minutes from the Special Meeting on September 23, 2014 are included for approval.

Respectfully Submitted,



Howard Fink

**NORTHFIELD TOWNSHIP
Township Board Special Meeting
Minutes
September 23, 2014**

CALL TO ORDER

The meeting was called to order at 6:15 P.M. by Supervisor Engstrom at 8350 Main Street.

PLEDGE

Supervisor Engstrom led those present in the Pledge of Allegiance.

ROLL CALL

Marilyn Engstrom, Supervisor	Present
Angela Westover, Clerk	Present
Kathy Braun, Treasurer	Present
Janet Chick, Trustee	Present
Wayne Dockett, Trustee	Present
Jacki Otto, Trustee	Present
Tracy Thomas, Trustee	Present

Also present:

Township Manager Howard Fink
Recording Secretary Lisa Lemble

ADOPT AGENDA

- **Motion:** Engstrom moved, Chick supported, that the agenda be adopted as presented.
Motion carried 7—0 on a voice vote.

FIRST CALL TO THE PUBLIC

Nowatzke Conditional Use Permit. Dale Brewer said the Township Board should not act on this request because conditions listed by the Planning Commission have not been met and because of other deficiencies involving the traffic study, environmental and safety issues, unpaid sewer fees and personal property taxes, and lack of legal opinion and building elevations.

Mary Devlin, 9211 Brookside, spoke in favor of the request.

AGENDA ITEMS

Nowatzke Conditional Use Permit (CUP)

Chick referred to the record from the Planning Commission on this request. She said some of the information is at odds with comments made by Dale Brewer during the Call to the Public. Fink read into the record a memo from Township planning consultant Douglas Lewan which summarized the

Commission's deliberations and actions and explained the difference between approval of a CUP and the required site plan which would address many of the issues brought up by Brewer.

Fink said he and legal counsel Burns had discussed the issue of the unpaid sewer bill and concluded that the issue should not have any bearing on this issue. Dockett disagreed and asked Nowatzke to explain. Nowatzke said he did not own the property until 2011, he has not yet received a sewer bill, and his attorney is handling the matter.

In answer to a question from Otto, Nowatzke said he has received environmental approvals for the site.

- **Motion:** Chick moved, Engstrom supported, that the Conditional Use Permit for Nowatzke Truck and Trailer be approved with the following conditions:

1. The traffic impact study be reviewed and approved by the County Road Commission as a part of the detailed site plan review process.
2. The applicant apply for full (detailed) site plan review.
3. Items 1 through 7 listed in the Engineer's August 13, 2014 letter be addressed as a part of the detailed site plan review process and noted as such by Orchard Hiltz & McCliment.
4. Any non-conformities on the existing site be remediated according to the zoning ordinance.

Dockett said he will not support this only because of the unpaid sewer bill. Thomas said he will support it because the current issue is whether this is an appropriate use, and the issue of compliance with specific issues is to be handled as part of the site plan process.

Motion carried 6—1 on a roll call vote, Dockett opposed.

SECOND CALL TO THE PUBLIC

No comments.

BOARD MEMBER COMMENTS

None.

ADJOURNMENT

- **Motion:** Engstrom moved, Chick supported, that the meeting be adjourned. **Motion carried.**

Submitted by Lisa Lemble. Corrections to the originally issued minutes are indicated as follows:

Wording removed is ~~stricken through~~;
Wording added is underlined.

Approved by the Township Board on _____, 2014.

Angela Westover, Clerk

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NORTHFIELD TOWNSHIP
Township Board
Minutes
October 28, 2014

CALL TO ORDER

The meeting was called to order at 7:03 P.M. by Supervisor Engstrom at 8350 Main Street.

PLEDGE

Supervisor Engstrom led those present in the Pledge of Allegiance.

ROLL CALL

Marilyn Engstrom, Supervisor	Present
Angela Westover, Clerk	Present
Kathy Braun, Treasurer	Present
Janet Chick, Trustee	Present
Wayne Dockett, Trustee	Present
Jacki Otto, Trustee	Present
Tracy Thomas, Trustee	Present

Also present:

Township Manager Howard Fink
Wastewater Treatment Plant Superintendent
Tim Hardesty
Public Safety Director William Wagner
Community Center Director Tammy Averill
Township Attorney Paul Burns
Recording Secretary Lisa Lemble
Members of the community

CONSENT AGENDA:

- **Minutes of September 9 & 23, 2014**
- **Bills**

Dockett asked that minutes and bills be pulled for discussion.

ADOPT BALANCE OF AGENDA

Engstrom switched the order of the health insurance renewal presentation and the *Final Approval for Conditional Use Permits*.

- ▶ **Motion:** Engstrom moved, Chick supported, that the balance of the agenda be adopted as amended.
Motion carried 7—0 on a voice vote.

FIRST CALL TO THE PUBLIC

Biltmore Request for Master Plan Amendment.

- Ed Wojtys, 6235 Hellner Road, commented on information contained in documents from the Township provided through a Freedom of Information Act (FOIA) request. He asked Board to address the concerns raised, and asked that the Biltmore request be handled more transparently. David Gordon, 5558 Hellner Road, said the current master plan is the result of 10 years of public input regarding development in the Township and should be followed.

- Mary Devlin, 9211 Brookside, said no one on the Board or on the staff, including Howard Fink, has done anything devious in their work for the Township.
- Jim Nelson, 7777 Sutton Road, said the information in the FOIA request revealed a subversion of the master plan which was developed with public involvement.
- Christina Kozak, 6449 Hellner Road, said the master plan should be followed to preserve open space.

Nowatzke Site Plan Application. Dale Brewer, 11548 East Shore Drive, said the Township should not have accepted this application because the pre-requisites have not been met, including submission of a traffic impact study.

Conditional Use Permit (CUP) Process. David Perry, 9411 Earhart Road, and Kathy Newman, 9355 Earhart, urged the Board to retain final approval of CUPs.

Thank you. Mary Devlin, 9211 Brookside, thanked Community Center Director Averill and volunteers who worked with her for the Halloween Celebration on Saturday.

CORRESPONDENCE AND ANNOUNCEMENTS

No comments.

REPORTS

Department Heads

Fire. Public Safety Director Wagner read the report summary for September. In answer to a question from Dockett, Wagner said the issue of safely and securely maintaining a supply of the drug that reverses heroin overdoses is being discussed statewide.

Police. Public Safety Director Wagner read the report summary for September.

Wastewater Treatment Plant. Hardesty referred to his written report.

Senior Center. Averill referred to her written report.

Other

Financial. Braun referred to the Revenue and Expenditures report and graphs.

Zoning Board of Appeals. No meeting since the last Board meeting.

Planning Commission. Chick reported that public hearings were held on amendments to several sections of the zoning ordinance. On November 5th action will be taken on these and a request by AT&T for a cell tower will be considered.

Northfield Township Board Meeting
Minutes of Regular Meeting
Public Safety Building; 8350 Main Street
October 28, 2014

Parks and Recreation. Thomas reported that the committee continues to work on their master plan, and Barbara Griffith made a generous donation of a gazebo.

Township Manager. Fink referred to his written report and noted:

- he is asking the Board to allow him to act on a variety of administrative contracts without specific Board approval.
- he is pushing the County hard regarding a County preserve and a recreational path connecting to East Shore Drive.
- he is working with Averill on implementing the Wheels on Meals program in the Township.

Fink and Braun responded to questions from Dockett about fees for architectural services for construction of a meeting room on the Public Safety Building, personal property tax collections, a request for donation for 4th of July activities.

- ▶ **Motion:** Chick moved, Engstrom supported, that Township Manager Howard Fink be given the authority to approve administrative contracts that are include in the budget.
Motion carried 7—0 on a voice vote

AGENDA ITEMS

1.

Final Approval for Conditional Use Permits

- ▶ **Motion:** Dockett moved, ~~Man~~^{No One} supported, that final approval of Conditional Use Permits be by made by the Planning Commission.

Dockett said the Commission and the planning consultant know more about planning issues than the Township Board.

Motion failed for lack of support.

PRESENTATION:

Health Insurance Renewal Information

Jack Schmitz of Burnham & Flower Insurance Group said health coverage plans are changing as a result of the Affordable Care Act based on various factors including the level of coverage and age of participants. Fink said in light of the very high costs to employees under the new plans the Board may want to reconsider the Township's position on the hard caps. Schmitz said 97% of the Townships he works with have opted out of the hard caps. He added that the Board needs to make a decision at the next meeting.

AGENDA ITEMS continued

2.

Non-Motorized Path Requests for Proposal

Otto reported that after she, Dockett, and Fink reviewed proposals she and Fink are recommending Tetra Tech and Dockett is recommending Metro Consulting Associates for the last phase of the Barker Road non-motorized path.

- ▶ **Motion:** Dockett moved, Thomas supported, that the contract for engineering consulting services for Phase 3 of the Barker Road Non-Motorized Path be awarded to Metro Consulting Associates for a fee of \$32,500. **Motion failed 3—4 on a roll call vote, Otto, Engstrom, Braun, Chick opposed.**

- ▶ **Motion:** ~~Dockett~~^{Otto} moved, ~~Thomas~~^{Engstrom} supported, that the bid from Tetra Tech for the non-motorized path be accepted. **Motion carried 6—1 on a roll call vote, Dockett opposed.**

3.

Horseshoe Lake Sewer District Refund

- ▶ **Motion:** Otto moved, Thomas supported, that the entire balance of the Horseshoe Lake Sewer fund balance—at minimum \$692,213.19—be refunded without any holdbacks or deduction of legal fees. **Motion carried 7—0 on a voice vote.**

4.

Extension of Assessing Contract

- ▶ **Motion:** Engstrom moved, Thomas supported, that the contract with Assessment Administration Services be approved until December 15, 2016, pending legal review. **Motion carried 7—0 on a voice vote.**

5.

Tax Increment Financing (TIF) Amendment

Barbara Griffith, Downtown Development Authority (DDA) Chair, reviewed the history of the DDA and the consideration of this amendment and asked that a public hearing date be set. Public Safety Director Wagner said he is concerned that enacting the proposed changes would negatively affect the public safety revenues that would be necessary to provide increased services for large developments.

- ▶ **Motion:** Chick moved, Otto supported, that the Resolution Regarding Approval of an Amendment to the Development Plan and Tax Increment Financing of the Downtown Development Authority of the Township of Northfield be approved. **Motion carried 7—0 on a voice vote.**

6.

**Approval for Kiwanis to Salvage Metals
from the Curtis Property**

Otto noted that this building, which has been acquired by the Township, will be burned in a Fire Department training exercise in the spring, and Kiwanis has requested permission to salvage metals from the building prior to that as a fundraiser for the 4th of July Committee.

- ▶ **Motion:** Otto moved, Chick supported, that Kiwanis Club of Whitmore Lake be permitted to salvage metals from the Darlene Curtis property in collaboration with the Fire Department, subject to waivers proof of liability insurance being provided.
Motion carried 7—0 on a voice vote.

7.

**Approval for Suit Regarding
Condition of Property at 8 Mile Road and US-23**

Fink noted that due to a conflict of interest Fred Lucas, rather than Paul Burns, will represent the Township. He estimated the cost to be about \$1,000. He said he is willing to cancel all the tickets issued as long as the property is cleaned up by a reasonable date specified by legal agreement or court order.

- ▶ **Motion:** Otto moved, Mann supported, that Fred Lucas be engaged for court proceedings against the property at 8 Mile Road and US-23.

Earl LaFave, owner of the property, described cleanup efforts he has made and asked for permission to keep some of the materials on site.

Motion carried 5—2 on a voice vote, Dockett and Engstrom opposed.

8.

**Board Approval for Howard Fink and Tami Averill
to Receive Township Credit Cards**

In answer to questions Fink said these will be the only credit cards and spending limits are governed by policy.

- ▶ **Motion:** Engstrom moved, Chick supported, that issuance of credit cards for Tami Averill, Howard Fink, William Wagner, and Timothy Hardesty be authorized. **Motion carried 7—0 on a voice vote.**

9.

Authorization for Natural Gas Contract

Dockett said he does not think it is wise to enter into a two year contract for natural gas. Fink suggested one year.

- ▶ **Motion:** Engstrom moved, Otto supported, that the Township enter into a one-year contract with Integriss Energy for the Township's natural gas.
Motion carried 7—0 on a voice vote

10.

Planning Commission

Chick said the Township's prior action needs to be reaffirmed for codification purposes

- ▶ **Motion:** Chick moved, Engstrom supported, that the motion made by the Northfield township Board of Trustees requesting approval to make an amendment to the Northfield Township zoning ordinance, specifically Article 51.0, Research, Technology and Manufacturing (RTM) allowing churches, synagogues, mosques, temples, other places of worship, and cemeteries as a Conditional Use as explained in the Board packet be reaffirmed. **Motion carried 6--1 on a roll call vote, Chick opposed.**

11.

Minutes

Minutes of September 9 and 23, 2014

Dockett said he wants it stated in the minutes of this meeting or the September 23rd meeting that he did not think the September 23rd special meeting was properly called.

- ▶ **Motion:** Engstrom moved, Otto supported, that the minutes of the Township Board meetings of September 9 and 23, 2014, be accepted as presented, and to dispense with the reading.
Motion carried 7—0 on a voice vote.

12.

Bills

Dockett objected to paying SEMCOG dues and noted that a \$187 overcharge by the Township was refunded to an individual after two years.

- ▶ **Motion:** Engstrom moved, Thomas supported, that the bills be approved.
Motion carried 7—0 on a voice vote.

SECOND CALL TO THE PUBLIC

Special Meeting. Dale Brewer said minutes of the special meeting of September 23rd were not made available to the public, it is not clear what took place at that meeting, and it is not clear it was legally called. In answer to a question from Dockett, Fink said there was a misunderstanding that these were closed session minutes, so they were not included in the packet, so a specific motion should be made at the next meeting regarding approval of these minutes.

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Minutes of Regular Meeting
Public Safety Building; 8350 Main Street
October 28, 2014

Horseshoe Lake Sewer District. Jill Steuer, 760 Six Mile, thanked the Board on behalf of the Horseshoe Lake Sewer District members.

BOARD MEMBER COMMENTS

- Thomas he will be learning more about health insurance before the vote on the Township's coverage at the next meeting, and he urged other Board members to do that.
- Thomas said he is open to an agreement with Mr. LaFave short of a lawsuit.
- Otto said she is concerned that the Wastewater Capacity Summary given to Board members is more than 10 years old, information has changed, and costs will have increased, so she recommended holding a joint meeting of the Board and the Planning Commission to discuss this.

- Westover and Dockett encouraged all voters to confirm their voting precinct and come to the polls on November 4th.
- Chick asked that creation of a priority list for use of excess general funds for projects listed by the Township Manager be added to a workshop agenda.
- Chick said contrary to comments made during the Call to the Public she sees that Fink is doing exactly what the Board asked him to do as a liaison between developers and the Township.

ADJOURNMENT

- **Motion:** Engstrom moved, Chick supported, that the meeting be adjourned.
Motion carried 7—0 on a voice vote.

The meeting adjourned 9:53 P.M.

Submitted by Lisa Lemble.

Corrections to the originally issued minutes are indicated as follows:
Wording removed is ~~stricken through~~;
Wording added is underlined.

Approved by the Township Board on _____, 2014.

Angela Westover, Clerk

Official minutes of all meetings, as well as expanded notes, are available on the Township's website at http://www.twp-northfield.org/government/township_board_of_trustees/

INVOICE GL DISTRIBUTION REPORT FOR NORTHFIELD TOWNSHIP
EXP CHECK RUN DATES 11/12/2014 - 11/12/2014
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Open

GL Number	GL Desc	Vendor	Invoice Description	Amount	Check
Fund 101 GENERAL FUND					
Dept 265 HALL AND GROUNDS					
101-265-727	SUPPLIES	ARBOR SPRINGS WATER CO I	3 - 5 GAL ARTESIAN WATER & RENTAL	17.25	
101-265-850	COMMUNICATION	CHARTER COMMUNICATIONS	SERVICE 11/9/14-12/8/14	44.23	
101-265-930	REPAIRS & MAINTENANCE	BS&A SOFTWARE	INTERNET SERVICES ANNUAL SERVICE 11/1	3,409.00	
101-265-938	CHARGEBACKS - PRIOR TAX YEARS	WASHTENAW COUNTY TREASUR	8/14 P.R.E. INVOICE	180.81	
101-265-940	RENTAL EQUIPMENT	ARBOR SPRINGS WATER CO I	3 - 5 GAL ARTESIAN WATER & RENTAL	14.00	
Total For Dept 265 HALL AND GROUNDS				3,665.29	
Dept 270 LEGAL/PROFESSIONAL					
101-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	4,500.00	
Total For Dept 270 LEGAL/PROFESSIONAL				4,500.00	
Dept 666 COMMUNITY CENTER					
101-666-727	SUPPLIES	QUILL CORP	ORDER # 72805817	67.43	
101-666-727	SUPPLIES	TRI-COUNTY SUPPLY, INC	PAPER TOWELS	60.46	
101-666-812	SCC TRIPS/PROGRAMS	DARRYL MICKENS	STORYTELLING AT HALLOWEEN PARTY	100.00	
101-666-812	SCC TRIPS/PROGRAMS	SALLY MARTILA	24 YOGA SESSIONS	120.00	
101-666-812	SCC TRIPS/PROGRAMS	TAMI AVERILL	OCT 2014 SUPPLIES 10/24/14-11/1/14	217.28	
101-666-812	SCC TRIPS/PROGRAMS	TAMI AVERILL	KARAOKE AND HALLOWEEN SUPPLIES	272.01	
Total For Dept 666 COMMUNITY CENTER				837.18	
Total For Fund 101 GENERAL FUND				9,002.47	
Fund 207 LAW ENFORCEMENT FUND					
Dept 270 LEGAL/PROFESSIONAL					
207-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	3,060.00	
Total For Dept 270 LEGAL/PROFESSIONAL				3,060.00	
Dept 301 OPERATING COSTS					
207-301-727	SUPPLIES	ARBOR SPRINGS WATER CO I	5 - 5 GAL ARTESIAN WATER & RENTAL	42.75	
207-301-727	SUPPLIES	CARQUEST AUTO PARTS - PD	9007 DW CAPSULE	17.89	
Total For Dept 301 OPERATING COSTS				60.64	
Dept 333 TRANSPORTATION					
207-333-930	REPAIRS & MAINTENANCE	CRUISERS	REMOVE & REPLACE SIREN SPEAKER	85.00	
Total For Dept 333 TRANSPORTATION				85.00	
Total For Fund 207 LAW ENFORCEMENT FUND				3,205.64	
Fund 216 MEDICAL RESCUE FUND					
Dept 270 LEGAL/PROFESSIONAL					
216-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	3,060.00	
Total For Dept 270 LEGAL/PROFESSIONAL				3,060.00	
Dept 301 OPERATING COSTS					
216-301-727	SUPPLIES	ARBOR SPRINGS WATER CO I	3 - 5 GAL ARTESIAN WATER	11.25	
216-301-741	UNIFORMS/GEAR & ALLOWANCE	NORTH EASTERN UNIFORMS &	TACLITE PATROL DUTY PANTS	51.99	
Total For Dept 301 OPERATING COSTS				63.24	
Total For Fund 216 MEDICAL RESCUE FUND				3,123.24	
Fund 266 FEDERAL NARCOTICS FUND					
Dept 301 OPERATING COSTS					
266-301-727	SUPPLIES	NORTH EASTERN UNIFORMS &	BELT KEEPER - PAQUETTE	19.75	

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Fund 266 FEDERAL NARCOTICS FUND					
Dept 301 OPERATING COSTS					
Total For Dept 301 OPERATING COSTS				19.75	
Dept 900 CAPITAL OUTLAY					
266-900-970	EQUIPMENT	GRAYBAR	VL572PIR SPECO TECHNOLOGIES CLR CAM I	150.24	
Total For Dept 900 CAPITAL OUTLAY				150.24	
Total For Fund 266 FEDERAL NARCOTICS FUND				169.99	
Fund 287 BUILDING DEPARTMENT FUND					
Dept 270 LEGAL/PROFESSIONAL					
287-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	900.00	
Total For Dept 270 LEGAL/PROFESSIONAL				900.00	
Total For Fund 287 BUILDING DEPARTMENT FUND				900.00	
Fund 370 PUBLIC SAFETY BLDG DEBT FD					
Dept 301 OPERATING COSTS					
370-301-930	REPAIRS & MAINTENANCE	WEBB CONTRACTORS	CHECK ON 2 AIR HANDLING UNITS	234.63	
Total For Dept 301 OPERATING COSTS				234.63	
Total For Fund 370 PUBLIC SAFETY BLDG DEBT FD				234.63	
Fund 571 WASTEWATER TREATMENT FUND					
Dept 226 PERSONNEL					
571-226-957	TRAINING & DEVELOPMENT	UIS SCADA	SERVICES RENDERED ON 10/14/14 - NFPA	359.00	
Total For Dept 226 PERSONNEL				359.00	
Dept 270 LEGAL/PROFESSIONAL					
571-270-802	AUDIT FEES	PFEFFER, HANNIFORD & PAL	2014 YEAR END AUDIT	6,480.00	
Total For Dept 270 LEGAL/PROFESSIONAL				6,480.00	
Dept 301 OPERATING COSTS					
571-301-727	SUPPLIES	QUILL CORP	CUPS, KLEENEX, PAPER TOWEL, COPY PAPER	173.77	
571-301-740	OPERATING SUPPLIES	QUALITY ASSURANCE SERV L	MOCEL # CP124 S & 620 C	220.00	
571-301-740	OPERATING SUPPLIES	QUALITY ASSURANCE SERV L	ANNUAL SERVICE AND CALIBRATION OF LAB	220.00	
571-301-817	LAB & TESTING	BRIGHTON ANALYTICAL LLC	BA PROJECT NUMBER 31762	1,130.00	
571-301-817	LAB & TESTING	PARAGON LABORATORIES, IN	WORKORDER 196936	408.00	
571-301-817	LAB & TESTING	PARAGON LABORATORIES, IN	EPA 1631E MERCURY, TOTAL	210.00	
571-301-819	COLLECTION SYS ANNUAL MAINT	KENNEDY INDUSTRIES INC	FIELD SERVICE 719 10/22/14 & START CA	457.50	
571-301-850	COMMUNICATION	SPRINT/NEXTEL COMMUNICAT	SERVICE 9/24/14-10/23/14	242.58	
571-301-930	REPAIRS & MAINTENANCE	ARBOR SPRINGS WATER CO I	WWTP: 7 - 5 GAL ARTESIAN WATER	40.25	
Total For Dept 301 OPERATING COSTS				3,102.10	
Dept 333 TRANSPORTATION					
571-333-860	FUEL & MILEAGE	VAL'S SERVICE STATION	28.7 DIESEL	129.00	
Total For Dept 333 TRANSPORTATION				129.00	
Total For Fund 571 WASTEWATER TREATMENT FUND				10,070.10	
Fund 701 TRUST AND AGENCY					
Dept 000					
701-000-277	RHETECH	OHM ADVISORS	RHETECH BLDG SERVICES RENDERED THROUG	1,300.00	

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Fund 701 TRUST AND AGENCY					
Dept 000					
Total For Dept 000				1,300.00	
Total For Fund 701 TRUST AND AGENCY				<u>1,300.00</u>	
--- FUND TOTALS BY VENDOR ---				Total For All Funds:	<u>28,006.07</u>
Fund 101 GENERAL FUND					
0170		- ARBOR SPRINGS WATER CO INC		31.25	
0208		- BS&A SOFTWARE		3,409.00	
0323.01		- CHARTER COMMUNICATIONS		44.23	
1645		- PFEFFER, HANNIFORD & PALKA		4,500.00	
1750		- QUILL CORP		67.43	
2247.2		- WASHTENAW COUNTY TREASURER		180.81	
MISC		- MISC VENDOR		769.75	
TOTAL FUND 101 GENERAL FUND				<u>9,002.47</u>	
Fund 207 LAW ENFORCEMENT FUND					
0170		- ARBOR SPRINGS WATER CO INC		42.75	
0373.1		- CRUISERS		85.00	
1645		- PFEFFER, HANNIFORD & PALKA		3,060.00	
2273.1		- CARQUEST AUTO PARTS - PD		17.89	
TOTAL FUND 207 LAW ENFORCEMENT FUND				<u>3,205.64</u>	
Fund 216 MEDICAL RESCUE FUND					
0170		- ARBOR SPRINGS WATER CO INC		11.25	
1645		- PFEFFER, HANNIFORD & PALKA		3,060.00	
9804		- NORTH EASTERN UNIFORMS & EQUIPMENT		51.99	
TOTAL FUND 216 MEDICAL RESCUE FUND				<u>3,123.24</u>	
Fund 266 FEDERAL NARCOTICS FUND					
9804		- NORTH EASTERN UNIFORMS & EQUIPMENT		19.75	
MISC		- MISC VENDOR		150.24	
TOTAL FUND 266 FEDERAL NARCOTICS FUND				<u>169.99</u>	
Fund 287 BUILDING DEPARTMENT FUND					
1645		- PFEFFER, HANNIFORD & PALKA		900.00	
TOTAL FUND 287 BUILDING DEPARTMENT FUND				<u>900.00</u>	
Fund 370 PUBLIC SAFETY BLDG DEBT FD					
2256.5		- WEBB CONTRACTORS		234.63	
TOTAL FUND 370 PUBLIC SAFETY BLDG DEBT F				<u>234.63</u>	
Fund 571 WASTEWATER TREATMENT FUND					
0170		- ARBOR SPRINGS WATER CO INC		40.25	
0262		- BRIGHTON ANALYTICAL LLC		1,130.00	
1110		- KENNEDY INDUSTRIES INC		457.50	
1456.00		- SPRINT/NEXTEL COMMUNICATIONS		242.58	
1645		- PFEFFER, HANNIFORD & PALKA		6,480.00	
1718		- QUALITY ASSURANCE SERV LLC		440.00	
1750		- QUILL CORP		173.77	
2109		- UIS SCADA		359.00	
2117		- VAL'S SERVICE STATION		129.00	
9864		- PARAGON LABORATORIES, INC.		618.00	
TOTAL FUND 571 WASTEWATER TREATMENT FUND				<u>10,070.10</u>	

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INVOICE GL DISTRIBUTION REPORT FOR NORTHFIELD TOWNSHIP
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GL Number	GL Desc	Vendor	Invoice Description	Amount	Check
		Fund 701 TRUST AND AGENCY			
		1600	- OHM ADVISORS	1,300.00	
		TOTAL FUND 701 TRUST AND AGENCY		<u>1,300.00</u>	

Paid

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 101 GENERAL FUND							
10/29/2014	MIF	38289*#	ALLIANCE WINDOW CLEANING	REPAIRS & MAINTENANCE	930	666	58.00
10/29/2014	MIF	38292*#	ARBOR SPRINGS WATER CO INC	SUPPLIES	727	265	17.25
10/29/2014	MIF	38293	ASSESSMENT ADMINISTRATION	ASSESSOR	713	257	5,000.00
10/29/2014	MIF	38294	AT&T - UVERSE	COMMUNICATION	850	666	45.00
10/29/2014	MIF	38295*#	AT&T LONG DISTANCE	COMMUNICATION	850	265	716.82
				COMMUNICATION	850	666	41.69
				CHECK MIF 38295 TOTAL FOR FUND 101:			<u>758.51</u>
10/29/2014	MIF	38296	BERENDS HENDRICKS STUIT INSURANC	PREPAID EXPENSES	123	000	1,000.00
10/29/2014	MIF	38299	CARLISLE, WORTMAN ASSOCIATES, IN	PLANNER FEES	801	412	1,910.39
				PLANNER FEES	801	412	50.00
				PLANNER FEES	801	412	6.30
				PLANNER FEES	801	412	450.00
				PLANNER FEES	801	412	285.00
				PLANNER FEES	801	412	320.00
				CHECK MIF 38299 TOTAL FOR FUND 101:			<u>3,021.69</u>
10/29/2014	MIF	38301*#	CONSUMERS ENERGY	UTILITIES	920	666	31.80
10/29/2014	MIF	38304*#	DTE ENERGY	UTILITIES	920	666	55.88
10/29/2014	MIF	38307*#	DTE ENERGY	UTILITIES	920	448	2,916.21
10/29/2014	MIF	38309	GBS INC.	SUPPLIES	727	191	165.38
10/29/2014	MIF	38312	JACK DAVIS	SCC TRIPS/PROGRAMS	812	666	150.00
10/29/2014	MIF	38313	JENNIFER CARLISLE	POSTAGE	851	412	6.49
10/29/2014	MIF	38314	KATHLEEN MANLEY	POSTAGE	851	257	23.10

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP
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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 101 GENERAL FUND							
10/29/2014	MIF	38315	KIM POHL	SCC TRIPS/PROGRAMS	812	666	21.00
10/29/2014	MIF	38316	LINDA HARTLEY	SCC TRIPS/PROGRAMS	812	666	168.45
10/29/2014	MIF	38317	MARY COOK	SCC TRIPS/PROGRAMS	812	666	19.22
				SCC TRIPS/PROGRAMS	812	666	14.84
				CHECK MIF 38317 TOTAL FOR FUND 101:			<u>34.06</u>
10/29/2014	MIF	38318	MARY KENDALL	SUPPLIES	727	265	30.56
10/29/2014	MIF	38321#	MLIVE MEDIA GROUP	PRINTING & PUBLICATIONS	900	101	301.43
				PRINTING & PUBLICATIONS	900	191	349.09
				CHECK MIF 38321 TOTAL FOR FUND 101:			<u>650.52</u>
10/29/2014	MIF	38323	MUNICODE	CONTRACTUAL SERVICES	818	172	3,547.01
10/29/2014	MIF	38326	NORTHFIELD TOWNSHIP	SUPPLIES	727	265	142.71
10/29/2014	MIF	38328*#	PAUL E BURNS	LEGAL	803	253	500.00
				LEGAL	803	270	8,139.52
				ALLOCATE TO DEPARTMENTS	927	270	(3,800.00)
				CHECK MIF 38328 TOTAL FOR FUND 101:			<u>4,839.52</u>
10/29/2014	MIF	38329*#	PITTSFIELD TOWNSHIP	CODE ENFORCEMENT	809	412	520.00
10/29/2014	MIF	38331	PRINTING SYSTEMS INC	SUPPLIES	727	191	142.40
				SUPPLIES	727	191	130.60
				CHECK MIF 38331 TOTAL FOR FUND 101:			<u>273.00</u>
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	172	81.29
				LIFE/DISB. INSURANCE	717	253	38.40
				LIFE/DISB. INSURANCE	717	257	67.20
				LIFE/DISB. INSURANCE	717	666	43.68
				CHECK MIF 38333 TOTAL FOR FUND 101:			<u>230.57</u>

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 101 GENERAL FUND							
10/29/2014	MIF	38336	TAMI AVERILL	SUPPLIES	727	666	42.37
				SCC TRIPS/PROGRAMS	812	666	327.70
				CHECK MIF 38336 TOTAL FOR FUND 101:			<u>370.07</u>
10/29/2014	MIF	38337*#	TETRA TECH INC	WL SPEC ASSESS RECEIVABLE-CURRENT	045	000	640.00
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	CHARGEBACKS - PRIOR TAX YEARS	938	265	449.62
10/30/2014	MIF	38343	ALL AMERICAN CLEANING CO.	REPAIRS & MAINTENANCE	930	666	280.00
10/30/2014	MIF	38346	PNC BANK	REPAIRS & MAINTENANCE	930	666	815.71
11/06/2014	MIF	38347*#	AT&T	COMMUNICATION	850	265	215.82
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	265	45.86
11/06/2014	MIF	38351	HORNBACK RECYCLING	REPAIRS & MAINTENANCE	930	666	65.00
11/06/2014	MIF	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	666	56.61
11/06/2014	MIF	38355	MICRO TECH SERVICES INC	REPAIRS & MAINTENANCE	930	265	90.00
11/06/2014	MIF	38356	RED CARPET TRAVEL CLUB	SCC TRIPS/PROGRAMS	812	666	779.52
11/06/2014	MIF	38362	WILLIAM LENAGHAN	CODE ENFORCEMENT	809	412	625.00
11/06/2014	MIF	38363*#	PNC BANK	LATE FEES AND PENALTIES	922	215	(78.00)
				LATE FEES AND PENALTIES	922	215	(43.72)
				COMMUNICATION	850	265	45.00
				CHECK MIF 38363 TOTAL FOR FUND 101:			<u>(76.72)</u>
11/06/2014	MIF	38364#	PNC BANK	LATE FEES AND PENALTIES	922	215	(29.00)
				LATE FEES AND PENALTIES	922	215	5.17
				MISCELLANEOUS	956	265	10.00
				TRAINING & DEVELOPMENT	957	412	254.00

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
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Fund: 101 GENERAL FUND				CHECK MIF 38364 TOTAL FOR FUND 101:			240.17
				Total for fund 101 GENERAL FUND			28,303.37

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 207 LAW ENFORCEMENT FUND							
10/29/2014	MIF	38288	14A-3 DISTRICT COURT	DUE TO OTHERS	214	000	500.00
10/29/2014	MIF	38295*#	AT&T LONG DISTANCE	COMMUNICATION	850	301	398.76
10/29/2014	MIF	38297	BRIGHTON FORD INC		930	333	32.24
10/29/2014	MIF	38311*#	HEWLETT-PACKARD FINANCIAL SRV. C	COMPUTER	972	301	200.00
10/29/2014	MIF	38320	MICHIGAN STATE POLICE	DUE TO OTHERS	214	000	322.50
10/29/2014	MIF	38327	OAKLAND COUNTY	CONTRACTUAL SERVICES	818	301	3,638.00
				COMMUNICATION	850	301	1,551.50
				CHECK MIF 38327 TOTAL FOR FUND 207:			<u>5,189.50</u>
10/29/2014	MIF	38328*#	PAUL E BURNS	LEGAL	803	270	3,300.00
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	226	652.37
10/29/2014	MIF	38340	WARD'S DO IT CENTER	SUPPLIES	727	301	41.49
				SUPPLIES	727	301	4.71
				CHECK MIF 38340 TOTAL FOR FUND 207:			<u>46.20</u>
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	DISPATCH SERVICES	820	301	5,278.91
				CHARGEBACKS - PRIOR TAX YEARS	938	301	1,660.67
				CHECK MIF 38342 TOTAL FOR FUND 207:			<u>6,939.58</u>
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	301	52.74
11/06/2014	MIF	38354	MICHIGAN STATE POLICE	DUE TO OTHERS	214	000	90.00
11/06/2014	MIF	38357	VERIZON WIRELESS MESSAGING SVC	COMMUNICATION	850	301	521.38
11/06/2014	MIF	38358*	WARD'S DO IT CENTER	SUPPLIES	727	301	16.40
				SUPPLIES	727	301	(1.64)

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 207 LAW ENFORCEMENT FUND							
				SUPPLIES	727	301	2.76
				SUPPLIES	727	301	(0.28)
				CHECK MIF 38358 TOTAL FOR FUND 207:			<u>17.24</u>
11/06/2014	MIF	38360	WELLS FARGO FINANCIAL LEASING	SUPPLIES	727	301	87.50
				REPAIRS & MAINTENANCE	930	301	75.62
				CHECK MIF 38360 TOTAL FOR FUND 207:			<u>163.12</u>
11/06/2014	MIF	38361	WEX BANK	FUEL & MILEAGE	860	333	2,214.73
11/06/2014	MIF	38363*#	PNC BANK	TRAINING & DEVELOPMENT	957	226	50.00
				SUPPLIES	727	301	25.29
				MEMBERSHIP DUES	807	301	105.00
				POSTAGE	851	301	20.90
				CHECK MIF 38363 TOTAL FOR FUND 207:			<u>201.19</u>
				Total for fund 207 LAW ENFORCEMENT FUND			20,841.55

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 216 MEDICAL RESCUE FUND							
10/29/2014	MIF	38291	APOLLO FIRE APPARATUS REPAIR	REPAIRS & MAINTENANCE	930	333	137.68
				REPAIRS & MAINTENANCE	930	333	269.32
				CHECK MIF 38291 TOTAL FOR FUND 216:			<u>407.00</u>
10/29/2014	MIF	38292*#	ARBOR SPRINGS WATER CO INC	SUPPLIES	727	301	5.50
10/29/2014	MIF	38295*#	AT&T LONG DISTANCE	COMMUNICATION	850	301	4.17
10/29/2014	MIF	38298	BROOKE BARROWS	UNIFORMS/GEAR & ALLOWANCE	741	301	52.99
10/29/2014	MIF	38300	CARQUEST AUTO PARTS - FD	REPAIRS & MAINTENANCE	930	333	8.79
10/29/2014	MIF	38303	CREATIVE CARS INC	REPAIRS & MAINTENANCE	930	333	1,094.36
10/29/2014	MIF	38304*#	DTE ENERGY	UTILITIES	920	301	107.59
10/29/2014	MIF	38308	EMERGENT HEALTH PARTNERS	DISPATCH SERVICES	820	301	856.17
10/29/2014	MIF	38311*#	HEWLETT-PACKARD FINANCIAL SRV. C	COMPUTER	972	900	58.63
10/29/2014	MIF	38322	MOORE MEDICAL LLC	SUPPLIES	727	301	290.03
10/29/2014	MIF	38325	NORTH EASTERN UNIFORMS & EQUIPME	UNIFORMS/GEAR & ALLOWANCE	741	301	1,235.78
				UNIFORMS/GEAR & ALLOWANCE	741	301	116.98
				CHECK MIF 38325 TOTAL FOR FUND 216:			<u>1,352.76</u>
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	226	70.41
10/29/2014	MIF	38334	STAPLES CREDIT PLAN	SUPPLIES	727	301	257.37
10/29/2014	MIF	38341	WASHTENAW AREA MUTUAL AID	TRAINING & DEVELOPMENT	957	226	1,950.00
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	CHARGEBACKS - PRIOR TAX YEARS	938	301	742.67
10/30/2014	MIF	38344	CARQUEST AUTO PARTS - FD	REPAIRS & MAINTENANCE	930	333	114.55

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 216 MEDICAL RESCUE FUND							
				REPAIRS & MAINTENANCE	930	333	1,516.59
				CHECK MIF 38344 TOTAL FOR FUND 216:			<u>1,631.14</u>
10/30/2014	MIF	38345	HOME DEPOT CREDIT SERVICES	EQUIPMENT	970	900	1,349.10
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	301	82.55
11/06/2014	MIF	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	301	105.60
11/06/2014	MIF	38363*#	PNC BANK	UNIFORMS/GEAR & ALLOWANCE	741	301	511.30
				EQUIPMENT	970	900	762.75
				CHECK MIF 38363 TOTAL FOR FUND 216:			<u>1,274.05</u>
				Total for fund 216 MEDICAL RESCUE FUND			11,700.88

11/06/2014 01:42 PM

User: JEWELIE

DB: Northfield

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP

CHECK DATE FROM 10/28/2014 - 11/06/2014

Banks: MIF

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 230 DONATION FUND							
11/06/2014	MIF	38359	WASTE MANAGEMENT OF MI	DONATIONS - EVENTS/COMMUNITY PROJECTS	904	301	18.00
Total for fund 230 DONATION FUND							18.00

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User: JEWELIE
DB: Northfield

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP

CHECK DATE FROM 10/28/2014 - 11/06/2014

Banks: MIF

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 287 BUILDING DEPARTMENT FUND							
10/29/2014	MIF	38329*#	PITTSFIELD TOWNSHIP	INSPECTOR EXPENSES	725	261	2,288.00
11/06/2014	MIF	38347*#	AT&T	COMMUNICATION	850	301	31.43
Total for fund 287 BUILDING DEPARTMENT FUND							2,319.43

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User: JEWELIE
DB: Northfield

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP
CHECK DATE FROM 10/28/2014 - 11/06/2014
Banks: MIF

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 370 PUBLIC SAFETY BLDG DEBT FD							
10/29/2014	MIF	38289*#	ALLIANCE WINDOW CLEANING	REPAIRS & MAINTENANCE	930	301	10.00
10/29/2014	MIF	38290	ALLSTAR ALARM LLC	CONTRACTUAL SERVICES	818	301	261.00
10/29/2014	MIF	38301*#	CONSUMERS ENERGY	UTILITIES	920	301	1,139.24
10/29/2014	MIF	38342*#	WASHTENAW COUNTY TREASURER	CHARGEBACKS - PRIOR TAX YEARS	938	301	347.78
11/06/2014	MIF	38349	CHARTER COMMUNICATIONS	COMMUNICATION	850	301	106.98
11/06/2014	MIF	38350*	DTE ENERGY	UTILITIES	920	301	1,846.16
11/06/2014	MIF	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	301	2,390.70
11/06/2014	MIF	38353	J & M LANDSCAPING	GROUNDS/CLEANG/JANITORL SERVIC	816	301	200.00
11/06/2014	MIF	38363*#	PNC BANK	SUPPLIES	727	301	158.60
Total for fund 370 PUBLIC SAFETY BLDG DEBT FD							6,460.46

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 571 WASTEWATER TREATMENT FUND							
10/29/2014	MIF	38295*#	AT&T LONG DISTANCE	COMMUNICATION	850	301	39.70
10/29/2014	MIF	38301*#	CONSUMERS ENERGY	UTILITIES	920	301	16.13
				UTILITIES	920	301	15.52
				UTILITIES	920	301	24.49
				UTILITIES	920	301	19.42
				UTILITIES	920	301	1,047.22
				UTILITIES	920	301	20.15
				UTILITIES	920	301	18.70
				UTILITIES	920	301	20.15
				CHECK MIF 38301 TOTAL FOR FUND 571:			<u>1,181.78</u>
10/29/2014	MIF	38304*#	DTE ENERGY	UTILITIES	920	301	31.64
				UTILITIES	920	301	20.14
				UTILITIES	920	301	144.02
				UTILITIES	920	301	53.93
				UTILITIES	920	301	77.59
				UTILITIES	920	301	11.45
				UTILITIES	920	301	9.77
				UTILITIES	920	301	25.91
				UTILITIES	920	301	22.78
				UTILITIES	920	301	18.20
				UTILITIES	920	301	39.05
				UTILITIES	920	301	17.04
				UTILITIES	920	301	414.44
				UTILITIES	920	301	47.12
				UTILITIES	920	301	17.63
				UTILITIES	920	301	27.61
				CHECK MIF 38304 TOTAL FOR FUND 571:			<u>978.32</u>
10/29/2014	MIF	38307*#	DTE ENERGY	UTILITIES	920	301	1,667.46
10/29/2014	MIF	38310	GREAT LAKES PUMP & SUPPLY CO.	REPAIRS & MAINTENANCE	930	301	1,738.99
10/29/2014	MIF	38319	MICHIGAN DEPT. OF TRANSPORTATION	LAND LEASING	950	301	257.75

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
Fund: 571 WASTEWATER TREATMENT FUND							
10/29/2014	MIF	38324	NCL OF WISCONSIN, INC.	OPERATING SUPPLIES	740	301	47.27
10/29/2014	MIF	38330	POWER VAC OF MICHIGAN, INC	COLLECTION SYS ANNUAL MAINT	819	301	1,430.00
10/29/2014	MIF	38332	SPRINT/NEXTEL COMMUNICATIONS	COMMUNICATION	850	301	242.28
10/29/2014	MIF	38333*#	STANDARD INSURANCE CO.	LIFE/DISB. INSURANCE	717	226	251.77
10/29/2014	MIF	38335	SYNAGRO CENTRAL, LLC	COLLECTION SYS ANNUAL MAINT	819	301	25,570.60
10/29/2014	MIF	38337*#	TETRA TECH INC	ENGINEER	806	270	2,880.00
10/29/2014	MIF	38338	UIS SCADA	REPAIRS & MAINTENANCE	930	301	332.69
10/29/2014	MIF	38339	USA BLUE BOOK	COLLECTION SYS ANNUAL MAINT	819	301	118.70
				REPAIRS & MAINTENANCE	930	301	78.52
				CHECK MIF 38339 TOTAL FOR FUND 571:			<u>197.22</u>
11/06/2014	MIF	38347*#	AT&T	COMMUNICATION	850	301	272.99
11/06/2014	MIF	38348*#	AUTOMATED RESOURCE MGT INC	SUPPLIES	727	301	16.05
11/06/2014	MIF	38350*	DTE ENERGY	UTILITIES	920	301	9.25
11/06/2014	MIF	38352*#	INTEGRYS ENERGY SERVICES, INC.	UTILITIES	920	301	813.42
				UTILITIES	920	301	4,226.05
				CHECK MIF 38352 TOTAL FOR FUND 571:			<u>5,039.47</u>
11/06/2014	MIF	38358*	WARD'S DO IT CENTER	REPAIRS & MAINTENANCE	930	301	131.20
				REPAIRS & MAINTENANCE	930	301	(10.45)
				CHECK MIF 38358 TOTAL FOR FUND 571:			<u>120.75</u>
				Total for fund 571 WASTEWATER TREATMENT FUND			42,274.34
				TOTAL - ALL FUNDS			111,918.03

'*'-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE FUND

11/06/2014 01:42 PM
User: JEWELIE
DB: Northfield

CHECK DISBURSEMENT REPORT FOR NORTHFIELD TOWNSHIP
CHECK DATE FROM 10/28/2014 - 11/06/2014
Banks: MIF

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
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'#'-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE DEPARTMENT



William E. Wagner, Jr.
 Director of Public
 Safety/Fire Chief

Northfield Township Public Safety

8350 Main Street, Whitmore Lake, MI 48189
 Fire: 734-449-2385 • Fax: 734-449-2521
 Police: 734-449-9911 • Fax: 734-449-0511
 www.twp.northfield.mi.us



Timothy Greene
 Lieutenant
 Police Operations

NORTHFIELD TOWNSHIP FIRE DEPARTMENT STATISTICAL REPORT FOR October 2014

November, 2014

To The Northfield Township Board of Trustees:

The Northfield Township Fire Department responded to 52 requests for service in October 2014. This is about 5 more calls than October 2013 when we responded to 47 calls.

Fire Calls: 9

Wires down 1

Alarms-1

Gas Leak-1

Smoke investigation-6

False Alarm-2

Motor Vehicle crashes-8

Medical Responses-32

Of the responses for the month 63% were in the Hamlet area of the Township, 37% were in the rural areas of the Township. There were two Mutual aids that were in Hamburg Twp.

Mutual Aid calls for the month: We assisted other agencies 2 times and received assistance from other agencies 2 times.

The Average response time for the month of October was 6:10.

Significant calls for the month: The only significant call for the month was the rescue crew got to assist delivering a baby at the Shell station on Territorial. Mother and baby were both healthy and transported to U of M. It's a Boy!

William Wagner
 Fire Chief



William E. Wagner, Jr.
Director of Public
Safety/Fire Chief

Northfield Township Public Safety

8350 Main Street, Whitmore Lake, MI 48189
Fire: 734-449-2385 • Fax: 734-449-2521
Police: 734-449-9911 • Fax: 734-449-0511
www.twp.northfield.mi.us



Timothy Greene
Lieutenant
Police Operations

November 2014

Director of Public Safety Board Communication

- 1. Fire department training October :** Training for the month of October consisted of: Search and rescue evolutions at the Darlene Curtis house on Main St. We trained on the new EMS protocol on back boarding or the lack there of. You will see very few people backboarded anymore. And lastly we had the classroom portion of our annual drivers training.
- 2. EMS/ HVA update:** Attached is the monthly report for ALS response times over 10 minutes. EMS calls were down for the month but the ALS response times seem to be a little bit better this month with a few exceptions.
- 3. Fire Prevention Week:** Fire Prevention week was October 5th through the 11th. The theme for this year's week is " Working smoke detectors save lives" I would encourage **EVERYONE** to test and change the batteries in your smoke detectors. If a resident does not have a smoke detector or needs batteries contact us and we will help correct that problem.
- 4. Police and Fire Departments open House:** The open house was very nice this years with around 150 residents that came out and visited the Police and Fire Station. The helicopter was a hit as usual and we did have a head on crash at Main and Six Mile just as the open house started. We were able to handle the crash while landing the helicopter at the same time.

- 5. Public Education:** This year we were able to make contact with all classes K-4 in the Whitmore Lake Schools as well as the Pre-school and various classes at Ann Arbor Christian and Spirit De Sanctus.

 - 6. Runs of Significance:** October was a relatively quiet month with the only call of significance was the rescue crew got to help deliver a baby at the Shell Station. Mother and baby were fine and it was a boy.
-

ALS Response Times
In excess of 10 minutes
October 2014

<u>Date</u>	<u>Location</u>	<u>Incident type</u>	<u>ALS Response time</u>	<u>Transport</u>
10/3/2014	Hamlet	Difficulty Breathing	17	HVA
10/8/2014	Hamlet	Unconscious	15 minutes	HVA
10/9/2014	Hamlet	sick person	14 minutes	HVA
10/10/2014	Hamlet	Difficulty Breathing	20 minutes	HVA
10/12/2014	Hamlet	Unconscious	23 minutes	HVA
10/15/2014	Hamlet	Trauma	18 minutes	HVA
10/21/2014	Rural	Cardiac arrest	14 minutes	HVA
10/23/2014	Hamlet	Difficulty Breathing	13 minutes	HVA



William E. Wagner, Jr.
Director of Public
Safety/Fire Chief

Northfield Township Public Safety

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Timothy Greene
Lieutenant
Police Operations

MONTHLY REPORT OCTOBER 2014

TO: The Northfield Township Board of Trustees
FROM: Lieutenant Timothy Greene
RE: Monthly Operations Review
DATE: Township Board Meeting of November 11, 2014

GENERAL ENFORCEMENT STATISTICS

The Northfield Township Police Department responded to 456 complaints during the Month of October 2014, and handled 5 mutual aid responses inside the township and 5 outside the township. Of the total complaints answered, 59 % of them were in the hamlet area and 41 % were handled throughout the rest of the Township. The average response time on calls for service is 5.72 minutes. Officers generated a total of 13 arrests. An itemized listing of monthly activities is attached.

VEHICLE SALE/REPLACEMENT

I request the Northfield Township Board of Trustees approve the sale of Police Department owned vehicles, a 2005 Dodge Dakota, 2003 Ford Taurus, and a 2012 Ford Explorer. I further request approval to purchase a new 2015 Chevy Tahoe from Champion Chevrolet at a cost of \$34,534.10. Item is budgeted out of Federal Forfeiture funds.

Timothy Greene.
Lieutenant

Attachments:

CLEAR-1018 Verified Offense By Date

Agency: NR

10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

Offense Code	Description	Incident Count
1178	CSC 4th Degree -Forcible Contact	1
1313	Assault/ Battery/Simple (Incl Domestic and Police Officer	4
1380	Telephone Used for Harassment, Threats	1
1385	Other Electronic Medium Used for Harassment, Threats	1
2305	Larceny - Personal Property from Vehicle - LFA	3
2308	Larceny - From Building (Includes Library, Office used by Public, etc)	1
2309	Larceny - From Yards (Grounds Surrounding a Building)	2
2399	Larceny (Other)	1
2902	Damage to Property - Private Property - MDOP	1
2999	Damage to Property - MDOP (other)	2
3078	Retail Fraud, Theft 3rd Degree	1
3562	Marijuana -Possess	1
5309	Harassing Communications	1
5591	Inhalation of Chemical Agents	1
8031	OUID Operating Under the Influence of Drugs	1
8041	Operating Under the Influence of Alcohol / Liquor OWI	1
80412	Operating Under the Influence of Alcohol / Liquor OWI 2nd Offense	1
C2931	DWLS OPS License Suspended / Revoked	1
C2933	Vehicle Registration - Improper / Expired	6
C2934	Vehicle Insurance - None / Expired	4
C2935	DWLS 2nd OPS License Suspended / Revoked	1
C2937	No OPS on Person - NOP-NOLOP	2
C3010	Felony Arrest Warrant (Originating Agency)	1
C3020	Misdemeanor Arrest Warrant (Originating Agency)	2
C3050	Misdemeanor Arrest Warrant - Other Jurisdiction	1
C3101	Acc, Single Motor Vehicle	5
C3114	Acc, Injury Type C	1
C3145	Property Damage Traffic Crash PDA	14
C3150	Property Damage H&R Traffic Crash	1
C3170	Private Property Traffic Crash	1
C3205	Sudden Death - Natural	1
C3208	Death Investigation - Cause Unknown	1
C3221	Attempt Suicide - Juvenile	1
C3250	Mental	3
C3299	Welfare Check	3
C3310	Family Trouble	7
C3312	Neighborhood Trouble	1
C3314	Missing Persons	2
C3318	Found Property	2
C3324	Suspicious Circumstances	9
C3326	Suspicious Vehicles	10
C3328	Suspicious Persons	9
C3329	Intelligence Information	1
C3330	Assist Other Law Enforcement Agency	2
C3331	Assist Medical	10

11/4/14 3:45 PM

CLEAR-1018 Verified Offense By Date

Page 1 of 3

CLEAR-1018 Verified Offense By Date
Agency: NR
10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

Offense Code	Description	Incident Count
C3332	Assist Fire Department	3
C3333	Assist Motorist	4
C3334	Assist Other Govt Agency	1
C3336	Assist Citizen	21
C3337	Assist Citizen - Vehicle Lockout	3
C3345	Accidental Property Damage	2
C3351	Civil - Landlord / Tenant	2
C3355	Civil Matter - Other	12
C3702	Traffic Complaint / Road Hazard	8
C3704	Traffic Complaint / Abandoned Auto	1
C3707	Vehicle Release	2
C3708	Traffic Complaint / Private Impound	2
C3728	Traffic Complaint / Parking Complaint	1
C3799	Miscellaneous Traffic Complaint	3
C3804	Animal Complaint	7
C3808	Animal Bite / Scratch	1
C3902	Burglary Alarm	2
C4041	Speeding Citation	37
C4047	Disobey Traffic Signal Citation	1
C4048	Improper Passing Citation	1
C4105	Equipment Citation	7
C4125	Seat Belt Law Citation	1
C4222	Parking - Aband Motor Vehicle	1
C4307	Drove W/Expired Ops	1
C4308	Violation of Restricted Ops	1
L3501	911 Hang Up - NR	3
L3502	Follow Up - NR	2
L3504	PBT Station - NR	11
L3506	Shots Fired - NR	2
L3507	Fingerprints - NR	6
L3508	Ticket Sign Off - NR	1
L3510	Loud Music - NR	2
L3512	Vin Inspection - NR	1
L3514	Warrant Pick Up - NR	1
L3521	Open Door / Window - NR	2
L3526	False Alarm - NR	18
L3531	Traffic control - NR	3
L3532	Range Firearms - NR	1
L3535	GUN Permit, Applications, CCW Permits - NR	28
L3538	Property/Vacation Check - NR	1
L3540	Child Safety Seat Inspection - NR	1
L3542	BOL - NR	9
L3546	Trespass Notice Served - NR	1
L3547	Subpoena Service - NR	1
L3550	Speed Sign Detail - NR	8

CLEAR-1018 Verified Offense By Date
Agency: NR
10/1/2014 12:00:00 AM - 10/31/2014 11:59:00 PM

Offense Code	Description	Incident Count
L3551	Sex Offender Registration/Verification - NR	1
L3552	Traffic Stop - NR	55
L3555	Attempt to Serve Warr - NR	2
L3558	Code Violation - NR	1
L3568	Local Records Check - NR	2
L3569	Assist Other Police Agency - Inside Northfield - NR	5
L3570	Assist Other Police Agency - Outside Northfield - NR	5
L3597	Non Terminal - NR	26
L4925	Commercial Vehicle Violations - NR	5
L6012	Traffic Direction / Control / Problem - NR	1
Sum:		456

Report Time:
11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses
All Offenses that were Attempted or Completed
For the Month of October

Agency: Northfield Township Police
ORI: MI8196400

<u>Classification</u>	<u>Oct/2013</u>	<u>Oct/2014</u>	<u>%Change</u>
09001 MURDER/NONNEGLIGENT MANSLAUGHTER (VOLUNTARY)	0	0	-
09002 NEGLIGENT HOMICIDE/MANSLAUGHTER (INVOLUNTARY)	0	0	-
09004 JUSTIFIABLE HOMICIDE	0	0	-
10001 KIDNAPPING/ABDUCTION	0	0	-
10002 PARENTAL KIDNAPPING	0	0	-
11001 SEXUAL PENETRATION PENIS/VAGINA -CSC 1ST DEGREE	1	0	-100.0%
11002 SEXUAL PENETRATION PENIS/VAGINA -CSC 3RD DEGREE	1	0	-100.0%
11003 SEXUAL PENETRATION ORAL/ANAL -CSC 1ST DEGREE	0	0	-
11004 SEXUAL PENETRATION ORAL/ANAL -CSC 3RD DEGREE	0	0	-
11005 SEXUAL PENETRATION OBJECT -CSC 1ST DEGREE	0	0	-
11006 SEXUAL PENETRATION OBJECT -CSC 3RD DEGREE	0	0	-
11007 SEXUAL CONTACT FORCIBLE -CSC 2ND DEGREE	0	0	-
11008 SEXUAL CONTACT FORCIBLE -CSC 4TH DEGREE	0	1	-
12000 ROBBERY	0	0	-
13001 NONAGGRAVATED ASSAULT	5	4	-20.0%
13002 AGGRAVATED/FELONIOUS ASSAULT	1	0	-100.0%
13003 INTIMIDATION/STALKING	3	3	0%
20000 ARSON	0	0	-
21000 EXTORTION	0	0	-
22001 BURGLARY -FORCED ENTRY	3	0	-100.0%
22002 BURGLARY -ENTRY WITHOUT FORCE (Intent to Commit)	0	0	-
23001 LARCENY -POCKETPICKING	0	0	-
23002 LARCENY -PURSES/NATCHING	0	0	-
23003 LARCENY -THEFT FROM BUILDING	1	1	0%
23004 LARCENY -THEFT FROM COIN-OPERATED MACHINE/DEVICE	0	0	-
23005 LARCENY -THEFT FROM MOTOR VEHICLE	1	3	200.0%
23006 LARCENY -THEFT OF MOTOR VEHICLE PARTS/ACCESSORIES	2	0	-100.0%
23007 LARCENY -OTHER	2	3	50.0%
24001 MOTOR VEHICLE THEFT	0	0	-
24002 MOTOR VEHICLE, AS STOLEN PROPERTY	0	0	-
24003 MOTOR VEHICLE FRAUD	0	0	-
25000 FORGERY/COUNTERFEITING	0	0	-
26001 FRAUD -FALSE PRETENSE/SWINDLE/CONFIDENCE GAME	1	0	-100.0%
26002 FRAUD -CREDIT CARD/AUTOMATIC TELLER MACHINE	1	0	-100.0%
26003 FRAUD -IMPERSONATION	0	0	-
26004 FRAUD -WELFARE FRAUD	0	0	-
26005 FRAUD -WIRE FRAUD	0	0	-
27000 EMBEZZLEMENT	0	0	-
28000 STOLEN PROPERTY	1	0	-100.0%
29000 DAMAGE TO PROPERTY	7	3	-57.1%
30001 RETAIL FRAUD -MISREPRESENTATION	0	0	-
30002 RETAIL FRAUD -THEFT	0	1	-

Agency: Northfield Township
ORI: MI8196400

Oakland County CLEMIS
REPORT EXCLUDES UCR STATUS OF UNF

Report: CLEAR-008
Page 1 of 4

Report Time:
11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses
All Offenses that were Attempted or Completed
For the Month of October

Agency: Northfield Township Police
ORI: MI8196400

Classification	Oct/2013	Oct/2014	%Change
30003 RETAIL FRAUD -REFUND/EXCHANGE	0	0	-
30004 ORGANIZED RETAIL FRAUD	0	0	-
35001 VIOLATION OF CONTROLLED SUBSTANCE ACT	0	3	-
35002 NARCOTIC EQUIPMENT VIOLATIONS	0	1	-
36001 SEXUAL PENETRATION NONFORCIBLE -BLOOD/AFFINITY	0	0	-
36002 SEXUAL PENETRATION NONFORCIBLE -OTHER	0	0	-
37000 OBSCENITY	0	0	-
39001 GAMBLING- BETTING/WAGERING	0	0	-
39002 GAMBLING- OPERATING/PROMOTING/ASSISTING	0	0	-
39003 GAMBLING -EQUIPMENT VIOLATIONS	0	0	-
39004 GAMBLING -SPORTS TAMPERING	0	0	-
40001 COMMERCIALIZED SEX -PROSTITUTION	0	0	-
40002 COMMERCIALIZED SEX -ASSISTING/PROMOTING PROSTITUTION	0	0	-
40003 HUMAN TRAFFICKING - PURCHASING PROSTITUTION	0	0	-
51000 BRIBERY	0	0	-
52001 WEAPONS OFFENSE- CONCEALED	0	0	-
52002 WEAPONS OFFENSE -EXPLOSIVES	0	0	-
52003 WEAPONS OFFENSE -OTHER	0	0	-
64001 HUMAN TRAFFICKING - COMMERCIAL SEX ACTS	0	0	-
64002 HUMAN TRAFFICKING - INVOLUNTARY SERVITUDE	0	0	-
Total for Group A	30	23	-23.3%
01000 SOVEREIGNTY	0	0	-
02000 MILITARY	0	0	-
03000 IMMIGRATION	0	0	-
09003 NEGLIGENT HOMICIDE -VEHICLE/BOAT	0	0	-
14000 ABORTION	0	0	-
22003 BURGLARY - UNLAWFUL ENTRY (NO INTENT)	1	0	-100.0%
22004 POSSESSION OF BURGLARY TOOLS	0	0	-
26006 FRAUD -BAD CHECKS	0	0	-
36003 PEEPING TOM	0	0	-
36004 SEX OFFENSE -OTHER	0	0	-
38001 FAMILY -ABUSE/NEGLECT NONVIOLENT	1	0	-100.0%
38002 FAMILY -NONSUPPORT	0	0	-
38003 FAMILY -OTHER	0	0	-
41001 LIQUOR LICENSE -ESTABLISHMENT	0	0	-
41002 LIQUOR VIOLATIONS -OTHER	2	0	-100.0%
42000 DRUNKENNESS	0	0	-
48000 OBSTRUCTING POLICE	0	1	-
49000 ESCAPE/FLIGHT	0	0	-
50000 OBSTRUCTING JUSTICE	1	0	-100.0%
53001 DISORDERLY CONDUCT	0	0	-
53002 PUBLIC PEACE -OTHER	0	0	-
54001 HIT and RUN MOTOR VEHICLE ACCIDENT	1	0	-100.0%

Agency: Northfield Township
ORI: MI8196400

Oakland County CLEMIS
REPORT EXCLUDES UCR STATUS OF UNF

Report: CLEAR-008
Page 2 of 4

Report Time:
11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses
All Offenses that were Attempted or Completed
For the Month of October

Agency: Northfield Township Police
ORI: MI8196400

Classification	Oct/2013	Oct/2014	%Change
54002 OPERATING UNDER THE INFLUENCE OF LIQUOR OR DRUGS	2	3	50.0%
55000 HEALTH AND SAFETY	0	1	-
56000 CIVIL RIGHTS	0	0	-
57001 TRESPASS	0	0	-
57002 INVASION OF PRIVACY -OTHER	0	0	-
58000 SMUGGLING	0	0	-
59000 ELECTION LAWS	0	0	-
60000 ANTITRUST	0	0	-
61000 TAX/REVENUE	0	0	-
62000 CONSERVATION	0	0	-
63000 VAGRANCY	0	0	-
70000 JUVENILE RUNAWAY	0	0	-
73000 MISCELLANEOUS CRIMINAL OFFENSE	1	0	-100.0%
75000 SOLICITATION	0	0	-
77000 CONSPIRACY (ALL CRIMES)	0	0	-
Total for Group B	9	5	-44.4%
2800 JUVENILE OFFENSES AND COMPLAINTS	4	0	-100.0%
2900 TRAFFIC OFFENSES	9	14	55.6%
3000 WARRANTS	8	4	-50.0%
3100 TRAFFIC CRASHES	25	22	-12.0%
3200 SICK / INJURY COMPLAINT	17	8	-52.9%
3300 MISCELLANEOUS COMPLAINTS	96	101	5.2%
3400 WATERCRAFT COMPLAINTS / ACCIDENTS	0	0	-
3500 NON-CRIMINAL COMPLAINTS	177	201	13.6%
3600 SNOWMOBILE COMPLAINTS / ACCIDENTS	0	0	-
3700 MISCELLANEOUS TRAFFIC COMPLAINTS	15	17	13.3%
3800 ANIMAL COMPLAINTS	3	8	166.7%
3900 ALARMS	0	2	-
Total for Group C	354	377	6.5%
2700 LOCAL ORDINANCES - GENERIC	0	0	-
4000 HAZARDOUS TRAFFIC CITATIONS / WARNINGS	36	39	8.3%
4100 NON-HAZARDOUS TRAFFIC CITATIONS / WARNINGS	4	8	100.0%
4200 PARKING CITATIONS	2	1	-50.0%
4300 LICENSE / TITLE / REGISTRATION CITATIONS	4	2	-50.0%
4400 WATERCRAFT CITATIONS	0	0	-
4500 MISCELLANEOUS A THROUGH UUUU	0	0	-
4600 LIQUOR CITATIONS / SUMMONS	0	0	-
4700 COMMERCIAL VEHICLE CITATIONS	0	0	-
4800 LOCAL ORDINANCE WARNINGS	0	0	-
4900 TRAFFIC WARNINGS	3	5	66.7%
Total for Group D	49	55	12.2%
5000 FIRE CLASSIFICATIONS	0	0	-
5100 18A STATE CODE FIRE CLASSIFICATIONS	1	0	-100.0%

Agency: Northfield Township
ORI: MI8196400

Oakland County CLEMIS
REPORT EXCLUDES UCR STATUS OF UNF

Report: CLEAR-008
Page 3 of 4

Report Time:
11/4/2014 3:49:39 PM

Report CLEAR-008 Summary of Offenses
All Offenses that were Attempted or Completed
For the Month of October

Agency: Northfield Township Police
ORI: MI8196400

<u>Classification</u>	<u>Oct/2013</u>	<u>Oct/2014</u>	<u>%Change</u>
Total for Group E	1	0	-100.0%
6000 MISCELLANEOUS ACTIVITIES (6000)	1	1	0%
6100 MISCELLANEOUS ACTIVITIES (6100)	0	0	-
6200 ARREST ASSIST	0	0	-
6300 CANINE ACTIVITIES	0	0	-
6500 CRIME PREVENTION ACTIVITIES	0	0	-
6600 COURT / WARRANT ACTIVITIES	0	0	-
6700 INVESTIGATIVE ACTIVITIES	1	0	-100.0%
Total for Group F	2	1	-50.0%
Total for All Groups	445	461	3.6%

MONTHLY REPORT for OCTOBER 2014

EVENTS OF SIGNIFICANCE

LARCENY

On October 18, a man on Spencer Rd reported that a large amount of scrap metal had been stolen from his property. The man believed that his daughter's boyfriend may be a possible suspect. The man reviewed his security cameras and was able to hear the voice of his daughter's boyfriend on the security footage. He then went to a local scrap yard, where they had record of the suspect having sold scrap to them after the time of the theft. Officers confronted the suspect, who ultimately admitted to stealing the scrap. This case is being reviewed by the Prosecutor's Office.

OWI CRASH

On October 12, officers were dispatched to an injury crash on Main Street near Six Mile Rd. Upon arrival, officers located three subjects who were injured. The driver of the vehicle traveling northbound on Main Street told officers that he fell asleep while driving, crossed the center line and struck the southbound vehicle head-on. As officers interviewed the driver, they noticed an odor of intoxicants. The driver admitted to having five beers over the last three hours. After some field sobriety tests, the driver consented to a PBT, yielding a .104 result. The driver was arrested for OWI and transported to the jail. Charges are pending at the Prosecutor's Office for OWI 2nd Offense Causing Injury.

DOMESTIC VIOLENCE

On October 12, officers responded to a residence on Winters Lane for a Domestic Violence incident. Upon arrival, officers located a female victim on the front porch who was visibly upset. She advised officers that she had been out at a bar and returned home shortly after midnight. Her husband had also been drinking. She advised that her husband approached her and an argument ensued, during which time he pushed her several times, causing her to fall down the exterior stairs of the home and hit her head. The victim's husband then locked her out of the residence. Officers attempted to make contact with the suspect (who was in the home) but he would not answer the door or his phone. Officers helped the victim find alternative arrangements for the night and provided her with information for Domestic Violence victim's assistance. Charges were requested from the Prosecutor's Office for Domestic Violence and were authorized.

OPERATE UNDER THE INFLUENCE OF DRUGS

On October 6, officers responded to a gas station on Main Street to the report of a subject passed out behind the wheel. As officers approached, they observed two empty pill bottles in the driver's lap and multiple pills in his hand. The subject was very incoherent, confused and seemed to be under the influence of a drug(s). The subject was taken into custody for possession of drugs. Officers performed sobriety tests on the subject, which he failed. His PBT resulted in .000 so officers drafted a search warrant for blood and transported the subject to the hospital to be drug tested. Upon arrival at the hospital, the subject started resisting officers' commands and making threats to the officers, adding a charge of Resist & Obstruct. The officers learned that the subject had tried to sell his drugs to the clerk inside the gas station. The subject's vehicle was forfeited for having been involved in the attempt sale of drugs. Officers located marijuana and drug paraphernalia in the subject's vehicle so he was also charged with Possession of Marijuana & Drug Paraphernalia.

SEX OFFENDER VIOLATION ARREST

On October 5, officers went to the residence of a registered sex offender living in Northfield Township, whom they knew to have a valid warrant for his arrest. The offender had a warrant for Failing to Register. While officers were waiting for backup near the offender's house, they observed him leaving his residence in a vehicle. They initiated a traffic stop on the offender and took him into custody on the warrant without incident.

MONTHLY TRAINING FOR OCTOBER 2014

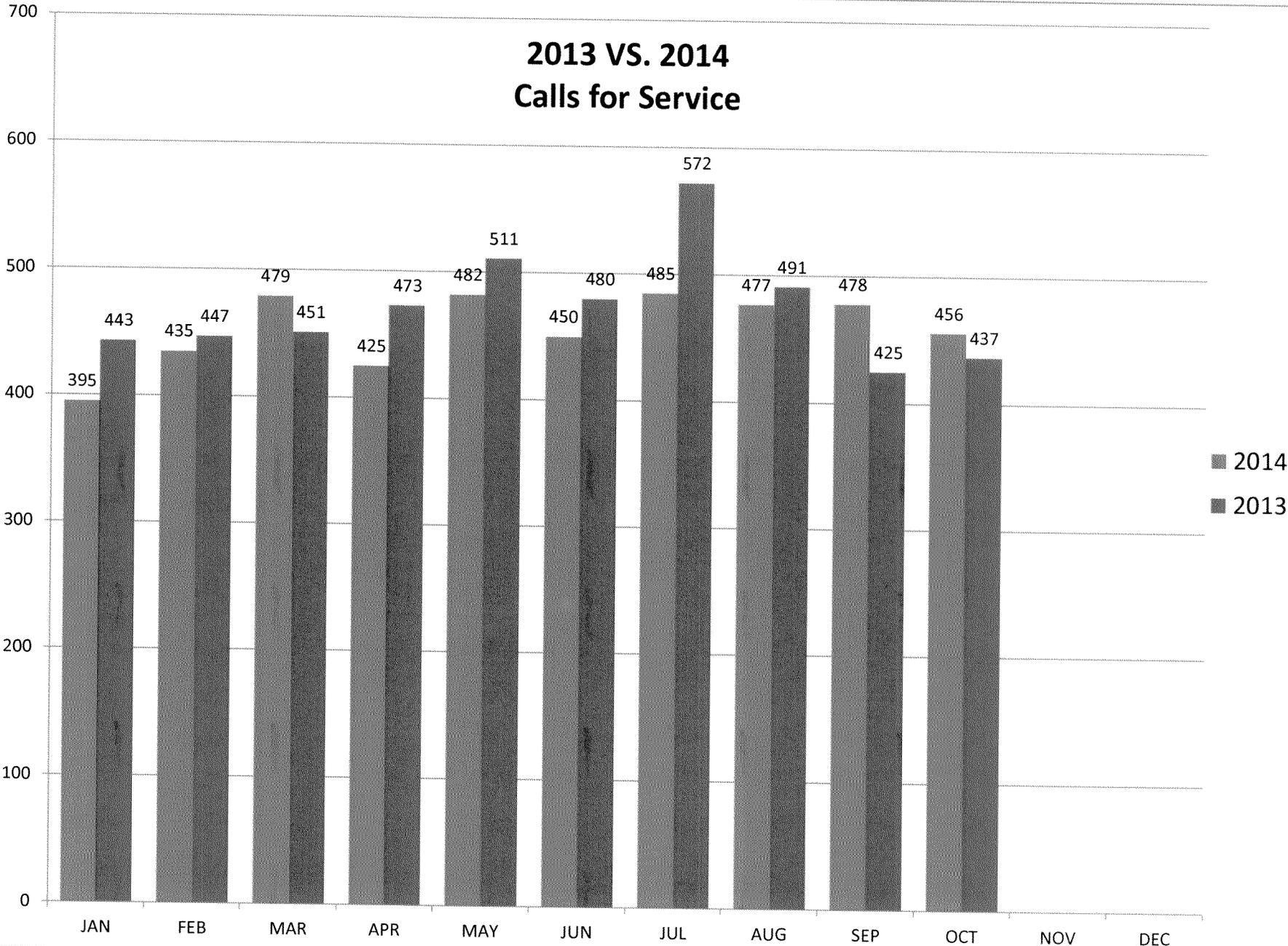
FORMAL TRAINING

Clerk S. Hamilton – Security Awareness Training - LEIN

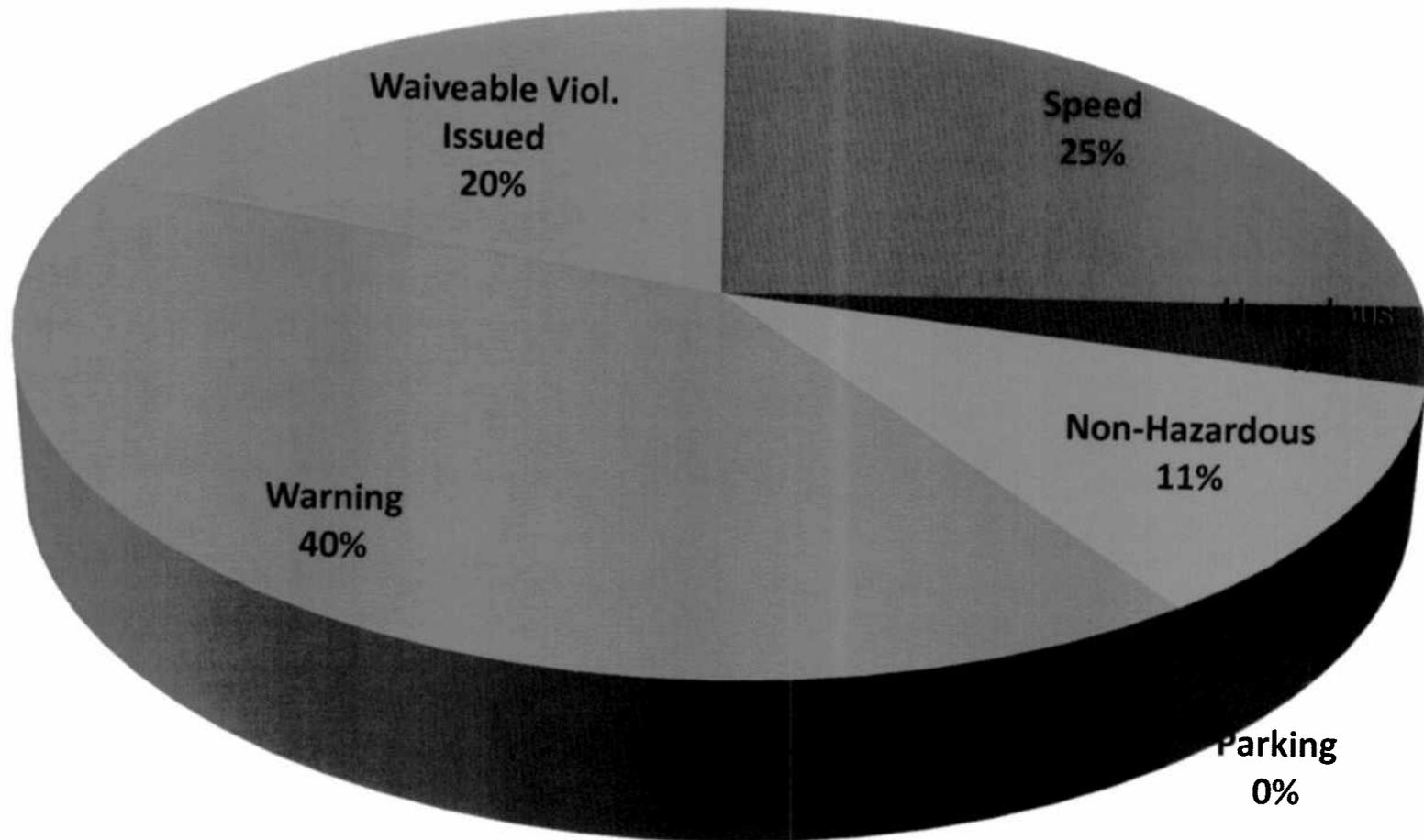
IN-SERVICE TRAINING

Firearms Qualifications
Firearms Standard for Active Duty Law Enforcement Officers

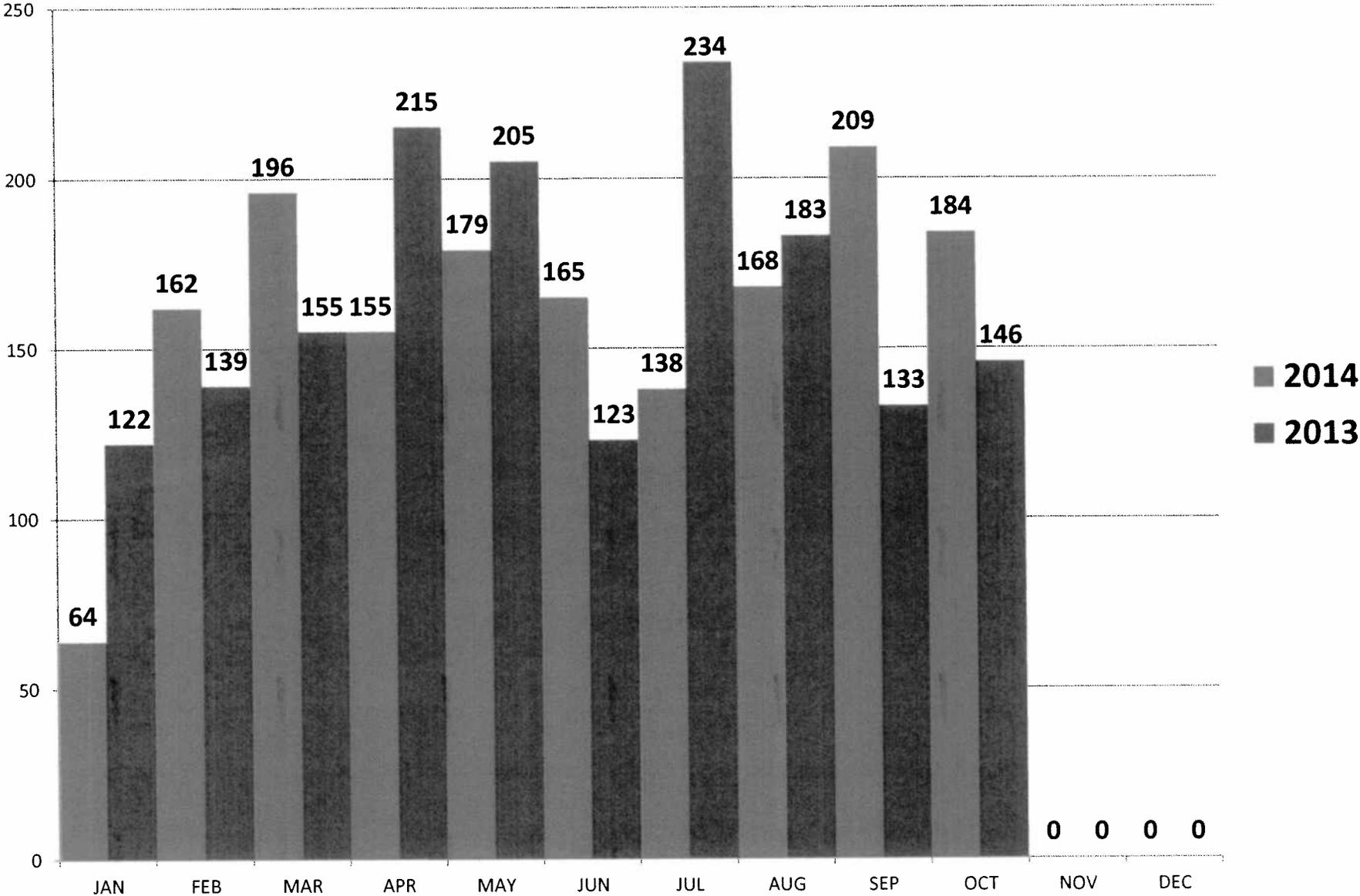
2013 VS. 2014 Calls for Service



TRAFFIC VIOLATIONS ISSUED BY TYPE
October 2014



NUMBER OF TRAFFIC VIOLATIONS BY MONTH 2014 vs. 2013



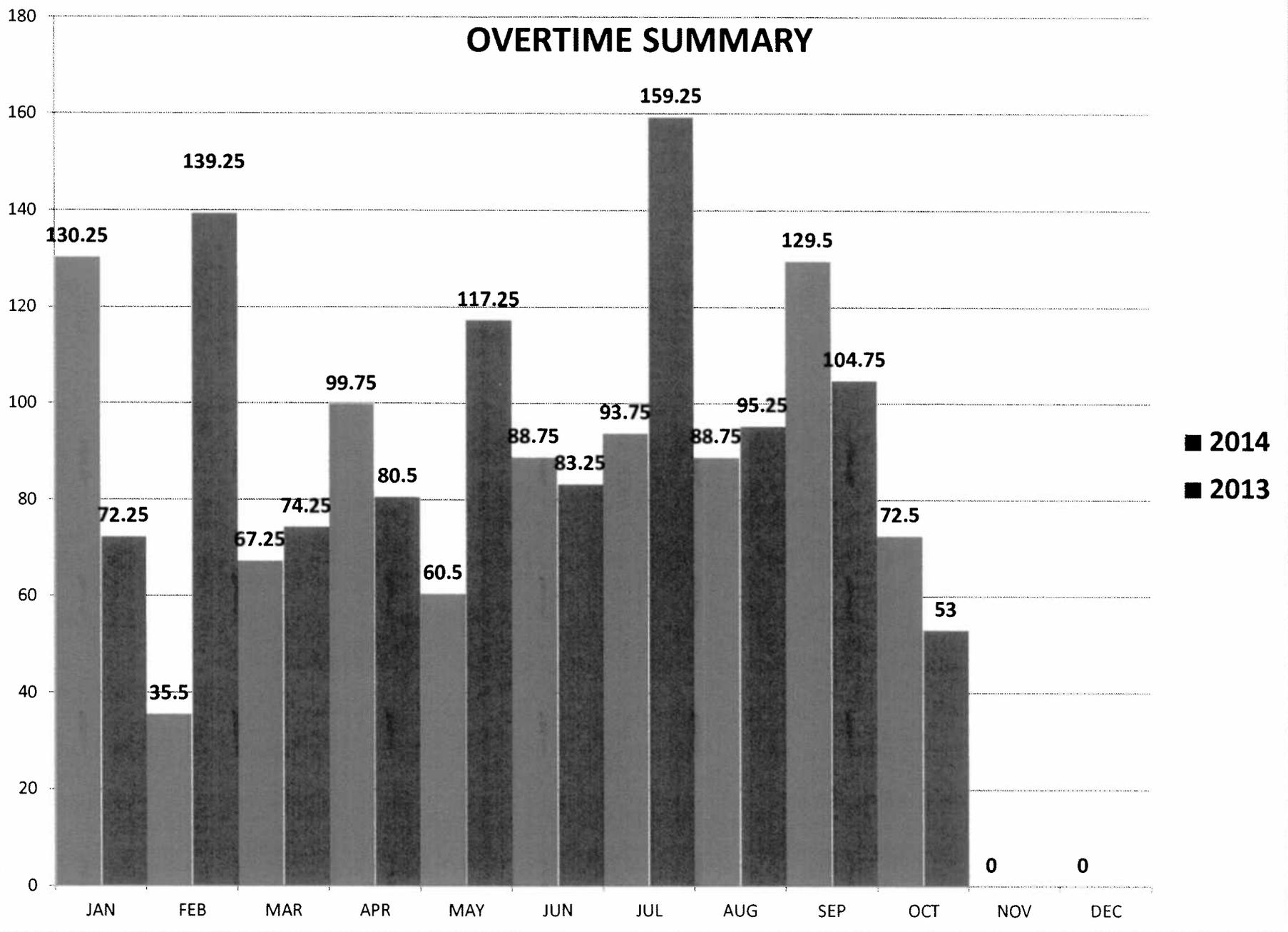
TRAFFIC VIOLATIONS SUMMARY

JANUARY 1, 2014 THROUGH DECEMBER 31, 2014													
2014	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Speed	11	41	49	53	59	49	22	39	46	46			415
Hazardous	4	13	12	8	11	2	15	15	13	7			100
Non-Hazardous	10	19	17	14	19	6	25	26	26	21			183
Parking	0	0	0	0	0	0	0	1	0	0			1
Warning	29	64	81	59	70	83	71	61	98	74			690
Waiveable Viol. Issued	10	25	37	21	20	25	5	26	26	36			231
TOTAL	64	162	196	155	179	165	138	168	209	184	0	0	1620

JANUARY 1, 2013 THROUGH DECEMBER 31, 2013													
2013	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Speed	25	25	27	62	74	30	47	51	19	39			399
Hazardous	10	8	8	12	7	9	21	16	5	15			111
Non-Hazardous	8	14	15	22	26	16	40	16	12	26			195
Parking	0	1	0	1	1	0	0	0	0	0			3
Warning	69	70	86	103	79	54	106	81	87	49			784
Waiveable	10	21	19	15	18	14	20	19	10	17			163
TOTAL	122	139	155	215	205	123	234	183	133	146	0	0	1655

Note: Waiveable citations are: Defective Equipment; No Operator's License on Person and No Registration

OVERTIME SUMMARY



OVERTIME SUMMARY

2014	OVERTIME BY TYPE												YTD
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Court	10	23.5	38.25	38	31	18.75	12	15	23.5	18			228
Complaint Investigation	0.25	0	0.75	9	9	0	0.5	13.5	4	2			39
Report Writing	0	0	0	0	0	0	3.75	1	0	0			4.75
Training	0	0	0	0	4	0	6.5	25.25	13	24.5			73.25
Short Shift	4	12	28.25	32.25	16.5	35	1	0	17.5	23			169.5
Administrative	0	0	0	6	0	2.5	0	0	2.5	2			13
Special Detail	0	0	0	14.5	0	32.5	34	34	5	3			123
Holiday	116	0	0	0	0	0	36	0	64	0			216
TOTAL	130.25	35.5	67.25	99.75	60.5	88.75	93.75	88.75	129.5	72.5	0	0	866.5

	2013 VS. 2014												YTD
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
2014 - TOTAL	130.25	35.5	67.25	99.75	60.5	88.75	93.75	88.75	129.5	72.5	0	0	866.5
2013 - TOTAL	72.25	139.25	74.25	80.5	117.25	83.25	159.25	95.25	104.75	53			979

EMPLOYEE TIME OFF

2014	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Sick	44	36	51	0	0	8	54	0	2	0			195
Comp	9.5	9.5	23.5	26.75	13.25	33.5	84	22	23.5	4.25			249.75
Vacation	46	0	60	106	12	0	128	184	0	58			594
Holiday	48	10	0	5	10	0	10	0	10	0			93
PTO	44	61.75	80	39	123	156.5	39.5	39	153.5	59.5			795.75
Other	12	0	0	0	0	0	0	0	0	0			
TOTAL	203.5	117.25	214.5	176.75	158.25	198	315.5	245	189	121.75	0	0	1927.5

RESERVE UNIT HOURS

<i>RESERVE HOURS BY TYPE</i>													
2014	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD
Training	0	0	0	5	3	0	0	0	0	3			11
Patrol	23.5	20.5	16.5	23.75	17	44	0	31	7	8			191.25
Crime Prevention	0	0	0	0	0	0	0	0	0	0			0
Special Events	0	21	0	0	0	14	30	0	14	0			79
Administrative	0	0	0	0	0	0	0	0	0	2.5			2.5
TOTAL	23.5	41.5	16.5	28.75	20	58	30	31	21	13.5	0	0	283.75

**JAMES E. COX
NORTHFIELD TOWNSHIP
WATER POLLUTION CONTROL FACILITY
11500 LEMEN ROAD WHITMORE LAKE MICHIGAN
PHONE 734-449-4159 FAX 734-449-4302**

To: Northfield Township Board of Trustees

From: Tim Hardesty Wastewater Treatment Plant Superintendent

Date: November 5th, 2014

Subject: October 2014 Monthly Report

- 10/1/14: Continuing with cleaning and televising of collection system.
- 10/3/14: Replaced small ferric chloride chemical feed pump on the south aeration tank.
- 10/3/14: Ran generator at Northshore #2 pump station because of power failure. Power returned on Saturday afternoon.
- 10/8/14: De-watered primary tank #4 to re-align collector gears and chains.
- 10/9/14: Sent the motor for the intermediate tank scum pump to be re-wound.
- 10/14/14: Sent John White to an electrical safety class in Dexter.
- 10/16/14: The level control digital display board had to be replaced at the Eight Mile Rd pump station.
- 10/21/14: Plugged sewer call at 9107 Walnut Dr. The problem was in the homeowners' line.
- 10/23/14: Pulled pump #2 at the Elmcrest pump station. There were rags in the pump.
- 10/23/14: Replaced a blown capacitor for pump #1 at the Nine Mile Rd. pump station.
- 10/29/14: Call back for power failure at Eagle Gardens pump station.

October 2014 Daily Average Flow	.619MGD
October 2013 Daily Average Flow	.586MGD
Maximum October Daily Flow 2014	.750MGD
Maximum October Daily Flow 2013	.695MGD
Minimum October Daily Flow 2014	.477MGD
Minimum October Daily Flow 2013	.484MGD
6 – Month Average Flow	.770MGD
12 – Month Average Flow	.742MGD
Total Gallons Treated October 2014	19.198 MG
Total Gallons Treated October 2013	18.174 MG
Rainfall (inches) October 2014	2.02”
Rainfall (inches) October 2013	2.30”
Connections / Tap-ins’ to system	0
Miss Dig Staking’s	8

Northfield Township Community Center
Monthly Report
October 2014
Tami Averill, Director

I. **October Overview**

October was a busy month, as we worked to add some new programs and a Halloween event.

Howard and I continued to work on the Parks and Recreation master plan.

Progress continues towards the Community Center becoming a site for Meals on Wheels and congregate lunches.

Planning for future programming and trips is ongoing. I am working to schedule more adult art classes and more family, children and teen programs.

A big thank you to our volunteers – Mary Cook, Damon Dotson, Dave Gonzales, Cindy Hogston, Betty Jones, Alyssa Jones, Fritz Nelson, Ann Thompson - for the assistance they gave to the Community Center in October. They have helped in the office, made recycled greeting cards, clipped coupons for the Troops, helped with building repairs, and much more!

II. **Program Evaluation**

- a. **On Going Services**– Massage Therapy continues every Monday. Lynn has been maintaining a full schedule of four to six people per week.

We are currently looking for a Foot Care Specialist to replace Ava Passino. Ava retired in October. We miss her and wish her well!

The Medical Loan Closet continues to be available to the community. Three loans were made in October. We received donations of several walkers, crutches, a shower seat and a wheelchair. We are running low on wheelchairs and shower chairs, and are looking for donations.

The Regency is sending a Registered Nurse on the 2nd Tuesday of each month, between 12:45p.m. and 2:00p.m. to do blood pressure screenings for the community. Six people took advantage of the service in October.

- b. **Classes**

Chair Yoga (7 participants/week) and Michigan Rehabilitation Senior Exercise (8-10 participants/week) continued.

Yoga for Beginners had 8 to 10 people attending each week.

Yoga for Kids class and Yoga for Parent & Child Yoga class did not have enough participants to run them in October. We will take a break in November and December, as we continue to recruit participants. They will be back on the schedule again in January.

Tai Chi is on hold until after the first of the year, due to a low sign up for the fall.

MAH fitness is back on Thursday afternoons with 3 participants. This session will end on Nov. 20, and will begin again in January.

Senior Exercise continues on Tuesday afternoons and Thursday mornings with 8-10 participants each week.

c. **On-Going Activities**

Pinochle continues every Tuesday and Thursday afternoon. Attendance has been consistent at 8 to 12 players per day each week.

Friday afternoon Euchre continues. Six people are currently participating.

The Knit, Crochet, Craft group continues to meet every Friday afternoon. 6 people attended during October. Basic knitting instruction is being given for anyone who would like to learn.

The Whitmore Lake Portrait Group remains steady with their participation. Eight to ten artists attend each week. The art gallery that showcases their art continues to be popular with our guests.

d. **Special Events**

"Karaoke Night at the Community Center," continues. Attendance was lower in October (10), but colder, wet weather may have contributed to that. The next sessions are November 7 and 14. Everyone is welcome to come join in the fun!

Six people attended Lunch and a Movie in October. Those who attended enjoyed a lunch of pizza, salads and dessert, and watched "Saving Mr. Banks."

The University of Michigan Flu Program nurses held a Flu Shot Clinic at the Center on October 17. Thirty people took advantage of the opportunity to get their flu and/or pneumonia shots.

Representative Gretchen Driskell held a Coffee Hour at the Center on October 24. Two people in addition to me attended.

We held an Old-fashioned Halloween Party on October 25. The event included Halloween crafts and activities from the past, a "Fortune Teller," a storyteller, dinner and Halloween movies. The event was on the online calendar, in the newsletter, on WLPS Peachjar page, in several local

newspapers and the MLive calendar. Flyers were distributed through town, in neighborhoods and during the Boo Bash at the High School. We had a number of people pre-registered, but only one person actually attended. We are evaluating and will be trying it again next year!

Kudos to those who worked so hard to put this event together! Amber Barsegian, Annie & Bryan Bryske, Mary Cook, Mary & Tom Devlin, Damon Dotson, Dave Gonzales, Ruth Hague, Cindy Hogston, Alyssa Jones, Betty Jones, Marikay Molnar, Fritz Nelson, Jacqueline & Jerry Otto, Donn Sleek, Miranda Smith, and Ann Thompson. They were a huge help and their efforts were truly appreciated! We enjoyed an evening of storytelling, good food, great conversation and some classic Halloween movies on our own!

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP
 PERIOD ENDING 10/31/2014
 % Fiscal Year Completed: 33.70

GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 101 - GENERAL FUND							
Revenues							
Dept 000							
101-000-426	PRIOR YEAR TAX INTEREST	343.84	0.00	0.00	0.00	0.00	0.00
101-000-452	PEDDLER'S LICENSES	85.00	0.00	50.00	50.00	(50.00)	100.00
101-000-453	CABLEVISION FRANCHISE FEES	92,534.67	85,000.00	74.17	74.17	84,925.83	0.09
101-000-455	FIBER FOOTAGE FEES	8,586.20	9,250.00	0.00	0.00	9,250.00	0.00
101-000-574	STATE SHARED REVENUE	618,499.00	650,000.00	0.00	0.00	650,000.00	0.00
101-000-590	GRANT INCOME	232,325.95	250,000.00	0.00	0.00	250,000.00	0.00
101-000-626	COPY & FOIA INCOME	269.01	250.00	55.00	0.00	195.00	22.00
101-000-665	INTEREST INCOME	1,918.69	1,500.00	(113.75)	0.00	1,613.75	(7.58)
101-000-671	REIMBURSEMENT/OTHER INCOME	1,019.06	650.00	400.58	285.58	249.42	61.63
101-000-675	CONTRIBUTION-PRIVATE SOURCES	9.00	0.00	0.00	0.00	0.00	0.00
101-000-688	RENTAL INCOME - BARKER RD	9,960.00	11,760.00	3,620.00	980.00	8,140.00	30.78
101-000-690	UNREALIZED GAIN/LOSS	(38,173.65)	0.00	0.00	0.00	0.00	0.00
Total Dept 000		927,376.77	1,008,410.00	4,086.00	1,389.75	1,004,324.00	0.41
Dept 191-ELECTIONS							
101-191-671	REIMBURSEMENT/OTHER INCOME	2,312.01	0.00	0.00	0.00	0.00	0.00
Total Dept 191-ELECTIONS		2,312.01	0.00	0.00	0.00	0.00	0.00
Dept 253-TREASURER							
101-253-402	CURRENT PROPERTY TAX	252,329.33	256,700.00	0.00	0.00	256,700.00	0.00
101-253-404	MOBILE HOME LICENSE FEES	3,138.50	2,850.00	241.00	0.00	2,609.00	8.46
101-253-445	PENALTY & INTEREST ON TAXES	150.97	500.00	0.00	0.00	500.00	0.00
101-253-627	SUMMER TAX PREPARATION	13,480.00	13,490.00	0.00	0.00	13,490.00	0.00
101-253-680	TAX ADMINISTRATION FEES	133,476.51	134,000.00	42,883.86	4,853.24	91,116.14	32.00
Total Dept 253-TREASURER		402,575.31	407,540.00	43,124.86	4,853.24	364,415.14	10.58
Dept 336-CONTRIBUTIONS							
101-336-624	DDA	22,790.00	20,000.00	0.00	0.00	20,000.00	0.00
101-336-625	SEWER ADMINISTRATION	39,000.00	43,969.00	0.00	0.00	43,969.00	0.00
Total Dept 336-CONTRIBUTIONS		61,790.00	63,969.00	0.00	0.00	63,969.00	0.00
Dept 412-PLANNING/ZONING DEPT							
101-412-477	ZONING COMPLIANCE PERMITS	10,400.00	3,000.00	1,900.00	100.00	1,100.00	63.33
101-412-607	ZONING ADMINISTRATIVE FEES	500.00	0.00	0.00	0.00	0.00	0.00
101-412-608	VARIANCES/APPEALS	2,118.11	2,000.00	325.00	0.00	1,675.00	16.25
101-412-629	ZONING COPIES	15.00	50.00	0.00	0.00	50.00	0.00
101-412-637	SPLIT APPLICATIONS	2,100.00	500.00	0.00	0.00	500.00	0.00
Total Dept 412-PLANNING/ZONING DEPT		15,133.11	5,550.00	2,225.00	100.00	3,325.00	40.09
Dept 666-COMMUNITY CENTER							
101-666-590	GRANT INCOME	2,550.00	0.00	0.00	0.00	0.00	0.00
101-666-643	SCC TRIPS/PROGRAMS	15,440.75	25,000.00	2,543.25	887.00	22,456.75	10.17
101-666-649	SCC MEMBERSHIP	1,363.07	0.00	0.00	0.00	0.00	0.00
101-666-676	CONTRIBUTIONS - SCC	580.00	500.00	595.25	430.25	(95.25)	119.05

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

PERIOD ENDING 10/31/2014

% Fiscal Year Completed: 33.70

GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDTG USED
Fund 101 - GENERAL FUND							
Expenditures							
101-215-701	SALARIES	16,484.71	12,500.00	3,365.32	1,442.28	9,134.68	26.92
101-215-703	DEPUTY SALARIES	28,517.58	32,130.00	13,024.00	4,368.88	19,106.00	40.54
101-215-715	SOCIAL SECURITY	3,442.67	3,415.00	1,158.87	444.55	2,256.13	33.93
101-215-722	CONTROLLER	0.00	0.00	94.91	0.00	(94.91)	100.00
101-215-723	RECORD SEC	4,767.50	7,720.00	2,287.50	2,287.50	5,432.50	29.63
101-215-807	MEMBERSHIP DUES	0.00	100.00	0.00	0.00	100.00	0.00
101-215-860	FUEL & MILEAGE	101.79	200.00	11.20	0.00	188.80	5.60
101-215-922	LATE FEES AND PENALTIES	360.94	0.00	93.16	93.16	(93.16)	100.00
101-215-957	TRAINING & DEVELOPMENT	287.90	1,000.00	0.00	0.00	1,000.00	0.00
Total Dept 215-CLERK		53,963.09	57,065.00	20,034.96	8,636.37	37,030.04	35.11
Dept 247-BOARD OF REVIEW							
101-247-706	BOARD OF REVIEW FEE	1,356.00	2,000.00	90.00	0.00	1,910.00	4.50
101-247-715	SOCIAL SECURITY	103.74	153.00	6.89	0.00	146.11	4.50
101-247-900	PRINTING & PUBLICATIONS	506.00	800.00	0.00	0.00	800.00	0.00
101-247-959	TRIBUNALS AND DRAINS	1,966.06	20,000.00	0.00	0.00	20,000.00	0.00
Total Dept 247-BOARD OF REVIEW		3,931.80	22,953.00	96.89	0.00	22,856.11	0.42
Dept 253-TREASURER							
101-253-701	SALARIES	12,499.76	12,500.00	4,326.84	1,442.28	8,173.16	34.61
101-253-703	DEPUTY SALARIES	45,292.80	42,230.00	15,158.84	4,895.53	27,071.16	35.90
101-253-704	CLERICAL/DEP /SUPER/ELECTION	19,254.97	19,425.00	7,692.29	2,845.64	11,732.71	39.60
101-253-715	SOCIAL SECURITY	5,894.25	5,675.00	2,079.09	720.29	3,595.91	36.64
101-253-716	HOSPITALIZATION	5,784.07	7,050.00	1,877.83	514.68	5,172.17	26.64
101-253-717	LIFE/DISB. INSURANCE	541.25	530.00	192.00	76.80	338.00	36.23
101-253-718	PENSION	4,087.40	4,223.00	1,452.30	487.26	2,770.70	34.39
101-253-803	LEGAL	6,000.00	6,000.00	2,000.00	500.00	4,000.00	33.33
101-253-804	TAX STATEMENT PREPARATION	1,248.09	2,000.00	2,195.17	0.00	(195.17)	109.76
101-253-807	MEMBERSHIP DUES	100.00	130.00	0.00	0.00	130.00	0.00
101-253-851	POSTAGE	3,243.42	3,400.00	1,749.42	100.00	1,650.58	51.45
101-253-860	FUEL & MILEAGE	127.11	200.00	36.06	36.06	163.94	18.03
101-253-927	ALLOCATE TO DEPARTMENTS	(14,794.00)	(19,544.00)	0.00	0.00	(19,544.00)	0.00
101-253-956	MISCELLANEOUS	376.75	500.00	1,180.22	615.00	(680.22)	236.04
101-253-957	TRAINING & DEVELOPMENT	0.00	2,000.00	0.00	0.00	2,000.00	0.00
Total Dept 253-TREASURER		89,655.87	86,319.00	39,940.06	12,233.54	46,378.94	46.27
Dept 257-ASSESSING							
101-257-709	ASST ASSESSOR	4,563.75	25,710.00	6,892.78	2,730.79	18,817.22	26.81
101-257-713	ASSESSOR	62,884.44	63,283.00	25,597.70	8,234.63	37,685.30	40.45
101-257-715	SOCIAL SECURITY	5,159.69	6,810.00	955.51	456.35	5,854.49	14.03
101-257-716	HOSPITALIZATION	7,912.52	14,875.00	2,372.61	0.00	12,502.39	15.95
101-257-717	LIFE/DISB. INSURANCE	905.04	810.00	336.00	134.40	474.00	41.48
101-257-718	PENSION	6,138.26	6,328.00	236.30	0.00	6,091.70	3.73
101-257-720	BANKED PTO	(1,654.79)	0.00	0.00	0.00	0.00	0.00
101-257-727	SUPPLIES	1,002.69	1,000.00	77.00	52.03	923.00	7.70
101-257-807	MEMBERSHIP DUES	290.00	450.00	0.00	0.00	450.00	0.00
101-257-818	CONTRACTUAL SERVICES	235.00	0.00	545.00	0.00	(545.00)	100.00
101-257-851	POSTAGE	1,513.40	2,500.00	119.84	73.10	2,380.16	4.79
101-257-860	FUEL & MILEAGE	818.24	1,000.00	0.00	0.00	1,000.00	0.00
101-257-957	TRAINING & DEVELOPMENT	510.00	1,000.00	500.00	0.00	500.00	50.00

GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 101 - GENERAL FUND							
Revenues							
Total Dept 666-COMMUNITY CENTER		19,933.82	25,500.00	3,138.50	1,317.25	22,361.50	12.31
TOTAL Revenues		1,429,121.02	1,510,969.00	52,574.36	7,660.24	1,458,394.64	3.48
Expenditures							
Dept 101-TOWNSHIP BOARD							
101-101-701	SALARIES	8,958.19	10,000.00	1,874.97	1,874.97	8,125.03	18.75
101-101-715	SOCIAL SECURITY	685.32	765.00	143.44	143.44	621.56	18.75
101-101-807	MEMBERSHIP DUES	8,230.51	10,500.00	8,101.68	0.00	2,398.32	77.16
101-101-900	PRINTING & PUBLICATIONS	7,346.94	6,500.00	1,105.06	301.43	5,394.94	17.00
101-101-957	TRAINING & DEVELOPMENT	238.00	2,000.00	0.00	0.00	2,000.00	0.00
Total Dept 101-TOWNSHIP BOARD		25,458.96	29,765.00	11,225.15	2,319.84	18,539.85	37.71
Dept 171-SUPERVISOR							
101-171-701	SALARIES	12,499.76	12,500.00	4,326.84	1,442.28	8,173.16	34.61
101-171-715	SOCIAL SECURITY	50.10	957.00	(279.28)	(110.73)	1,236.28	(29.18)
101-171-807	MEMBERSHIP DUES	0.00	120.00	0.00	0.00	120.00	0.00
101-171-860	FUEL & MILEAGE	0.00	200.00	0.00	0.00	200.00	0.00
101-171-956	MISCELLANEOUS	0.00	100.00	0.00	0.00	100.00	0.00
101-171-957	TRAINING & DEVELOPMENT	0.00	1,000.00	0.00	0.00	1,000.00	0.00
Total Dept 171-SUPERVISOR		12,549.86	14,877.00	4,047.56	1,331.55	10,829.44	27.21
Dept 172-TOWNSHIP MANAGER							
101-172-701	SALARIES	77,062.94	77,000.00	26,653.86	8,884.62	50,346.14	34.62
101-172-704	CLERICAL/DEP /SUPER/ELECTION	11,228.00	26,625.00	8,829.50	2,932.00	17,795.50	33.16
101-172-715	SOCIAL SECURITY	10,825.04	12,125.00	4,024.51	1,360.89	8,100.49	33.19
101-172-716	HOSPITALIZATION	13,081.82	14,505.00	6,197.37	817.44	8,307.63	42.73
101-172-717	LIFE/DISB. INSURANCE	1,022.10	975.00	406.45	162.58	568.55	41.69
101-172-718	PENSION	7,699.62	7,700.00	2,665.26	888.42	5,034.74	34.61
101-172-722	CONTROLLER	53,212.80	54,850.00	17,124.64	5,972.82	37,725.36	31.22
101-172-818	CONTRACTUAL SERVICES	9,958.26	10,000.00	4,617.01	3,547.01	5,382.99	46.17
101-172-850	COMMUNICATION	847.62	1,000.00	152.25	50.32	847.75	15.23
101-172-860	FUEL & MILEAGE	275.77	1,000.00	0.00	0.00	1,000.00	0.00
101-172-927	ALLOCATE TO DEPARTMENTS	(30,863.00)	(37,114.00)	0.00	0.00	(37,114.00)	0.00
101-172-957	TRAINING & DEVELOPMENT	851.47	2,000.00	0.00	0.00	2,000.00	0.00
Total Dept 172-TOWNSHIP MANAGER		155,202.44	170,666.00	70,670.85	24,616.10	99,995.15	41.41
Dept 191-ELECTIONS							
101-191-704	CLERICAL/DEP /SUPER/ELECTION	1,400.36	6,500.00	3,066.00	0.00	3,434.00	47.17
101-191-727	SUPPLIES	1,442.36	2,650.00	1,572.89	438.38	1,077.11	59.35
101-191-818	CONTRACTUAL SERVICES	0.00	7,000.00	910.00	0.00	6,090.00	13.00
101-191-851	POSTAGE	200.00	1,000.00	0.00	0.00	1,000.00	0.00
101-191-900	PRINTING & PUBLICATIONS	234.20	2,000.00	1,130.09	349.09	869.91	56.50
Total Dept 191-ELECTIONS		3,276.92	19,150.00	6,678.98	787.47	12,471.02	34.88
Dept 215-CLERK							

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 101 - GENERAL FUND							
Expenditures							
Total Dept 257-ASSESSING		90,278.24	123,766.00	37,632.74	11,681.30	86,133.26	30.41
Dept 265-HALL AND GROUNDS							
101-265-710	JANITORIAL SALARIES	5,280.00	6,000.00	1,840.00	480.00	4,160.00	30.67
101-265-715	SOCIAL SECURITY	403.92	460.00	140.76	36.72	319.24	30.60
101-265-716	HOSPITALIZATION	196.75	0.00	0.00	0.00	0.00	0.00
101-265-721	UNEMPLOYMENT BENEFITS	56.03	0.00	0.00	0.00	0.00	0.00
101-265-727	SUPPLIES	11,467.51	9,000.00	2,413.40	326.36	6,586.60	26.82
101-265-731	WORKERS COMP INSURANCE	961.00	1,155.00	0.00	0.00	1,155.00	0.00
101-265-816	GROUNDS/CLEANG/JANITORL SERVIC	4,574.40	4,800.00	1,385.00	875.00	3,415.00	28.85
101-265-821	PSB MAINT & OPS ALLOCATION	52,442.00	49,934.00	0.00	0.00	49,934.00	0.00
101-265-850	COMMUNICATION	10,285.27	8,280.00	2,299.49	1,024.33	5,980.51	27.77
101-265-851	POSTAGE	4,708.08	5,500.00	678.59	675.99	4,821.41	12.34
101-265-910	INSURANCE & BONDS	26,016.37	30,700.00	0.00	0.00	30,700.00	0.00
101-265-920	UTILITIES	432.04	1,500.00	119.90	4.88	1,380.10	7.99
101-265-930	REPAIRS & MAINTENANCE	15,640.20	17,800.00	10,761.86	114.00	7,038.14	60.46
101-265-938	CHARGEBACKS - PRIOR TAX YEARS	23,890.71	2,000.00	2,539.35	690.53	(539.35)	126.97
101-265-940	RENTAL EQUIPMENT	3,533.59	4,300.00	1,199.33	461.49	3,100.67	27.89
101-265-956	MISCELLANEOUS	186.18	250.00	10.00	0.00	240.00	4.00
Total Dept 265-HALL AND GROUNDS		160,074.05	141,679.00	23,387.68	4,689.30	118,291.32	16.51
Dept 270-LEGAL/PROFESSIONAL							
101-270-800	OTHER PROFESSIONAL FEES	500.00	500.00	0.00	0.00	500.00	0.00
101-270-802	AUDIT FEES	4,500.00	4,500.00	4,500.00	4,500.00	0.00	100.00
101-270-803	LEGAL	91,441.61	96,000.00	27,568.51	8,139.52	68,431.49	28.72
101-270-806	ENGINEER	3,466.25	10,000.00	1,224.00	0.00	8,776.00	12.24
101-270-927	ALLOCATE TO DEPARTMENTS	(45,600.00)	(45,600.00)	(15,200.00)	(3,800.00)	(30,400.00)	33.33
Total Dept 270-LEGAL/PROFESSIONAL		54,307.86	65,400.00	18,092.51	8,839.52	47,307.49	27.66
Dept 336-CONTRIBUTIONS							
101-336-933	CONTRIBUTION - INDEPENDENCE DAY CELEBRA	2,000.00	2,500.00	0.00	0.00	2,500.00	0.00
101-336-964	CONTRIBUTION-FIRE & MED RES	32,866.00	25,000.00	0.00	0.00	25,000.00	0.00
Total Dept 336-CONTRIBUTIONS		34,866.00	27,500.00	0.00	0.00	27,500.00	0.00
Dept 412-PLANNING/ZONING DEPT							
101-412-707	ZBA SALARIES	1,300.00	3,000.00	1,000.00	0.00	2,000.00	33.33
101-412-715	SOCIAL SECURITY	948.60	1,071.00	221.85	30.60	849.15	20.71
101-412-723	RECORD SEC	5,107.50	6,720.00	1,892.50	1,892.50	4,827.50	28.16
101-412-726	PLANN COMM	11,100.00	11,000.00	1,900.00	400.00	9,100.00	17.27
101-412-727	SUPPLIES	76.49	200.00	0.00	0.00	200.00	0.00
101-412-800	OTHER PROFESSIONAL FEES	4,720.00	5,000.00	3,539.50	2,627.00	1,460.50	70.79
101-412-801	PLANNER FEES	34,101.06	30,000.00	8,768.79	5,203.79	21,231.21	29.23
101-412-803	LEGAL	0.00	5,000.00	0.00	0.00	5,000.00	0.00
101-412-809	CODE ENFORCEMENT	10,068.10	15,000.00	5,469.16	1,370.00	9,530.84	36.46
101-412-851	POSTAGE	0.00	500.00	6.49	6.49	493.51	1.30
101-412-860	FUEL & MILEAGE	96.00	1,800.00	121.60	0.00	1,678.40	6.76
101-412-900	PRINTING & PUBLICATIONS	3,712.62	1,500.00	763.37	0.00	736.63	50.89
101-412-927	ALLOCATE TO DEPARTMENTS	7,397.00	6,948.00	0.00	0.00	6,948.00	0.00

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Fund 101 - GENERAL FUND							
Expenditures							
101-412-957	TRAINING & DEVELOPMENT	569.78	4,000.00	625.00	0.00	3,375.00	15.63
Total Dept 412-PLANNING/ZONING DEPT		79,197.15	91,739.00	24,308.26	11,530.38	67,430.74	26.50
Dept 448-STREET LIGHTS							
101-448-920	UTILITIES	35,700.37	37,020.00	8,748.63	2,916.21	28,271.37	23.63
Total Dept 448-STREET LIGHTS		35,700.37	37,020.00	8,748.63	2,916.21	28,271.37	23.63
Dept 449-ROAD WORK							
101-449-813	ROADWORK	18,435.73	30,000.00	4,072.63	0.00	25,927.37	13.58
101-449-814	ROAD IMPROVEMENTS	44,756.74	100,500.00	73,531.80	0.00	26,968.20	73.17
101-449-929	GRANT EXPENSE	232,325.95	250,000.00	0.00	0.00	250,000.00	0.00
Total Dept 449-ROAD WORK		295,518.42	380,500.00	77,604.43	0.00	302,895.57	20.40
Dept 666-COMMUNITY CENTER							
101-666-701	SALARIES	26,894.79	37,500.00	12,903.78	4,326.90	24,596.22	34.41
101-666-715	SOCIAL SECURITY	2,057.42	2,870.00	987.17	331.02	1,882.83	34.40
101-666-716	HOSPITALIZATION	6,021.28	6,895.00	1,754.25	340.60	5,140.75	25.44
101-666-717	LIFE/DISB. INSURANCE	401.12	525.00	218.40	87.36	306.60	41.60
101-666-718	PENSION	3,140.22	3,750.00	1,282.58	432.66	2,467.42	34.20
101-666-727	SUPPLIES	1,481.10	1,800.00	395.86	209.84	1,404.14	21.99
101-666-731	WORKERS COMP INSURANCE	250.00	270.00	0.00	0.00	270.00	0.00
101-666-807	MEMBERSHIP DUES	295.00	220.00	0.00	0.00	220.00	0.00
101-666-812	SCC TRIPS/PROGRAMS	18,131.28	22,500.00	5,265.61	2,054.07	17,234.39	23.40
101-666-816	GROUNDS/CLEANG/JANITORL SERVIC	7,434.20	8,225.00	1,190.00	200.00	7,035.00	14.47
101-666-850	COMMUNICATION	2,256.47	2,300.00	984.42	310.65	1,315.58	42.80
101-666-851	POSTAGE	660.48	1,050.00	175.00	175.00	875.00	16.67
101-666-900	PRINTING & PUBLICATIONS	0.00	1,000.00	0.00	0.00	1,000.00	0.00
101-666-910	INSURANCE & BONDS	1,070.00	1,900.00	0.00	0.00	1,900.00	0.00
101-666-920	UTILITIES	2,538.34	4,500.00	566.64	157.98	3,933.36	12.59
101-666-929	GRANT EXPENSE	1,789.98	0.00	0.00	0.00	0.00	0.00
101-666-930	REPAIRS & MAINTENANCE	2,207.22	4,300.00	1,813.12	1,542.71	2,486.88	42.17
101-666-970	EQUIPMENT	105.47	400.00	0.00	0.00	400.00	0.00
Total Dept 666-COMMUNITY CENTER		76,734.37	100,005.00	27,536.83	10,168.79	72,468.17	27.54
Dept 850-TOWNSHIP CONTINGENCY							
101-850-905	CONTINGENCY FUNDS	500.00	10,000.00	0.00	0.00	10,000.00	0.00
Total Dept 850-TOWNSHIP CONTINGENCY		500.00	10,000.00	0.00	0.00	10,000.00	0.00
Dept 900-CAPITAL OUTLAY							
101-900-972	COMPUTER	16,259.38	11,500.00	0.00	0.00	11,500.00	0.00
101-900-978	LAND ACQUISITION	1,605.00	4,500.00	97,082.58	2,500.00	(92,582.58)	2,157.39
Total Dept 900-CAPITAL OUTLAY		17,864.38	16,000.00	97,082.58	2,500.00	(81,082.58)	606.77
Dept 905-DEBT SERVICE							

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 101 - GENERAL FUND							
Expenditures							
101-905-985	PSB SHARE OF BOND PMT	87,417.29	85,225.00	0.00	0.00	85,225.00	0.00
Total Dept 905-DEBT SERVICE		<u>87,417.29</u>	<u>85,225.00</u>	<u>0.00</u>	<u>0.00</u>	<u>85,225.00</u>	<u>0.00</u>
TOTAL Expenditures		<u>1,276,497.07</u>	<u>1,479,629.00</u>	<u>467,088.11</u>	<u>102,250.37</u>	<u>1,012,540.89</u>	<u>31.57</u>
Fund 101 - GENERAL FUND:							
TOTAL REVENUES		1,429,121.02	1,510,969.00	52,574.36	7,660.24	1,458,394.64	3.48
TOTAL EXPENDITURES		1,276,497.07	1,479,629.00	467,088.11	102,250.37	1,012,540.89	31.57
NET OF REVENUES/EXPENDITURES - 2013-14				<u>152,623.95</u>		<u>152,623.95</u>	<u>(1,322.6)</u>
NET OF REVENUES & EXPENDITURES		152,623.95	31,340.00	(414,513.75)	(94,590.13)	445,853.75	1,322.63
BEG. FUND BALANCE		1,396,753.84	1,396,753.84	1,396,753.84			(1,322.6)
END FUND BALANCE		1,549,377.79	1,428,093.84	1,134,864.04			(1,322.6)

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 207 - LAW ENFORCEMENT FUND							
Revenues							
Dept 000							
207-000-402	CURRENT PROPERTY TAX	1,357,583.69	1,380,946.00	0.00	0.00	1,380,946.00	0.00
207-000-445	PENALTY & INTEREST ON TAXES	726.06	0.00	0.00	0.00	0.00	0.00
207-000-570	LIQUOR LICENSE & PERMITS	2,605.35	3,000.00	2,565.75	0.00	434.25	85.53
207-000-590	GRANT INCOME	0.00	1,000.00	0.00	0.00	1,000.00	0.00
207-000-626	COPY & FOIA INCOME	2,030.50	1,500.00	658.50	93.00	841.50	43.90
207-000-656	FINES & COURT FEES	28,074.67	30,000.00	6,265.05	2,628.16	23,734.95	20.88
207-000-658	IMPOUND FEES	2,120.00	2,000.00	780.00	0.00	1,220.00	39.00
207-000-664	FEES PAID FOR OFFICER WAGES	3,671.00	6,000.00	6,298.12	2,205.04	(298.12)	104.97
207-000-671	REIMBURSEMENT/OTHER INCOME	3,714.25	3,000.00	944.00	443.00	2,056.00	31.47
207-000-673	SALE OF FIXED ASSET	3,986.00	0.00	460.00	0.00	(460.00)	100.00
207-000-675	CONTRIBUTION-PRIVATE SOURCES	0.00	200.00	0.00	0.00	200.00	0.00
207-000-681	OT REIMBURSEMENT	16,846.01	17,000.00	1,513.64	0.00	15,486.36	8.90
Total Dept 000		1,421,357.53	1,444,646.00	19,485.06	5,369.20	1,425,160.94	1.35
Dept 336-CONTRIBUTIONS							
207-336-588	CONTRIBUTION OTHER FUND(S)	35,000.00	36,000.00	0.00	0.00	36,000.00	0.00
207-336-683	CONTRIBUTION - INDEPENDENCE DAY CELEBRA	1,000.00	1,500.00	0.00	0.00	1,500.00	0.00
Total Dept 336-CONTRIBUTIONS		36,000.00	37,500.00	0.00	0.00	37,500.00	0.00
TOTAL Revenues		1,457,357.53	1,482,146.00	19,485.06	5,369.20	1,462,660.94	1.31
Expenditures							
Dept 226-PERSONNEL							
207-226-701	SALARIES	187,203.98	193,211.00	71,619.58	25,607.93	121,591.42	37.07
207-226-702	SALARIES	364,740.09	376,420.00	142,005.32	44,432.18	234,414.68	37.73
207-226-704	CLERICAL/DEP /SUPER/ELECTION	60,904.85	67,717.00	22,221.47	7,468.60	45,495.53	32.82
207-226-708	SALARIES-PART TIME	22,915.85	36,500.00	13,675.76	3,799.34	22,824.24	37.47
207-226-710	JANITORIAL SALARIES	4,240.00	5,000.00	2,720.00	640.00	2,280.00	54.40
207-226-711	SALARIES-OVERTIME	58,941.16	36,500.00	14,721.24	3,737.75	21,778.76	40.33
207-226-714	HOLIDAY	31,837.50	33,920.00	0.00	0.00	33,920.00	0.00
207-226-715	SOCIAL SECURITY	57,592.99	58,185.00	20,422.69	6,554.96	37,762.31	35.10
207-226-716	HOSPITALIZATION	129,914.66	156,015.00	39,586.73	8,182.23	116,428.27	25.37
207-226-717	LIFE/DISB. INSURANCE	8,404.74	8,741.00	3,261.85	1,304.74	5,479.15	37.32
207-226-718	PENSION	57,505.86	60,884.00	21,512.50	7,081.98	39,371.50	35.33
207-226-719	EMPLOYEE FRINGE-LONGEVITY	4,800.00	5,400.00	0.00	0.00	5,400.00	0.00
207-226-720	BANKED PTO	(119,213.11)	0.00	0.00	0.00	0.00	0.00
207-226-730	MEDICAL TESTING	712.50	500.00	0.00	0.00	500.00	0.00
207-226-731	WORKERS COMP INSURANCE	7,536.00	10,130.00	0.00	0.00	10,130.00	0.00
207-226-741	UNIFORMS/GEAR & ALLOWANCE	5,900.00	5,900.00	0.00	0.00	5,900.00	0.00
207-226-927	ALLOCATE TO DEPARTMENTS	54,568.00	56,771.00	0.00	0.00	56,771.00	0.00
207-226-957	TRAINING & DEVELOPMENT	1,790.00	500.00	0.00	0.00	500.00	0.00
Total Dept 226-PERSONNEL		940,295.07	1,112,294.00	351,747.14	108,809.71	760,546.86	31.62
Dept 265-HALL AND GROUNDS							
207-265-821	PSB MAINT & OPS ALLOCATION	52,441.00	49,933.00	0.00	0.00	49,933.00	0.00
Total Dept 265-HALL AND GROUNDS		52,441.00	49,933.00	0.00	0.00	49,933.00	0.00

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BGD USED
Fund 207 - LAW ENFORCEMENT FUND							
Expenditures							
Dept 270-LEGAL/PROFESSIONAL							
207-270-722	CONTROLLER	7,982.00	8,227.00	0.00	0.00	8,227.00	0.00
207-270-802	AUDIT FEES	3,060.00	3,060.00	3,060.00	3,060.00	0.00	100.00
207-270-803	LEGAL	39,700.00	40,000.00	13,200.00	3,300.00	26,800.00	33.00
Total Dept 270-LEGAL/PROFESSIONAL		50,742.00	51,287.00	16,260.00	6,360.00	35,027.00	31.70
Dept 301-OPERATING COSTS							
207-301-727	SUPPLIES	4,397.38	4,000.00	1,520.26	371.34	2,479.74	38.01
207-301-741	UNIFORMS/GEAR & ALLOWANCE	2,672.67	1,000.00	58.29	0.00	941.71	5.83
207-301-807	MEMBERSHIP DUES	1,746.10	2,000.00	400.00	0.00	1,600.00	20.00
207-301-818	CONTRACTUAL SERVICES	17,547.00	19,000.00	3,638.00	3,638.00	15,362.00	19.15
207-301-820	DISPATCH SERVICES	63,346.92	68,000.00	21,115.64	5,278.91	46,884.36	31.05
207-301-850	COMMUNICATION	16,931.74	22,000.00	4,101.20	2,274.87	17,898.80	18.64
207-301-851	POSTAGE	136.90	200.00	100.00	100.00	100.00	50.00
207-301-900	PRINTING & PUBLICATIONS	263.18	500.00	31.93	0.00	468.07	6.39
207-301-910	INSURANCE & BONDS	20,675.00	17,513.00	0.00	0.00	17,513.00	0.00
207-301-929	GRANT EXPENSE	0.00	1,000.00	0.00	0.00	1,000.00	0.00
207-301-930	REPAIRS & MAINTENANCE	3,849.66	4,000.00	142.11	0.00	3,857.89	3.55
207-301-932	RADIO REPAIR	1,100.00	1,100.00	0.00	0.00	1,100.00	0.00
207-301-938	CHARGEBACKS - PRIOR TAX YEARS	74,884.75	0.00	7,575.14	1,660.67	(7,575.14)	100.00
207-301-940	RENTAL EQUIPMENT	1,319.34	2,300.00	547.14	114.91	1,752.86	23.79
207-301-972	COMPUTER	2,608.35	2,300.00	800.00	200.00	1,500.00	34.78
Total Dept 301-OPERATING COSTS		211,478.99	144,913.00	40,029.71	13,638.70	104,883.29	27.62
Dept 333-TRANSPORTATION							
207-333-860	FUEL & MILEAGE	29,483.23	25,000.00	6,663.92	2,468.13	18,336.08	26.66
207-333-930	REPAIRS & MAINTENANCE	10,834.20	11,000.00	5,928.38	162.06	5,071.62	53.89
Total Dept 333-TRANSPORTATION		40,317.43	36,000.00	12,592.30	2,630.19	23,407.70	34.98
Dept 336-CONTRIBUTIONS							
207-336-964	CONTRIBUTION-FIRE & MED RES	7,867.00	0.00	0.00	0.00	0.00	0.00
Total Dept 336-CONTRIBUTIONS		7,867.00	0.00	0.00	0.00	0.00	0.00
Dept 900-CAPITAL OUTLAY							
207-900-970	EQUIPMENT	0.00	1,500.00	0.00	0.00	1,500.00	0.00
207-900-972	COMPUTER	371.30	500.00	0.00	0.00	500.00	0.00
Total Dept 900-CAPITAL OUTLAY		371.30	2,000.00	0.00	0.00	2,000.00	0.00
Dept 905-DEBT SERVICE							
207-905-985	PSB SHARE OF BOND PMT	87,417.27	85,222.00	0.00	0.00	85,222.00	0.00
Total Dept 905-DEBT SERVICE		87,417.27	85,222.00	0.00	0.00	85,222.00	0.00
TOTAL Expenditures		1,390,930.06	1,481,649.00	420,629.15	131,438.60	1,061,019.85	28.39

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP
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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 207 - LAW ENFORCEMENT FUND							
Fund 207 - LAW ENFORCEMENT FUND:							
	TOTAL REVENUES	1,457,357.53	1,482,146.00	19,485.06	5,369.20	1,462,660.94	1.31
	TOTAL EXPENDITURES	1,390,930.06	1,481,649.00	420,629.15	131,438.60	1,061,019.85	28.39
	NET OF REVENUES/EXPENDITURES - 2013-14			66,427.47		66,427.47	(80,713.
	NET OF REVENUES & EXPENDITURES	66,427.47	497.00	(401,144.09)	(126,069.40)	401,641.09	80,713.1
	BEG. FUND BALANCE	403,950.61	403,950.61	403,950.61			(80,713.
	END FUND BALANCE	470,378.08	404,447.61	69,233.99			(80,713.

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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Fund 216 - MEDICAL RESCUE FUND							
Revenues							
Dept 000							
216-000-402	CURRENT PROPERTY TAX	607,117.18	617,577.00	0.00	0.00	617,577.00	0.00
216-000-445	PENALTY & INTEREST ON TAXES	337.94	0.00	0.00	0.00	0.00	0.00
216-000-482	HOUSE NUMBERS	400.00	250.00	200.00	40.00	50.00	80.00
216-000-588	CONTRIBUTION OTHER FUND(S)	25,000.00	25,000.00	0.00	0.00	25,000.00	0.00
216-000-590	GRANT INCOME	22.10	0.00	0.00	0.00	0.00	0.00
216-000-626	COPY & FOIA INCOME	23.00	25.00	5.00	0.00	0.00	0.00
216-000-635	RESPONSE FEES	20,755.12	8,000.00	1,218.88	981.50	20.00	20.00
216-000-639	DRIVEWAY INSPECTIONS	550.00	300.00	300.00	100.00	6,781.12	15.24
216-000-671	REIMBURSEMENT/OTHER INCOME	4,719.25	5,000.00	860.00	0.00	0.00	100.00
216-000-673	SALE OF FIXED ASSET	3,058.00	0.00	980.00	0.00	4,140.00	17.20
216-000-675	CONTRIBUTION-PRIVATE SOURCES	100.00	0.00	0.00	0.00	(980.00)	100.00
						0.00	0.00
Total Dept 000		662,082.59	656,152.00	3,563.88	1,121.50	652,588.12	0.54
Dept 336-CONTRIBUTIONS							
216-336-588	CONTRIBUTION OTHER FUND(S)	15,733.00	0.00	0.00	0.00	0.00	0.00
216-336-683	CONTRIBUTION - INDEPENDENCE DAY CELEBRA	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00
Total Dept 336-CONTRIBUTIONS		16,733.00	1,000.00	0.00	0.00	1,000.00	0.00
TOTAL Revenues		678,815.59	657,152.00	3,563.88	1,121.50	653,588.12	0.54
Expenditures							
Dept 226-PERSONNEL							
216-226-701	SALARIES	77,051.53	79,310.00	27,364.58	9,151.14	51,945.42	34.50
216-226-702	SALARIES	124,669.00	129,000.00	42,997.50	14,280.00	86,002.50	33.33
216-226-705	ADMINISTRATIVE ASSISTANT	5,317.93	6,000.00	2,043.62	688.90	3,956.38	34.06
216-226-708	SALARIES-PART TIME	48,031.62	53,000.00	20,062.01	5,210.86	32,937.99	37.85
216-226-712	SALARIES - OFFICERS	11,245.00	14,000.00	2,750.00	0.00	11,250.00	19.64
216-226-715	SOCIAL SECURITY	21,170.33	22,595.00	7,641.41	2,451.20	14,953.59	33.82
216-226-716	HOSPITALIZATION	17,521.05	19,110.00	8,201.03	1,035.42	10,908.97	42.91
216-226-717	LIFE/DISB. INSURANCE	966.96	900.00	352.05	140.82	547.95	39.12
216-226-718	PENSION	7,699.64	7,931.00	2,727.42	915.06	5,203.58	34.39
216-226-720	BANKED PTO	(13,882.21)	0.00	0.00	0.00	0.00	0.00
216-226-730	MEDICAL TESTING	421.50	4,000.00	321.50	0.00	3,678.50	8.04
216-226-731	WORKERS COMP INSURANCE	7,429.00	9,100.00	0.00	0.00	9,100.00	0.00
216-226-927	ALLOCATE TO DEPARTMENTS	(54,568.00)	(56,771.00)	0.00	0.00	(56,771.00)	0.00
216-226-957	TRAINING & DEVELOPMENT	4,416.34	9,000.00	2,334.00	2,049.00	6,666.00	25.93
216-226-958	TRAINING WAGES	10,421.50	14,000.00	4,669.96	2,710.96	9,330.04	33.36
Total Dept 226-PERSONNEL		267,911.19	311,175.00	121,465.08	38,633.36	189,709.92	39.03
Dept 265-HALL AND GROUNDS							
216-265-816	GROUNDS/CLEANG/JANITORL SERVIC	2,294.40	2,000.00	0.00	0.00	2,000.00	0.00
216-265-821	PSB MAINT & OPS ALLOCATION	52,441.00	49,933.00	0.00	0.00	49,933.00	0.00
Total Dept 265-HALL AND GROUNDS		54,735.40	51,933.00	0.00	0.00	51,933.00	0.00
Dept 270-LEGAL/PROFESSIONAL							
216-270-722	CONTROLLER	7,982.00	8,227.00	0.00	0.00	8,227.00	0.00
216-270-802	AUDIT FEES	3,060.00	3,060.00	3,060.00	3,060.00	0.00	100.00

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Fund 216 - MEDICAL RESCUE FUND							
Expenditures							
216-270-803	LEGAL	0.00	3,500.00	0.00	0.00	3,500.00	0.00
Total Dept 270-LEGAL/PROFESSIONAL		11,042.00	14,787.00	3,060.00	3,060.00	11,727.00	20.69
Dept 301-OPERATING COSTS							
216-301-727	SUPPLIES	8,167.39	8,000.00	2,241.63	670.02	5,758.37	28.02
216-301-741	UNIFORMS/GEAR & ALLOWANCE	3,410.42	7,000.00	1,457.74	1,457.74	5,542.26	20.82
216-301-807	MEMBERSHIP DUES	1,700.68	1,500.00	500.00	0.00	1,000.00	33.33
216-301-818	CONTRACTUAL SERVICES	8,286.38	2,000.00	295.23	0.00	1,704.77	14.76
216-301-820	DISPATCH SERVICES	10,584.84	10,500.00	3,424.68	856.17	7,075.32	32.62
216-301-850	COMMUNICATION	6,399.32	7,000.00	1,670.70	593.21	5,329.30	23.87
216-301-851	POSTAGE	38.22	50.00	50.00	50.00	0.00	100.00
216-301-900	PRINTING & PUBLICATIONS	0.00	150.00	203.85	0.00	(53.85)	135.90
216-301-910	INSURANCE & BONDS	65,114.00	55,000.00	0.00	0.00	55,000.00	0.00
216-301-920	UTILITIES	15,890.74	10,000.00	641.33	198.97	9,358.67	6.41
216-301-930	REPAIRS & MAINTENANCE	2,357.13	4,000.00	689.75	77.98	3,310.25	17.24
216-301-932	RADIO REPAIR	2,830.00	2,200.00	0.00	0.00	2,200.00	0.00
216-301-938	CHARGEBACKS - PRIOR TAX YEARS	33,484.44	0.00	3,387.70	742.67	(3,387.70)	100.00
Total Dept 301-OPERATING COSTS		158,263.56	107,400.00	14,562.61	4,646.76	92,837.39	13.56
Dept 333-TRANSPORTATION							
216-333-860	FUEL & MILEAGE	13,600.98	12,000.00	2,642.30	1,155.36	9,357.70	22.02
216-333-930	REPAIRS & MAINTENANCE	15,697.85	20,000.00	4,802.74	3,777.55	15,197.26	24.01
Total Dept 333-TRANSPORTATION		29,298.83	32,000.00	7,445.04	4,932.91	24,554.96	23.27
Dept 900-CAPITAL OUTLAY							
216-900-970	EQUIPMENT	28,007.88	6,000.00	1,349.10	1,349.10	4,650.90	22.49
216-900-972	COMPUTER	703.56	0.00	234.52	58.63	(234.52)	100.00
Total Dept 900-CAPITAL OUTLAY		28,711.44	6,000.00	1,583.62	1,407.73	4,416.38	26.39
Dept 905-DEBT SERVICE							
216-905-985	PSB SHARE OF BOND PMT	87,417.27	85,222.00	0.00	0.00	85,222.00	0.00
216-905-991	DEBT SERVICE - PRINCIPAL	41,750.56	43,776.00	43,775.46	0.00	0.54	100.00
216-905-995	DEBT SERVICE - INTEREST	6,374.09	4,350.00	4,349.19	0.00	0.81	99.98
Total Dept 905-DEBT SERVICE		135,541.92	133,348.00	48,124.65	0.00	85,223.35	36.09
TOTAL Expenditures		685,504.34	656,643.00	196,241.00	52,680.76	460,402.00	29.89
Fund 216 - MEDICAL RESCUE FUND:							
TOTAL REVENUES		678,815.59	657,152.00	3,563.88	1,121.50	653,588.12	0.54
TOTAL EXPENDITURES		685,504.34	656,643.00	196,241.00	52,680.76	460,402.00	29.89
NET OF REVENUES/EXPENDITURES - 2013-14				(6,688.75)		(6,688.75)	(37,854.00)
NET OF REVENUES & EXPENDITURES		(6,688.75)	509.00	(192,677.12)	(51,559.26)	193,186.12	37,854.00
BEG. FUND BALANCE		419,120.53	419,120.53	419,120.53			(37,854.00)

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Fund 216 - MEDICAL RESCUE FUND							
END FUND BALANCE		412,431.78	419,629.53	219,754.66			(37,854.

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 230 - DONATION FUND							
Revenues							
Dept 000							
230-000-690	DONATION - DOG PARK	3,350.00	0.00	0.00	0.00	0.00	0.00
230-000-691	DONATION - FIREWORKS	350.00	0.00	(1,025.00)	0.00	1,025.00	100.00
230-000-692	DONATION - EVENTS/COMMUNITY PROJECTS	1,350.00	0.00	(1,025.00)	0.00	1,025.00	100.00
230-000-698	DONATIONS - ALL OTHER SCC	20.00	0.00	0.00	0.00	0.00	0.00
Total Dept 000		<u>5,070.00</u>	<u>0.00</u>	<u>(2,050.00)</u>	<u>0.00</u>	<u>2,050.00</u>	<u>100.00</u>
TOTAL Revenues		<u>5,070.00</u>	<u>0.00</u>	<u>(2,050.00)</u>	<u>0.00</u>	<u>2,050.00</u>	<u>100.00</u>
Expenditures							
Dept 301-OPERATING COSTS							
230-301-904	DONATIONS - EVENTS/COMMUNITY PROJECTS	1,505.66	0.00	197.79	56.00	(197.79)	100.00
Total Dept 301-OPERATING COSTS		<u>1,505.66</u>	<u>0.00</u>	<u>197.79</u>	<u>56.00</u>	<u>(197.79)</u>	<u>100.00</u>
TOTAL Expenditures		<u>1,505.66</u>	<u>0.00</u>	<u>197.79</u>	<u>56.00</u>	<u>(197.79)</u>	<u>100.00</u>
<hr/>							
Fund 230 - DONATION FUND:							
TOTAL REVENUES		5,070.00	0.00	(2,050.00)	0.00	2,050.00	100.00
TOTAL EXPENDITURES		1,505.66	0.00	197.79	56.00	(197.79)	100.00
NET OF REVENUES/EXPENDITURES - 2013-14		<u>3,564.34</u>	<u>0.00</u>	<u>3,564.34</u>	<u>(56.00)</u>	<u>3,564.34</u>	<u>100.00</u>
NET OF REVENUES & EXPENDITURES		3,564.34	0.00	(2,247.79)	(56.00)	2,247.79	100.00
BEG. FUND BALANCE		500.00	500.00	500.00			100.00
END FUND BALANCE		4,064.34	500.00	1,816.55			100.00

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 248 - DOWNTOWN DEVELOPMENT AUTH							
Revenues							
Dept 000							
248-000-671	REIMBURSEMENT/OTHER INCOME	20.00	0.00	0.00	0.00	0.00	0.00
248-000-675	CONTRIBUTION-PRIVATE SOURCES	25,347.28	0.00	0.00	0.00	0.00	0.00
Total Dept 000		25,367.28	0.00	0.00	0.00	0.00	0.00
TOTAL Revenues		25,367.28	0.00	0.00	0.00	0.00	0.00
Expenditures							
Dept 301-OPERATING COSTS							
248-301-800	OTHER PROFESSIONAL FEES	1,100.00	20,000.00	0.00	0.00	20,000.00	0.00
248-301-816	GROUNDS/CLEANG/JANITORL SERVIC	1,200.00	1,200.00	0.00	0.00	1,200.00	0.00
Total Dept 301-OPERATING COSTS		2,300.00	21,200.00	0.00	0.00	21,200.00	0.00
Dept 449-ROAD WORK							
248-449-814	ROAD IMPROVEMENTS	22,790.00	20,000.00	0.00	0.00	20,000.00	0.00
Total Dept 449-ROAD WORK		22,790.00	20,000.00	0.00	0.00	20,000.00	0.00
Dept 900-CAPITAL OUTLAY							
248-900-925	STREETSCAPING	0.00	1,500.00	0.00	0.00	1,500.00	0.00
Total Dept 900-CAPITAL OUTLAY		0.00	1,500.00	0.00	0.00	1,500.00	0.00
TOTAL Expenditures		25,090.00	42,700.00	0.00	0.00	42,700.00	0.00
Fund 248 - DOWNTOWN DEVELOPMENT AUTH:							
TOTAL REVENUES		25,367.28	0.00	0.00	0.00	0.00	0.00
TOTAL EXPENDITURES		25,090.00	42,700.00	0.00	0.00	42,700.00	0.00
NET OF REVENUES/EXPENDITURES - 2013-14				277.28		277.28	0.00
NET OF REVENUES & EXPENDITURES		277.28	(42,700.00)	0.00	0.00	(42,700.00)	0.00
BEG. FUND BALANCE		91,222.05	91,222.05	91,222.05			
END FUND BALANCE		91,499.33	48,522.05	91,499.33			

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 265 - NARCOTICS FUND							
Revenues							
Dept 000							
265-000-661	FORFEITURES	29,373.25	50,000.00	0.00	0.00	50,000.00	0.00
Total Dept 000		29,373.25	50,000.00	0.00	0.00	50,000.00	0.00
TOTAL Revenues		29,373.25	50,000.00	0.00	0.00	50,000.00	0.00
Expenditures							
Dept 226-PERSONNEL							
265-226-957	TRAINING & DEVELOPMENT	275.00	0.00	0.00	0.00	0.00	0.00
Total Dept 226-PERSONNEL		275.00	0.00	0.00	0.00	0.00	0.00
Dept 301-OPERATING COSTS							
265-301-727	SUPPLIES	0.00	1,000.00	0.00	0.00	1,000.00	0.00
265-301-899	FORFEITURE SHARING	14,085.94	20,000.00	1,859.75	1,859.75	18,140.25	9.30
265-301-956	MISCELLANEOUS	2,645.20	300.00	9.00	0.00	291.00	3.00
Total Dept 301-OPERATING COSTS		16,731.14	21,300.00	1,868.75	1,859.75	19,431.25	8.77
Dept 336-CONTRIBUTIONS							
265-336-967	CONTRIBUTION-LAW ENFORCEMENT	0.00	1,000.00	0.00	0.00	1,000.00	0.00
Total Dept 336-CONTRIBUTIONS		0.00	1,000.00	0.00	0.00	1,000.00	0.00
Dept 900-CAPITAL OUTLAY							
265-900-970	EQUIPMENT	300.00	4,000.00	3,549.92	0.00	450.08	88.75
Total Dept 900-CAPITAL OUTLAY		300.00	4,000.00	3,549.92	0.00	450.08	88.75
TOTAL Expenditures		17,306.14	26,300.00	5,418.67	1,859.75	20,881.33	20.60
Fund 265 - NARCOTICS FUND:							
TOTAL REVENUES		29,373.25	50,000.00	0.00	0.00	50,000.00	0.00
TOTAL EXPENDITURES		17,306.14	26,300.00	5,418.67	1,859.75	20,881.33	20.60
NET OF REVENUES/EXPENDITURES - 2013-14				12,067.11		12,067.11	(22.86)
NET OF REVENUES & EXPENDITURES		12,067.11	23,700.00	(5,418.67)	(1,859.75)	29,118.67	22.86
BEG. FUND BALANCE		34,179.38	34,179.38	34,179.38			(22.86)
END FUND BALANCE		46,246.49	57,879.38	40,827.82			(22.86)

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 266 - FEDERAL NARCOTICS FUND							
Revenues							
Dept 000							
266-000-661	FORFEITURES	453,900.04	100,000.00	666.20	0.00	99,333.80	0.67
Total Dept 000		453,900.04	100,000.00	666.20	0.00	99,333.80	0.67
TOTAL Revenues		453,900.04	100,000.00	666.20	0.00	99,333.80	0.67
Expenditures							
Dept 301-OPERATING COSTS							
266-301-727	SUPPLIES	1,214.28	10,000.00	3,395.50	0.00	6,604.50	33.96
266-301-956	MISCELLANEOUS	0.00	5,000.00	2,610.68	100.00	2,389.32	52.21
Total Dept 301-OPERATING COSTS		1,214.28	15,000.00	6,006.18	100.00	8,993.82	40.04
Dept 336-CONTRIBUTIONS							
266-336-967	CONTRIBUTION-LAW ENFORCEMENT	35,000.00	35,000.00	0.00	0.00	35,000.00	0.00
Total Dept 336-CONTRIBUTIONS		35,000.00	35,000.00	0.00	0.00	35,000.00	0.00
Dept 900-CAPITAL OUTLAY							
266-900-970	EQUIPMENT	16,870.71	160,000.00	91,626.34	1,888.23	68,373.66	57.27
266-900-974	VEHICLE	89,187.50	75,000.00	0.00	0.00	75,000.00	0.00
Total Dept 900-CAPITAL OUTLAY		106,058.21	235,000.00	91,626.34	1,888.23	143,373.66	38.99
TOTAL Expenditures		142,272.49	285,000.00	97,632.52	1,988.23	187,367.48	34.26
Fund 266 - FEDERAL NARCOTICS FUND:							
TOTAL REVENUES		453,900.04	100,000.00	666.20	0.00	99,333.80	0.67
TOTAL EXPENDITURES		142,272.49	285,000.00	97,632.52	1,988.23	187,367.48	34.26
NET OF REVENUES/EXPENDITURES - 2013-14				311,627.55		311,627.55	52.41
NET OF REVENUES & EXPENDITURES		311,627.55	(185,000.00)	(96,966.32)	(1,988.23)	(88,033.68)	52.41
BEG. FUND BALANCE		204,081.57	204,081.57	204,081.57			52.41
END FUND BALANCE		515,709.12	19,081.57	418,742.80			52.41

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 287 - BUILDING DEPARTMENT FUND							
Revenues							
Dept 000							
287-000-481	SIGN PERMITS	1,055.00	0.00	0.00	0.00	0.00	0.00
287-000-484	BUILDING PLAN REVIEW FEES	3,372.00	2,650.00	1,366.00	75.00	1,284.00	51.55
287-000-485	BUILDING PERMIT FEES	34,683.00	29,240.00	15,665.00	1,041.00	13,575.00	53.57
287-000-486	CONTRACTOR'S REGISTRATION	630.00	675.00	900.00	195.00	(225.00)	133.33
287-000-488	TRADE PERMIT FEES	21,300.00	19,950.00	13,114.00	3,300.00	6,836.00	65.73
Total Dept 000		61,040.00	52,515.00	31,045.00	4,611.00	21,470.00	59.12
TOTAL Revenues		61,040.00	52,515.00	31,045.00	4,611.00	21,470.00	59.12
Expenditures							
Dept 226-PERSONNEL							
287-226-720	BANKED PTO	(10,885.67)	0.00	0.00	0.00	0.00	0.00
287-226-927	ALLOCATE TO DEPARTMENTS	7,397.00	19,561.00	0.00	0.00	19,561.00	0.00
Total Dept 226-PERSONNEL		(3,488.67)	19,561.00	0.00	0.00	19,561.00	0.00
Dept 261-GOVERNMENT SHARED SERVICES							
287-261-725	INSPECTOR EXPENSES	24,123.16	15,000.00	6,498.00	2,288.00	8,502.00	43.32
Total Dept 261-GOVERNMENT SHARED SERVICES		24,123.16	15,000.00	6,498.00	2,288.00	8,502.00	43.32
Dept 270-LEGAL/PROFESSIONAL							
287-270-722	CONTROLLER	1,596.00	1,646.00	0.00	0.00	1,646.00	0.00
287-270-802	AUDIT FEES	900.00	900.00	900.00	900.00	0.00	100.00
Total Dept 270-LEGAL/PROFESSIONAL		2,496.00	2,546.00	900.00	900.00	1,646.00	35.35
Dept 301-OPERATING COSTS							
287-301-725	INSPECTOR EXPENSES	10,793.05	12,500.00	1,353.95	672.60	11,146.05	10.83
287-301-727	SUPPLIES	0.00	100.00	392.00	0.00	(292.00)	392.00
287-301-850	COMMUNICATION	523.96	300.00	62.78	31.39	237.22	20.93
287-301-910	INSURANCE & BONDS	600.00	600.00	0.00	0.00	600.00	0.00
287-301-927	ALLOCATE TO DEPARTMENTS	0.00	1,000.00	0.00	0.00	1,000.00	0.00
287-301-930	REPAIRS & MAINTENANCE	0.00	625.00	0.00	0.00	625.00	0.00
Total Dept 301-OPERATING COSTS		11,917.01	15,125.00	1,808.73	703.99	13,316.27	11.96
TOTAL Expenditures		35,047.50	52,232.00	9,206.73	3,891.99	43,025.27	17.63
Fund 287 - BUILDING DEPARTMENT FUND:							
TOTAL REVENUES		61,040.00	52,515.00	31,045.00	4,611.00	21,470.00	59.12
TOTAL EXPENDITURES		35,047.50	52,232.00	9,206.73	3,891.99	43,025.27	17.63
NET OF REVENUES/EXPENDITURES - 2013-14				25,992.50		25,992.50	7,716.70
NET OF REVENUES & EXPENDITURES		25,992.50	283.00	21,838.27	719.01	(21,555.27)	7,716.70
BEG. FUND BALANCE		39,421.50	39,421.50	39,421.50			7,716.70
END FUND BALANCE		65,414.00	39,704.50	87,252.27			7,716.70

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REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

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GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 369 - BLDG AUTH DEBT FUND							
Revenues							
Dept 000							
369-000-685	FUNDS XFER FOR 3.5 BOND PMT	262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
Total Dept 000		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
TOTAL Revenues		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
Expenditures							
Dept 905-DEBT SERVICE							
369-905-942	3 M BOND BLDG AUTH	179,470.20	206,856.00	0.00	0.00	206,856.00	0.00
369-905-943	500K CAPITAL IMP	29,071.90	0.00	0.00	0.00	0.00	0.00
369-905-987	INTEREST 3 M BOND	46,222.31	48,810.00	0.00	0.00	48,810.00	0.00
369-905-992	INTEREST 500K BOND	7,487.42	0.00	0.00	0.00	0.00	0.00
Total Dept 905-DEBT SERVICE		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
TOTAL Expenditures		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
Fund 369 - BLDG AUTH DEBT FUND:							
TOTAL REVENUES		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
TOTAL EXPENDITURES		262,251.83	255,666.00	0.00	0.00	255,666.00	0.00
NET OF REVENUES & EXPENDITURES		0.00	0.00	0.00	0.00	0.00	0.00
BEG. FUND BALANCE							
END FUND BALANCE							

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Fund 370 - PUBLIC SAFETY BLDG DEBT FD							
Revenues							
Dept 000							
370-000-402	CURRENT PROPERTY TAX	284,298.49	281,178.00	0.00	0.00	281,178.00	0.00
370-000-445	PENALTY & INTEREST ON TAXES	150.54	0.00	0.00	0.00	0.00	0.00
370-000-588	CONTRIBUTION OTHER FUND(S)	157,324.00	149,800.00	0.00	0.00	149,800.00	0.00
370-000-671	REIMBURSEMENT/OTHER INCOME	26.46	0.00	0.00	0.00	0.00	0.00
Total Dept 000		441,799.49	430,978.00	0.00	0.00	430,978.00	0.00
TOTAL Revenues		441,799.49	430,978.00	0.00	0.00	430,978.00	0.00
Expenditures							
Dept 301-OPERATING COSTS							
370-301-727	SUPPLIES	1,075.42	1,200.00	0.00	0.00	1,200.00	0.00
370-301-803	LEGAL	0.00	200.00	0.00	0.00	200.00	0.00
370-301-816	GROUNDS/CLEANG/JANITORL SERVIC	9,323.00	10,500.00	1,550.00	250.00	8,950.00	14.76
370-301-818	CONTRACTUAL SERVICES	9,302.82	11,500.00	522.00	261.00	10,978.00	4.54
370-301-850	COMMUNICATION	3,511.67	4,200.00	816.37	236.89	3,383.63	19.44
370-301-910	INSURANCE & BONDS	7,156.00	7,200.00	0.00	0.00	7,200.00	0.00
370-301-920	UTILITIES	82,271.95	85,000.00	16,401.78	4,017.52	68,598.22	19.30
370-301-930	REPAIRS & MAINTENANCE	29,540.47	30,000.00	12,933.97	9,582.56	17,066.03	43.11
370-301-938	CHARGEBACKS - PRIOR TAX YEARS	15,454.03	0.00	1,606.22	347.78	(1,606.22)	100.00
Total Dept 301-OPERATING COSTS		157,635.36	149,800.00	33,830.34	14,695.75	115,969.66	22.58
Dept 905-DEBT SERVICE							
370-905-945	3.8 M PSB BOND	235,000.00	235,000.00	0.00	0.00	235,000.00	0.00
370-905-987	INTEREST 3 M BOND	0.00	0.00	24,404.50	24,404.50	(24,404.50)	100.00
370-905-994	INTEREST 3.8 BOND PSB	51,700.00	46,178.00	23,088.75	23,088.75	23,089.25	50.00
Total Dept 905-DEBT SERVICE		286,700.00	281,178.00	47,493.25	47,493.25	233,684.75	16.89
TOTAL Expenditures		444,335.36	430,978.00	81,323.59	62,189.00	349,654.41	18.87
Fund 370 - PUBLIC SAFETY BLDG DEBT FD:							
TOTAL REVENUES		441,799.49	430,978.00	0.00	0.00	430,978.00	0.00
TOTAL EXPENDITURES		444,335.36	430,978.00	81,323.59	62,189.00	349,654.41	18.87
NET OF REVENUES/EXPENDITURES - 2013-14				(2,535.87)		(2,535.87)	100.00
NET OF REVENUES & EXPENDITURES		(2,535.87)	0.00	(81,323.59)	(62,189.00)	81,323.59	100.00
BEG. FUND BALANCE		56,750.37	56,750.37	56,750.37			100.00
END FUND BALANCE		54,214.50	56,750.37	(27,109.09)			100.00

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Fund 571 - WASTEWATER TREATMENT FUND							
Revenues							
Dept 000							
571-000-445	PENALTY & INTEREST ON TAXES	6.30	0.00	0.00	0.00	0.00	0.00
571-000-500	TAP-IN FEES	3,550.00	0.00	3,550.00	0.00	(3,550.00)	100.00
571-000-651	USAGE FEES	1,160,288.27	1,359,000.00	123,935.71	0.00	1,235,064.29	9.12
571-000-665	INTEREST INCOME	2,720.20	1,000.00	0.00	0.00	1,000.00	0.00
571-000-671	REIMBURSEMENT/OTHER INCOME	2,165.63	2,000.00	1,778.58	150.57	221.42	88.93
571-000-672	SAD INTEREST	82.00	73.00	0.00	0.00	73.00	0.00
571-000-673	SALE OF FIXED ASSET	5,000.00	0.00	0.00	0.00	0.00	0.00
571-000-690	UNREALIZED GAIN/LOSS	(42,596.52)	0.00	0.00	0.00	0.00	0.00
Total Dept 000		1,131,215.88	1,362,073.00	129,264.29	150.57	1,232,808.71	9.49
TOTAL Revenues		1,131,215.88	1,362,073.00	129,264.29	150.57	1,232,808.71	9.49
Expenditures							
Dept 226-PERSONNEL							
571-226-701	SALARIES	60,469.00	65,500.00	22,482.60	7,557.69	43,017.40	34.32
571-226-702	SALARIES	185,551.40	184,403.00	63,617.35	21,272.91	120,785.65	34.50
571-226-711	SALARIES-OVERTIME	5,892.35	10,000.00	3,428.99	0.00	6,571.01	34.29
571-226-715	SOCIAL SECURITY	19,271.32	19,885.00	6,848.96	2,205.54	13,036.04	34.44
571-226-716	HOSPITALIZATION	73,669.11	86,100.00	34,022.11	4,414.16	52,077.89	39.51
571-226-717	LIFE/DISB. INSURANCE	3,444.00	3,487.00	1,258.85	503.54	2,228.15	36.10
571-226-718	PENSION	22,886.86	24,045.00	8,192.42	2,756.94	15,852.58	34.07
571-226-720	BANKED PTO	(3,828.05)	0.00	0.00	0.00	0.00	0.00
571-226-731	WORKERS COMP INSURANCE	2,347.00	2,915.00	0.00	0.00	2,915.00	0.00
571-226-957	TRAINING & DEVELOPMENT	1,395.00	3,500.00	0.00	0.00	3,500.00	0.00
Total Dept 226-PERSONNEL		371,097.99	399,835.00	139,851.28	38,710.78	259,983.72	34.98
Dept 270-LEGAL/PROFESSIONAL							
571-270-722	CONTROLLER	13,303.00	13,713.00	0.00	0.00	13,713.00	0.00
571-270-802	AUDIT FEES	6,480.00	6,480.00	6,480.00	6,480.00	0.00	100.00
571-270-803	LEGAL	0.00	500.00	0.00	0.00	500.00	0.00
571-270-806	ENGINEER	13,824.40	30,000.00	3,840.00	2,880.00	26,160.00	12.80
Total Dept 270-LEGAL/PROFESSIONAL		33,607.40	50,693.00	10,320.00	9,360.00	40,373.00	20.36
Dept 301-OPERATING COSTS							
571-301-727	SUPPLIES	1,811.92	1,200.00	550.61	337.78	649.39	45.88
571-301-740	OPERATING SUPPLIES	36,856.71	50,000.00	10,245.95	1,254.81	39,754.05	20.49
571-301-741	UNIFORMS/GEAR & ALLOWANCE	774.90	2,500.00	370.49	254.99	2,129.51	14.82
571-301-807	MEMBERSHIP DUES	765.00	1,000.00	590.00	0.00	410.00	59.00
571-301-817	LAB & TESTING	1,318.75	5,000.00	1,500.00	10.00	3,500.00	30.00
571-301-819	COLLECTION SYS ANNUAL MAINT	37,569.28	55,000.00	42,502.56	27,740.54	12,497.44	77.28
571-301-825	SEWER ADMINISTRATION FEES	35,000.00	35,000.00	0.00	0.00	35,000.00	0.00
571-301-850	COMMUNICATION	7,119.51	6,000.00	1,854.71	557.27	4,145.29	30.91
571-301-851	POSTAGE	2,702.84	5,000.00	870.00	870.00	4,130.00	17.40
571-301-900	PRINTING & PUBLICATIONS	40.69	200.00	0.00	0.00	200.00	0.00
571-301-910	INSURANCE & BONDS	20,166.00	20,300.00	0.00	0.00	20,300.00	0.00
571-301-920	UTILITIES	111,143.35	100,000.00	25,939.44	8,265.21	74,060.56	25.94
571-301-930	REPAIRS & MAINTENANCE	63,593.40	110,000.00	12,522.59	2,267.43	97,477.41	11.38
571-301-940	RENTAL EQUIPMENT	832.00	500.00	276.00	69.00	224.00	55.20

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Fund 571 - WASTEWATER TREATMENT FUND							
Expenditures							
571-301-941	UNIFORMS - RENTALS	2,888.69	0.00	0.00	0.00	0.00	0.00
571-301-950	LAND LEASING	257.75	258.00	257.75	257.75	0.25	99.90
571-301-968	DEPRECIATION EXPENSE	234,283.00	244,578.00	0.00	0.00	244,578.00	0.00
Total Dept 301-OPERATING COSTS		557,123.79	636,536.00	97,480.10	41,884.78	539,055.90	15.31
Dept 333-TRANSPORTATION							
571-333-860	FUEL & MILEAGE	4,218.89	4,000.00	3,745.44	129.00	254.56	93.64
571-333-930	REPAIRS & MAINTENANCE	1,879.03	2,000.00	28.94	0.00	1,971.06	1.45
Total Dept 333-TRANSPORTATION		6,097.92	6,000.00	3,774.38	129.00	2,225.62	62.91
Dept 528-O & M - BOND & INTEREST							
571-528-954	AGENT FEES	657.57	700.00	99.13	0.00	600.87	14.16
571-528-989	INTEREST 1992 BOND	16,738.76	15,340.00	7,669.38	7,669.38	7,670.62	50.00
571-528-995	DEBT SERVICE - INTEREST	52,627.76	38,630.00	19,314.13	0.00	19,315.87	50.00
Total Dept 528-O & M - BOND & INTEREST		70,024.09	54,670.00	27,082.64	7,669.38	27,587.36	49.54
Dept 900-CAPITAL OUTLAY							
571-900-970	EQUIPMENT	6,274.47	55,000.00	28,997.00	28,997.00	26,003.00	52.72
571-900-972	COMPUTER	0.00	17,000.00	0.00	0.00	17,000.00	0.00
Total Dept 900-CAPITAL OUTLAY		6,274.47	72,000.00	28,997.00	28,997.00	43,003.00	40.27
TOTAL Expenditures		1,044,225.66	1,219,734.00	307,505.40	126,750.94	912,228.60	25.21
Fund 571 - WASTEWATER TREATMENT FUND:							
TOTAL REVENUES		1,131,215.88	1,362,073.00	129,264.29	150.57	1,232,808.71	9.49
TOTAL EXPENDITURES		1,044,225.66	1,219,734.00	307,505.40	126,750.94	912,228.60	25.21
NET OF REVENUES/EXPENDITURES - 2013-14				86,990.22		86,990.22	(125.22)
NET OF REVENUES & EXPENDITURES		86,990.22	142,339.00	(178,241.11)	(126,600.37)	320,580.11	125.22
BEG. FUND BALANCE		5,914,772.59	5,914,772.59	5,914,772.59			(125.22)
END FUND BALANCE		6,001,762.81	6,057,111.59	5,823,521.70			(125.22)

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP
 PERIOD ENDING 10/31/2014
 % Fiscal Year Completed: 33.70

GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 815 - DIST # 5 SEVEN MILE SEWER							
Revenues							
Dept 000							
815-000-665	INTEREST INCOME	369.90	150.00	0.00	0.00	150.00	0.00
815-000-671	REIMBURSEMENT/OTHER INCOME	2.05	0.00	0.00	0.00	0.00	0.00
815-000-672	SAD INTEREST	13,072.69	10,220.00	0.00	0.00	10,220.00	0.00
815-000-690	UNREALIZED GAIN/LOSS	(5,412.81)	0.00	0.00	0.00	0.00	0.00
Total Dept 000		8,031.83	10,370.00	0.00	0.00	10,370.00	0.00
TOTAL Revenues		8,031.83	10,370.00	0.00	0.00	10,370.00	0.00
Expenditures							
Dept 301-OPERATING COSTS							
815-301-968	DEPRECIATION EXPENSE	17,519.00	17,519.00	0.00	0.00	17,519.00	0.00
Total Dept 301-OPERATING COSTS		17,519.00	17,519.00	0.00	0.00	17,519.00	0.00
Dept 905-DEBT SERVICE							
815-905-995	DEBT SERVICE - INTEREST	9,904.78	9,002.00	4,500.51	4,500.51	4,501.49	49.99
Total Dept 905-DEBT SERVICE		9,904.78	9,002.00	4,500.51	4,500.51	4,501.49	49.99
TOTAL Expenditures		27,423.78	26,521.00	4,500.51	4,500.51	22,020.49	16.97
Fund 815 - DIST # 5 SEVEN MILE SEWER:							
TOTAL REVENUES		8,031.83	10,370.00	0.00	0.00	10,370.00	0.00
TOTAL EXPENDITURES		27,423.78	26,521.00	4,500.51	4,500.51	22,020.49	16.97
NET OF REVENUES/EXPENDITURES - 2013-14				(19,391.95)		(19,391.95)	27.87
NET OF REVENUES & EXPENDITURES		(19,391.95)	(16,151.00)	(4,500.51)	(4,500.51)	(11,650.49)	27.87
BEG. FUND BALANCE		632,829.96	632,829.96	632,829.96			27.87
END FUND BALANCE		613,438.01	616,678.96	608,937.50			27.87

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

PERIOD ENDING 10/31/2014

% Fiscal Year Completed: 33.70

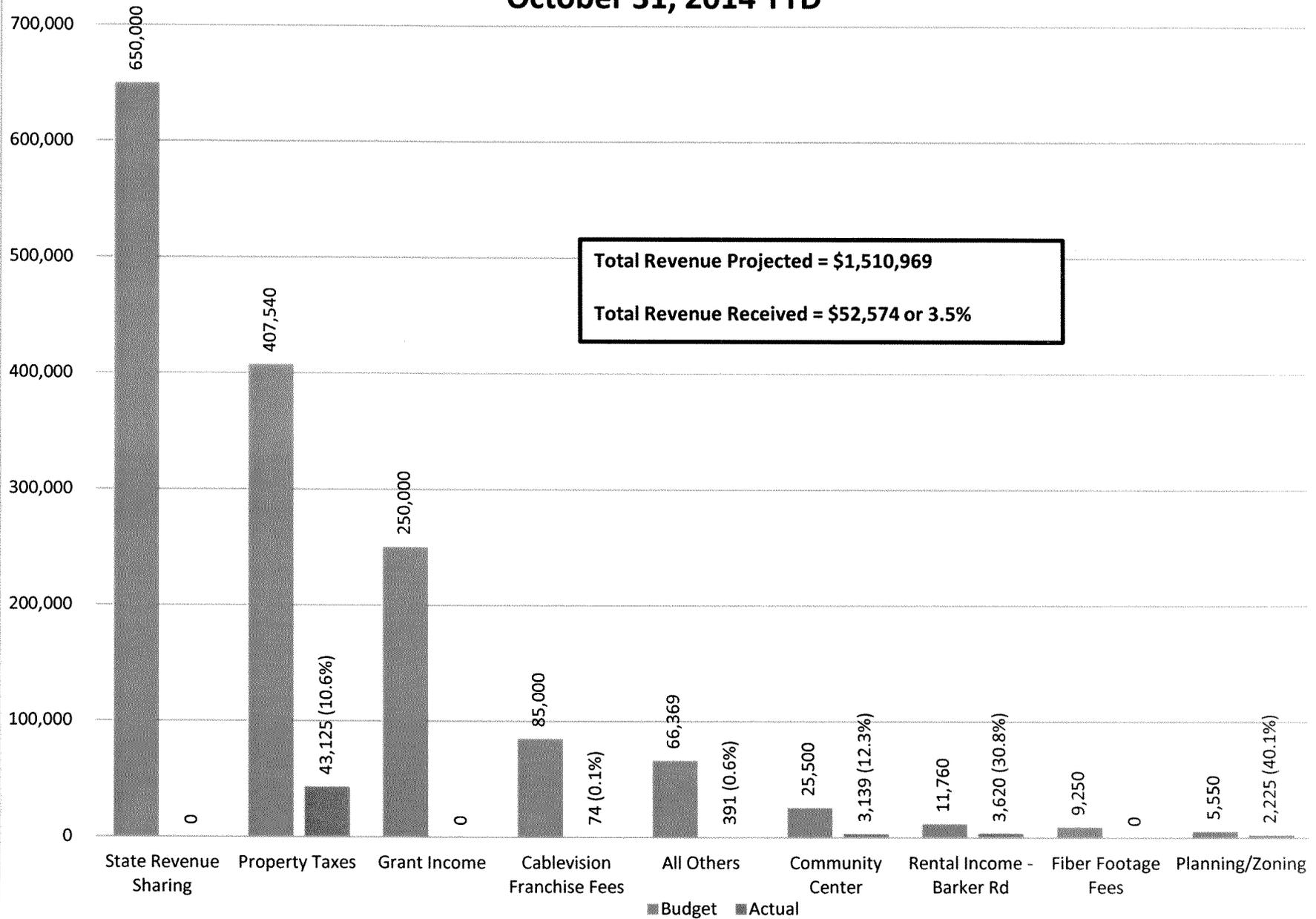
GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 883 - DISTRICT #3 HORSESHOE LAKE							
Revenues							
Dept 000							
883-000-665	INTEREST INCOME	2,750.24	1,000.00	0.00	0.00	1,000.00	0.00
883-000-690	UNREALIZED GAIN/LOSS	(43,067.20)	0.00	0.00	0.00	0.00	0.00
Total Dept 000		(40,316.96)	1,000.00	0.00	0.00	1,000.00	0.00
TOTAL Revenues		(40,316.96)	1,000.00	0.00	0.00	1,000.00	0.00
Expenditures							
Dept 301-OPERATING COSTS							
883-301-920	UTILITIES	719.46	0.00	0.00	0.00	0.00	0.00
883-301-930	REPAIRS & MAINTENANCE	5,393.29	90,000.00	0.00	0.00	90,000.00	0.00
883-301-968	DEPRECIATION EXPENSE	4,464.00	0.00	0.00	0.00	0.00	0.00
Total Dept 301-OPERATING COSTS		10,576.75	90,000.00	0.00	0.00	90,000.00	0.00
TOTAL Expenditures		10,576.75	90,000.00	0.00	0.00	90,000.00	0.00
Fund 883 - DISTRICT #3 HORSESHOE LAKE:							
TOTAL REVENUES		(40,316.96)	1,000.00	0.00	0.00	1,000.00	0.00
TOTAL EXPENDITURES		10,576.75	90,000.00	0.00	0.00	90,000.00	0.00
NET OF REVENUES/EXPENDITURES - 2013-14				(50,893.71)		(50,893.71)	0.00
NET OF REVENUES & EXPENDITURES		(50,893.71)	(89,000.00)	0.00	0.00	(89,000.00)	0.00
BEG. FUND BALANCE		744,996.05	744,996.05	744,996.05			
END FUND BALANCE		694,102.34	655,996.05	694,102.34			

REVENUE AND EXPENDITURE REPORT FOR NORTHFIELD TOWNSHIP

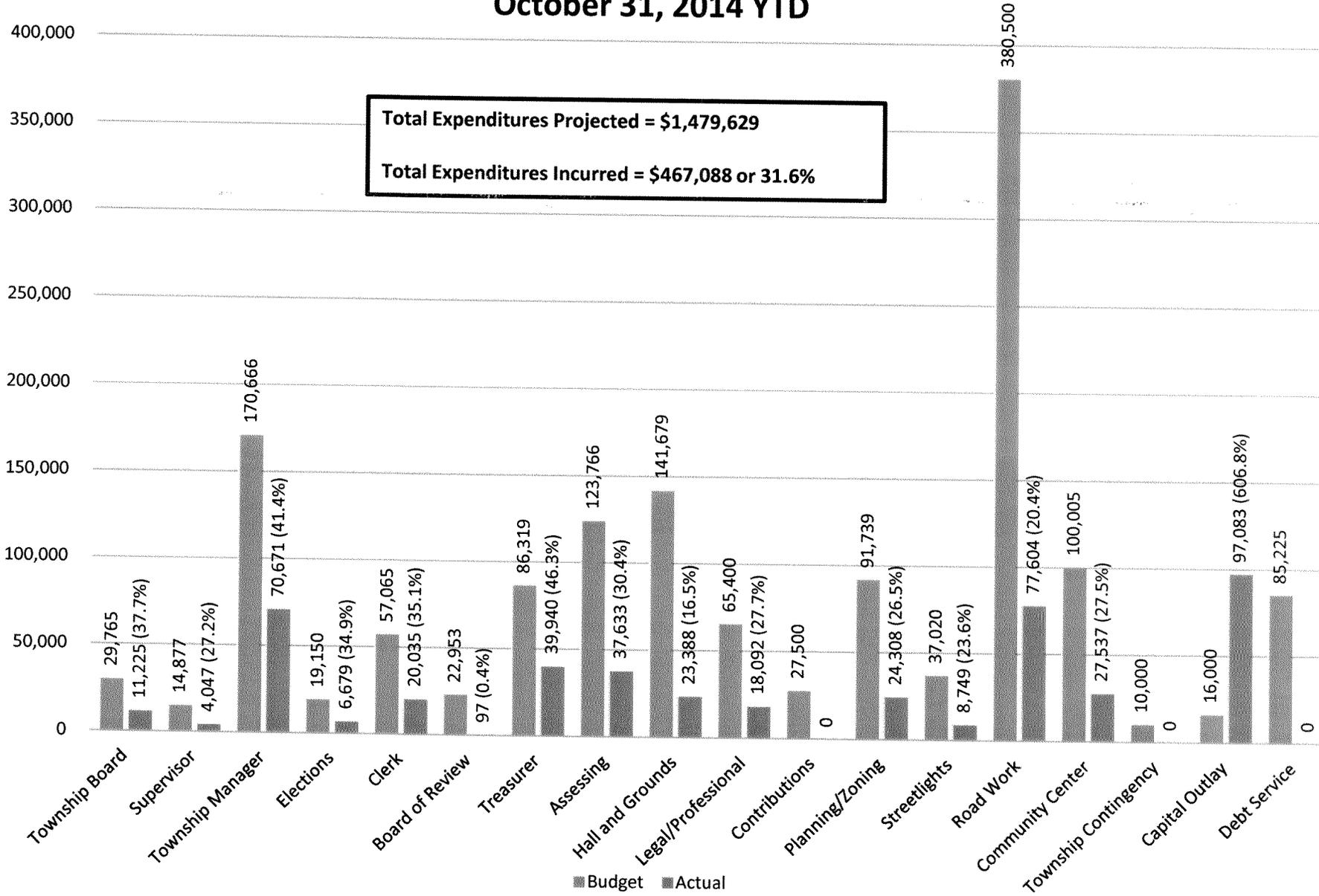
PERIOD ENDING 10/31/2014
% Fiscal Year Completed: 33.70

GL NUMBER	DESCRIPTION	END BALANCE 06/30/2014	2014-15 AMENDED BUDGET	YTD BALANCE 10/31/2014	ACTIVITY FOR MONTH 10/31/2014	AVAILABLE BALANCE	% BDGT USED
Fund 890 - N.T. SEWER DISTRICT							
Revenues							
Dept 000							
890-000-445	PENALTY & INTEREST ON TAXES	2,514.68	0.00	0.00	0.00	0.00	0.00
890-000-665	INTEREST INCOME	1,698.26	750.00	0.00	0.00	750.00	0.00
890-000-672	SAD INTEREST	59,040.08	49,200.00	0.00	0.00	49,200.00	0.00
890-000-690	UNREALIZED GAIN/LOSS	(26,593.41)	0.00	0.00	0.00	0.00	0.00
Total Dept 000		36,659.61	49,950.00	0.00	0.00	49,950.00	0.00
TOTAL Revenues		36,659.61	49,950.00	0.00	0.00	49,950.00	0.00
Expenditures							
Dept 301-OPERATING COSTS							
890-301-803	LEGAL	0.00	200.00	0.00	0.00	200.00	0.00
890-301-968	DEPRECIATION EXPENSE	76,142.36	74,187.00	0.00	0.00	74,187.00	0.00
Total Dept 301-OPERATING COSTS		76,142.36	74,387.00	0.00	0.00	74,387.00	0.00
Dept 905-DEBT SERVICE							
890-905-954	AGENT FEES	420.43	450.00	63.37	0.00	386.63	14.08
890-905-998	INTEREST NT BOND	33,647.24	24,700.00	12,348.37	0.00	12,351.63	49.99
Total Dept 905-DEBT SERVICE		34,067.67	25,150.00	12,411.74	0.00	12,738.26	49.35
TOTAL Expenditures		110,210.03	99,537.00	12,411.74	0.00	87,125.26	12.47
Fund 890 - N.T. SEWER DISTRICT:							
TOTAL REVENUES		36,659.61	49,950.00	0.00	0.00	49,950.00	0.00
TOTAL EXPENDITURES		110,210.03	99,537.00	12,411.74	0.00	87,125.26	12.47
NET OF REVENUES/EXPENDITURES - 2013-14				(73,550.42)		(73,550.42)	25.03
NET OF REVENUES & EXPENDITURES		(73,550.42)	(49,587.00)	(12,411.74)	0.00	(37,175.26)	25.03
BEG. FUND BALANCE		3,101,024.04	3,101,024.04	3,101,024.04			25.03
END FUND BALANCE		3,027,473.62	3,051,437.04	3,015,061.88			25.03
TOTAL REVENUES - ALL FUNDS							
TOTAL EXPENDITURES - ALL FUNDS		5,979,686.39	5,962,819.00	234,548.79	18,912.51	5,728,270.21	3.93
NET OF REVENUES & EXPENDITURES		5,473,176.67	6,146,589.00	1,602,155.21	487,606.15	4,544,433.79	26.07
BEG. FUND BALANCE - ALL FUNDS		506,509.72	(183,770.00)	(1,367,606.42)			
END FUND BALANCE - ALL FUNDS		13,039,602.49	13,039,602.49	13,039,602.49	(468,693.64)	1,183,836.42	744.19
END FUND BALANCE - ALL FUNDS		13,546,112.21	12,855,832.49	12,178,505.79			25.03

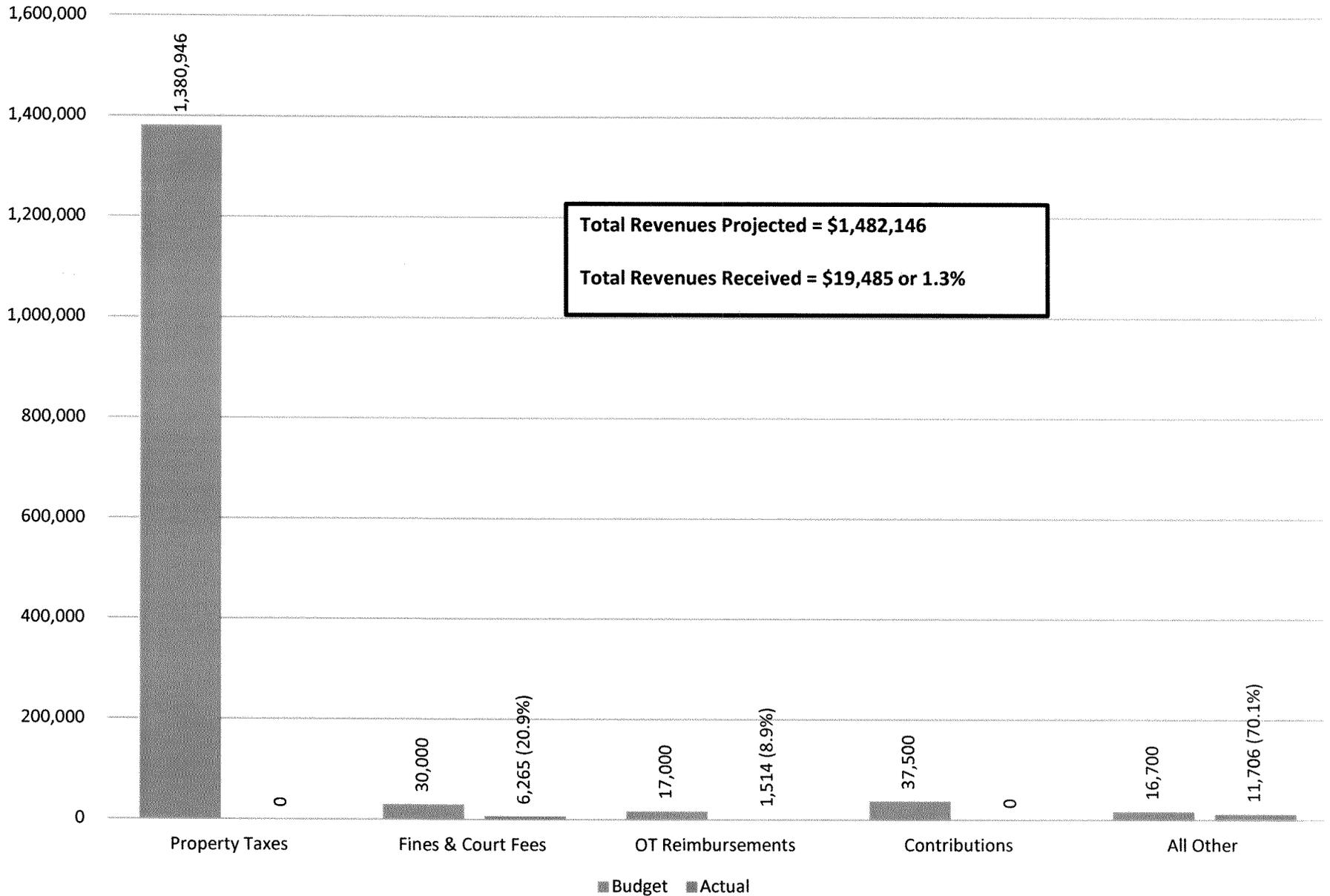
NORTHFIELD TOWNSHIP GENERAL FUND Revenues Projected vs. Received October 31, 2014 YTD



NORTHFIELD TOWNSHIP GENERAL FUND Expenditures Projected vs. Incurred October 31, 2014 YTD

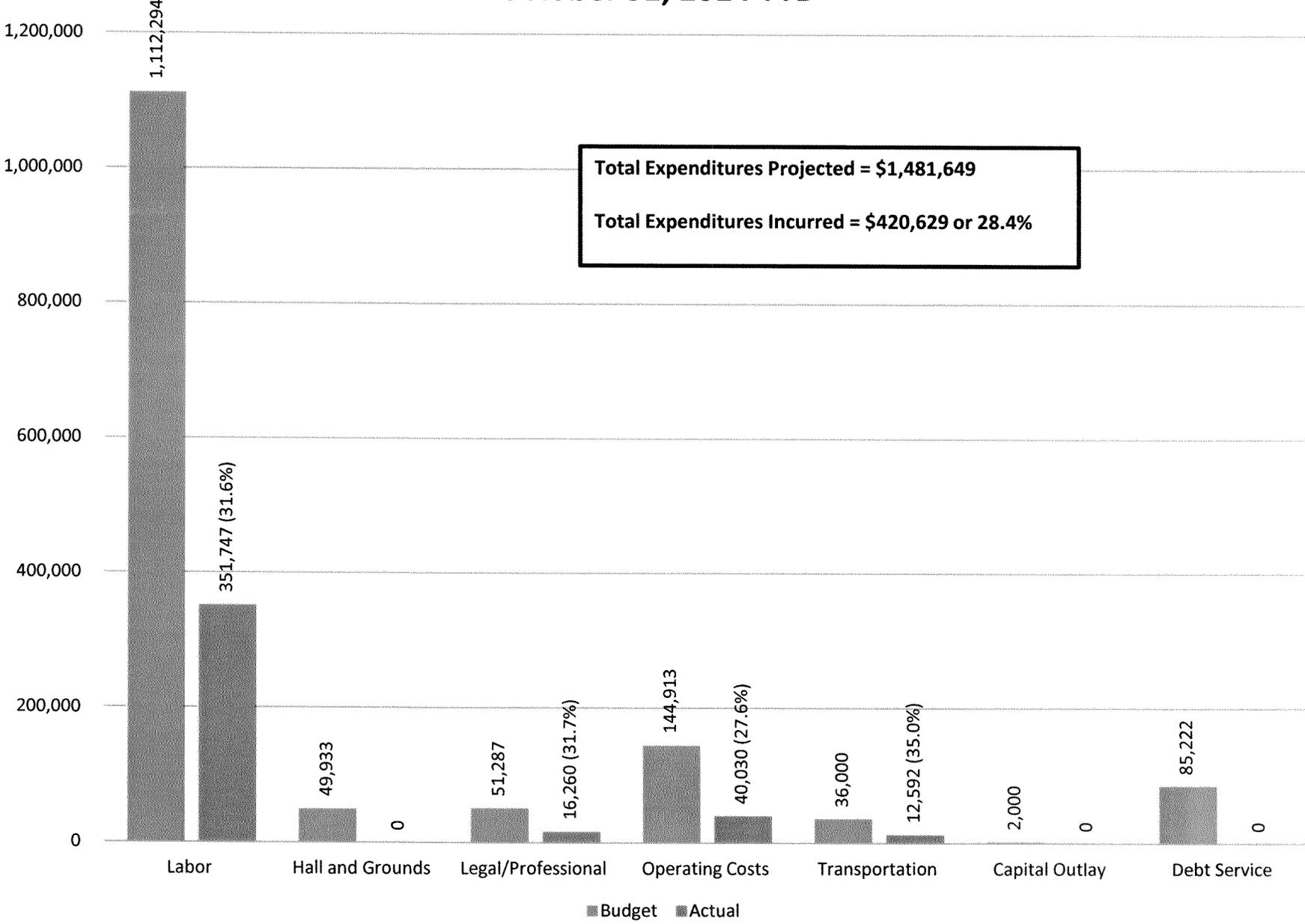


NORTHFIELD TOWNSHIP POLICE FUND Revenues Projected vs. Received October 31, 2014 YTD

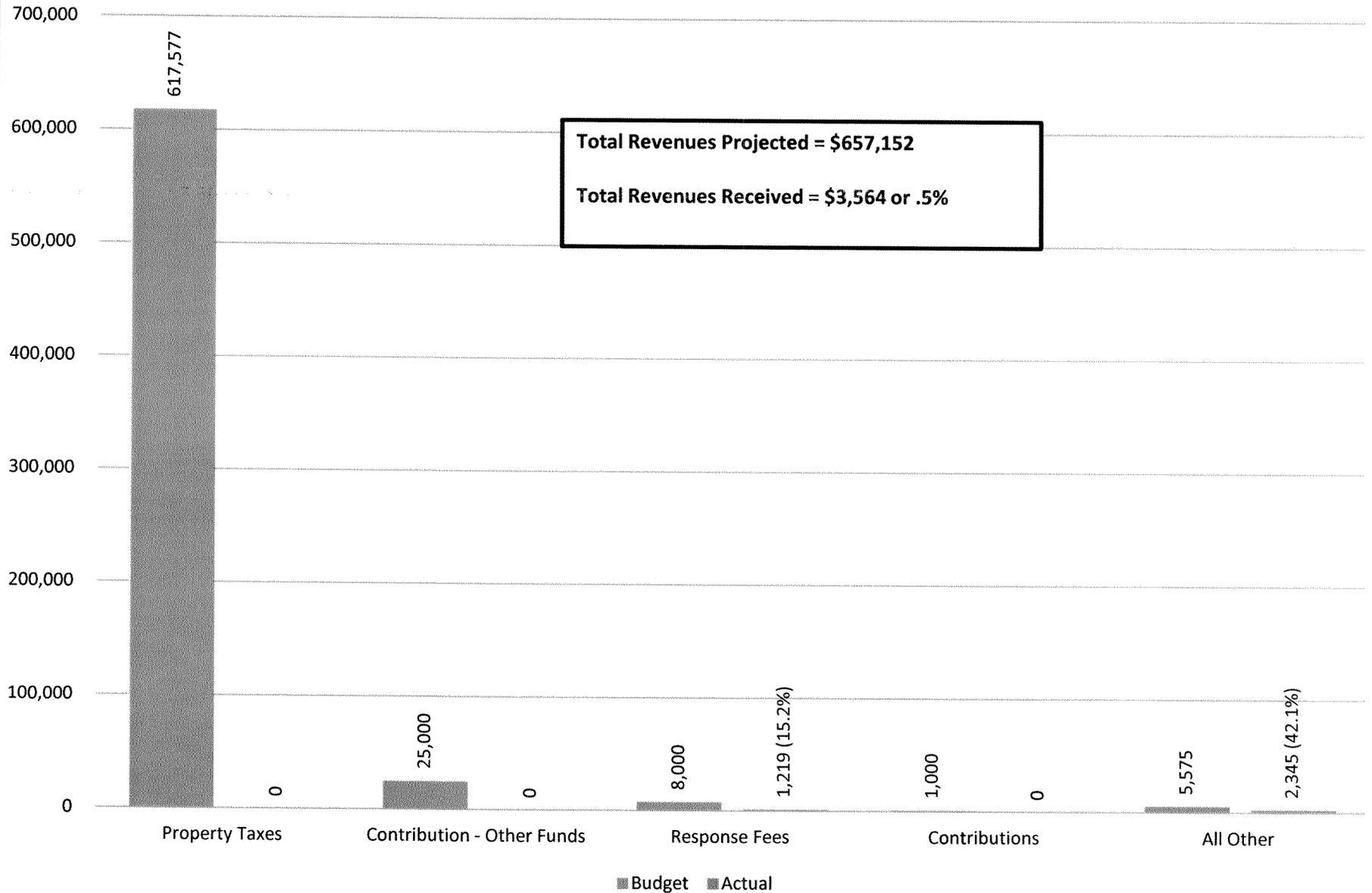


NORTHFIELD TOWNSHIP POLICE FUND

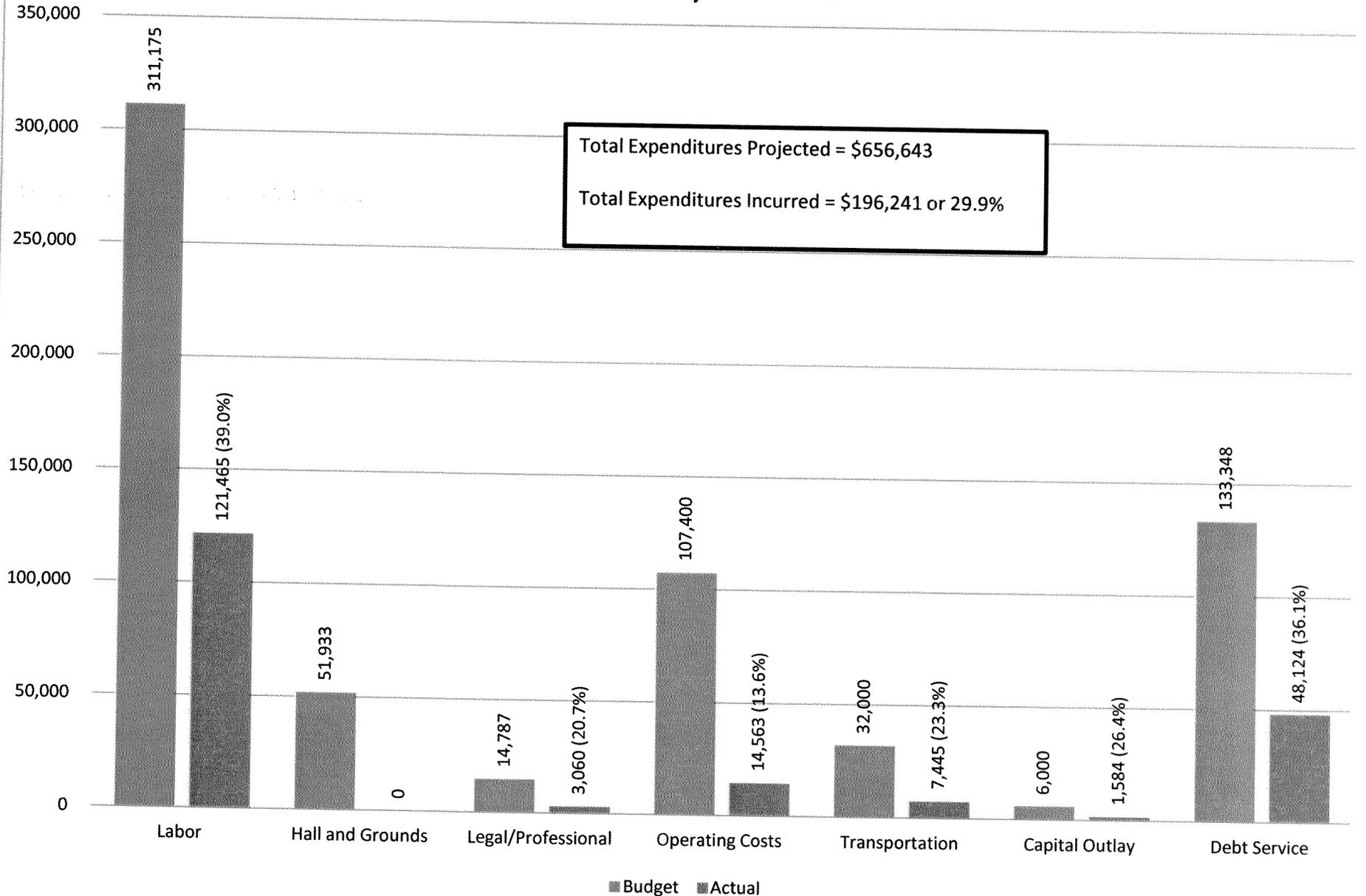
Expenditures Projected vs. Incurred October 31, 2014 YTD



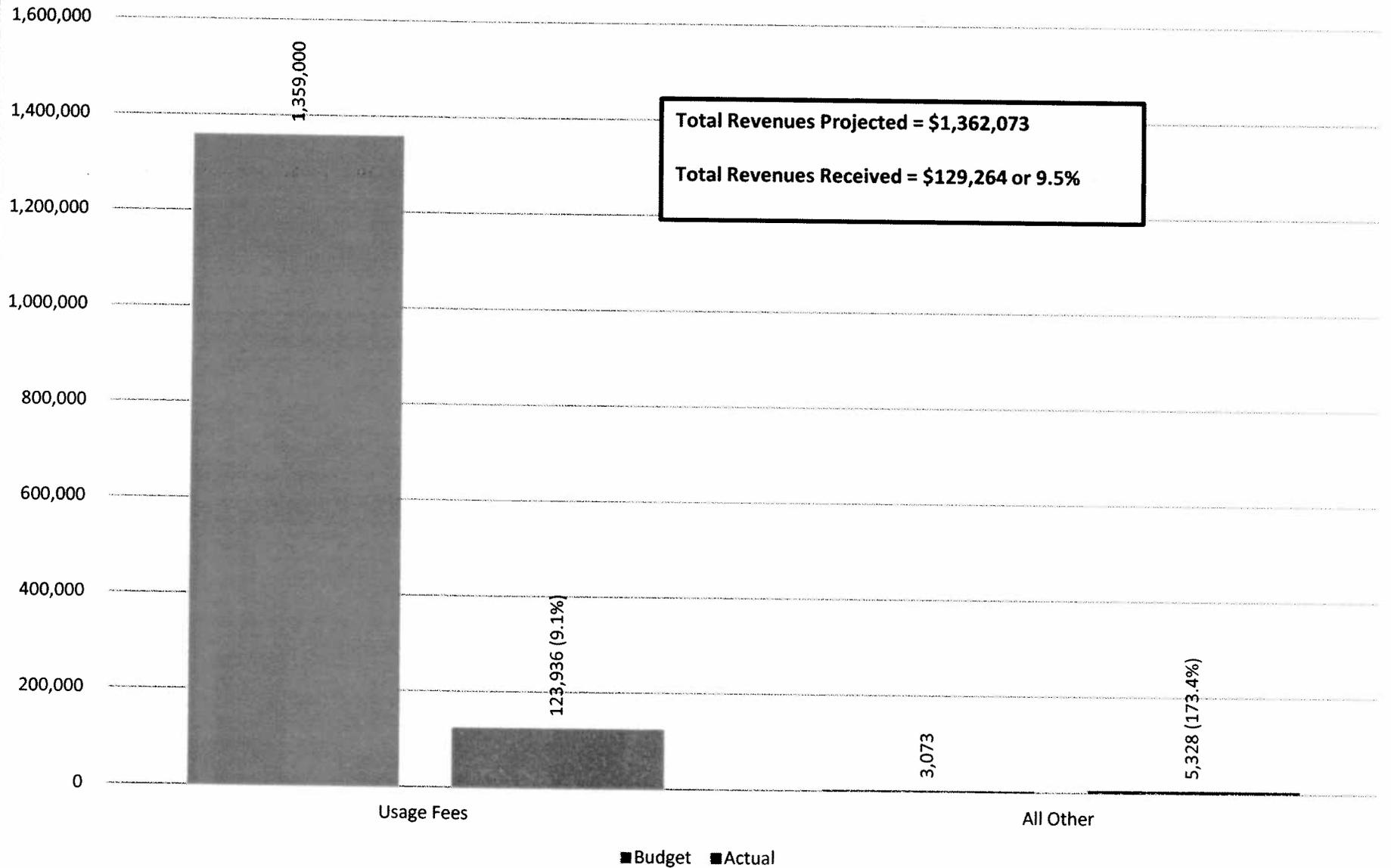
NORTHFIELD TOWNSHIP FIRE/MEDICAL RESCUE FUND Revenues Projected vs. Received October 31, 2014 YTD



NORTHFIELD TOWNSHIP FIRE/MEDICAL RESCUE FUND Total Expenditures Projected vs. Incurred October 31, 2014 YTD



NORTHFIELD TOWNSHIP WWTP FUND Revenues Projected vs. Received October 31, 2014 YTD



NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board
From: Howard Fink
Date: 11/6/2014
Re: Health Insurance Renewal

Dear Township Board,

I am still trying to come up with a solution that will be fair to all employees regarding the cost of health insurance. While I don't have all the numbers calculated just yet, the recommendation will most likely be to remove the hard caps and provide additional funds.

Warm Regards,



Howard Fink, Township Manager



Current Plan Suffix 0001	Current Plan Suffix 0002	Alternative #1
Blue Cross/Blue Shield Simply Blue PPO \$1000	Blue Cross/Blue Shield Simply Blue PPO HSA \$3,000/20% with Rx	Blue Cross/Blue Shield Simply Blue PPO Gold \$1000

In Network Benefits

Office Visit Copays - Primary/Specialty	\$30/\$30	80% After Deductible	\$20/\$40
Chiropractic Copay	\$30	80% After Deductible	\$30
Emergency Room Copay	\$150	80% After Deductible	\$150
Urgent Care Copay	\$30	80% After Deductible	\$60
Deductible	\$1,000/\$2,000	\$3,000/\$6,000	\$1,000/\$2,000
Coinsurance	80% After Deductible	80% After Deductible	80% After Deductible
Maximum Out-of-Pocket	\$3,500/\$7,000	\$4,000/\$8,000	\$3,500/\$7,000
Employer Contribution			

Out of Network Benefits

Deductible	\$2,000/\$4,000	\$6,000/\$12,000	\$2,000/\$4,000
Coinsurance	60% After Deductible	60% After Deductible	60% After Deductible
Maximum Out of Pocket	\$7,000/\$14,000	\$8,000/\$16,000	\$7,000/\$14,000

Prescription Drug Coverage

Prescription Drug Coverage	\$5/\$25/\$50	\$10/\$40/\$80 After Deductible	\$15/\$50/50%/20%/ 25%
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Dental

Dental	Traditional Plus Dental Coverage - Plan 3 100/75/50/50 (\$1,000 Annual Max)	Traditional Plus Dental Coverage - Plan 3 100/75/50/50 (\$1,000 Annual Max)	Blue Dental PPO Plus SG 100/80/50/50 (\$1,000 Annual Max)
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Vision

Vision	Blue Vision 12-12-12 \$5/\$10	Blue Vision 12-12-12 \$5/\$10	Blue Vision SG 12-12-12 \$5/\$10
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Northfield Township

Effective Date: 12/1/2014

Alternative #2	Alternative #3	Alternative #4
Blue Cross/Blue Shield Simply Blue PPO HSA Gold \$2000 w/Contribution	Blue Cross/Blue Shield Simply Blue PPO HSA Silver \$2000	Blue Cross/Blue Shield Simply Blue PPO HSA Bronze \$4000
80% After Deductible	80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible	80% After Deductible
80% After Deductible	80% After Deductible	80% After Deductible
\$2,000/\$4,000	\$2,000/\$4,000	\$4,000/\$8,000
80% After Deductible	80% After Deductible	80% After Deductible
\$4,500/\$9,000	\$4,500/\$9,000	\$6,350/\$12,700
\$1,000/\$2,000		
\$4,000/\$8,000	\$4,000/\$8,000	\$8,000/\$16,000
60% After Deductible	60% After Deductible	60% After Deductible
\$9,000/\$18,000	\$9,000/\$18,000	\$12,700/\$25,400
\$15/\$50/50%/20%/25% After Deductible	\$15/\$50/50%/20%/25% After Deductible	\$20/\$60/50%/20%/25% After Deductible
Blue Dental PPO Plus SG 100/80/50/50 (\$1,000 Annual Max)	Blue Dental PPO Plus SG 100/80/50/50 (\$1,000 Annual Max)	Blue Dental PPO Plus SG 100/80/50/50 (\$1,000 Annual Max)
Blue Vision SG 12-12-12 \$5/\$10	Blue Vision SG 12-12-12 \$5/\$10	Blue Vision SG 12-12-12 \$5/\$10



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Brighton, Michigan 48116
(810) 227-5000 FAX (810) 220-5895

Paul E. Burns
Bradford L. Maynes

ATTORNEY-CLIENT PRIVILEGED CONFIDENTIAL COMMUNICATION

November 6, 2014

VIA ELECTRONIC MAIL

Northfield Township Board of Trustees
Township of Northfield
8350 Main Street
Whitmore Lake, Michigan 48189

Re: Pending Michigan Tax Tribunal Matter

Dear Trustees,

Please find below a discussion of a pending Michigan Tax Tribunal matter for which the Township Assessor has been able to negotiate a settlement that our office and the Assessor can recommend to the Board. Below, please find a synopsis of this proposed settlement.

Mary L. Wolowiec Living Trust v Township of Northfield. MTT No. 14-005631

This matter involves a residential home located at 900 Jennings Road for the tax year 2014. For that tax year, the total values requested by Petitioner and the values assessed by the Township as Respondent are set forth below:

Year	Petitioner			Respondent		
	TCV	AV	TV	TCV	AV	TV
2014	\$280,000	\$140,000	\$140,000	\$313,080	\$156,540	\$156,540

Based on information received from Petitioner, the Assessor was able to perform a market analysis. This analysis indicated that the value of the property was below where the property was assessed. The Assessor was able to negotiate a value above that initially sought by Petitioner. The final resolution proposed by Petitioner sets assessed and taxable values to \$145,000 for 2014. The approximate reduction in Township revenue for 2014 would be \$91.

Northfield Township Board of Trustees
November 6, 2014
Page 2

As set forth above, the negotiated values in the above Tribunal matter represent an increase in the values requested by the Petitioner. In addition, the valuation calculations performed by the Assessor indicate that the values on which we are settling are the actual values for the parcel in question, and therefore represent the most favorable outcome likely after a trial. As a result, it is the recommendation of both our office and the Assessor that the Township accept the negotiated settlement proposed by the Petitioner, above, as reflective of the actual values of the properties in question.

Please contact our office if you have any questions in this regard.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Bradford L. Maynes', written in a cursive style.

Bradford L. Maynes

BLM/lj

cc: Mr. Howard Fink, Township Manager
Mr. Thomas D. Monchak, MAAO, MCPPE



TETRA TECH, INC.

INTEROFFICE MEMORANDUM

TO: Howard Fink, Northfield Township Manager
FROM: Brian Rubel
DATE: October 27, 2014
SUBJECT: Wastewater Capacity Summary

BACKGROUND

Northfield Township provides wastewater treatment services for portions of Northfield and Green Oak Township. This memo is prepared to summarize some key items related to wastewater treatment, in general, and sewer capacity in the southern part of the sewer system. The information within this memo comes from both past studies and more recent calculations of system capacity.

WASTEWATER TREATMENT CAPACITY

The Township owns and operates a tertiary (3-stage) wastewater treatment plant (abbreviated WWTP). The Township possesses a permit from the Michigan Department of Environmental Quality (MDEQ) to discharge wastewater to the Horseshoe Lake Drain. That permit allows the present plant to discharge 1.3 million gallons of wastewater per day (abbreviated mgd). The permit also provides provisions for Northfield to expand the WWTP up to 3.0 mgd should an expansion be desired.

Present flows average between 0.6 to 0.7 mgd. However, flows during the morning and evening arrive at a higher rate and during nighttime at a lower rate. During wet weather, the flows into the plant increase due to the infiltration of groundwater and the inflow of stormwater (abbreviated as I/I).

The difference between 0.7 mgd and the plant capacity of 1.3 mgd indicates the WWTP has capacity remaining during dry weather to serve new connections. Tetra Tech believes Northfield Township could add up to 1,900 residential equivalent user (abbreviated REUs with one REU being equivalent to one single family home) connections before the MDEQ would request the WWTP to be expanded. However, it is a legal and policy matter to determine how many of these 1,900 REUs may have been previously allocated to either Green Oak Township or the North Territorial SAD.

During large storms, WWTP Superintendent Hardesty reports that the incoming flows can exceed 3 mgd. Above a peak rate of 2 mgd, the WWTP staff must bypass some treatment processes due to capacity limitations. Bypass of treatment processes are not desired and create a risk that the permit limits may not be met. Thus, any significant new development will increase the flows during wet weather and make effective treatment more challenging.

It is subjective as to what a significant development may be. Wastewater from a few new homes would be immeasurable at the WWTP. It is my opinion that after about 100 new homes, an increase in flow would be noticeable and measurable at the WWTP and create additional operational challenges.

Northfield Township has long considered constructing a storage basin at the WWTP. The purpose of the storage basin would be to capture wet weather flows and return the water to the WWTP after the storm. Tetra Tech has records that show as early as 1988 a storage basin was discussed. However, a storage basin has never been constructed.

During development interest in 2005, the Township requested Tetra Tech to prepare a cost opinion for a plant expansion (to a capacity of 2.25 mgd) and construction of a storage basin. The opinion of cost for that improvement was \$12.7 million. Given the age of this opinion and changes to state law regarding the sizing of storage basins, the cost would be significantly larger today.

Due to the observed wet weather restrictions at the WWTP, Tetra Tech suggests that the Township again consider construction of a storage basin concurrent with significant development. A plant expansion would not be immediately needed to serve new development unless the research shows the available dry weather capacity has been reserved for Green Oak and special assessment districts.

NORTH TERRITORIAL SPECIAL ASSESSMENT DISTRICT

The existing North Territorial Special Assessment District (SAD) was constructed in year 2000 and consists of a collection sewer, pump station, and 12-inch diameter force main to Eight Mile Road. These facilities were sized to accommodate the approximately 1,500 REUs that were projected to be constructed within the SAD limits. Current connections are far below this number as little development within the SAD has occurred.

The pump station and force main were not sized for additional connections beyond the limits of the SAD. It was assumed that future growth would construct pump station improvements including parallel force main(s). An opinion of cost was prepared in 2003 that places a value of \$2.28 million on the next improvement. The cost will be larger in today's dollars.

Given the sparse density of development within the existing SAD, the existing North Territorial Pump Station and existing force main can accommodate growth until the number of REUs reaches 1,500. However, Tetra Tech suggests that significant new developments contribute funds toward constructing the pump station and force main improvements that will eventually be needed as well as the cost of the storage basin at the WWTP.

SUMMARY OF KEY THRESHOLDS

<u>Total REUs</u>	<u>Need</u>
100 or more additional (anywhere in Township)	Raise funds for WWTP storage
100 or more additional (North Territorial area)	Raise funds for new pump station and force main
1,500 or more total (North Territorial area)	Construct pump station and force main improvements
1,900 additional (anywhere in Township)*	Construct WWTP expansion

*assuming capacity has not been reserved for Green Oak Township or other users

There are negligible current connections to North Territorial Pump Station (fewer than 100) thus an additional number of REUs is approximately the same number as the total number of REUs. To illustrate the use of the table with just one example, if 1,500 REUs of development demand materializes tributary to the North Territorial

Pump Station and 400 REUs materialize elsewhere in the system, Northfield Township would need to initiate all of the items listed in the above table.

NORTHFIELD TOWNSHIP SEWER SYSTEM CAPACITY SUMMARY

NORTH TERRITORIAL SERVICE AREA

CAPACITY/DEMAND	NEED	REFERENCE
Any significant new development (say 100 REUs)	Equalization Basin	Operator Observation
Above 1,522 REUs and Below 3,044 REUs	New NT Pump and Force Main	2003 Sewer Study
Additional 1,923 REUs	WWTP Expansion	85% of ex. 1.3 mgd capacity
Above 3,044 REUs	New NT Pump Station	2003 Sewer Study

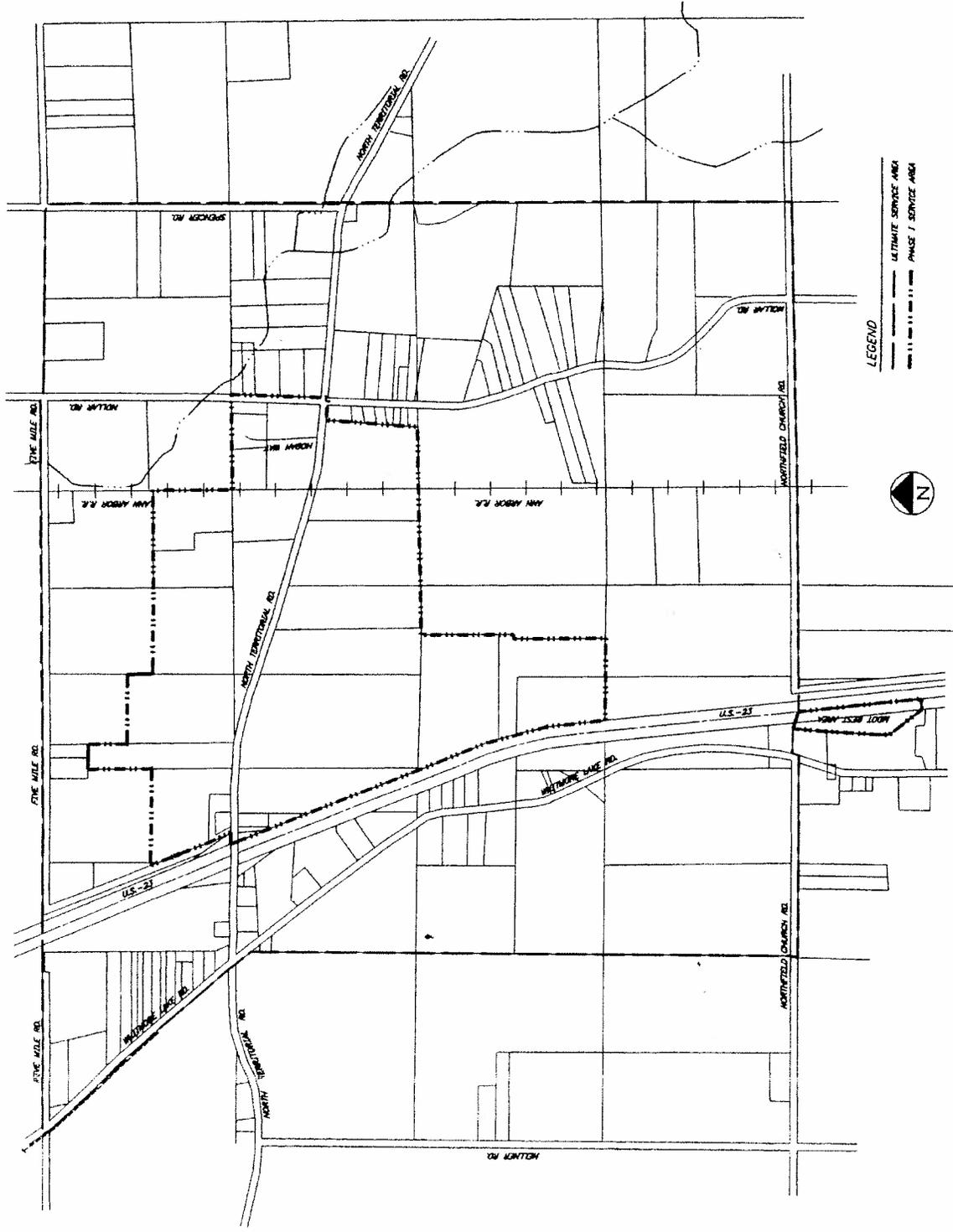
NOTES

Given that the North Territorial SAD is not built-out, new connections could occur as long as provisions are in place to collect connection fees needed to repay the costs of future infrastructure.

Existing North Territorial SAD design basis was 1,522 REUs

Sizing of needed WWTP facilities requires extensive analysis and new cost opinions since 2002

EQ basin sizing and WWTP expansion are interrelated. Doing both simultaneously will lower project costs.



NORTHFIELD TOWNSHIP, WASHTENAW COUNTY
 NORTH TOWNSHIP, WASHTENAW COUNTY
 BASIS OF DESIGN
 SERVICE AREA
 FIGURE 1



McNAMEE
 PORTER
 & SEELEY
 INC.

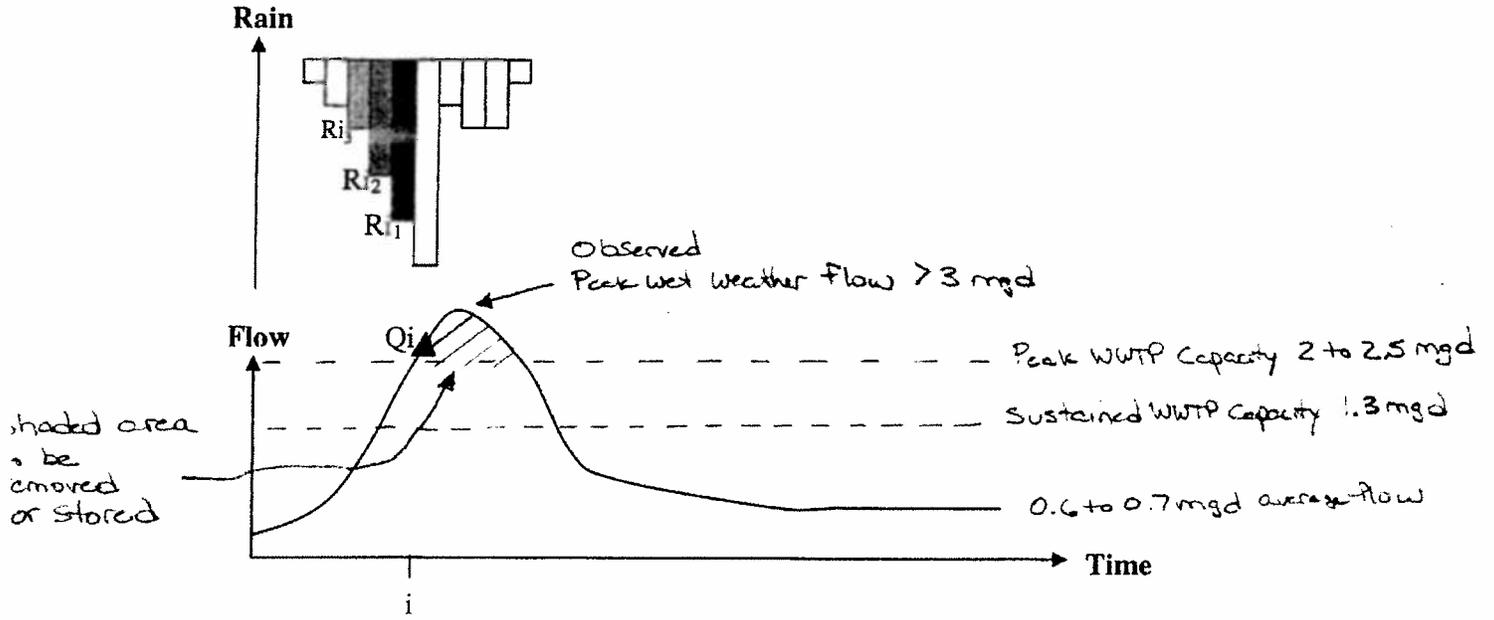
NORTHFIELD TOWNSHIP WWTP CAPACITY TIMELINE

DATE	EVENT
1961	WWTP Constructed
1975	WWTP Expanded
1983	WWTP Expanded
1988	WWTP Expanded. Equalization storage proposed but not built.
1993	WWTP Expanded
1998	WWTP Expanded
1998	North Territorial SAD conceived to serve Phase I development only
2000	North Territorial SAD Phase I constructed
2001	Very brief wet weather study. Recommendations not implemented
2002	Brief sewer capacity report funded by developer. Reiterates need for major capital improvements to support growth near North Territorial
2005	WWTP expansion and equalization storage discussed for growth. Neither project proceeds.

WWTP CAPACITY SUMMARY

Average flow	0.6 to 0.7 million gallons/day (mgd)
Rated capacity (sustained) in permit	1.3 mgd
Peak flow observed	>3 mgd
Peak flow capacity	2.0 to 2.5 mgd
MDEQ requires accommodating 3.9-inch storm without bypassing treatment	

NORTHFIELD TOWNSHIP WWTP SAMPLE HYDROGRAPH



NORTHFIELD TOWNSHIP

**North Territorial Sanitary Sewer
Improvements**

CONTRACTS 0196.064-S-1, S-2, AND S-3

May 1998

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1 Service Area
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INTRODUCTION

GENERAL

The North Territorial Sanitary Sewer Improvements are located in Northfield Township, Washtenaw County, Michigan. Phase I of the project is designed to provide sanitary sewer service to existing and future developments along North Territorial Road from US-23 to Nollar Road. The development of this area has been hindered due to poor soil conditions and a high groundwater table. The project will include approximately 11,500 linear feet of gravity sewer, 21,000 linear feet of transmission main along US-23, a new pump station at North Territorial Road, and the reconstruction of the Eight Mile Road Station. Northfield Township will own, operate, and maintain the proposed system.

SERVICE AREA

Enclosed is a map (Figure 1) which delineates the proposed Phase 1 and Ultimate service areas. The Phase 1 service area consists of primarily vacant land along North Territorial Road from US-23 to Nollar Road. The majority of the land is zoned RTM (research), which supports development such as offices and light industrial facilities. The "Ultimate" service area was determined by the Township as a tool to facilitate the sizing of the interceptor sewers and pump stations being installed.

PROPOSED FACILITIES

The system will be a combination of gravity sewers, pump stations, and force mains. The area along North Territorial Road will be served by a gravity sewer on the south side of the road. The sewer will drain west from Nollar Road to a submersible pump station near Five Mile Road. A gravity sewer will also be extended west of US-23 to provide service for the MDOT rest area and the portion of the "Ultimate" service area which is west of US-23. The pump station will discharge through a 12-inch pressure main across US-23 and north along US-23 to Eight Mile Road. The force main will discharge to the Eight Mile Road pump station, which will be reconstructed to handle this additional flow. The new Eight Mile Road Pump Station will continue to discharge to the Northfield Township Wastewater Treatment Plant on Lemay Road in Green Oak Township, Livingston County, Michigan. Table 1 shows proposed sizes and footage of the gravity sewers and force mains.

Table 1
Sizes of Gravity Sewers and Force Mains

Item	Size	Lineal Feet	TOTAL
Gravity Sewer	8"	2,050	
	12"	3,700	
	18"	5,750	11,500
Force Main	12"	21,000	21,000

EXISTING SEWER SYSTEM

The existing sanitary sewer system in Northfield Township is composed of gravity sewers and force mains discharging to the main pump station on Eight Mile Road and ultimately to the Northfield Wastewater Treatment Plant. The existing wastewater treatment plant uses primary settling tanks, a trickling filter, aeration tanks, final settling tank, and sand filters to treat wastewater. The Township is currently expanding the facility by adding an additional aeration tank, final settling tank, and sand filters. Future expansions plans include constructing an equalization basin, primary settling tank, final tank, sand filter, and a sludge storage tank. The pump station at Eight Mile Road will be reconstructed to accommodate the additional flow due to planned future developments in the service area.

BASIS OF DESIGN

The design capacities of the gravity sanitary sewer, force main, and pumping stations are based on the projected development of the service districts. The design assumptions for the development rate are listed below.

GRAVITY SEWER

The flows from gravity sewer are based on the predicted average flow, with a peaking factor to account for the diurnal fluctuations associated with sanitary flow.

Population (average household)	2.6
Per Capita Flow Rate	100 gal/day
Peaking Factor	Based on Ten States Standards

The commercial and industrial users were equated to residential users by Residential Equivalent Units (REUs). Each REU equates to 260 gallons per day based on the residential user flow. Table 2 shows the existing facilities and the number of REUs that they have been assigned for design purposes

Table 2
Existing Facilities

No.	Description	REUs
1-4	Single Family Homes	4
5	Duplex Home	2
6	Sunoco	2
7	Moehrle, Inc.	5
8	Carter Lumber	1
9	Ann Arbor Dog Training	1
10	Bloom Roofing System	1
11	Rhetec	31
12	MDOT Rest Area	22
	TOTAL	69

The projected wastewater flows are based on zoning and future anticipated land use. Table 3 lists zoning classifications, areas, and the existing and estimated flow associated with each zoning.

Table 3
Estimated Flows

Zoning	Avg.Flow/ Acre	Phase 1 Acres	Ultimate Acres	REUs /Acre	Phase 1 Flow	Ultimate Flow
R	520	0	1500	2	0	780,000
O	650	0	150	2.5	0	97,500
RTM	650	400	550	2.5	260,000	357,500
GI	650	70	70	2.5	45,500	45,500
GC	780	69	220	3	53,820	171,600
PSC	910	40	100	3.5	36,400	91,000
TOTAL		579	2,550		395,720	1,543,100

The zoning terms are defined as follows:

- R residential
- O office
- RTM research
- GI general industrial
- GC general commercial
- PSC planned shopping center

Figure 2 shows a map of the zoning within Phase 1 and the Ultimate service areas. Figure 3 shows the flow patterns and estimated size of the main in the Phase 1 service area.

Table 4 shows the subareas of the Ultimate service area and the projected flows contributing to the main; this table does not include the flow from the two new developments shown on Figure 3. The total ultimate peak flow to the North Territorial pump station is expected to be 4.73 MGD.

Table 4
Subareas and Expected Flows

Subarea	Zoning	Avg. Flow (gpd)	Projected Flow (MGD)
A	PSC/R	168,350	0.66
B	R	187,200	0.56
C	R/GI	334,100	1.01
D	RTM/R	187,200	0.61
E	GC/O/R	315,221	0.99
F	GC/R	75,267	0.32

Table 5 indicates the pipe sizes and expected flows for the sewer system on North Territorial Road. The pipe numbers correspond to the numbers on the map in Figure 3. The sewers are sized to carry the future ultimate flow as the service area is developed.

Table 5
North Territorial Pipe Sizing

Pipe Number	Pipe Size (inches)	Pipe Cap. (MGD)	Projected Peak Flow (MGD)
1	8	0.72	0.25
2	12	1.56	0.60
3 - 5	18	3.54	1.90
6	8	0.72	0.01
7	18	3.54	2.76
8	18	3.54	1.97
9	12	1.56	1.31
TOTAL			4.73

3300 gpm

SUBMERSIBLE PUMPING STATIONS

Eight Mile Road

The submersible station on Eight Mile Road will be designed to provide continuous flow to the WWTP by using variable speed pumps that will be controlled with sonic level transmitters. The pumps will be non-clog sewage pumps that will pass three-inch solids. The pumps will discharge flow from the wet

well through a plug valve (shutoff) and a check valve (to prevent backflow) to a common header pipe in the valve vault located in the electrical building.

The pumps will be explosion-proof, UL or FM approved. The pumping station will be provided with stainless steel lifting chains, slides, and guide rail systems for pump removal and maintenance. The pump station will have a divided wet well with sluice gates to allow isolation of either side of the station for maintenance.

The Eight Mile Road pump station will be provided with a permanent generator for use in case of a power outage. The generator will be equipped with an automatic transfer switch that will automatically transfer power from the control panel to the generator in the event of power failure. The Eight Mile Road pump station will also have a bypass line that will enable the operators to run the pump station with a portable pump in the event that either the pumps in the station are down or the control panel is not functioning. Table 6 shows existing and future REUs considered in the design of the Eight Mile pump station.

Table 6
Existing and Future Service at Eight Mile Station

Service Area	REUs
Existing Flow	2,730
Shadowood	44
Eagle Gardens	162
Wildwood	70
Winterhaven Condominiums	30
Westbrook Apartments	132
Future	400
TOTAL	3568

Table 7 provides a summary of design parameters for the Eight Mile Road pumping station.

Table 7
Eight Mile Road Pumping Station Design Data

Design REUs	4168
Design Hour(gpd/REU)	260
Peaking Factor	4*
Design Peak Hour Flow (gpm)	3300
Design Firm Pumping Capacity (gpm)	3300
Number of Pumps	4
Pump Control Method	Sonic Level Transmitter
Total Dynamic Head (feet)	100
Force Main Length (feet) and Size (inches)	6,000 12 & 8
Wet Well Dimensions (feet)	16.5 x 17
Wet Well Working Volume (gallons)	3345
Wet Well Storage Volume (gallons)	9186
Type of Telemetry	radio

* Value obtained from flow study.

North Territorial Road Pump Station

The submersible station at North Territorial Road will be designed as a triplex station to accommodate flow from future planned developments. Two pumps will be installed initially, with the third pump added once future flows are introduced to the sewer system.

The pump station at North Territorial Road will have submersible pumps. The pumps will be non-clog sewage pumps that will pass three-inch solids. The pumps will discharge flow from the wet well through a plug valve (shutoff) and a check valve (to prevent backflow) to a common header pipe in an underground valve vault. The submersible station at North Territorial Road will be equipped with a portable generator for use in the event of a power outage. The pumps will be explosion-proof, UL or FM approved. The pumping station will be provided with stainless steel lifting chains, slides, and guide rails systems for pump removal and maintenance.

Table 8 provides a summary of design parameters for the North Territorial Road Pumping Station.

Table 8
North Territorial Road Pumping Station Design Data

Design REUs	600
Design Hour (gpd/REU)	260
Peaking Factor	3
Design Peak Hour Flow (gpm)	700
Design Firm Pumping Capacity (gpm)	3300
Number of Pumps	3
Pump Control Method	Sonic Level Transmitter
Total Dynamic Head (feet)	80
Force Main Length (feet) and Size (inches)	23,000 ft., 12-inch
Wet Well Dimensions (feet)	10 x 12
Wet Well Working Volume (gallons)	4040
Wet Well Storage Volume (gallons)	7181
Type of Telemetry	radio

Telemetry

The Eight Mile Road pump station will be provided with a sonic level transmitter that will read the level of volume in the station. The transmitter will read levels and send the information via radio transmitter to monitoring equipment at the plant. The monitoring equipment at the plant will notify the operators to respond to the alarm. This communication equipment helps increase response time and prevent extended down-time of the pumping station.

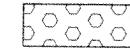
The pump station at North Territorial Road will be equipped with a sonic level transmitter in the wet well. The sonic level transmitter will read levels and send the information via radio transmitter to monitoring equipment at the plant. The monitoring equipment at the plant will notify operators to respond to the alarm.



FIGURE 1 NORTHFIELD TOWNSHIP, WASHTENAW COUNTY
NORTH TERRITORIAL SANITARY SEWER
BASIS OF DESIGN
SERVICE AREA

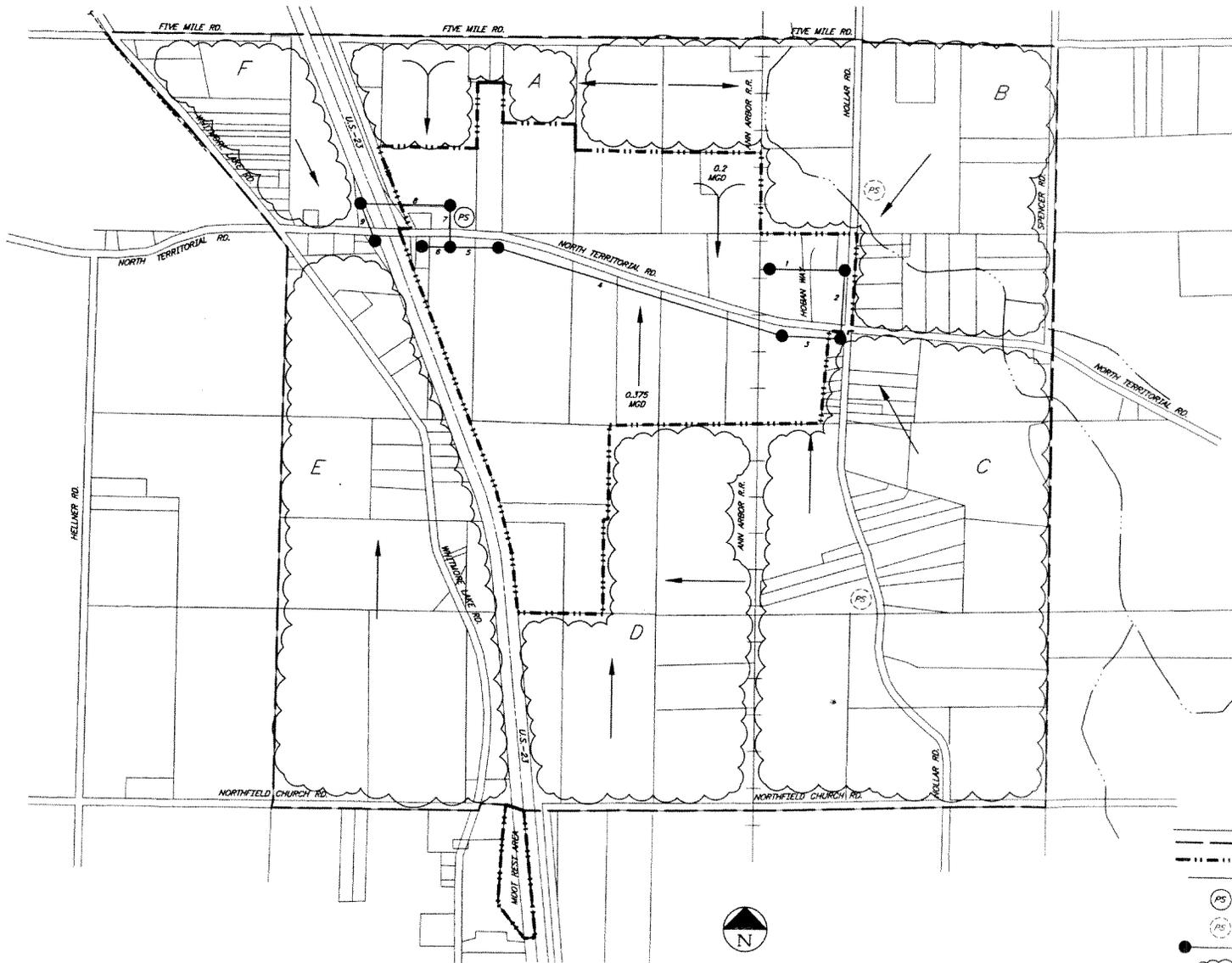


LEGEND

-  ULTIMATE SERVICE AREA
-  PHASE I SERVICE AREA
-  RESIDENTIAL
-  OFFICE
-  GENERAL COMMERCIAL
-  GENERAL INDUSTRIAL
-  RESEARCH
-  PLANNED SHOPPING CENTER

FIGURE

NORTHFIELD TOWNSHIP, WASHTENAW COUNTY
NORTH TERRITORIAL SANITARY SEWER
BASIS OF DESIGN
ZONING



- LEGEND**
- ULTIMATE SERVICE AREA
 - - - PHASE I SERVICE AREA
 - ANTICIPATED FLOW RATE
 - (PS) PUMP STATION
 - (PS) FUTURE PUMP STATION
 - GRAVITY SEWER
 - (A) SUB-AREA
 - 1 PIPE NUMBERS

FIGURE 3 NORTHFIELD TOWNSHIP, WASHTENAW COUNTY
NORTH TERRITORIAL SANITARY SEWER
BASIS OF DESIGN
ESTIMATED FLOWS

**** Preliminary Submittal ****

Northfield Township, Michigan

**NORTHFIELD TOWNSHIP
SANITARY SEWER STUDY**

Prepared by



Tetra Tech MPS

November 2003

**** Preliminary Submittal ****

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APPENDIX A

Whitmore Lake Vicinity Conceptual Opinions of Probable Cost

Service District 1

Service District 2

Service District 3 – Option A

Service District 3 – Option B

Service District 3 – Option C

Service District 4

Eight Mile Pump Station Upgrade

APPENDIX B

North Territorial Vicinity Conceptual Opinions of Probable Cost

Service District 5

Service District 6

Service District 7

North Territorial Pump Station Parallel Force Main Installation

North Territorial Pump Station Force Main Extension to WWTP

APPENDIX C

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EXECUTIVE SUMMARY

This report has been prepared on behalf of Northfield Township to identify and develop sanitary sewer infrastructure alternatives to serve future developments in the Whitmore Lake, North Territorial Road, and Northfield Church Road vicinities.

The study area consists of approximately 2,760-acres of land that have the potential to be developed for commercial, industrial, and residential uses. The land within the proposed study area is primarily vacant in the North Territorial and Northfield Church Road vicinities, with existing commercial and residential developments located predominantly in the Whitmore Lake vicinity. The estimated average day sewage flow from the Whitmore Lake and North Territorial vicinities is approximately 680,000 gallons per day, while the sewage flow from the Northfield Church Road vicinity is approximately 1,160,000 gallons per day. For projected growth rates in Northfield Township, sewage flow from the Northfield Church Road vicinity is not anticipated in the next twenty years.

Service districts have been identified to provide transport of sanitary sewage from the Whitmore Lake and North Territorial vicinities. The specific service districts and conceptual opinions of probable project cost are presented below.

Service District	
Opinions of Probable Project Cost	
Service District	Conceptual Opinion of Probable Project Cost
1	\$860,000
2	\$780,000
3 – Option C	\$2,320,000
4	\$350,000
5	\$1,180,000
6	\$530,000
7	\$840,000
8 Mile PS Upgrade	\$600,000
N. Territorial PS Upgrade	\$2,950,000
Totals	\$10,410,000

Detailed opinions of probable project cost for the Whitmore Lake vicinity Service Districts 1 through 4 and Eight Mile Pump Station Upgrade are located in Appendix A. Detailed opinions of probable project cost for the North Territorial vicinity Service Districts Zones 5 through 7 and North Territorial Pump Station Upgrade are located in Appendix B.

It is recommended that Northfield Township pursue improvements to the sanitary sewer system that encompass both expansion of new infrastructure and increasing capacity of existing infrastructure as new development is identified in the Whitmore Lake and North Territorial vicinities. Due to the uncertainty regarding location and timing of new development in the Whitmore Lake and North Territorial vicinities, it is also recommended infrastructure improvements be over-sized to minimize the potential of future sewage flow exceeding the capacity of these infrastructure improvements.

**** Preliminary Submittal ****

The sanitary sewage from the study area will be directed to the existing Northfield Township Wastewater Treatment Plant (WWTP). Inclusion of the study area into the existing sanitary sewer system will require expansion of the existing WWTP.

INTRODUCTION

This sanitary sewer study has been prepared on behalf of Northfield Township to evaluate alternatives to provide sanitary sewer service to areas in the vicinity of Whitmore Lake and North Territorial Road. The land within the proposed expanded service areas is primarily zoned Agriculture, but there is indication that development of these areas for residential, commercial, and limited industrial development is likely. This sanitary sewer study evaluates alternatives for providing sanitary sewer service for the anticipated development, including improvements to existing sanitary infrastructure for transport to the Northfield Wastewater Treatment Plant (WWTP).

EXISTING SERVICE AREAS

Whitmore Lake Vicinity

The existing sanitary sewer infrastructure in this vicinity extends around the entire perimeter of Whitmore Lake, accepting sanitary flow from predominantly residential neighborhoods in both Northfield and Green Oak Townships. Sanitary flow is collected and transported by gravity sewer and periodically by pump stations, with the primary transmission sewers located along Main Street and East Shore Drive. Additionally, sanitary sewer extends south along Whitmore Lake Road from East Shore Drive to Six Mile Road, servicing a mixture of commercial and residential properties. Flows from around Whitmore Lake and Whitmore Lake Road are combined and transported west underneath US-23. These combined flows, as well as additional residential sanitary sewer flow from Barker Road, are directed to the 8 Mile Pump Station. Sewage flow from the Eight Mile Pump Station is transported via a force main and discharges at the Northfield WWTP. A map of the Whitmore Lake Vicinity sanitary sewer system is shown in *Figure 1*.

The original transmission sewer mains along East Shore Drive, Main Street, and Whitmore Lake Road to the Eight Mile Pump Station were constructed in the late 1960's

and consist of 12, 15, and 18-inch pipe installed at minimum grades. With the resulting development in the past several decades since their installation, the peak flows in sections of these sewer pipes have been measured and have been found to be near the maximum pipe capacities during large rain events due to inflow and infiltration. It is expected that the gravity sewer capacity between the East Shore Drive and Main Street intersection and the Eight Mile Pump Station will be exceeded during the 25-year or greater rain event with the onset of additional development. Anticipated peak sewage flows during the 25-year rain event and corresponding pipe capacities are shown in *Figure 2*.

The East Shore Pump Station 1, located on East Shore Drive between Main Street and Seven Mile Road, accepts flow from the north and eastern extents of Whitmore Lake. This pump station is designed with a firm pumping capacity of 450-gpm and is nearing the limits of its design capacity. The Washtenaw County Road Commission (WCRC) has indicated that they will require the relocation of this pump station away from its current location should the pump station be upgraded or otherwise modified. There is the potential that the WCRC may require the pump station to be moved even if no improvements are performed if they undertake roadway improvements.

The Eight Mile Pump Station was reconditioned and upgraded in 2000 to a firm pumping capacity of 3,300-gpm. Currently, this pump station accepts flow from the Whitmore Lake vicinity as well as flow from the North Territorial vicinity via the North Territorial Pump Station. During peak flow conditions, the Eight Mile Pump Station is at approximately two-thirds its firm pumping capacity. Flow from the Eight Mile Pump Station enters a 12-inch force main and travels approximately 3,000 linear feet to the Northfield WWTP. There is also a parallel existing 8-inch force main from the pump station to the WWTP that was taken out of service approximately twelve years ago. There is the potential that this 8-inch force main has deteriorated from disuse to a point where it is no longer suitable for sanitary sewer service in the future.

North Territorial Vicinity

The existing sewage flow in this vicinity extends along North Territorial Road from Whitmore Lake Road to the Ann Arbor Rail Road, just west of Nollar Road. This infrastructure was installed in 2000 and consists of 8, 12, 15, and 21-inch gravity sewer as well as the North Territorial Pump Station. Flow from the North Territorial Pump Station is directed along approximately 21,000 linear feet of 12-inch force main to the Eight Mile Pump Station. A map of the North Territorial Vicinity sanitary sewer system and the current service districts is shown in *Figure 3*.

The gravity sewer along North Territorial Road and the pump station were designed to accommodate the anticipated commercial and light industrial development within the special assessment district. Currently, this system experiences little demand, as major development in this area has not commenced as anticipated.

The North Territorial Pump Station was originally designed with an ultimate firm pumping capacity of 1,400-gpm through a pair of parallel 12-inch force mains. Currently, the firm pumping capacity of the station is set at 700-gpm through a single force main. When further capacity is required, the pump station is ready to be installed with an additional pump, which will upgrade the firm pumping capacity to the ultimate 1,400-gpm. As originally planned, the increase in firm pumping capacity to 1,400-gpm will require the installation of a second 12-inch force main to the Eight Mile Pump Station. Attempting to transport 1,400-gpm through the single 12-inch force main will generate total dynamic head in excess of the pumps' ability to generate flow.

Northfield Wastewater Treatment Plant

The existing sanitary sewer flow from the Eight Mile Pump Station discharges directly to the Northfield WWTP via a 12-inch force main. The Northfield WWTP currently processes an average daily flow of approximately 800,000 gallons per day, with the capacity to process an average daily flow of 1,300,000 gallons per day. The Phase I special assessment district (SAD) for the North Territorial sanitary sewer improvements

constructed in 2000 encompasses land expected to generate an average daily flow of approximately 390,000 gallons (1500 REU) per day. Combining the existing WWTP flow with the expected flow from the North Territorial Phase I (SAD), as well as an average daily flow of approximately 39,000 gallons (120 REU) per day currently allocated to Green Oak for Whitmore Lake vicinity development, there is approximately 71,000 gallons (270 REU) of average day flow capacity remaining. The construction of the Whitmore Lake High School, expected to require 120 REU, will further reduce the available capacity at the WWTP to approximately 150 REU. Any development beyond this limited capacity will require expansion of the WWTP.

PROJECTED DEVELOPMENT AREAS

The study area includes approximately 2,760-acres of land that have the potential to require public sanitary sewer service. These areas are currently zoned *Agriculture*, and in the future they are likely to experience residential, commercial, and light industrial development growth.

Whitmore Lake Vicinity

Four new development areas have been identified by Northfield Township that would connect to the existing sanitary sewer infrastructure around Whitmore Lake. The areas and Northfield Township's expectations for future zoning are shown in *Figure 4* and are described as follows.

- **Wildwood Lake Area** – Approximately 258-acres of land between Kearney and Jennings Roads, south of Wildwood Lake. This area has the potential to be rezoned *Single Family Residential 1*, with a maximum density of 4 residences per acre.
- **Seven Mile Area** – Approximately 234-acres of land along 7 Mile Road between East Shore Drive and Donna Lane. This area has the potential to be rezoned *Single Family Residential 1*, with a maximum density of 4 residences per acre.
- **Kelly Area** – Approximately 282-acres of land south of the Eagle Gardens development, east of Whitmore Lake Road. This area has the potential to be rezoned *Single Family Residential 1*, with a maximum density of 4 residences per acre. This land is not expected to develop within the next twenty years.
- **Whitmore Lake High School Area** – Approximately 82-acres of land on Whitmore Lake Road, between Five Mile and Six Mile Roads. This area is being developed for the proposed Whitmore Lake High School, which is expected to accommodate 1,200 students.

North Territorial Vicinity

Seven new development areas have been identified by Northfield Township that will connect to the existing sanitary sewer infrastructure along North Territorial Road. The areas and Northfield Township's expectations for future zoning are shown in *Figure 5* and are described as follows.

- **Six Mile Commercial Area** – Approximately 13-acres of land on Six Mile Road, east of Whitmore Lake Road on either side of US-23. This area has the potential to be rezoned *Highway Commercial*.
- **US-23 Service Road Commercial Area** – Approximately 26-acres of land north of an existing service road east of US-23, between North Territorial and Five Mile Roads. This area has the potential to be rezoned *General Commercial*.
- **US-23 Service Road Residential Area** – Approximately 17-acres of land north of an existing service road east of US-23, between North Territorial and Five Mile Roads. This area has the potential to be rezoned *Multiple Family Residential*, with a maximum density of five residences per acre.
- **Grand Sakwa Phase I Area** – Approximately 212-acres of land west of Whitmore Lake Road between Five Mile and North Territorial Roads. This area has the potential to be rezoned *Single Family Residential 1*, with approximately 470 residences expected within the development.
- **Whitmore Lake Road Commercial Area** – Approximately 225-acres of land east of Whitmore Lake Road, between Five Mile and North Territorial Roads. This area is currently zoned *General Commercial*.

- **Nollar Road Commercial Area** – Approximately 58-acres of land west of the Nollar and North Territorial Road intersection. This area is currently zoned *General Industrial*.
- **Nollar Road Residential Area** – Approximately 9-acres of land on Nollar Road, south of the intersection with North Territorial Road. This area is currently zoned and expected to remain *Low Density Residential*, with a maximum density of one residence per acre.

Northfield Church Road Vicinity

Five new development areas have been identified by Northfield Township that will connect to the existing sanitary sewer infrastructure along North Territorial Road. Assuming an average growth rate of two percent (2%) for the Township, it is not likely that these areas will experience development levels in the next twenty years sufficient to support the construction costs of extending sanitary sewer service. The areas and Northfield Township's expectations for future zoning are shown in *Figure 5* and are described as follows.

- **Whitmore Lake Road Industrial Area** – Approximately 26-acres of land on the east side of Whitmore Lake Road, between North Territorial and Joy Roads. This area has the potential to be rezoned *Limited Industrial*.
- **Whitmore Lake Road Residential Area** – Approximately 3,530-acres of land west of Whitmore Lake Road between North Territorial and Northfield Church Roads. This area has the potential to be rezoned a mixture of *Single Family Residential 1*, *Single Family Residential 2*, and *Multiple Family Residential*.
- **Northfield Church RTM-A Area** – Approximately 360-acres of land east of US-23, between North Territorial and Northfield Church Roads. This area has the potential to be rezoned *Research, Manufacturing and Technology*.

- **Northfield Church RTM-B Area** – Approximately 145-acres of land west of Nollar Road and north of Northfield Church Road. This area has the potential to be rezoned *Research, Manufacturing and Technology*.
- **Northfield Church RTM-C Area** – Approximately 616-acres of land east of US-23 and south of Northfield Church Road. This area has the potential to be rezoned *Research, Manufacturing and Technology*.

PROJECTED WASTEWATER FLOWS

Resident Equivalent Units (REUs) were used to equate sanitary flow from commercial and industrial users to residential users. An REU represents a typical single family residential home. The average sewage flow for each REU is 260 gallons per day average. The 260 gallons per day is based on 100 gallons per day per person and 2.6 persons per household. The maximum day flow is typically estimated to be twice the average day flow, and the peak hour demand is determined per the *Ten States Standards*, which for this study has been calculated at three and one-half times the average day flow. The design flows used in this study are as follows.

Average Day Demand = 100 gpd per person x 2.6 people per household = 260 gpd / REU

Maximum Day Demand = Average Demand x 2 = 520 gpd / REU

Peak Hour Demand = Average Day Demand x 3.5 = 910 gpd / REU

Additionally, Northfield Township has several zoning classifications within the Existing and Projected Development Areas. Each zoning district has a maximum allowable development density that corresponds to an average number of REUs per acre. The assumed development densities used in this study are presented in Table 1.

Table 1 - Development Densities		
Zoning Classification	Abbreviation	REU / Acre
Single Family Residential 1	SFR1	4.0
Single Family Residential 2	SFR2	5.8
Low Density Residential	LR	1.0
Multiple Family Residential	MR	5.0
General Commercial District	GC	2.5
Highway Commercial District	GI	2.5
Limited Industrial District	HC	2.5
Planned Shopping Center	LI	2.5
Research / Technology / Manufacturing	RTM	2.5

The development density of 2.5 REU per acre for commercial, industrial, and RTM zoning is based on current development trends in neighboring townships.

In determining REUs for large single-family zoned residential projects, it is assumed that twenty-five percent (25%) of the total acreage available will be utilized for roads, easements, and storm water runoff areas, leaving seventy-five percent (75%). However, for the purposes of this study, an additional factor of seventy percent (70%) has been applied as the maximum allowable development density for the remaining acreage in the residential zoned projects. This percentage has been applied to account for portions of the land in the study area that cannot be built upon due to poor soil conditions, wetlands, or other land constraints. Computation of REUs on a typical 20-acre single-family residential zoned parcel is shown below.

Example

$$\text{Maximum Development Density} = 20\text{-acres} \times 2 \text{ REU / acre} \times 75\% \times 70\% = 21 \text{ REU}$$

For commercial, industrial, and multiple-family zoned parcels, only the seventy percent (70%) factor has been applied as the maximum allowable development density for the total acreage of the parcel. As with the single-family parcels, this percentage has been applied to account for portions of land in the study area that cannot be built upon. Computation of REUs on a typical 20-acre commercial zoned parcel is shown below.

Example

$$\text{Maximum Development Density} = 20\text{-acres} \times 2.5 \text{ REU / acre} \times 70\% = 35 \text{ REU}$$

Using the development densities in Table 1 and the seventy percent development assumption, the number of REUs and designed wastewater flows in the projected development areas are presented in Table 2.

Table 2					
REU Projection & Design Wastewater Flows					
Development Area	Total Acres	REU Projection	Average Day Demand (gallons)	Max Day Demand (gallons)	Peak Hour Demand (gallons)
Wildwood Lake	258	540	140,000	280,000	491,000
Seven Mile	234	490	127,000	254,000	446,000
Kelly	282	600	156,000	312,000	546,000
High School	82	120	31,000	62,000	109,000
Six Mile Commercial	13	30	8,000	16,000	27,000
US-23 Service Rd Commercial	26	50	13,000	26,000	46,000
US-23 Service Rd Residential	17	50	13,000	26,000	46,000
Grand Sakwa Ph I	212	470	122,000	244,000	428,000
Whitmore Lake Rd Commercial	71	130	34,000	68,000	118,000
Nollar Road Commercial	58	110	29,000	58,000	100,000
Nollar Road Residential	9	10	3,000	6,000	9,000
Whitmore Lake Rd Industrial	610	2450	637,000	1,274,000	2,230,000
Whitmore Lake Rd Residential	26	50	13,000	26,000	46,000
Northfield Church RTM-A	360	630	164,000	328,000	573,000
Northfield Church RTM-B	145	260	68,000	136,000	237,000
Northfield Church RTM-C	616	1080	281,000	562,000	983,000
Totals	2,761	7,070	1,839,000	3,678,000	6,435,000

The values in Table 2 have been used to determine the size of new sanitary sewer improvements as well as upgrades of existing infrastructure. The infrastructure improvement requirements are discussed in the *Analysis of Alternatives*.

ANALYSIS OF ALTERNATIVES

The areas of potential sanitary sewer service within Northfield Township for the purpose of this study have been divided service districts within the Whitmore Lake and North Territorial vicinities. Within the Whitmore Lake vicinity, there are four service districts identified, which are the locations of the infrastructure improvements necessary to provide sanitary sewer service to the Wildwood, Seven Mile, and Whitmore Lake High School Development Areas. While sanitary sewer service is not shown extended to the Kelly Development Area, as the land is not expected to be developed in the next twenty years, sanitary sewer infrastructure improvements for the purpose of this study have been sized to accommodate sewage from this area should it become developable. The conceptual locations of new sanitary sewer transmission mains for the Whitmore Lake Vicinity are shown in *Figure 6*.

Within the North Territorial vicinity, there are also three service districts identified, which are the locations of the infrastructure improvements necessary to provide sanitary sewer service to the 6 Mile, US-23 Service Road Commercial and Residential, Grand Sakwa Phase I, Whitmore Lake Commercial, and Nollar Road Commercial and Residential Development Areas. The conceptual locations of new sanitary sewer transmission mains for the North Territorial vicinity are shown in *Figure 7*.

The Whitmore Lake Road Industrial, Whitmore Lake Residential, and Northfield Church Road RTM A, B, and C Development Areas that have been identified by the Township are in the Northfield Church Road vicinity and would discharge to existing sanitary sewer in the North Territorial SAD, but conceptual locations of new sanitary sewer transmission mains have not been provided as part of this study. At projected growth rates, these areas are not anticipated to experience development levels in the next twenty years sufficient to support the construction costs of extending sanitary sewer service.

Whitmore Lake Vicinity

The Wildwood Lake, Seven Mile, Kelly, and Whitmore Lake High School Development Areas are located within the Whitmore Lake vicinity and will require four service districts to accommodate development. The four districts represent approximately 885-acres of land and have the potential to generate 2,430 ultimate REUs if developed to maximum density. Though it is not anticipated that the Kelly Development Area will be developed in the next twenty years, gravity sewer infrastructure improvements have sized to accommodate future flows from this area. Detailed opinions of probable project cost for each service district are shown in Appendix C.

- **Service District 1** (*Figure 8*) – this area includes the replacing the existing 18-inch gravity sewer between Barker Road and the Eight Mile Pump Station with 24-inch pipe. The upgrade of this pipe is necessary to accommodate additional flow from the Wildwood Lake, Seven Mile, and Kelly Development Areas. The conceptual opinion of probable project cost for Service District 1 is \$860,000.
- **Service District 2** (*Figure 9*) – this area includes constructing new 8-inch sanitary sewer lines along Jennings Roads to service the Wildwood Lake Development Area. The new pipe will connect to existing 8-inch and 10-inch sewer lines. Additionally, approximately 350-linear feet of existing 10-inch line on Barker Road will be replaced with 12-inch sewer. Routing a portion of the flow through the North Pointe Community's existing 8-inch sewer line reduces the overall project cost of providing sanitary sewer service and still accommodates the anticipated 540 REUs from the Wildwood Lake Development Area. The conceptual opinion of probable project cost for Service District 2 is \$780,000.

- **Service District 3** – this area includes constructing new 8-inch sanitary sewer lines along 7 Mile Road to service the Seven Mile Development Area. Flow from the Kelly Development Area beyond twenty years will be routed through the existing Eagle Gardens development sanitary sewer, which will require upgrading the Eagle Gardens Pump Station at that time. Additional sewer capacity along East Shore Drive and Barker Road between US-23 and Seven Mile Road will also be required to accommodate the ultimate 1,210 REUs from the Seven Mile Development Area, the Kelly Development Area, and Green Oak Township. There are several options available to Northfield Township to upgrade the existing sanitary sewer routes along East Shore Drive and Barker Road.

Option A (*Figure 10*) – replace existing 12-inch sewer along East Shore Drive with 15 and 18-inch pipe, and replace existing 18-inch sewer between the railroad and US-23 with 21-inch pipe. East Shore Pump Station #1 will be upgraded to an 850-gpm firm pumping capacity. The conceptual opinion of probable construction cost for this option is \$4,290,000.

Option B (*Figure 11*) – replace existing 12-inch sewer along East Shore Drive between Seven Mile Road and the East Shore Pump Station #1 with 15-inch pipe. East Shore Pump Station #1 will be upgraded to an 850-gpm firm pumping capacity. The pump station will discharge sewage through a new 8-inch force main that will be directionally drilled along East Shore Drive to Whitmore Lake Road. The force main will discharge to replacement 18 and 21-inch sewer. The existing 12-inch sewer along East Shore Drive between the East Shore Pump Station and Whitmore Lake Road will remain in place to provide continued service to existing customers. The conceptual opinion of probable construction cost for this option is \$3,030,000.

Option C (Figure 12) – construct a new pump station with an 850-gpm firm pumping capacity to collect flow from the Seven Mile Development Area and Green Oak Township near the intersection of Seven Mile Road and East Shore Drive. A new 8-inch force main will be installed along East Shore Drive from Seven Mile Road to Whitmore Lake Road. The force main will discharge to replacement 18 and 21-inch sewer. The existing 12-inch sewer and East Shore Pump Station # 1 along East Shore Drive to Whitmore Lake Road will remain in place to provide continued service to existing customers. The conceptual opinion of probable construction cost for this option is \$2,300,000.

- **Service District 4 (Figure 13)** – this area includes constructing new 8-inch gravity sewer from the existing sewer line at the intersection of Coyle and 6 Mile Roads approximately 1,600 linear feet to the property of the proposed Whitmore Lake High School. The proposed high school is expected to have approximately 1,200 students and generate 120 REU. The Whitmore Lake Pump Station has sufficient capacity to accommodate the additional flow from the proposed school. The conceptual opinion of probable project cost for Service District 4 is \$350,000.

Eight Mile Pump Station Upgrade Requirements

The Eight Mile Pump Station will be modified to accept flow only from the Whitmore Lake vicinity, including the Wildwood Lake, Seven Mile, Kelly, and Whitmore Lake High School Development Areas. Assuming the additional REU demand from the new areas, the peak hour flow to the pump station from the Whitmore Lake vicinity will be approximately 2,830-gpm, while the existing firm pumping capacity of the station is 3,300-gpm. This additional flow, combined with the anticipated flow from the North Territorial Vicinity that currently discharges to the Eight Mile Pump Station, will exceed the Eight Mile Pump Station firm pumping capacity. Modifications to the pump station to increase capacity will include transporting sewage flow directly from the North Territorial Pump Station to the WWTP by extending its existing force main. The Whitmore Lake vicinity sewage flow will eventually exceed the capacity of the single 12-inch force main between the Eight Mile Pump Station and the WWTP. When the total dynamic head within the 12-inch force main exceeds the Eight Mile Pump Station's ability to transport the sewage flow, an additional 3,200 linear feet of 16-inch force main will need to be installed parallel to the existing 12-inch. There is an existing 8-inch force main installed parallel to the existing 12-inch, but due to its age and as it has been out of service for approximately 12 years, it is likely that it will be unsuitable for further use. The conceptual opinion of probable project cost for the Eight Mile Pump Station Upgrade is \$600,000.

North Territorial Vicinity

The seven development areas located within the North Territorial vicinity and will require three construction projects to accommodate development. The seven areas represent approximately 550-acres of land and have the potential to generate 850 REUs if developed to the seventy percent of maximum density allowed per zoning. Detailed conceptual opinions of probable project cost for each construction project are shown in Appendix C.

- **Service District 5** (*Figure 14*) – this area includes constructing new 12-inch sewer along 5 Mile and Whitmore Lake Roads. The new 12-inch sewer will connect to existing 15-inch gravity line and flow to the North Territorial Pump Station. The construction of this pipe is necessary to accommodate additional flow of 600 REU from the Grand Sakwa Phase I and Whitmore Lake Road Commercial Development Area. The conceptual opinion of probable project cost for Service District 5 is \$1,180,000.
- **Service District 6** (*Figure 15*) – this area includes constructing a low-pressure sewer from the US-23 Service Road Commercial and Residential Development Area, as well as a portion of the 6 Mile Commercial District. The new low-pressure system will discharge additional 115 REU flow to an existing 8-inch gravity sewer and flow to the North Territorial Pump Station. The conceptual opinion of probable construction cost for Service District 6 is \$530,000.
- **Service District 7** (*Figure 16*) – this area includes constructing 21-inch gravity sewer along North Territorial Road to and south along Nollar Road, with an 8-inch branch line to accommodate additional flow of 120 REU from the Nollar Road Commercial and Residential Development Area. The conceptual opinion of probable construction cost for Service District 7 is \$840,000.

North Territorial Pump Station Upgrade Requirements

This pump station has been designed to accommodate flow from the North Territorial Phase I SAD only. As only one 12-inch force main was installed at the time of construction, any flow over 700-gpm, the current firm pumping capacity of the station, will generate head conditions that exceed the pump's operating range. Installation of a second parallel 12-inch force main will raise the capacity of the pump station to 1,400-gpm.

The North Territorial SAD is expected to generate 390,000 gallons (1,500 REU) of average day sewage flow, or a peak hour flow of 950-gpm. As the existing single 12-inch force main can only accommodate 700-gpm of flow, when the firm pumping capacity of the North Territorial Pump Station is reached, an upgrade of an additional 700-gpm pump and 21,000 linear feet of 12-inch force main will be required. The conceptual opinion of probable cost for this upgrade is \$2,280,000.

The additions of Six Mile, US-23 Service Road Commercial and Residential, Grand Sakwa Phase I, Whitmore Lake Commercial, and Nollar Road Commercial and Residential Development Areas are expected to generate another 221,000 gallons (850 REU) of average day sewage flow, or a peak hour flow of 540-gpm. The total sewage flow from the North Territorial SAD and the new development areas is 1,490-gpm, which is 90-gpm (140 REU) over the ultimate firm pumping capacity of the North Territorial Pump Station. Any development beyond the 1,500 REU allocated to the North Territorial SAD and 710 REUs from the new development areas will require a new pump station.

When sewage flow from the North Territorial Pump Station exceeds the firm pumping capacity of the Eight Mile Pump Station, the sewage flow from the North Territorial Pump Station will be diverted directly to the WWTP. This will be accomplished by combining the flows from the parallel 12-inch force main with a single 16-inch force main, approximately 3,200 linear feet long. To provide additional pumping capacity to accommodate the an equalization basin that will be part of the expansion of the

** Preliminary Submittal **

Northfield WWTP, modifications to the pump impellers at the North Territorial Pump Station made be required as well. The conceptual opinion of probable cost for this upgrade is \$670,000. The combined conceptual opinion of probable cost for all the North Territorial Pump Station upgrades is \$2,950,000.

RECOMMENDATION

It is recommended that Northfield Township pursue improvements to the sanitary sewer system that encompass both expansion of new infrastructure and increasing capacity of existing infrastructure. Due to the uncertainty regarding location and timing of new development in the Whitmore Lake and North Territorial vicinities, it is also recommended infrastructure improvements be examined during the design phase not only for the sewage flows from the immediate development areas, but that they also be examined and designed to accommodate the likelihood of additional significant flow from potential adjacent development areas. While over-sizing infrastructure for potential development in the future will represent a higher initial capital cost for the various projects identified, that cost would be less than replacing the new infrastructure or installing additional sewer lines later when future development arrives.

Whitmore Lake Vicinity

It is recommended that several sections of existing sanitary sewer infrastructure in the Whitmore Lake vicinity be upgraded before additional developments are permitted to connect to the sanitary sewer system. Due to the level of existing sewage flow as well as the inflow and infiltration susceptibility of the existing sanitary sewer infrastructure, the sewers have the potential to experience backups due to exceeded capacity in the 25-year or greater rain event. Upgrades of existing sanitary sewer infrastructure as detailed in Service Districts 1, 2, and 4, as well as Option C of Service District 3, should be considered as new development in the Whitmore Lake vicinity arrives. Additionally, the sewage flow rate at the Eight Mile Pump Station should be monitored as additional developments are included to the sanitary sewer system. When the firm pumping capacity of the pump station is reached, sewage flow from the North Territorial vicinity will need to be diverted from the pump station directly to the Northfield WWTP. An increase in sanitary sewage flow from the Whitmore Lake vicinity will require an expansion of the Northfield WWTP.

North Territorial Vicinity

It is recommended that the existing sanitary sewer infrastructure be extended in the North Territorial vicinity as additional developments are permitted to connect to the sanitary sewer system. Extensions of the existing sanitary sewer infrastructure as detailed in Service Districts 5, 6, and 7 should be considered as new development in the North Territorial vicinity arrives. When the existing firm pumping capacity of the North Territorial Pump Station is reached, the pump station will require the upgrade of an additional pump and an additional parallel force main to the Northfield WWTP.

Northfield Wastewater Treatment Plant

The existing Northfield WWTP processes an average flow of 800,000 gallons per day and has a treatment capacity of 1,300,000 gallons per day. An additional 390,000 gallons per day of sewage flow is expected from the North Territorial SAD as development increases. Sewage flows from the additional service areas in the Whitmore Lake and North Territorial vicinities have the potential to generate an additional average flow of 680,000 gallons per day, which totals 1,870,000 gallons per day of existing and potential sewage flow to the WWTP. As the inclusion of the majority of the new service areas identified in the Whitmore Lake and North Territorial vicinities to the sanitary sewer system will require exceed capacity at the Northfield WWTP, we recommend its expansion. We further recommend that Northfield Township monitor development in the development areas identified in the Northfield Church Road vicinity. While sanitary sewage service is not anticipated in these areas in the next twenty years at anticipated growth rates, they have the potential to generate an additional average sewage flow 1,160,000 gallons per day. Inclusion of the Northfield Church Road development areas will likely require a future expansion of the Northfield WWTP beyond what is necessary to accommodate the Whitmore Lake and North Territorial vicinities.

**** Preliminary Submittal ****

APPENDIX A

**Whitmore Lake Vicinity
Conceptual Opinions of Probable Project Cost**

Service District 1

Service District 2

Service District 3 – Option A

Service District 3 – Option B

Service District 3 – Option C

Service District 4

Eight Mile Pump Station Upgrade

**** Preliminary Submittal ****

APPENDIX B

**North Territorial Vicinity
Conceptual Opinions of Probable Project Cost**

Service District 5

Service District 6

Service District 7

North Territorial Pump Station Parallel Force Main Installation

North Territorial Pump Station Force Main Extension to WWTP

APPENDIX C

Study Figures

Figure 1 – Whitmore Lake Vicinity Existing Sanitary Sewer

Figure 2 – Whitmore Lake Vicinity Existing Peak Flows & Max Pipe Capacities

Figure 3 – North Territorial Vicinity Existing Sanitary Sewer

Figure 4 – Whitmore Lake Vicinity Projected Development Areas

Figure 5 – North Territorial Vicinity Projected Development Areas

Figure 6 – Whitmore Lake Vicinity Service Districts 1 – 4

Figure 7 – North Territorial Vicinity Service Districts 5 – 7

Figure 8 – Whitmore Lake Vicinity Service District 1

Figure 9 – Whitmore Lake Vicinity Service District 2

Figure 10 – Whitmore Lake Vicinity Service District 3 – Option A

Figure 11 – Whitmore Lake Vicinity Service District 3 – Option B

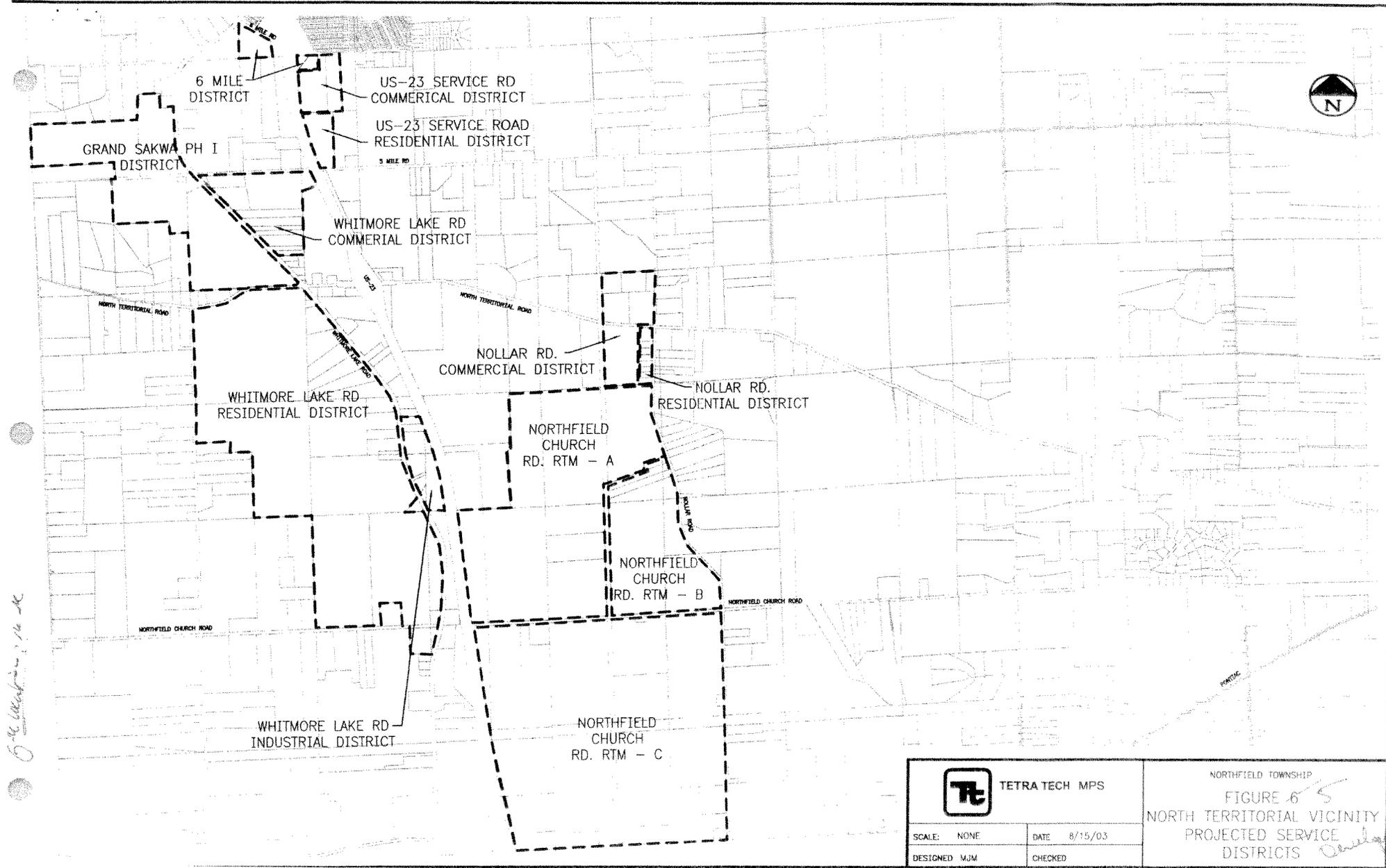
Figure 12 – Whitmore Lake Vicinity Service District 3 – Option C

Figure 13 – Whitmore Lake Vicinity Service District 4

Figure 14 – North Territorial Vicinity Service District 5

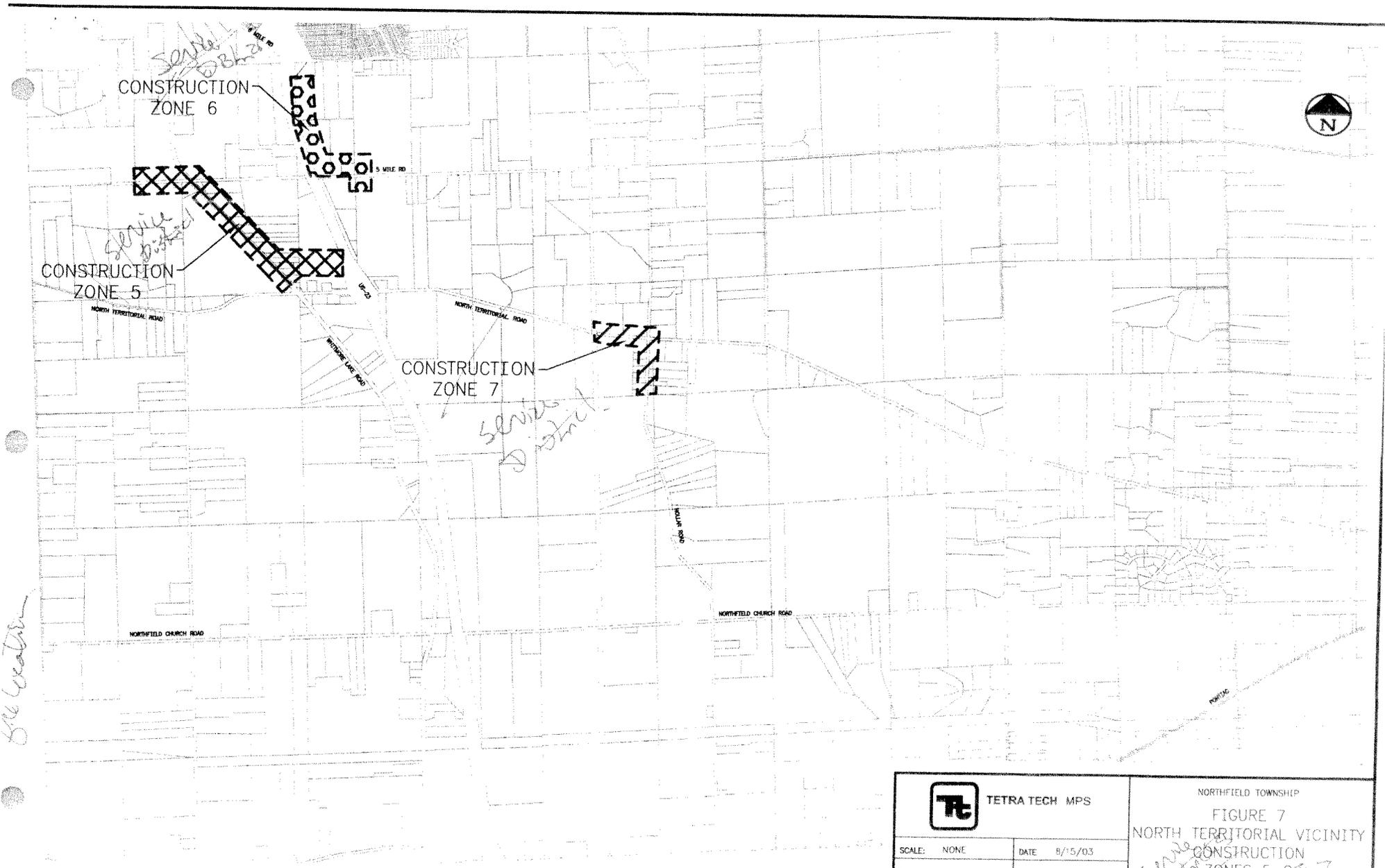
Figure 15 – North Territorial Vicinity Service District 6

Figure 16 – North Territorial Vicinity Service District 7



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 TETRA TECH MPS		NORTHFIELD TOWNSHIP FIGURE 6/5 NORTH TERRITORIAL VICINITY PROJECTED SERVICE DISTRICTS <i>Only</i>	
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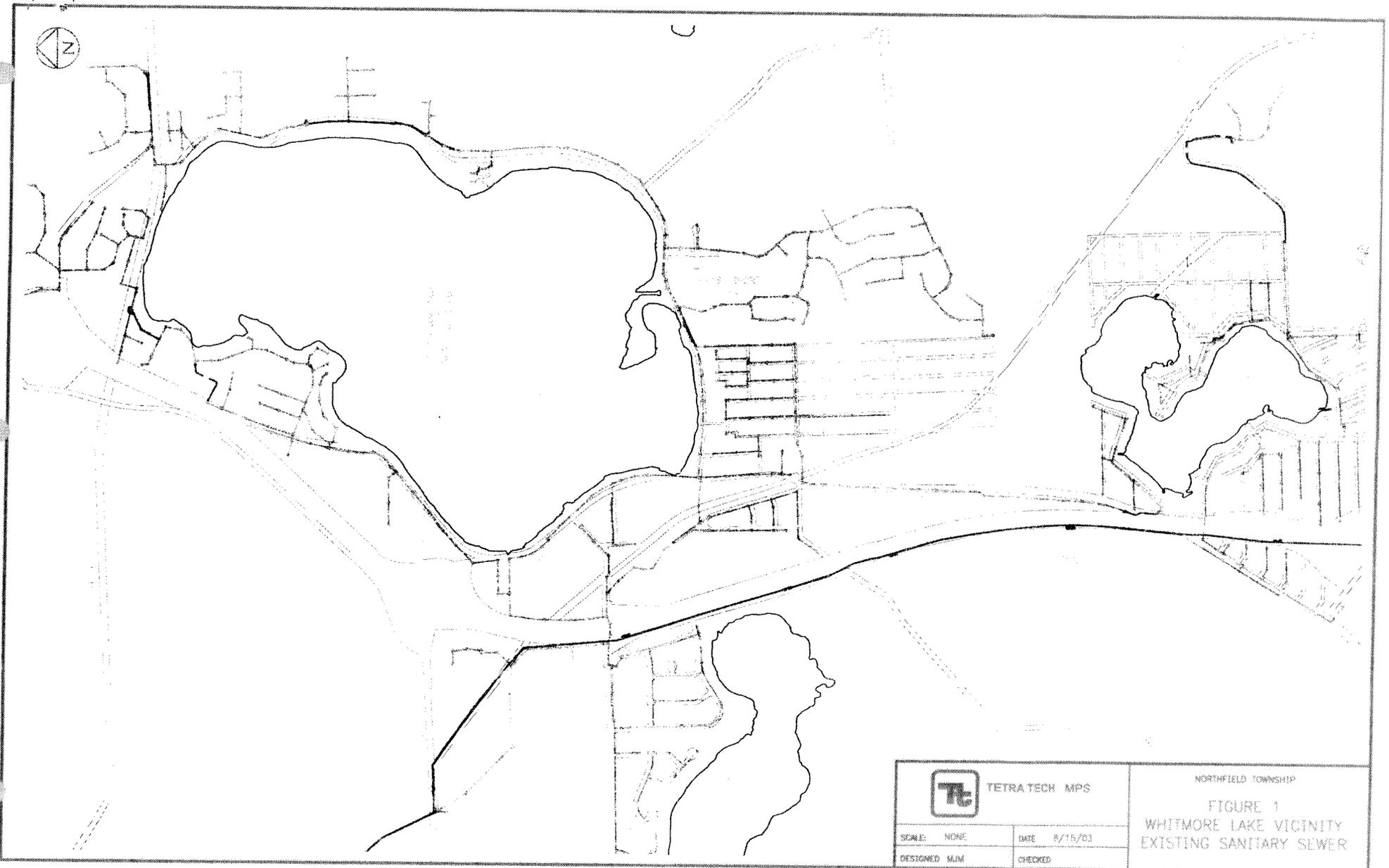


Site Location



 TETRA TECH MPS		NORTHFIELD TOWNSHIP	
		FIGURE 7 NORTH TERRITORIAL VICINITY CONSTRUCTION ZONES 5-8	
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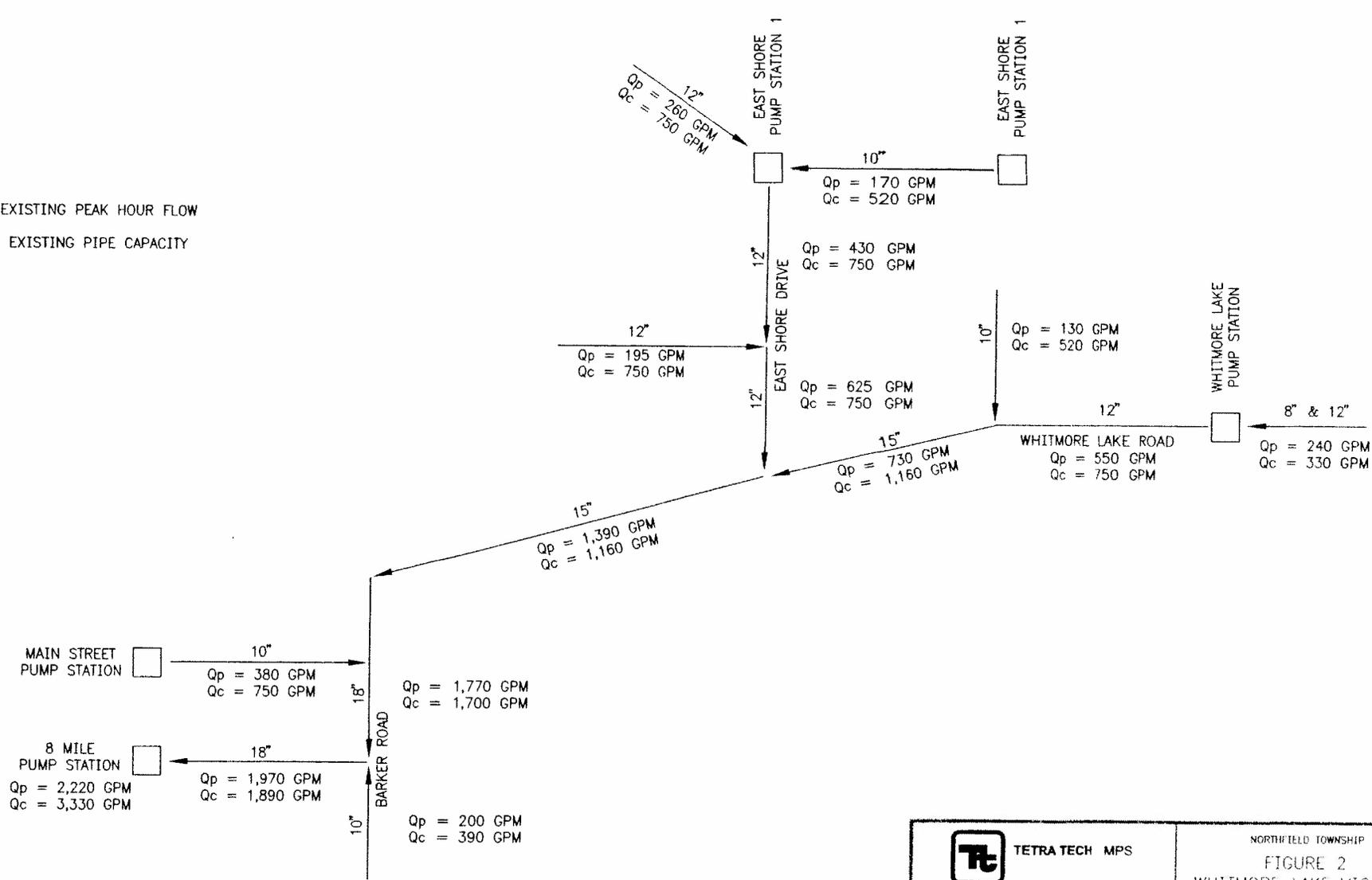


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SCALE: NONE		DATE 8/15/03	
DESIGNED MJM		CHECKED	

FIGURE 1
WHITMORE LAKE VICINITY
EXISTING SANITARY SEWER



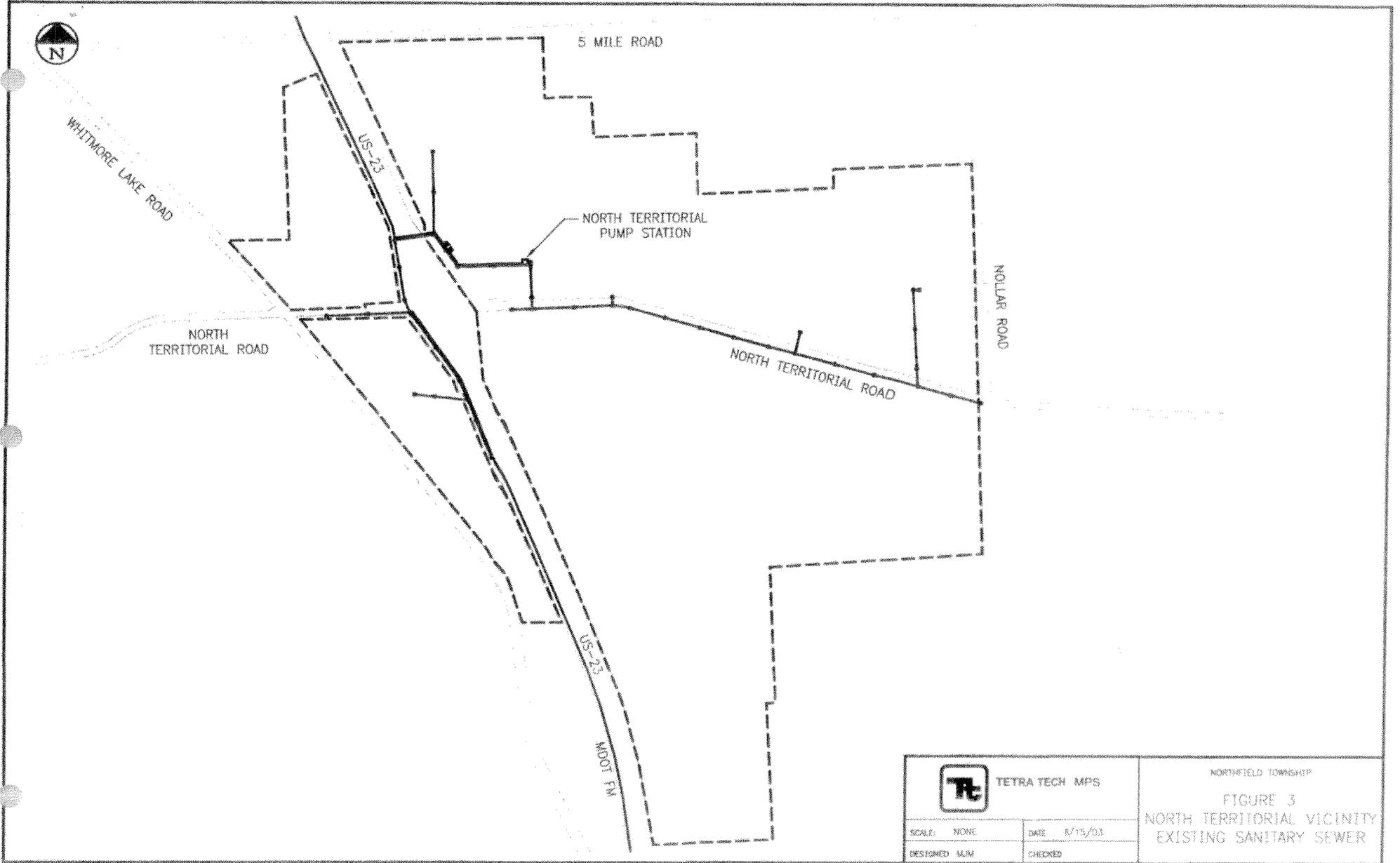
Qp = EXISTING PEAK HOUR FLOW
Qc = EXISTING PIPE CAPACITY



 TETRA TECH MPS		NORTHFIELD TOWNSHIP	
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FIGURE 2
WHITMORE LAKE VICINITY
EXISTING PEAK FLOWS &
MAXIMUM PIPE CAPACITY

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NORTHFIELD TOWNSHIP

FIGURE 3
 NORTH TERRITORIAL VICINITY
 EXISTING SANITARY SEWER



7 MILE DISTRICT

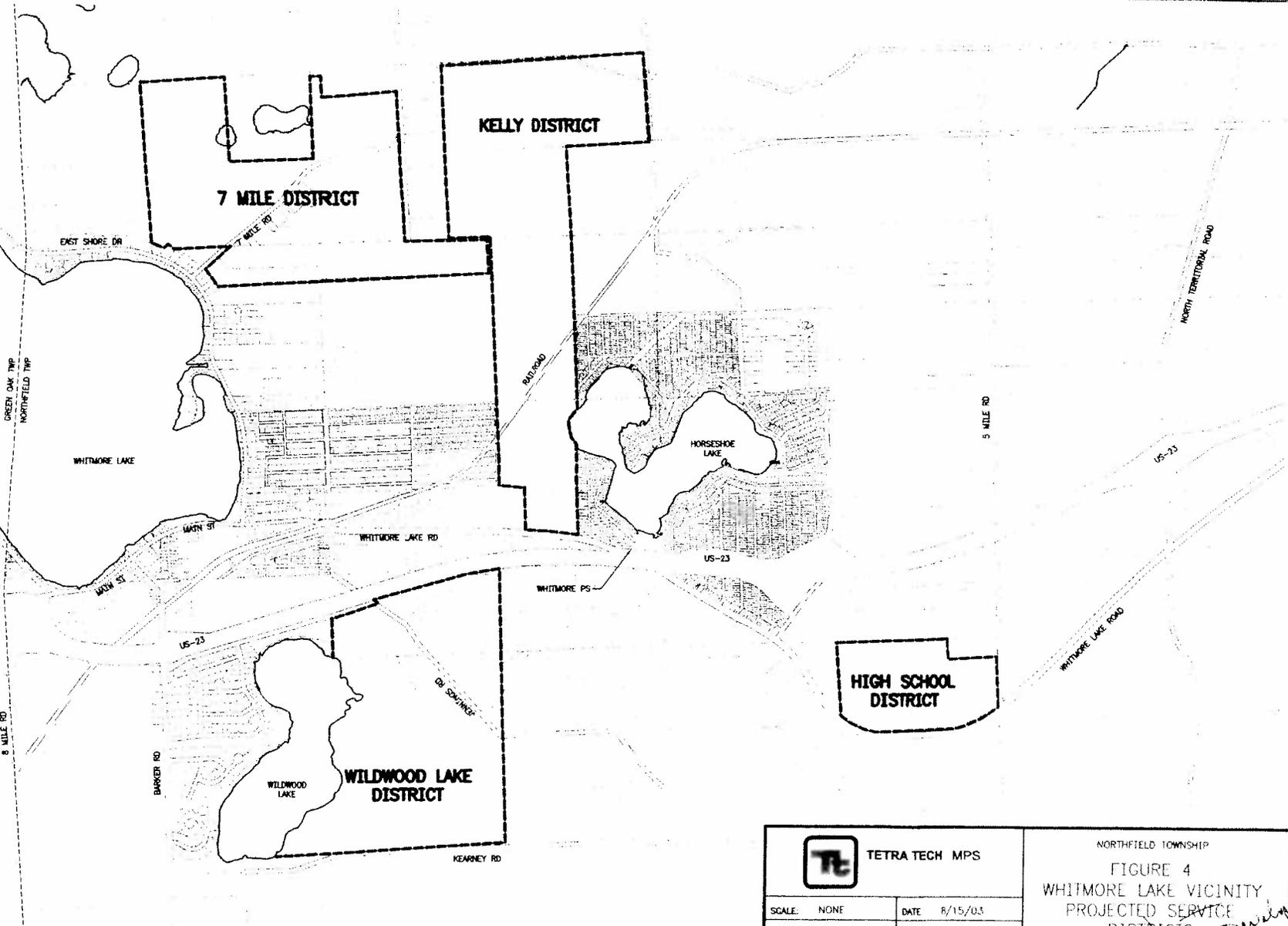
KELLY DISTRICT

WHITMORE LAKE

HORSESHOE LAKE

HIGH SCHOOL DISTRICT

WILDWOOD LAKE DISTRICT



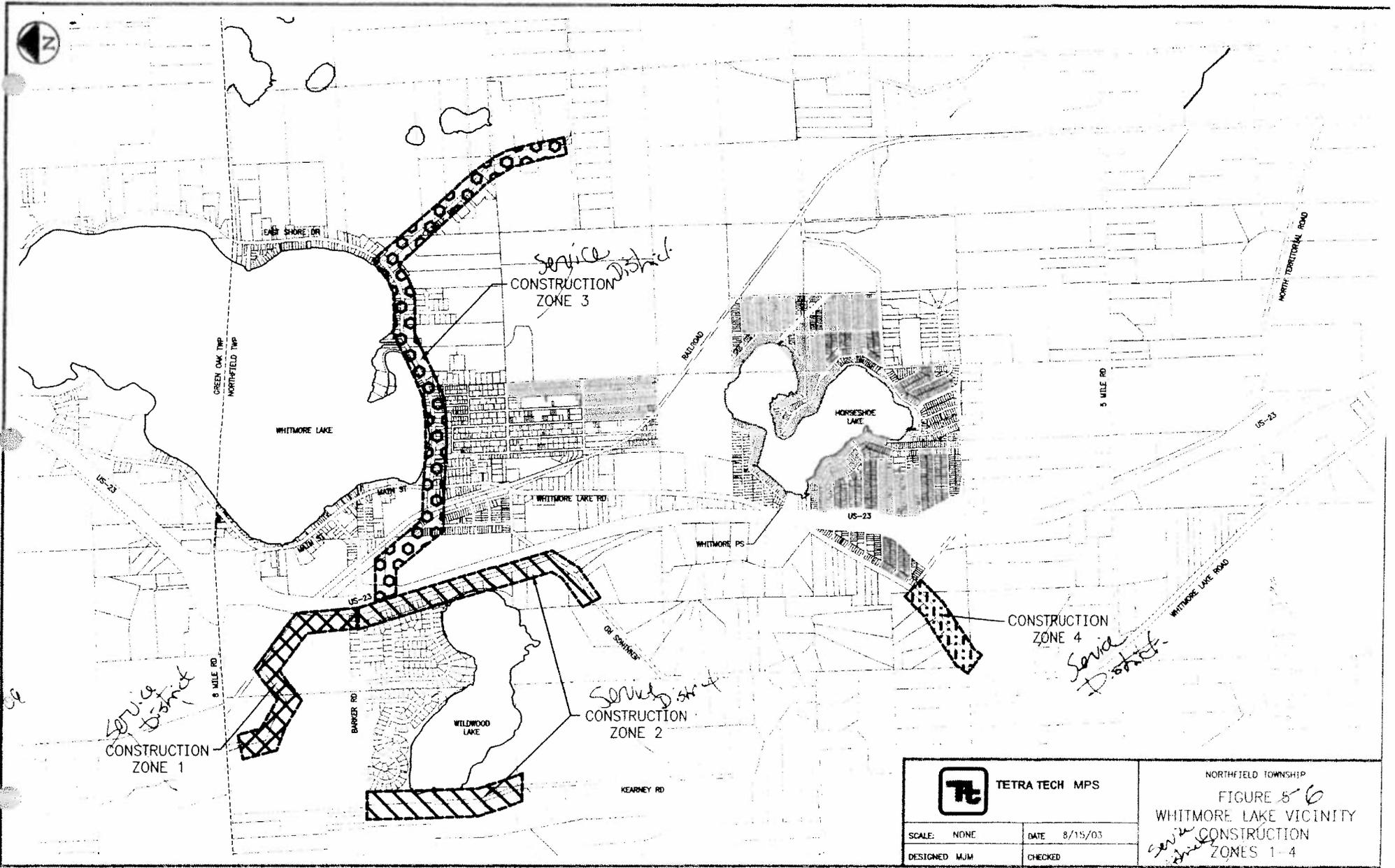
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NORTHFIELD TOWNSHIP

FIGURE 4
WHITMORE LAKE VICINITY
PROJECTED SERVICE
DISTRICTS

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 TETRA TECH MPS		NORTHFIELD TOWNSHIP FIGURE 5-6 WHITMORE LAKE VICINITY CONSTRUCTION ZONES 1-4	
SCALE: NONE	DATE: 8/15/03	<i>Service District</i>	
DESIGNED: MJM	CHECKED:		



TO NORTHFIELD WWTP

FM

8 MILE RD

8 MILE PS

FM

RAILROAD

24"

US-23

CONSTRUCTION_ZONE_1

REPLACE EXISTING 18-INCH GRAVITY SEWER WITH 24-INCH GRAVITY SEWER. THIS SEWER MAIN WILL SERVICE EXISTING FLOW AND FUTURE FLOW FROM DISTRICTS 1, 2, 3 AND 4.

MOBILE HOME PARK

24"

FM

BARKER RD

LEGEND

- EXISTING GRAVITY 
- UPSIZED GRAVITY 
- EXISTING FM 



TETRA TECH MPS

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DATE 8/15/03

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NORTHFIELD TOWNSHIP

FIGURE 8
WHITMORE LAKE VICINITY
CONSTRUCTION_ZONE_1

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MOBILE HOME PARK



BARKER RD

10"

US-23

8"

WILDWOOD LAKE

KEARNEY RD

8"

JENNINGS RD

12" FM

CONSTRUCTION ZONE 2

INSTALL NEW 8-INCH GRAVITY SEWER ALONG JENNINGS & KEARNEY ROAD. TIE INTO EXISTING 8-INCH AND 10-INCH SEWERS. REPLACE 350-LF SECTION OF 10-INCH WITH 12-INCH SEWER TO ACCOMMODATE FUTURE FLOW FROM DISTRICT 1.

LEGEND

- EXISTING GRAVITY 
- UPSIZED GRAVITY 
- EXISTING FM 



TETRA TECH MPS

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DATE 8/15/03

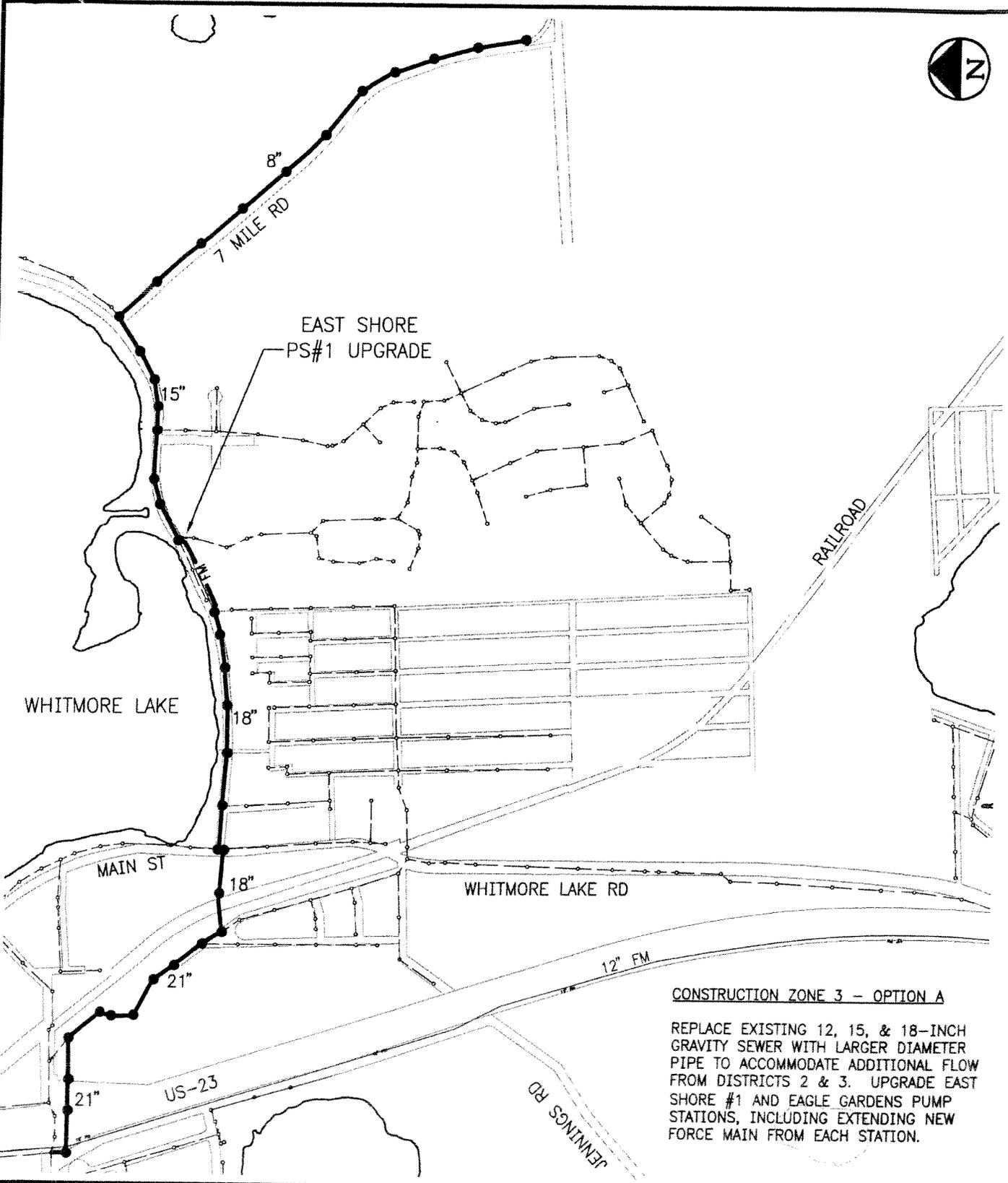
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NORTHFIELD TOWNSHIP

FIGURE 9
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 2

Figure 9: Figure 9.dwg



CONSTRUCTION ZONE 3 - OPTION A
 REPLACE EXISTING 12, 15, & 18-INCH GRAVITY SEWER WITH LARGER DIAMETER PIPE TO ACCOMMODATE ADDITIONAL FLOW FROM DISTRICTS 2 & 3. UPGRADE EAST SHORE #1 AND EAGLE GARDENS PUMP STATIONS, INCLUDING EXTENDING NEW FORCE MAIN FROM EACH STATION.

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LEGEND	
EXISTING GRAVITY	
UPSIZED GRAVITY	
EXISTING FM	
EXISTING FM	

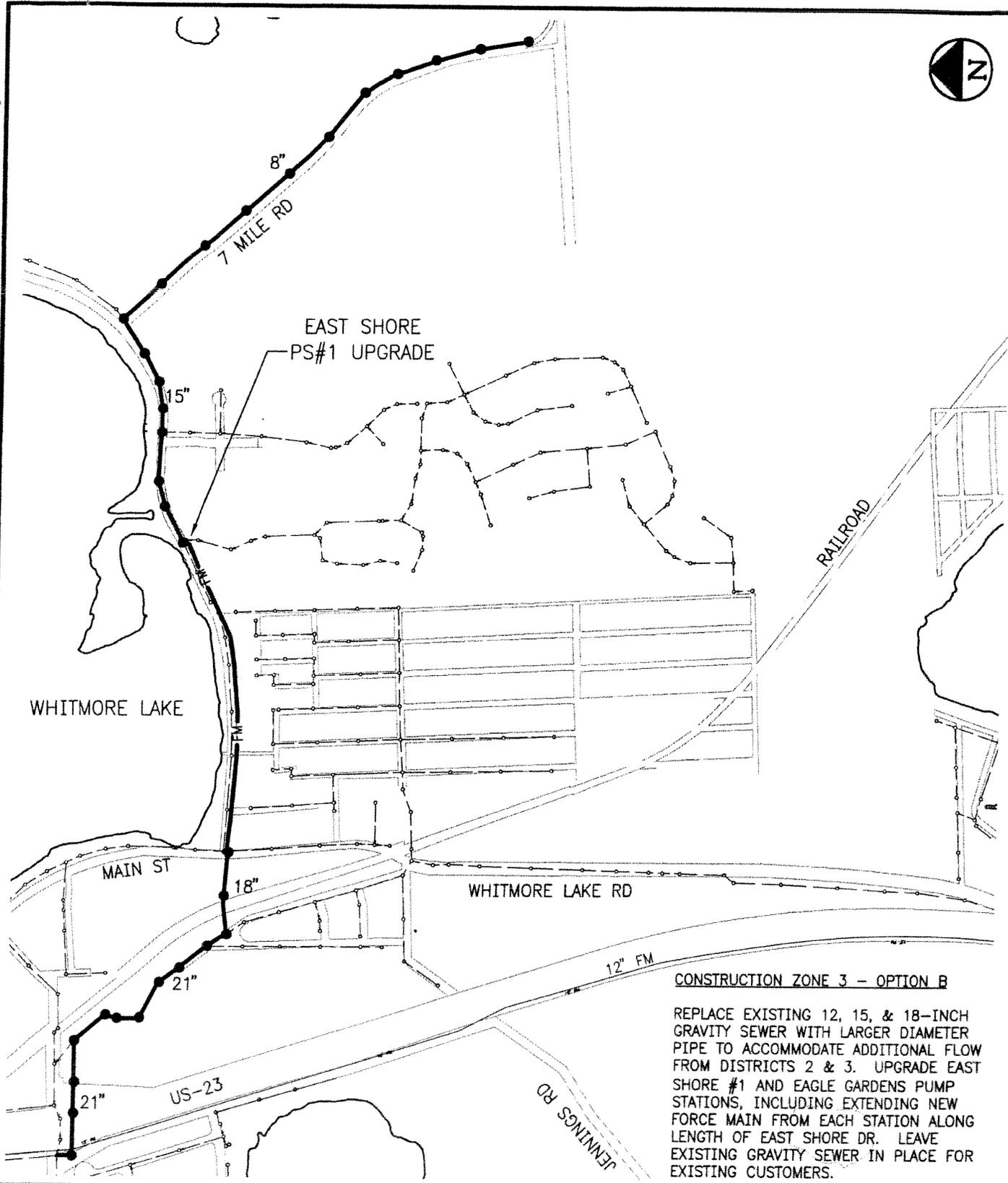


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NORTHFIELD TOWNSHIP

FIGURE 10
 WHITMORE LAKE VICINITY
 CONSTRUCTION ZONE 3
 OPTION A



CONSTRUCTION ZONE 3 - OPTION B

REPLACE EXISTING 12, 15, & 18-INCH GRAVITY SEWER WITH LARGER DIAMETER PIPE TO ACCOMMODATE ADDITIONAL FLOW FROM DISTRICTS 2 & 3. UPGRADE EAST SHORE #1 AND EAGLE GARDENS PUMP STATIONS, INCLUDING EXTENDING NEW FORCE MAIN FROM EACH STATION ALONG LENGTH OF EAST SHORE DR. LEAVE EXISTING GRAVITY SEWER IN PLACE FOR EXISTING CUSTOMERS.

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LEGEND	
EXISTING GRAVITY	
UPSIZED GRAVITY	
EXISTING FM	
EXISTING FM	

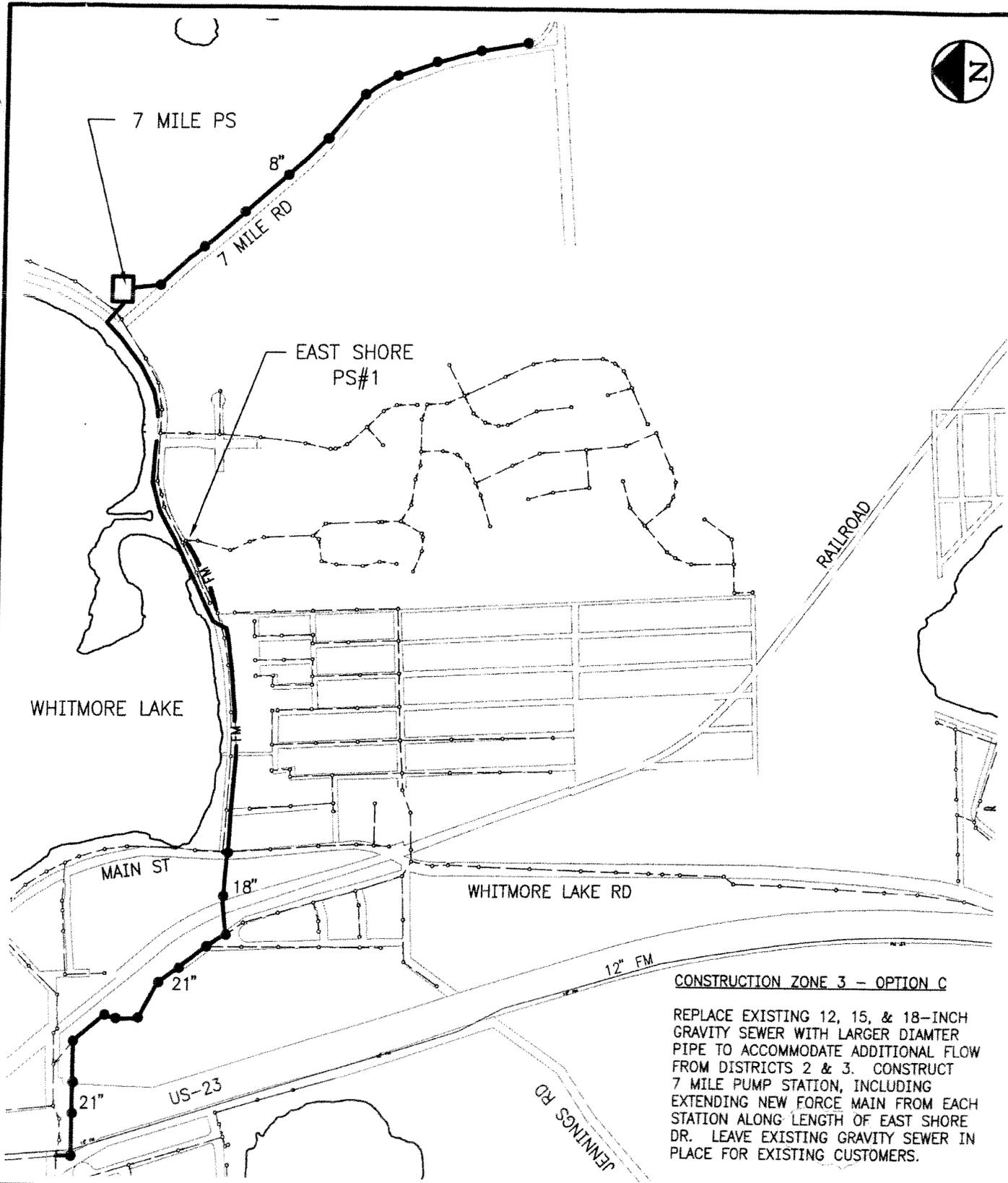


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NORTHFIELD TOWNSHIP

FIGURE 11
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 3
OPTION B



CONSTRUCTION ZONE 3 - OPTION C

REPLACE EXISTING 12, 15, & 18-INCH GRAVITY SEWER WITH LARGER DIAMETER PIPE TO ACCOMMODATE ADDITIONAL FLOW FROM DISTRICTS 2 & 3. CONSTRUCT 7 MILE PUMP STATION, INCLUDING EXTENDING NEW FORCE MAIN FROM EACH STATION ALONG LENGTH OF EAST SHORE DR. LEAVE EXISTING GRAVITY SEWER IN PLACE FOR EXISTING CUSTOMERS.

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LEGEND	
EXISTING GRAVITY	
UPSIZED GRAVITY	
EXISTING FM	
EXISTING FM	



TETRA TECH MPS

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NORTHFIELD TOWNSHIP

FIGURE 12
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 3
OPTION C



HORSESHOE LAKE

WHITMORE PS

US-23

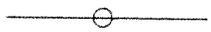
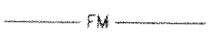
WHITMORE LAKE RD

PROPOSED WHITMORE LAKE HIGH SCHOOL

CONSTRUCTION ZONE 4

EXTEND NEW 8-INCH GRAVITY SEWER
APPROXIMATELY 1,600-LF ALONG
WHITMORE LAKE ROAD TO THE PROPOSED
WHITMORE LAKE HIGH SCHOOL SITE.

LEGEND

- EXISTING GRAVITY 
- UPSIZED GRAVITY 
- EXISTING FM 
- FM 



TETRA TECH MPS

SCALE: NONE
DESIGNED MJM

DATE 8/15/03
CHECKED

NORTHFIELD TOWNSHIP

FIGURE 13
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 4

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WHITMORE LAKE RD

PROPOSED WHITMORE LAKE HIGH SCHOOL

US-23

5 MILE RD

12"

NORTH TERRITORIAL PUMP STATION

12"

POTENTIAL COMMERCIAL DEVELOPMENT

PROPOSED GRAND SAKWA DEVELOPMENT

12"

US-23

NORTH TERRITORIAL RD

CONSTRUCTION ZONE 5

EXTEND 12-INCH GRAVITY SEWER ALONG WHITMORE LAKE ROAD TO ACCOMMODATE FUTURE FLOW FROM DISTRICTS 8 & 9.

Urban Terr.

LEGEND

- EXISTING GRAVITY 
- UPSIZED GRAVITY 
- EXISTING FM 



TETRA TECH MPS

SCALE: NONE

DATE 8/15/03

DESIGNED MJM

CHECKED

NORTHFIELD TOWNSHIP

FIGURE 14
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 5

SD



RE

US-23

FM

5 MILE RD

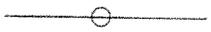
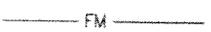
12" FM

NORTH TERRITORIAL PUMP STATION

POTENTIAL COMMERCIAL DEVELOPMENT

US-23

LEGEND

- EXISTING GRAVITY 
- UPSIZED GRAVITY 
- EXISTING FM 



TETRA TECH MPS

SCALE: NONE

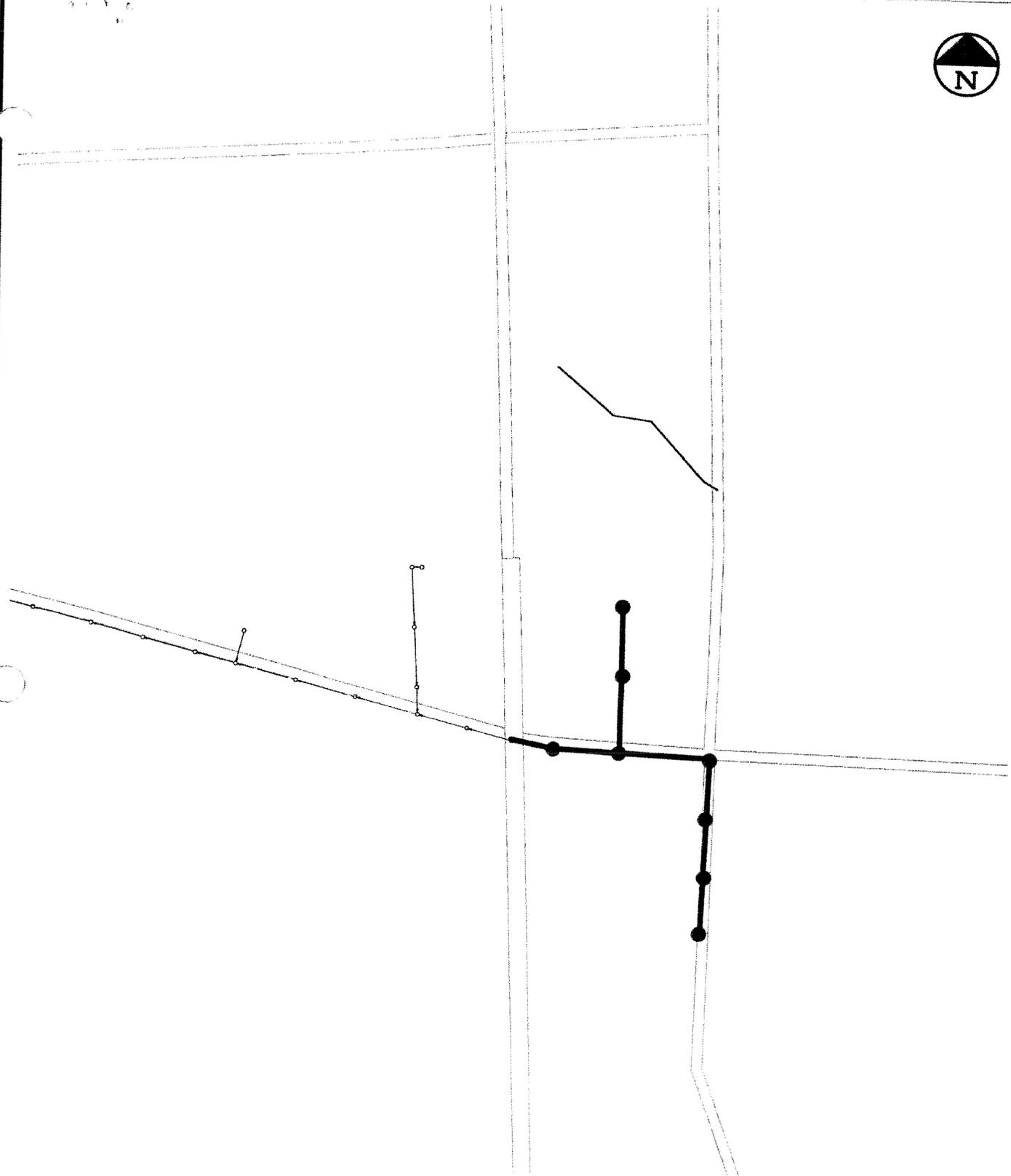
DATE 8/15/03

DESIGNED MJM

CHECKED

NORTHFIELD TOWNSHIP

NT
FIGURE 15
WHITMORE LAKE VICINITY
CONSTRUCTION ZONE 6



LEGEND

- EXISTING GRAVITY ——— ○ ———
- UPSIZED GRAVITY ——— ● ———
- EXISTING FM ——— FM ———



TETRA TECH MPS

SCALE: NONE

DATE 8/15/03

DESIGNED MJM

CHECKED

NORTHFIELD TOWNSHIP

NT. FIGURE 16
WHITMORE LAKE VICINITY
~~CONSTRUCTION~~ ZONE 7
SD1



TETRA TECH, INC.

123 Brighton Lake Road, Suite 203, Brighton, MI 48116
Telephone: 810.220.2112
Fax: 810.220.0094

FAX

Date: November 16, 2005

Number of pages (including this page): 5

(If you do not receive all pages, call (810) 220-2112)

To: Mr. Michael Cicchella, Supervisor & Northfield Township Board

Company: Northfield Township

Fax Number: 734.449.0123

From: Donald E. Lund, P.E., President

Phone Number: (810) 220-2112 Fax Number: (810) 220-0094

Subject: Northfield Township, MI, WWTP Improvements, Opinion of Probable Project Cost

Project Number:

REMARKS:

- Urgent
- For your review
- Reply ASAP
- Please comment

Please find attached the above referenced information. Hard copies will follow in the mail. Thank you.



TETRA TECH, INC.

November 15, 2005

Mr. Michael Cicchella, Supervisor
& Northfield Township Board
Northfield Township
75 Barker Road
P.O. Box 576
Whitmore Lake, MI 48189-0576

**Re: Northfield Township, MI
WWTP Improvements
Opinion of Probable Project Cost**

Dear Board Members:

Please find attached our opinion of probable project cost for the proposed WWTP improvements that will expand the current 1.3 mgd capacity to 2.25 mgd. These proposed improvements will provide the 780,000 gpd of additional capacity requested by Green Oak Township as well as provide for the continued growth within the currently established sewer districts in Northfield Township.

Our cost opinion for the plant expansion is \$12,617,000 which includes \$866,750 for miscellaneous work identified during our site visit and discussions with WWTP staff. A separate description and cost breakdown of those improvements are provided for your information

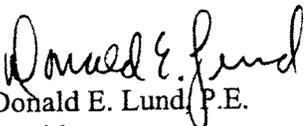
Our cost opinion is based upon an ENR index of 7875 which corresponds to a project construction mid-point of January 2007 which would require design to be initiated in the next 2-3 months which may not be realistic. We understand this schedule is dependent upon both Northfield and Green Oak Township reaching agreement on capacity and cost allocations which will take time.

These costs are being used in preparing the wastewater cost of service study which will be presented with you for review soon. This information should permit your discussions to proceed with Green Oak Township to reach agreement on capital costs for sanitary sewer service. We are available to review this information with you and to assist in your discussions with Green Oak Township about cost and schedule issues.

**Mr. Michael Cicchella, Supervisor
& Northfield Township Board
Northfield Township, MI
November 15, 2005
Page 2**

Please advise when you are available to discuss this information.

Very truly yours,


Donald E. Lund, P.E.
President

:be

Attachment

CC: Cindy Wilson
Michelle Manning
Jim Cox

K:\Letters\Northfield Twp WWTP Cost Opinion.doc

OPINION OF PROBABLE CONSTRUCTION COST TETRA TECH MPS

710 Avis Drive, Ann Arbor, MI 48108

Telephone: (734) 665-6000 FAX: (734) 665-2570

PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS
 LOCATION: NORTHFIELD TOWNSHIP, MICHIGAN
 BASIS FOR ESTIMATE: CONCEPTUAL PRELIMINARY FINAL
 WORK: Entire Plant Expansion

DATE: 11/2/2005
 PROJECT NO. 0196136T.01
 ESTIMATOR: WJN
 CHECKED BY: TLE
 CURRENT ENR: 7700

ITEM NO.	DESCRIPTION	QUANT.	UNIT	UNIT AMOUNT	TOTAL AMOUNT
1	Equalization Basin with Grit and Screen Bldg.	1	LS	\$1,848,000.00	\$1,848,000.00
2	Primary Clarifiers	2	EA	\$175,000.00	\$350,000.00
3	Aeration Basin and Equipment	1	LS	\$630,000.00	\$630,000.00
4	Final Clarifier	1	EA	\$400,000.00	\$400,000.00
5	Filter Building	2,925	SF	\$122.00	\$356,850.00
6	Sand Filters	360	SF	\$350.00	\$128,000.00
7	Sludge Storage	380,000	GAL	\$1.22	\$463,600.00
8	Digester	225,000	GAL	\$1.95	\$438,750.00
9	Flow Splitting	2	EA	\$30,000.00	\$60,000.00
10	Repair Existing Digester Piping	1	LS	\$50,000.00	\$50,000.00
11	Ultraviolet Disinfection	1	LS	\$250,000.00	\$250,000.00
12	Roadway Repairs	1	LS	\$60,000.00	\$60,000.00
13	Natural Gas Generator	1	LS	\$220,000.00	\$220,000.00
14	Programming and Controls	1	LS	\$200,000.00	\$200,000.00
15	Yard Piping	1	LS	\$185,000.00	\$185,000.00
16	Mechanical	1	LS	\$1,127,640.00	\$1,127,640.00
17	Electrical	1	LS	\$845,730.00	\$845,730.00
18	Miscellaneous Work	1	LS	\$886,750.00	\$886,750.00
19					
20	General Requirements				\$849,800.00
21					
22	10% cont.				\$934,800.00
23					
24	Subtotal				\$10,282,920.00
25					
26	15% Engineering				\$1,542,400.00
27	5% Legal				\$514,100.00
28					
29	Total at ENR 7700 (Projected July 06)				\$12,339,400.00
30					
31	Update to ENR 7875 (Projected Jan 07) -- ADD				\$277,600.00
TOTAL CONSTRUCTION COST					\$12,617,000.00

OPINION OF PROBABLE CONSTRUCTION COST TETRA TECH MPS

710 Avis Drive, Ann Arbor, MI 48108

Telephone: (734) 665-6000 FAX: (734) 665-2570

PROJECT: WASTEWATER TREATMENT PLANT IMPROVEMENTS
 LOCATION: NORTHFIELD TOWNSHIP, MICHIGAN
 BASIS FOR ESTIMATE: CONCEPTUAL PRELIMINARY FINAL
 WORK: Miscellaneous Work at Existing Facilities

DATE: 10/11/2005
 PROJECT NO. 0196155T.01
 ESTIMATOR: WJN
 CHECKED BY: _____
 CURRENT ENR: 7563

ITEM NO.	DESCRIPTION	QUANT.	UNIT	UNIT AMOUNT	TOTAL AMOUNT
1					
2	Remove and Replace Handrails at Various Tanks	600	LF	\$45.00	\$27,000.00
3	Remove and Replace Sidewalks	600	SF	\$8.00	\$4,800.00
4	Remove and Replace Roofs on Existing Buildings	11,500	SF	\$7.00	\$80,500.00
5	Remove and Replace Primary Settling Tank Eqipt.	1	LS	\$50,000.00	\$50,000.00
6	Remove and Replace Guardrail	2,500	LF	\$15.00	\$37,500.00
7	Dome Cover on Trickling Filter	1	LS	\$200,000.00	\$200,000.00
8	Laboratory Expansion	450	SF	\$233.00	\$104,850.00
9	Concrete Repair	1	LS	\$20,000.00	\$20,000.00
10	Sludge Heating Piping Repair / Rework	1	LS	\$20,000.00	\$20,000.00
11	Sludge Bed Removal	1	LS	\$50,000.00	\$50,000.00
12	Digester Insulation (3" => R21)	1,200	SF	\$8.00	\$9,600.00
13	Security Enhancements				
14	Security System w/Fob entrance and door contacts	1	LS	\$35,000.00	\$35,000.00
15	Video Monitoring System (includes 4 cameras)	1	LS	\$30,000.00	\$30,000.00
16	10' Chain link (1") fence w/ 3 strand barb wire	1,700	LF	\$75.00	\$127,500.00
17	Motorized Gate	1	LS	\$10,000.00	\$10,000.00
18	Trailer Mounted Vector	1	LS	\$40,000.00	\$40,000.00
19	Equipment Storage	1	LS	\$40,000.00	\$40,000.00
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
TOTAL CONSTRUCTION COST					\$886,750.00

NORTHFIELD TOWNSHIP

MEMO

To: Northfield Township Board
From: Howard Fink
Date: 11/6/2014
Re: Sewer Capacity Legal Information

Dear Township Board,

Attached you will find legal documents on the sewer capacity regarding Green Oak Township. Paul Burns will be on hand at the meeting for any question in that regard.

Warm Regards,



Howard Fink, Township Manager

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION,
a Michigan unincorporated voluntary association,
and TOWNSHIP OF HAMBURG, a Michigan
body corporate, jointly and severally,

Civil Action No. 70-1453-CE
HON. DANIEL A. BURRESS

Plaintiffs,

AND

PORTAGE, BASE, AND WHITEWOOD OWNERS
ASSOCIATION, INC., a Michigan non-profit
corporation, formerly known as PORTAGE AND
BASE LAKE ASSOCIATION, INC., a Michigan
non-profit corporation,

Intervening Plaintiff,

v

TOWNSHIP OF NORTHFIELD, a Michigan
body corporate,

Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan
body corporate,

Intervening Defendant.

TRUE COPY
MARGARET M. DUNLEAVY
LIVINGSTON COUNTY CLERK

Lakeland Property Owners Assoc.
A Michigan Unincorporated
Voluntary Association
In Pro Per

HOOPER, HATHAWAY, PRICE,
BEUCHE & WALLACE
Attorneys for Plaintiff
Township of Hamburg
BY: BRUCE T. WALLACE (P24148)
BY: WILLIAM J. STAPLETON (P38339)
126 South Main Street
Ann Arbor, Michigan 48104
(734) 662-4426

Portage, Base and Whitewood
Owners Association, Inc.
In Pro Per

PAUL E. BURNS (P31596)
Attorney for Defendant
Township of Northfield
133 W. Grand River
Brighton, MI 48116-1600
(810) 229-6761

CONNELLY, CROWLEY, GROTH
& SEGLUND
BY: BRUCE R. SEGLUND (P32446)
Attorneys for Intervening Defendant
Green Oak Township
2410 S. Commerce Road
Walled Lake, Michigan 48390
(248) 624-4505

AMENDED CONSENT JUDGMENT

THIS CONSENT JUDGMENT made this ____ day of April 2002, by and between TOWNSHIP OF HAMBURG, a general law township, whose address is 10405 Merrill Road, Post Office Box 157, Hamburg, Michigan, 48139 ("HAMBURG"), TOWNSHIP OF NORTHFIELD, a general law township, whose address is 75 Barker Road, Post Office Box 576, Whitmore Lake, Michigan 48189 ("NORTHFIELD"), and TOWNSHIP OF GREEN OAK, a general law township, whose address is 10001 Silver Lake Road, Brighton, Michigan 48116 ("GREEN OAK").

WITNESSETH:

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG own and operate wastewater treatment works (hereinafter "plants"), the NORTHFIELD and GREEN OAK plants being located in Green Oak Township in the County of Livingston, and the HAMBURG plant being located in Hamburg Township, County of Livingston, State of Michigan; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of settling pending litigation between them in the case of "Lakeland Property Owners, et. al. and Hamburg Township vs. Northfield Township and Green Oak Township," Case No. 70-1453-CE in the Livingston County Circuit Court, and creating a mechanism to ensure monitoring of the plants, cooperation among the respective Townships and speedy resolution of disputes which arise as a result of the operation of the plants, their effects upon the respective townships, and overall environmental protection; and

WHEREAS, Act Number 200 of Public Acts of 1957, as amended, (MCLA 123.631 to 123.637) provides for the creation by 2 or more municipalities of an intermunicipal committee for the purpose of studying area problems; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of creating such a intermunicipal committee to avoid further litigation regarding wastewater disposal services in each township, and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG agree that the resolution of wastewater disposal service and environmental issues in a swift, effective, and conclusive manner is of paramount concern in each township; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG are desirous of entering into an agreement whereby future disputes regarding sewage disposal services and watershed protection in each township that may arise would be transmitted to and reviewed by the intermunicipal committee for orderly resolution of the matter; and

WHEREAS, NORTHFIELD, GREEN OAK and HAMBURG agree that because of the proximity of the respective plants to each township and the environmentally sensitive nature of the service area, it is in the best interests of NORTHFIELD, GREEN OAK and HAMBURG to create such an intermunicipal committee to review issues and make recommendations regarding sewage disposal services and related environmental issues in each township; and

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. **GRANT OF EXPANSION OF NORTHFIELD'S WASTEWATER TREATMENT PLANT**

In further consideration of the mutual promises herein, HAMBURG and GREEN OAK agree that the existing NORTHFIELD wastewater treatment plant can be immediately expanded and operated, in accordance with MDEQ Permit No. M10023710, issued November 14, 1997, at 2.25 million gallons per day (mgd) by duplicating the current technology utilized at NORTHFIELD's wastewater treatment plant which would also include the construction of an equalization basin, as more particularly defined in Exhibit A. The design and construction as set forth in Exhibit A are approved by the parties and are not subject to the review provisions of the Consent Judgment.

CREATION OF INTERMUNICIPAL SEWER COMMITTEE (ISC)

- A. The governing bodies of NORTHFIELD, GREEN OAK and HAMBURG shall, by resolution in each respective body, establish and organize an intermunicipal committee, to be known as the Intermunicipal Sewer Committee ("ISC").
- B. The ISC shall consist of six (6) members, two (2) from each township NORTHFIELD, GREEN OAK and HAMBURG. Each township board shall appoint two (2) committee members ("appointee") within 60 days of the execution of this Consent Judgment and thereafter every two (2) years at each township's first regularly scheduled township board meeting of the year. No appointee shall be a member of any member township's board of trustees. It is mutually understood that given the technical nature of issues that will be facing the ISC in the future, it is prudent that the ISC be made up of individuals familiar with environmental issues. In the event an ISC committee member resigns, his or her appointing township board shall appoint a new representative within 45 days of said resignation. The new appointee shall fill the vacancy for the unexpired term. The board of each member township may remove any or all of its appointed representatives at any time if it is deemed by a majority of members of the township board that such removal is in the best interest of the township. Resignations and/or removal of appointments shall not inhibit the actions of the ISC and the ISC shall be empowered to perform as if the appointee were never appointed and the ISC were fully staffed. Each appointee shall qualify by taking the constitutional oath of office and filing it with the appropriate clerk of the municipality. The volunteer ISC members shall serve without compensation from ISC funds. The respective member townships, at their option, may compensate

their representatives consistent with compensation policies for other citizen boards of the respective municipality.

C. The ISC shall meet at least quarterly and at such other times and places as shall be determined by the ISC or as compelled by member township requests for review of disagreements. The ISC shall maintain minutes of its meetings and hold them open for review.

D. The ISC may establish By-Laws and Procedures not inconsistent with this Consent Judgment and subject to the approval of the member townships' legislative bodies.

3. **PURPOSE OF INTERMUNICIPAL SEWER COMMITTEE (ISC)**

The ISC shall study currently existing, publicly owned treatment plants located within HAMBURG, NORTHFIELD and GREEN OAK and shall study wastewater effluent to formulate written recommendations for the best available technology that is practical, economically feasible and effective for each community's treatment plant.

4. **DUTIES AND POWERS OF INTERMUNICIPAL SEWER COMMITTEE (ISC)**

A. The ISC shall have general authority to monitor the member townships' existing sewage plants and make recommendations thereto. The existing sewage treatment plants shall mean (i) the Northfield Township Waste Water Treatment Plant on Lemay Road in Green Oak Township, (ii) the Hidden Lake Waste Water Treatment Plant located on Silver Lake Road in Green Oak Township, and (iii) the Hamburg Township Waste Water Treatment Plant located on M-36 in Hamburg Township.

B. The ISC shall monitor the member townships' existing sewage plants for compliance with effluent levels to be established by the Michigan Department of Environmental Quality and for best efforts to achieve effluent goals recommended

by the experts described in paragraph 4(F) below. In addition, the ISC shall monitor the member townships for sewage plant spills. The ISC shall compile and report these statistics to the member townships quarterly.

- C. The ISC shall review any proposed wastewater treatment plant expansions or modifications except as set forth herein.
- D. The ISC shall in the first year of this Consent Judgment commission a Wastewater Treatment Plant Technology Study and commence a Watershed Study in accordance with the criteria described in Exhibits B and C.
- E. The ISC shall review any studies performed at the direction of this ISC.
- F. Each member of the ISC shall appoint an expert to conduct the studies set forth in paragraph 4(D) and serve the ISC. The ISC may employ any other personnel deemed necessary to coordinate and conduct all types of surveys and studies relating to the watershed issues and make individual or joint written recommendations as to the best available and economically feasible technological solution to such issues. However, in the event a dispute proceeds to Arbitration pursuant to Paragraph 6 of this Agreement, the disputing parties shall each select one expert. The two selected experts shall select a third expert. Time deadlines for the selection of experts for the purposes of Arbitration shall be determined by the Arbitration panel.
- G. The ISC shall adopt, by resolution of a majority of its full membership, any expert recommendation for submission to each member township's governing body.
- H. The ISC may publicize its purposes, objectives and findings, and may distribute reports thereon.
- I. The ISC shall make an annual report of its activities to each member township's governing body.

- J. Unless otherwise specified in this agreement, the ISC shall act upon a majority vote of all of its members at any regular or special meeting.

5. **FUNDING OF INTERMUNICIPAL SEWER COMMITTEE (ISC)**

For the purpose of providing funds to meet the expenses of the ISC, the member townships' governing bodies shall, by resolution, authorize the allocation of municipal funds for such purpose. Each member township shall make a minimum contribution of fifteen thousand dollars (\$15,000.00) per annum commencing with entry of this Consent Judgment and thereafter on the anniversary thereof, ending five (5) years hence. Additional funding shall be based on the recommendation of the ISC and approved by a majority vote of each member township's board of trustees, with each member township bearing 33.34% proportion of the total additional funds approved. Funding of the ISC shall not be subject to Arbitration. Each Township shall establish a fund within their respective budgets to be monitored by the Treasurer for each Township. The ISC shall submit proportionate costs to each Township quarterly for payment.

- A. The ISC may accept gifts and grants from the federal government, state government and local governments, also from private individuals, foundations or agencies, if the grants are made for furtherance of the objectives for which the committee is established. Any funds received by the ISC shall be divided by 33.34% and deposited into each Township's ISC fund.
- B. The ISC shall maintain records relative to its operation and hold them open for review.

6. **PROCEDURE OF BINDING ARBITRATION**

In the event that a recommendation of the ISC is not unanimous, the dissenting township's governing body may demand that the dispute be submitted to binding arbitration by a three-person arbitration panel. Such dispute and any other claims or disputes regarding

wastewater treatment or watershed protection shall be subject to binding arbitration in accordance with the following procedures:

- A. The aggrieved township may give notice of its intent to arbitrate any environmental dispute within thirty (30) days of any recommendation or action giving rise to the claim or dispute.
- B. The disputing parties shall each have fifteen (15) days from the date of the notice described in paragraph 6(A) to select and name one arbitrator to the arbitration panel. The two selected arbitrators shall have fifteen (15) days to name the third arbitrator.
- C. Arbitrators cannot be appointed from the legislative bodies of the member townships' governing bodies. The arbitration panel shall determine the procedure for arbitration other than the timeline set forth herein.
- D. The arbitration panel shall report its findings on the claim or dispute to each member legislative body within sixty (60) days of being constituted or such other reasonable time period as the arbitrators deem appropriate and issue a binding decision regarding the grievance.
- E. HAMBURG, NORTHFIELD and GREEN OAK each agrees to consider itself bound and to be bound by any decision made by the arbitrators pursuant to this agreement. The parties further agree that the binding decision is in lieu of any and all statutory or common law remedies and there shall be no review or appeal, e.g. judicial, administrative, or otherwise.
- F. The Arbitrators shall have discretion to award costs and fees upon a finding that any parties' objections were improvidently made.
- G. The parties agree that a judgment of the Livingston County Circuit Court may be rendered upon the arbitration award made pursuant to this Consent Judgment.

7. **TERM**

The term of this Consent Judgment shall commence on the date hereto and terminate five (5) years hence. HAMBURG, NORTHFIELD, and GREEN OAK agree that this Consent Judgment may be extended if mutually agreeable terms are agreed upon by HAMBURG, NORTHFIELD, and GREEN OAK at the time of the expiration of this Consent Judgment.

8. **TERMINATION**

Termination of this Consent Judgment shall be by Petition for Termination to the Livingston County Circuit Court for good cause shown.

9. **BOUND BY THIS CONSENT JUDGMENT**

Each party agrees to adopt ordinances effectuating this Consent Judgment and binding them to all rules, processes and conditions of this Consent Judgment to the same extent that the other parties to this Consent Judgment are so bound.

10. **DEFAULT**

The parties pledge their full faith and credit for all duties set forth in this Consent Judgment.

11. **FAILURE OF PERFORMANCE**

No failure or delay in the performance of the executed Consent Judgment by the parties shall be deemed to be a breach thereof when such failure or delay is occasioned by or due to any Act of God, strikes or lockouts, wars, riots, epidemics, or other similar cause, whether of the kind herein enumerated or otherwise not in the control of the party claiming suspension.

12. **NON-ASSIGNABILITY**

It is hereby agreed that this Consent Judgment shall be binding upon all successor governmental units which may assume jurisdiction over all or part of the areas now governed by the parties.

13. SEVERABILITY

Should any provision of this Consent Judgment be found by a court of law to be unconstitutional it shall be severed from the Consent Judgment and the remaining provisions shall remain in full force and effect.

14. CONFLICTS WITH OTHER JUDGMENTS

NORTHFIELD, GREEN OAK and HAMBURG all acknowledge that the Hidden Lake Waste Water Treatment Plant is subject to the terms and conditions of a certain Judgment and Amended Judgment in the case of "Beck Development, et. al. vs. Green Oak Township, et. al.," Case Number 95-14297-CH in the Livingston County Circuit Court. NORTHFIELD, GREEN OAK and HAMBURG agree that, in case of conflict between this Consent Judgment and the terms and conditions of the Judgments in Case No. 95-14297-CH, the terms and conditions of the Judgments in Case No. 95-14297-CH shall control and nothing in this Consent Judgment shall be interpreted or construed to negate or modify in any way the terms and conditions of the Judgments in Case No. 95-14297-CK.

IN WITNESS WHEREOF, the parties have set their hands and seals the day and year first above written.

HON. DANIEL A. BURRESS

DANIEL A. BURRESS
CIRCUIT COURT JUDGE 5/23/02

**APPROVED AS TO FORM
AND CONTENT:**

HOOPER, HATHAWAY, PRICE,
BEUCHE & WALLACE
Attorneys for Plaintiff
Township of Hamburg

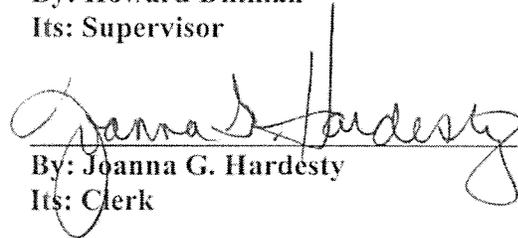


BRUCE T. WALLACE (P24148)
126 South Main Street
Ann Arbor, Michigan 48104

HAMBURG TOWNSHIP
a general law township



By: Howard Dillman
Its: Supervisor



By: Joanna G. Hardesty
Its: Clerk

CONNELLY, CROWLEY, GROTH
& SEGLUND
Attorneys for Intervening Defendant
Green Oak Township



BRUCE R. SEGLUND (P32446)
2410 S. Commerce Road
Walled Lake, Michigan 48390

GREEN OAK TOWNSHIP
a general law township



By: Mark St. Charles
Its: Supervisor



By: Michael Sedlak
Its: Clerk

LAW OFFICE OF PAUL E. BURNS
Attorneys for Defendant
Northfield Township

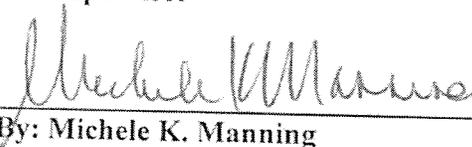


PAUL E. BURNS (P31596)
133 West Grand River
Brighton, Michigan 48116

NORTHFIELD TOWNSHIP
a general law township



By: Mike McFarland
Its: Supervisor



By: Michele K. Manning
Its: Clerk

EXHIBIT A

EQUALIZATION BASIN

These improvements would include the construction of a concrete basin to dampen the peak flow entering the WWTP. Related appurtenances would include: flow metering, aeration/mixing equipment, revisions to the grit/screening facilities, related electrical/instrumentation work, piping modifications and necessary site improvements.

WWTP EXPANSION TO 2.25 MGD

These improvements would duplicate existing treatment technology at the WWTP including the addition of: flow splitting structures, primary settling tank(s), aeration tank(s)/equipment, final settling tank(s), RAS pumping facilities, aeration blowers/piping, tertiary filter(s), sludge storage, digester improvements, standby power improvements, electrical/instrumentation and necessary site improvements.

REFERENCE TO PLANS AND SPECIFICATIONS

This Exhibit A references and incorporates by such reference the plans, documents, drawings, concepts and specifications ("the current Design and Construction Plans") provided by Northfield Township and reviewed by Hamburg Township and the same are made a part of this Exhibit A as though fully set forth herein:

List to be filed separately

The parties understand and agree that the Current Design and Construction Plans may be henceforth from time to time amended or modified and that any such amendments and modifications, insofar as the technology remains consistent with the concepts and standards contemplated in the Current Design and Construction Plans, shall be deemed approved by Hamburg Township as though fully set forth herein.

EXHIBIT B

Wastewater Treatment Plant Technology Study Criteria:

1. Review current available wastewater treatment technology suitable to the member townships' respective treatment plants.
2. Review existing plant specifications, engineering, and operations and current plans, specifications and engineering drawings and information relating to any proposed plant expansions except 2.25 MGD. HAMBURG and GREEN OAK agree that the existing NORTHFIELD wastewater treatment plant can be immediately expanded and operated, in accordance with MDEQ Permit No. M10023710, issued November 14, 1997, at 2.25 million gallons per day (mgd) by duplicating the current technology utilized at NORTHFIELD's wastewater treatment plant which would also include the construction of an equalization basin, as more particularly defined in Exhibit A. The design and construction set forth in Exhibit A are approved by the parties and are not subject to the review provisions of the Consent Judgment.
3. Propose recommendations for specific technology applicable to any proposed plant expansions.
4. Recommend specific effluent goals for each plant including but not limited to recommendations regarding nitrogen and phosphorus.

EXHIBIT C

Watershed Study Criteria

1. Define goals, methodologies, and protocols for long term study of watershed area.
2. Define sampling plan and specify activities and schedules for implementation of proposed plan.
3. Propose implementation of this study within an initial \$22,500 budget in year one and up to approximately \$30,000 in each of years two through five, subject to adjustment based upon additional funding requirements for Wastewater Treatment Plant study during the term of this Consent Judgment.

TOWNSHIP OF NORTHFIELD - TOWNSHIP OF HAMBURG

INTERGOVERNMENTAL AGREEMENT

This Agreement is made this 14th day of March, 1991 between the Township of Northfield, a general law township, with offices at 75 Barker Road, P.O. Box 576, Whitmore Lake, Michigan 48189 (hereinafter "Northfield"), and the Township of Hamburg, a general law township, with offices at 10405 Merrill Road, P.O. Box 157, Hamburg, Michigan 48189 (hereinafter "Hamburg").

RECITALS

WHEREAS, NORTHFIELD is the owner and operator of a wastewater treatment plant (hereinafter "Plant") located in the Township of Green Oak, County of Livingston, State of Michigan; and

WHEREAS, on December 5, 1989, Northfield filed a Verified Petition for Amendment of an Order of the Livingston County Circuit Court entered on May 4, 1972 and a Supplemental Order entered on September 11, 1978 in the case of Lakeland Property Owner's Association, et al. v Northfield Township, et al., Case No. 1453; and

WHEREAS, the Verified Petition filed by NORTHFIELD sought to obtain the Livingston County Circuit Court's permission to increase the Plant's capacity from 750,000 gallons per day to One Million Five Hundred Thousand (1,500,000) gallons per day; and

WHEREAS, Act 129 of Public Acts of 1943, as amended, provides that any two or more political subdivisions may contract relative to the furnishing of sewage disposal services by one political subdivision to another political subdivision; and

WHEREAS, NORTHFIELD and HAMBURG are desirous of entering into an agreement whereby sanitary sewage generated by certain residential and commercial users in HAMBURG Township would be transmitted to and treated in NORTHFIELD'S Plant;

NOW, THEREFORE, in consideration of the promises and covenants of each other, the parties agree as follows:

I. CAPACITY

A. NORTHFIELD shall be permitted to increase the capacity of its wastewater disposal plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual average under the terms and conditions set forth in this Agreement and the Supplemental Order dated March 14th, 1991

and entered by the Livingston County Circuit Court in the case of Lakeland Property Owners Association, et al. v Northfield Township, et al., Case No. 1453; and

B. The expansion is expected to occur in phases. Phase 1 is expected to increase the capacity of the Plant to One Million One Hundred Thousand (1,100,000) gallons per day. Phase 2 is expected to increase the capacity of the Plant to One Million Three Hundred Thousand (1,300,000) gallons per day. Phase 3 is expected to increase the capacity of the Plant to One Million Five Hundred Thousand (1,500,000) gallons per day. NORTHFIELD, in its discretion, may combine the phases and determine the timing of phases. NORTHFIELD agrees to exercise due diligence in the construction of its expanded Plant so as to provide service to HAMBURG pursuant to the terms of this Agreement. This provision is not intended to modify paragraph V(B) of this Agreement.

II. SEWAGE DISPOSAL SERVICE BY NORTHFIELD

A. NORTHFIELD agrees to receive and treat sanitary sewage from HAMBURG provided that the flow does not exceed Two Hundred Fifty Thousand (250,000) gallons per day based upon an annual average, within eighteen (18) months after NORTHFIELD receives payment pursuant to paragraph IV(A) of this Agreement; and

B. The effluent from HAMBURG shall emanate only from an area of HAMBURG outlined in Attachment "A" attached hereto, dated March 14th, 1991 and signed by the Supervisor and Clerk for each Township. Said effluent shall emanate only from residential homes and commercial establishments. No industrial effluent shall be permitted. The map may be altered with the written agreement of NORTHFIELD which may not be unreasonably withheld. It is the intent of the parties that the properties abutting Strawberry Lake, excluding the properties commonly referred to as the "Bluffs", be provided with sanitary sewage disposal service. HAMBURG agrees to use its best efforts to provide service to said properties.

III. PURCHASE OF SEWAGE DISPOSAL

A. No free service shall be furnished to any person, firm or corporation, public or private, or to any public agency or instrumentality;

B. Prior to connection HAMBURG agrees to have its users submit to NORTHFIELD a "Sewer Tap-in Permit Eligibility Application" for each proposed connection to the NORTHFIELD system, a copy of which is attached as Attachment "B", dated March 14th, 1991 and signed by the Supervisor and Clerk for each Township;

C. Additional statistical information shall be supplied to NORTHFIELD by HAMBURG or its users on all nonresidential establishments to calculate sewage capacity and/or appropriate pretreatment facilities in accordance with NORTHFIELD'S ordinance prior to any connection to the NORTHFIELD system. Such statistical information may include, but not be limited to, square footage, seating capacity, number of employees, anticipated water usage, number of rooms, type of facility and proposed uses; and

D. HAMBURG consents to the use by NORTHFIELD of the public streets, alleys, lands and rights-of-way in HAMBURG for the purpose of operating, maintaining and repairing the sewage disposal service supplied by NORTHFIELD to individual users in HAMBURG. HAMBURG further consents to the furnishing of sewage disposal service to the individual users situated in HAMBURG. In consideration of the furnishing by NORTHFIELD of sewage disposal service to individual users in HAMBURG, HAMBURG agrees that such performance by NORTHFIELD shall be in lieu of all licenses, fees, rentals, taxes or charges which HAMBURG or other assessment district or governmental unit might otherwise levy and impose upon NORTHFIELD for the furnishing of sewage disposal service in HAMBURG.

IV. COMPENSATION

A. CAPACITY RESERVATION CHARGE

(1) HAMBURG agrees to share all of the design, engineering, inspection, construction, legal and other associated costs of the expansion of the Plant from Seven Hundred Fifty Thousand (750,000) gallons per day to One Million Five Hundred Thousand (1,500,000) gallons per day on a pro-rata basis. The formula to be employed for calculating HAMBURG'S payment shall be as follows:

1/3 the Total Plant Expansion Project Cost

+ One Thousand Five Hundred (\$1,500.00)
Dollars per Residential Equivalent Unit
(which represents the current connection
permit charge)

= Total amount owed by Hamburg

(2) NORTHFIELD shall supply HAMBURG with the cost of phase 1 after contracts have been let, and an estimate of the design and construction cost of all remaining construction phases;

(3) Residential equivalent unit(s), to be assigned to properties within the territory set forth in

Exhibit "A", shall be defined and determined in accordance with NORTHFIELD'S ordinances which may be modified from time to time;

(4) Both parties acknowledge that bids have not been received nor awarded for the Plant expansion. Unforeseen construction problems may cause increases in the estimated total project cost, therefore, HAMBURG agrees to pay, when billed within thirty (30) days, the difference between the projected cost estimate and actual cost incurred in accordance with the formula established above. Conversely, the cost may result in an overpayment by HAMBURG; therefore, HAMBURG shall be entitled to a proportionate reimbursement plus interest at the rate the funds from HAMBURG were previously invested by NORTHFIELD which is to be paid within thirty (30) days of completion of the project;

(5) The capacity reservation charge shall be paid by HAMBURG to NORTHFIELD prior to NORTHFIELD providing any services under this Agreement, but in no event later than twenty-four (24) months from the date of execution of this Agreement; and

(6) HAMBURG agrees to exercise due diligence in the establishment of its special assessment districts, construction of sewer lines and connection therewith.

B. CONNECTION PERMIT CHARGE - SEWAGE DISPOSAL SERVICE

(1) HAMBURG agrees to require each person having control of a structure in which sanitary sewage originates, and each owner and each occupant of such a structure to be connected to an available public sanitary sewer. Such connection shall be completed promptly, but in no case later than ninety (90) days from the date of publication of a notice by the HAMBURG Township Clerk of the availability of the public sanitary system in a newspaper of general circulation in the Township of HAMBURG. If a REU(s) was assigned the property and paid by HAMBURG and the property is connected to the system within ninety (90) days, no additional connection charges shall be due unless HAMBURG failed to assign a sufficient number of REU(s) to the property. NORTHFIELD shall provide a procedure for the extension of the ninety (90) day connection requirement set forth above for hardship cases;

(2) In the event that the property is not connected within the time parameters set forth above, HAMBURG agrees that the sewer connection charge for each residential equivalent unit shall be the current sewer connection permit charge established by NORTHFIELD by ordinance. In the event that a residential equivalent unit(s) was previously assigned to the property pursuant to this Agreement and paid for by HAMBURG, the landowner will receive credit for that payment. The sewer connection permit charge shall be paid prior to permitting the property owner to connect to the system. The sewer connection permit charge may be modified from time to time at NORTHFIELD'S option, by ordinance; and

(3) If a connection permit is purchased and the permittee does not connect within one (1) year of the date of purchase of said permit, NORTHFIELD shall notify HAMBURG, and HAMBURG shall have the option to revoke said permit and notify NORTHFIELD of such revocation, upon which NORTHFIELD shall return payment to HAMBURG. HAMBURG shall revoke any permit(s) not utilized within two (2) years from the date of purchase. NORTHFIELD and HAMBURG agree that no interest shall be paid on any repayment by NORTHFIELD.

C. OPERATION, MAINTENANCE, AND EQUIPMENT REPLACEMENT CHARGE - SEWAGE DISPOSAL SYSTEM

(1) NORTHFIELD shall provide services to HAMBURG users at the rates, charges, and fees established for similar users of the NORTHFIELD system by ordinances of NORTHFIELD. NORTHFIELD shall give ninety (90) days notice of any change in said rates, charges, and fees to HAMBURG in writing, delivered in person or by mail. NORTHFIELD shall have the right to amend its ordinances, to change the rates, charges, and fees from time to time;

(2) NORTHFIELD agrees to bill and collect sewer service charges on a quarterly basis to be billed in June, September, December and March for all nonmetered customers. Metered customers may be billed upon a monthly, bi-monthly, or quarterly basis. Billings are paid in arrears;

(3) Sewer service charges shall begin on the date of connection to the public sewer system for existing or occupied residences or nonresidential establishments or upon the issuance of a temporary/permanent certificate of occupancy for

property under construction. HAMBURG shall notify NORTHFIELD of such information necessary to begin billing; and

(4) Annually, prior to September 1, NORTHFIELD shall certify to the HAMBURG Township Assessing Officer all the rates, charges, and fees, together with interest and penalties, owing by HAMBURG users delinquent as of the end of the March billing period (the end of NORTHFIELD'S sewer department fiscal year), and such Assessing Officer shall enter the same on the appropriate tax roll as a lien against the premises to which the services had been rendered, and HAMBURG shall enforce the lien and shall collect said sums as provided by law. HAMBURG shall promptly remit to NORTHFIELD all sums so collected. If HAMBURG fails or neglects to so enter such delinquent charges on its next tax roll, HAMBURG shall pay to NORTHFIELD such charges not later than December 1, of the year of such certification.

V. TERMINATION OF AGREEMENT

A. HAMBURG shall have:

(1) Fifteen (15) months from the date of the execution of this Agreement to inform NORTHFIELD, in writing, that its special assessment districts have been confirmed and a copy of the special assessment district(s) roll shall be provided to NORTHFIELD. However, it is the intent that HAMBURG confirm the special assessment district(s) roll within twelve (12) months; and

(2) Twenty-four (24) months from the date of the execution of this Agreement to pay NORTHFIELD the funds more particularly set forth in paragraph IV(A) of this Agreement.

B. If HAMBURG does not perform the obligations set forth in paragraphs 1 or 2 above within the time parameters herein described, neither HAMBURG nor NORTHFIELD shall have any rights or obligations under this Agreement, except NORTHFIELD shall be permitted to expand its Plant's capacity to discharge One Million Three Hundred Thousand (1,300,000) gallons per day based on an annual average in accordance with the Supplemental Order entered on March 14th, 1991 in the case of Lakeland Property Owners Association, et al. v Township of Northfield, et al. (Civil Action No. 1453); and

C. This Agreement is specifically conditional upon the entry of a Supplemental Order acceptable to the attorneys for NORTHFIELD and HAMBURG by the Livingston County Circuit Court permitting NORTHFIELD to expand its Plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual average. In the event such a Supplemental Order is not entered by the Court, this Agreement is terminated.

VI. NORTHFIELD FINANCIAL/CONTRACTUAL OBLIGATIONS

NORTHFIELD having ownership of and cause to operate, maintain, replace, modify, or expand the NORTHFIELD Plant for the purposes of serving HAMBURG under the provisions of this Agreement, may finance by borrowing money or otherwise any or all costs of such operation, maintenance, replacement, modification, or expansion. The parties recognize that the possibility of revenues, including revenues received from the users in HAMBURG, may from time to time be insufficient to meet the obligations of NORTHFIELD under any bonds, contracts or other contractual undertakings of NORTHFIELD now outstanding or hereafter issued or entered into for financing such costs of the Plant and related facilities which are necessary to provide service to HAMBURG. It is understood that to the extent NORTHFIELD has pledged its full faith and credit under said bonds, contracts, or other contractual undertakings, NORTHFIELD may adjust its rates so as to provide funds to meet future payments under said bonds, contracts, or other contractual undertakings as they become due.

VII. DEFAULT

A. NORTHFIELD reserves the right to discontinue service to HAMBURG in the event that HAMBURG is in default of this Agreement, as well as, any other additional remedies provided by law. NORTHFIELD may charge interest for any overdue payments. The interest rate charged shall be the prime rate plus one (1) percent. Payment shall be considered overdue if not paid pursuant to the times prescribed by this Agreement or by NORTHFIELD's Ordinances, whichever may be applicable. Default includes, but is not limited to, either nonpayment or late payment. In the event of default NORTHFIELD shall give written notice of same to HAMBURG and permit HAMBURG thirty (30) days from the date of said notice to cure any default. HAMBURG shall have any remedies available to it under the law for any default by NORTHFIELD; and

B. "Prime rate" means the variable rate of interest announced from time to time by the Bank as its "prime rate". The prime rate may not be the lowest rate offered by the Bank to any of its customers. Any change in the prime rate shall take effect on the day of the change in the prime rate. "Bank" shall mean from time to time the financial institution in which NORTHFIELD has designated as its depository bank in

which NORTHFIELD maintains on deposit the largest amount of its sewer revenue money.

VIII. CONSTRUCTION OF SEWERS TO SERVE HAMBURG

A. HAMBURG shall have complete and full responsibility to pay for the cost of designing and constructing sewage lines, pump stations or any other appurtenances thereto for the purposes of HAMBURG connecting to the Plant. Conversely, NORTHFIELD shall not have any responsibility to pay for the cost of designing and constructing sewage lines, pump stations or any other appurtenances thereto for the purposes of HAMBURG connecting to the Plant;

B. All design of sewage facilities in HAMBURG shall be approved by NORTHFIELD'S Engineer. NORTHFIELD'S Engineer shall conduct a final inspection of said facilities. Design review, report review and final inspection costs incurred by NORTHFIELD of HAMBURG facilities shall be paid by HAMBURG to NORTHFIELD within thirty (30) days of billing. NORTHFIELD'S Engineer may review periodic construction progress reports, reports on compaction testing and pressure testing, and review televising of HAMBURG'S sewer lines, at HAMBURG'S expense, but not to exceed Four Thousand and No/100 (\$4,000.00) Dollars. NORTHFIELD and HAMBURG agree that they will take reasonable steps to limit the duplication of engineering services and to minimize engineering costs;

C. Detailed records including drawn plans of any construction, alteration, addition or relocation of sewage facilities located in HAMBURG shall be kept on file by HAMBURG and copies shall be delivered and retained by NORTHFIELD for review;

D. HAMBURG, by ordinance, shall provide that all users shall install and maintain service leads, and bear the cost of connecting said service leads to sewage facilities located within HAMBURG. Users other than single family residences and duplexes shall install and maintain meters and valves, and bear the cost of connecting same; and

E. HAMBURG shall own said sewer lines, pump stations and any other appurtenances constructed by them and NORTHFIELD agrees to operate and maintain said facilities during the term of this agreement as more particularly set forth in paragraph 9 below.

IX. MAINTENANCE AND REPAIR OF SEWER FACILITIES TO SERVE HAMBURG

All ordinary and necessary maintenance and repair costs associated with the sewage facilities located within HAMBURG shall be borne by NORTHFIELD. NORTHFIELD shall perform such maintenance and repairs as shall be necessary to HAMBURG'S

system to the extent possible from the revenues generated from the sewer use charges. NORTHFIELD shall not be obligated to reconstruct or repair parts of the HAMBURG system damaged or destroyed by natural disaster, war or insurrection or similar unusual happenings beyond NORTHFIELD'S control. NORTHFIELD shall maintain and operate the HAMBURG system in the same manner as it maintains and operates the NORTHFIELD system. All NORTHFIELD books and records pertaining to the sanitary sewage disposal system shall be available to HAMBURG for inspection.

X. MASTER METER

Master metering facilities, which shall measure only flow from HAMBURG, shall be purchased and installed by HAMBURG. The location of the master metering facilities shall be mutually agreed upon by HAMBURG and NORTHFIELD. HAMBURG agrees to convey ownership to NORTHFIELD of the master meter and NORTHFIELD agrees to own and maintain such meter. HAMBURG reserves the right to install a computer data link from the master metering facility to HAMBURG Township at HAMBURG'S expense.

XI. TOXIC OR UNACCEPTABLE WASTES

In cases where the character of sanitary sewage emanating from HAMBURG is such that it imposes an unreasonable or additional burden upon NORTHFIELD'S sewage disposal system above that imposed by the average domestic sewage entering NORTHFIELD'S sewage disposal system, as determined by NORTHFIELD, HAMBURG shall cause such entity to treat such sanitary sewage in a manner accepted by the United States Environmental Protection Agency (U.S.E.P.A.) and the State of Michigan Department of Natural Resources or their successors. The average domestic sewage standard shall be defined as effluent which shall not exceed the following parameters:

BOD	250 MG/L
SUSPENDED SOLIDS	250 MG/L
NITROGEN	20 MG/L
PHOSPHOROUS	6 MG/L
PH	9

It is understood that the above standards may be modified from time to time.

XII. EXCLUSIVE SERVICE

During the term of this Agreement, NORTHFIELD shall have the exclusive right to treat sanitary sewage originating in the service area as outlined in Attachment "A", providing capacity is available from NORTHFIELD.

XIII. INTERRUPTION OF SERVICE

In the event service is interrupted, either accidentally or intentionally, no claims for damages for such discontinuance shall be made by HAMBURG or its users against NORTHFIELD. NORTHFIELD shall immediately notify HAMBURG by telephone upon learning of any interruptions of service. Whenever service will be intentionally interrupted temporarily by NORTHFIELD to facilitate repair, modification or connection to NORTHFIELD'S sewage disposal system, NORTHFIELD, prior to such interruption, shall give HAMBURG reasonable notice of the time, duration and area affected by the interruption of service, including immediate telephonic notification.

XIV. FAILURE OF PERFORMANCE

No failure or delay in the performance of this Agreement shall be deemed to be a breach thereof when such failure or delay is occasioned by or due to any act of God, strikes or lockouts, wars, riots, epidemics, explosions, sabotage, breakage, or accidents to machinery or lines of pipe, the binding order of any court or governmental authority, or any other cause, whether of the kind herein enumerated or otherwise not in the control of the party claiming suspension.

XV. INSURANCE

During the term of this Agreement, all parties shall maintain insurance in the amount of not less than Two Million and No/100 (\$2,000,000.00) Dollars for a comprehensive general liability policy. Insurances shall be reviewed annually by NORTHFIELD and HAMBURG to insure proper coverage. Evidence of such insurance shall be provided by NORTHFIELD and HAMBURG to each other prior to the treatment of sewage from HAMBURG and annually thereafter. Each party shall cause the other party to be a named insured on its policy.

XVI. TAXES

HAMBURG agrees not to assess any taxes on any sewage disposal facilities situated within HAMBURG and owned by NORTHFIELD.

XVII. BOUND BY NORTHFIELD ORDINANCES

HAMBURG agrees to adopt ordinances which require all sewage disposal facility users situated within the area outlined in Attachment "A", to be bound by all rules, regulations and ordinances of NORTHFIELD to the same extent that users within the corporate limits of NORTHFIELD are so bound. HAMBURG agrees to adopt new ordinances or modify ordinances within ninety (90) days of notification of said ordinances by NORTHFIELD. NORTHFIELD agrees to give HAMBURG ninety (90) days written notice of its intent to adopt new ordinances or to modify ordinances relating to the Plant.

XVIII. JOINT UTILITY BOARD

A. The purpose of the Joint Utility Board is to serve as a recommending body to the NORTHFIELD Township Board as to the operation of the Plant. The board may investigate future operational changes, ordinance revisions or recommendations, and may review requests for unallocated capacity needs, plans for Plant expansion and financial reports;

B. The Board shall be made up of two (2) representatives from each Township board and one (1) alternate and shall be appointed by the respective legislative bodies for the term of office. The respective legislative body may remove any or all of its appointed representatives at any time if it is deemed that such a removal is in the best interest of the Township;

C. The Board shall meet quarterly at the NORTHFIELD Township offices or a place to be mutually agreed upon. Other meetings may be called by reasonable notification to a NORTHFIELD representative with indication of the purpose or agenda of such a meeting;

D. The Board members shall serve with compensation from Plant funds at the rate of Forty and No/100 (\$40.00) Dollars per meeting; and

E. Officers to be selected annually in May shall be a Chairman and a Secretary. The Chairman shall conduct the meeting. The Secretary shall take and transcribe minutes of the meeting to be distributed to all members. Recommendations shall be sent to the NORTHFIELD Clerk for Township board action.

XIX. NON-ASSIGNABILITY

This Agreement is not assignable by HAMBURG without prior written consent of NORTHFIELD.

XX. SUCCESSORS

It is hereby agreed that this Agreement shall be binding upon all successor governmental units which may assume jurisdiction over all or part of the areas now governed by the parties.

XXI. TERM OF THE AGREEMENT

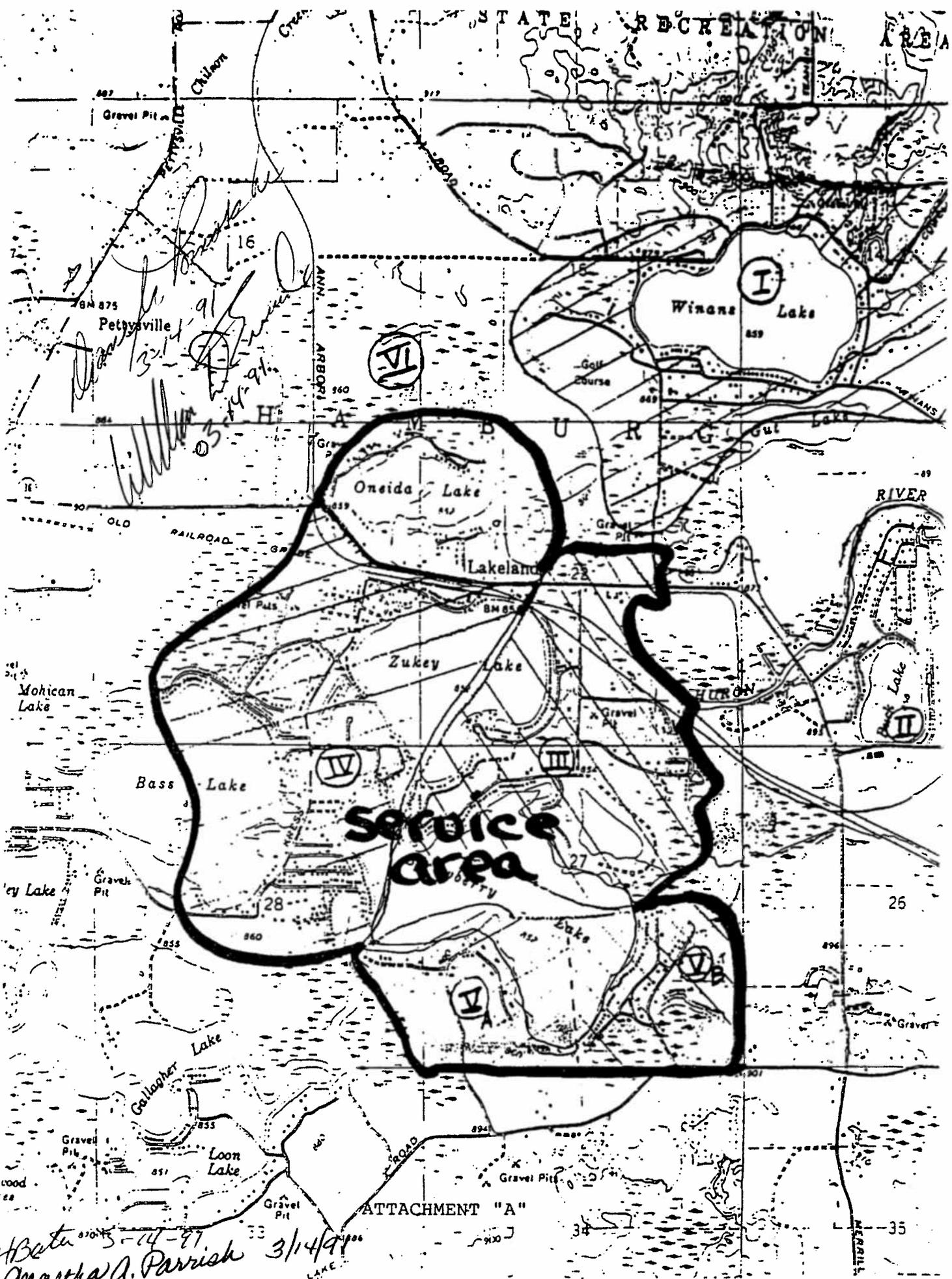
The provisions of this agreement shall commence on the date hereof and shall be in effect for the next twenty (20) years and shall be automatically renewed for ten (10) year increments unless notification of termination shall be received in writing by either party within three (3) years prior to its termination.

STATE OF MICHIGAN)
COUNTY OF Livingston)SS

On this 14~~th~~ day of March, 1991, before me, a Notary Public, in and for said County and State, personally appeared Harry Bater, Supervisor of Hamburg Township, and Martha Parrish, Clerk of Hamburg Township, who acknowledged said instrument to be the free act and deed of Hamburg Township.

Theresa M Brennan
Theresa M Brennan Notary Public
Livingston, County, MI
My Commission Expires: 6/22/94

wp/n-field.19



Handwritten notes:
91
13
3-14-91
05-14-91
16
BM 875
Petysville
H
A
Gravel Pit

Service Area

ATTACHMENT "A"

Handwritten notes:
H Betu 3-14-91
Martha A. Parrish 3/14/91

SEWER TAP-IN PERMIT ELIGIBILITY APPLICATION

APPLICANT: (Please complete the following information.)

NAME _____
Mailing _____
Address: _____
Telephone: _____

Property _____
Address: _____
Legal Description: Lot _____ Subdivision _____
or Metes and Bounds, Section _____

Tax Parcel ID Number: _____

Purpose of Tap-In: Residential Home _____ Duplex _____
Commercial Establishment _____

(If Commercial: Type of Business _____
Square Footage (inside) _____ # of FTE Employees _____
Anticipated Water Usage _____ (# of gallons per day),
We may contact you for additional information.)

The property is located in the _____ Sewer District and (HAS) (HAS NOT) been assessed
for the initial Capacity Reservation Charge of \$1,500.

Treasurer

The above applicant has applied for a building permit to construct a Single Family
Residence Duplex Commercial Building (type: _____). Building Permit #
_____ is pending issuance of Sewer Tap-In Permit.

A copy of the Certificate of Compliance (Temporary/Permanent) will be supplied upon
completion of the structure.

Building Official

The above application has been reviewed by me and appears to conform to all requirements
agreed to by HAMBURG TOWNSHIP and NORTHFIELD TOWNSHIP in accordance to the
Intergovernmental Agreement and the provisions of the Circuit Court of Livingston County.
I recommend issuance of the Sewer Tap-In Permit by NORTHFIELD TOWNSHIP.

Supervisor

ACTION BY NORTHFIELD TOWNSHIP:

Permit Number _____ issued this Date _____
or

Permit Denied this Date _____ for the following reason:

Official
(CO issued: _____ Date sewer billing entered _____)-----

Handwritten notes:
Approved for Northfield
3-14-91
William G. Smith
63-14-91

Handwritten signature:
Martha A. Parrish 3/14/91

Handwritten signature:
M. Bator
3-14-91

STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION,
a Michigan unincorporated voluntary
association, and TOWNSHIP OF HAMBURG,
a Michigan body corporate, jointly
and severally,

Plaintiffs,

Civil Action No. 1453
Hon. Stanley J. Latreille

AND

PORTAGE, BASE, AND WHITEWOOD OWNERS
ASSOCIATION, INC., a Michigan
non-profit corporation, formerly
known as PORTAGE AND BASE LAKE
ASSOCIATION, INC., a Michigan
non-profit corporation,

Intervening Plaintiff,

v

TOWNSHIP OF NORTHFIELD, a Michigan
body corporate,

Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan
body corporate,

Intervening Defendant.

TRUE COPY
STANLEY J. LATREILLE
44th Circuit Court

MICHAEL F. MERRITT (P17642)
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3075 E. Grand River
Howell, MI 48843
(517) 548-4100

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(313) 662-4426

BRENNAN & BURNS
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133 W. Grand River
Brighton, MI 48116
(313) 229-6761

RAYMOND F. CLEVINGER (P11972)
Attorney for Intervening
Defendant, Green Oak Township
427 N. Main Street
Ann Arbor, MI 48104
(313) 663-1001

SUPPLEMENTAL ORDER

At a session of said Court, held in the
City of Howell, County of Livingston,
State of Michigan, on March 19, 1991.

PRESENT: THE HONORABLE STANLEY J. LATREILLE
Circuit Judge

This action was originally filed on August 27, 1970. The Court entered an Order pursuant to its Opinion dated May 4, 1972. The Court entered a Supplemental Order on September 11, 1978. On December 5, 1989, Northfield Township filed a Verified Petition for Amendment of the above-referenced Order. Northfield's Petition requested that an Order to Show Cause be entered. On December 10, 1989, the Court entered an Order to Show Cause.

A hearing was originally scheduled for February 26, 1991. The hearing was adjourned to February 28, 1991. On February 28, 1991, the attorneys for all of the parties appeared before this Court. This Court commenced the trial. All parties being represented and having had full opportunity to present evidence and witnesses, and Hamburg Township, Northfield Township and Green Oak Township having agreed to the substance of this Order on March 14, 1991 and Lakeland Property Owners Association expressing opposition, but choosing to present no evidence,

IT IS HEREBY ORDERED AS FOLLOWS:

1. NORTHFIELD shall be permitted to increase the capacity of its Wastewater Treatment Plant to One Million Five Hundred Thousand (1,500,000) gallons per day based upon an annual

average. The Wastewater Treatment Plant with said increased capacity is hereinafter referred to as the "EXPANDED PLANT", and is subject to the following provisions of this Supplemental Order.

2. NORTHFIELD may discharge treated municipal wastewaters from the EXPANDED PLANT through outfall 001 to the Horseshoe Lake drain. Such discharges shall be limited and monitored by NORTHFIELD as follows:

(See page 4 of this Supplemental Order.)

Effluent Characteristic	Dates In Effect	Discharge Limitations			
		Daily Minimum	Daily Maximum	30-Day Average	7-Day Average
Flow (in MGD)	All Year	--	Monitoring Only		--
Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	All Year	--	10 mg/l	4 mg/l 50 lb/d	-- 125 lb/d
Total Suspended Solids	All Year	--	--	10 mg/l 125 lb/d	15 mg/l 188 lb/d
Ammonia Nitrogen (as N)	4/1-4/30	--	12 mg/l	6.4 mg/l 80 lb/d	-- 150 lb/d
	5/1-10/31	--	2 mg/l	0.5 mg/l 6 lb/d	-- 25 lb/d
	11/1-11/30	--	12 mg/l	6 mg/l 75 lb/d	-- 150 lb/d
	12/1-3/31	--	--	7.4 mg/l 93 lb/d	--
Total Phosphorus (as P)	All Year	--	--	0.4 mg/l	--
Dissolved Oxygen	5/1-10/31	6 mg/l	--	--	--
	11/1-4/30	5 mg/l	--	--	--
Fecal Coliform Bacteria	All Year	--	--	--	100/100ml
Total Residual Chlorine	All Year	--	Monitoring Only		--
	All Year beginning 1/1/92	--	0.036 mg/l	--	--
pH (standard units)	All Year	6.5	9.0	--	--

3. NORTHFIELD and HAMBURG acknowledge that the NORTHFIELD wastewater treatment plant currently discharges less phosphorus than the limitation for phosphorus set forth on page 4. NORTHFIELD pledges its best efforts to seek comparable performance in the operations of its EXPANDED PLANT. NORTHFIELD acknowledges that the current level of performance approximates 0.3 mg/l and pledges its best efforts to seek comparable performance in the operations of the EXPANDED PLANT but does not warrant that the discharge of phosphorus from the EXPANDED PLANT will be limited to 0.3 mg/l. IT IS SO ORDERED.

4. For purposes of monitoring the performance of the EXPANDED PLANT pursuant to Paragraphs 2 and 3 above, NORTHFIELD shall submit to HAMBURG copies of the final effluent reports submitted monthly to the Michigan Department of Natural Resources.

5. If HAMBURG TOWNSHIP does not purchase 250,000 gallons per day of the capacity of the EXPANDED PLANT from NORTHFIELD, then, the capacity of the EXPANDED PLANT may only be increased to One Million Three Hundred Thousand (1,300,000) gallons per day on an annual average. In such event, all other provisions of this Supplemental Order shall remain in full force and effect.

6. The jurisdiction of this Court in this matter is retained and continued.

STANLEY J. LATREILLE

HON. STANLEY LATREILLE
Circuit Judge

wp/n-field.20

STATE OF MICHIGAN
IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION,
a Michigan unincorporated voluntary
association, and TOWNSHIP OF HAMBURG,
a Michigan body corporate, jointly
and severally,

Plaintiffs,

Civil Action
No. 1453

AND

PORTAGE AND BASE LAKE ASSOCIATION, INC.,
a Michigan non-profit corporation,

Intervening Plaintiffs,

-v-

TOWNSHIP OF NORTHFIELD, a Michigan
body corporate,

Intervening Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan
body corporate,

Defendant.

FILED

FEB. 29 1972

COUNTY CLERK
Howell, Mich.

OPINION OF THE COURT

This cause of action was initially instituted between Lakeland Property Owners Association, a Michigan unincorporated voluntary association, and Township of Hamburg, a Michigan body corporate, jointly and severally as plaintiffs against the Township of Northfield by the filing of the Complaint with this Court on August 27, 1970. In said Complaint plaintiffs complain of activities of defendant, Township of Northfield, in the operation of a certain waste water treatment plant located in Green Oak Township. Northfield Township is located in Washtenaw County, Hamburg and Green Oak Townships are both located in Livingston County.

The allegations, in short, in plaintiffs Complaint are to

the effect that they are suffering damages both directly and by way of pollution of the water course that they are located on due to the operations of defendants waste water treatment plant. And further, plaintiffs complain of and seek a Restraining Order against the expansion of such operations.

Interim Relief was sought by plaintiffs herein in the form of a Preliminary Injunction to restrain defendant, Northfield Township, from beginning construction on a physical expansion of such plant and from restraining defendant from increasing its daily discharge over and above the level for which this plant was constructed. Such Restraining Order was ultimately issued by this Court.

Defendant Northfield Township filed its Answer to plaintiffs Complaint in this matter and setout therein certain affirmative defenses. Defendant Northfield Township also filed a Motion for Change of Venue alleging that Venue was improperly laid. After arguments on such Motion said Motion was denied.

The above referred to Interim Preliminary Injunction was issued by this Court on October 7, 1970.

After Lakeland Property Owners Association and Hamburg Township filed their reply to the defendants Answer this Court received an application of Portage and Base Lake Association, both being Michigan non-profit corporations, for intervention as party plaintiffs and such application was filed on November 25, 1970. On November 30, 1970 this Court received a Motion to Intervene, as a party defendant, from the Township of Green Oak. On December 4, 1970 this Court signed an order allowing the intervention, as parties plaintiff, of Portage and Base Lake Association incorporated. On December 9, 1970 this Court entered its order granting intervention, as a party defendant, of the Township of Green Oak based upon a stipulation of the parties dated December 1, 1970 and filed with this Court on December 10, 1970.

Defendant Green Oak Township, on December 28, 1970, filed its Answer to the original Complaint and the Complaint of the Intervening Plaintiffs.

Green Oak Township filed a Motion for Reference to the Michigan Water Resources Commission (herein after referred to as WRC) and for Modification of the Preliminary Injunction on December 28, 1970 together with a Brief in Support of said Motion for Reference. Such Motion was ultimately denied by this Court.

This matter was ultimately tried by the Court after first having filed with it Northfield Township's Answer to the Complaint of the intervening plaintiffs, a Supplemental Answer of defendant Northfield Township, Reply to Affirmative Defenses of defendant Township of Northfield, Interrogatories to plaintiffs by defendants, a Pretrial Conference, Plaintiffs objections to Interrogatories of the third-party defendant, Answers to certain Interrogatories by plaintiffs, a Second Pretrial Conference, Supplemental Answers to Interrogatories of intervening defendants, plaintiffs Request for Admissions from Defendants and Objections to Request for Admissions from Defendant. And finally, this Court received for filing, defendant Township's Second Supplement to Answer, followed by Answer to Amendment to Complaint.

Plaintiffs allege, in their Complaint, that defendant Townships herein collect sewage from around their own lake and township and dump the effluent from such collections several miles away into the heart of Hamburg Township, where it pollutes the lakes and water courses upon which plaintiffs herein reside. Plaintiffs seek a mandatory injunction closing down or rerouting defendants out fall, or, in the alternative, Injunctive Relief against defendants expanding said operation together with an Order compelling defendants to better treat the effluent discharge from their plant. It should be noted that defendant Northfield,

Township owns and operates the said Sewage Disposal Plant which is located in defendant Green Oak Township and such plant serves homes and business operations located around Whitmore Lake. Whitmore Lake is physically situated in both Livingston and Washtenaw County. The out fall from the sewage disposal plant in question is located in Hamburg Township and is reached by a pipe from said plant which is approximately 7,200 feet in length. The out fall pipe discharges into a small water course which flows into the Huron River just up stream from Strawberry Lake and other lakes located in Plaintiff Hamburg Township upon which other plaintiffs reside.

Defendants current discharge per day is approximately one quarter million gallons. Plaintiffs allege that the contents of such discharge are polluting the lakes and other water courses upon which they reside. It is further alleged, without dispute from defendants herein, that plaintiffs are located approximately four miles distant from Whitmore Lake which is serviced by defendants plant.

The waste water disposal plant now in dispute^{was}/originally constructed by the State of Michigan in 1963 and 1964 to serve and service the W.J. Maxey Boys Training School, located in Green Oak Township.

In 1966 the State sold the above mentioned sewage plant to Northfield Township, for consideration, together with all of its right, title and interest in the above mentioned plant and pipeline. It is further alleged, without dispute, that Northfield Township intends to expand the operations of such plant and increase the discharge of said plant's effluent to 750,000 gallons per day and further intends on using the existing form of disposal of the product of said plant.

Plaintiffs have raised the following legal issues during the litigation of this matter;

A. Northfield Township is constitutionally prohibited in the operating or maintaining of said plant and its outfall outside of its corporate limits;

B. Northfield Township failed to obtain the consent of Hamburg Township to the location of such outfall and is required to do so;

C. Plaintiffs have a constitutional right to clean water;

D. The presence of said sewer pipeline and outfall is a trespass upon Hamburg Township;

E. Defendants discharges of effluent into the waters located in Hamburg Township constitute a public and private enjoicable nuisance;

F. The discharges of defendants effluents into plaintiffs waters are discharges by a non-riparian and non-littoral party and is an unreasonable use of those waters which is violative of plaintiffs riparian rights;

G. Northfield Township is bound by all the obligations of the State of Michigan via promises made by the state to Hamburg Township;

H. Plaintiffs property is being taken without compensation and without due process of law under both the United States and Michigan Constitutions;

I. Plaintiffs are entitled to declaratory and equitable relief under the Environmental Protection Act of 1970, PA 127.

J. Defendants have no meritorious affirmative defenses to plaintiffs complaints.

To the above defendants herein respond as follows:

1. That the defendant townships have statutory authority for ownership and operation outside of township limits;

2. Hamburg's consent to the operation of the said pipeline is not required;

3. That the wording of Hamburg Township Nuisance Ordinance No. 10 does not setforth provisions that prescribe a nuisance;

4. That a certain Water Resources Commission Order authorizes defendants activities. In addition to the above defendants allege that there is no feasible and prudent alternative to defendants continuing to maintain and operate their treatment facility or the expansion of same, and further, that plaintiffs are estopped from making some or all of its complaints at this time.

Defendants further allege that plaintiffs herein are not entitled to equitable relief inasmuch as they come to Court with unclean hands in that defendants allege much of the pollution plaintiffs complain of is caused by activities of plaintiffs themselves or the citizenry living within the confines of plaintiff Township of Hamburg.

Testimony was taken in this matter in open Court on July 20, 21, 22, and 23, 1971 and this Court was afforded the benefit of the testimony of several witnesses and the offering and receiving of numerous exhibits both in support of plaintiffs case and defendants case and rebuttal thereto. This Court feels it necessary at this time to review, herein, material portions of such testimony.

A past and present Hamburg Township officer testified that many complaints were received by them from Hamburg residents regarding the condition of the water in the various lakes, odors emitting from such waters, fish kills and other complaints and such complaints reached their peak some four to five years ago and have continued up to the present at that level.

Francis Shehan, a Hamburg Township Official, testified that during his tenure in office, which covers the past twelve years, he, officially, resisted defendants out fall pipe being located

in Hamburg Township but further testified that his resistance came somewhat late inasmuch as the State of Michigan had already made that decision. During meetings with officials from the Boys Training School and the State of Michigan this witness learned of the intended expansion of defendants waste water treatment facility but had not been contacted in his official capacity regarding such proposed expansion until a few months prior to trial.

Mr. Francis B. McLaughlin, Director of Laboratories, Analytic and Biological Laboratories, Inc., testified as to his professional personal contact with the areas in question. Mr. McLaughlin holds a Bachelor of Science Degree in Microbiology from the Detroit Institute of Technology and has twenty years of experience in such work in addition to having run the above mentioned laboratory since 1956. Mr. McLaughlin's credentials include extensive biochemical work for private and public concerns mostly in the area of evaluation of test results to the problem at hand. Mr. McLaughlin was quite familiar with the defendants plant, its outfall, and the total area downstream therefrom. Mr. McLaughlin was the author of a certain study of the Northfield Township effluent, Huron River and Strawberry Lake phosphate levels made in 1970. Mr. McLaughlin was also the author of a study of the effluents from the Northfield Township Waste Water Treatment Plant and their effect on the Huron River Ecology made in 1970. The above two mentioned studies were received as exhibits No. 14 and No. 12 respectively.

It was the testimony of Mr. McLaughlin, via the witness stand and the above mentioned studies, that defendants discharge onto and into the receiving waters contains an excess biochemical oxygen demand (hereinafter referred to BOD). Such excess BOD load was determined to be, in the opinion of Mr. McLaughlin, 40 parts per million. Further testimony from said witness indicated that

the BOD load on the Huron River Chain at Kensington Lake and Park is 2 to 4 parts per million. Exhibit No. 14 above reflects that the BOD load at the time such report and study was made were at 24 parts per million with high concentrations of phosphates. In the opinion of said expert witness a clean lake, or water course, is defined as one with a BOD load below 5 parts per million. In addition to the above said expert testified that the discharge from defendants outfall pipe had a lower level of dissolved oxygen (hereinafter referred to as DO) than the receiving waters. Nitrate loads were determined to be, by said witness's studies and testimony, to be 33 parts per million at the outfall and .8 parts per million upstream of said outfall. Further testimony from said witness indicated that anything over .1 parts per million nitrate cannot be tolerated for any stream or river in the state.

It was the expert opinion of said witness that defendants herein contribute considerable pollution to the water chain under consideration. And further, that Strawberry Lake cannot stand today's input by defendants let alone the possibility of tripling said input.

Mr. McLaughlin testified in detail regarding his objections to the Department of Natural Resources amended final order of determination recommendations with regard to defendants waste water plant operation. Mr. McLaughlin agreed with only one provision of said technical recommendations the same being 1.c.

Said DNR recommendations may be found in detail at defendants exhibit No.3. Two strenuous objections were made by Mr. McLaughlin to recommendations contained in the YRC Order of Determination. The recommendations heretofore referred to strongly objected to by Mr. McLaughlin are found at 1.d and 1.e. 1.d reads as follows:

"Contain not more than One Thousand (1,000) total coliform per One Hundred (100) milliliters."

The witness testified that this item should be a recommendation of no active coliforms. His strenuous objections in his

opinion and testimony was to the effect that the recommended level is not adequate to protect the environment in that the receiving waters have a count upstream from the outfall pipe unknown but opines it is far below One Thousand (1,000) coliform per Hundred (100) milliliters.

With regard to item 1.e, which reads as follows:

"Contain not more than Twenty percent (20%) of the phosphorus contained in the influent to the waste water treatment facility."

Said witness testified that this means 80% removal of phosphate but all other factors are unknown. The witness did concede that 80% removal is about as good as present technology allows. It was the further testimony of Mr. McLaughlin that the defendant is currently not removing phosphates, and last year, as per the witness's calculations, defendants discharged 14,000 pounds of phosphates into the water course in question. It was the concluding expert testimony of Mr. McLaughlin that if the WRC determinations were complied with nutrients would be increased in an unknown degree primarily because of the levels set in 1.d therein.

At this point plaintiffs rested their case and relied on their Briefs and other legal arguments contained therein. Thereupon defendants moved to dismiss based on the argument that the WRC Order was conclusive and not appealed from. Such Motion was denied by this Court on the basis that plaintiffs herein had made a Prima Facie case and that the burden of overcoming such Prima Facie case had shifted to defendants.

Mr. John Beebe, Superintendent of defendants plant, testified that he is a licensed plant operator by the Department of Health, State of Michigan and that such plant is a secondary treatment plant of the trickling filter type. Monthly reports are made on all extractions and performances of the plant and such reports are filed with the State Department of Health which supervises the operations, reviews such reports and makes recommendations.

It was the further testimony of Mr. Beebe that the plant in question operates within the expectations of the Department of Health at a present volume of Two Hundred Twenty Thousand (220,000) gallons per day which has increased steadily since 1964. The current treatment efficiency of the plant in question has remained constant since its inception. Said plant services 1,400 (units) users. It was the further testimony of said witness that at present efficiency levels this plant could handle 240 additional units or users and still be within its planned capacity of Two Hundred Fifty Thousand (250,000) gallons per day.

It was the concluding testimony of this witness that there have been normal mechanical problems, within levels of expectation, and that said plant employs daily membrane filtering for coliform counts and in addition chlorination is used.

Mr. John Holland, the holder of a University of Michigan degree in engineering testified that he has much experience in waste water treatment plants in both their construction and evaluation of operations. This witness's company designed defendants plant and recommended the location of said plant at Hamburg Township as a regional facility. It was this witness's further testimony that a plant, such as defendants, is designed to do a reasonable job based on the financial ability of the community, and further, that this plant does not remove phosphates and was not originally designed to remove phosphates as the WRC did not require such removal at the time of the construction of this plant. It was the further opinion and testimony of this witness that compliance with the amended final order of determination (defendants exhibit No. 3) would cost approximately One Million Five-Hundred Thousand Dollars (\$1,500,000.00) and that the same is a strong order to the extent that compliance would require state and federal aid which defendants herein have applied for but such aid has been withdrawn by the Water Resources

Commission (WRC) who administer such funds.

Mr. Holland further testified that all users of defendants waste water treatment plant are located in the horseshoe drainage area and that such users are almost completely domestic. Such witness further testified that if the size of this plant is increased that defendants would continue to discharge into Horse-shoe Creek. Alternatives to such discharging were studied and a determination was made that the present method is the most reasonable and feasible, in his opinion. It was such witness's further testimony that the above mentioned 7,000 foot outfall pipe originally cost approximately One-hundred Thousand Dollars (\$100,000.00).

On cross examination Mr. Holland did admit that phosphates do pollute but did not admit that defendants plant herein does in fact pollute the waters in question with the further statement that in his opinion local units and population are doing the polluting. His further testimony was that while building this plant his engineering firm did not take into consideration the level of population along the water course to be used as a disposal nor were water samples taken from any of these lakes or water courses before the plant was built. Said witness did concede that this plant must remove 80% phosphates even if not extended as per the terms of defendants exhibit No. 3 set out above.

Mr. Paul Blakeslee, a Regional Professional Engineer with a specialty in sanitary engineering and a holder of a BS and MS Degree testified regarding municipal waste water systems and the fact that the WRC reviews plans and designs with the Michigan Department of Public Health issuing construction permits. Further, the Michigan Department of Public Health, as per the testimony of Mr. Blakeslee, transplant operation personnel, receives reports regarding operating data such as flow, volume, weather information, influent and effluent qualities, and attempts to control facility

operations at the highest degree such facility is capable of operating at overall. It was further testified to that the Michigan Department of Public Health inspects such plants every six months and scans their reports. Mr. Blakeslee testified that defendants plant is operated extremely good and is at an efficiency level in the 85% range and is operating within its designed limits and further that such plant was not designed to consider phosphates but more importantly that defendants plant is not capable of meeting the standards set out in the final amended order of the Water Resources Commission and further that in order to comply with such final order the plant in question would necessitate the addition of an additional treatment stage.

Further testimony was to the effect that the load of the defendants plant has increased since its construction and that such plant is still within the expectations of performance when constructed.

Paragraph two of plaintiffs exhibit No. 3, the same being a letter from Donald M. Pierce, Chief Waste Water Section Division of Engineering, Michigan Department of Health, dated January 9, 1964 to Mr. W.J. Maxey, Jr., Assistant Superintendent, Boys Training School, Whitmore Lake, Michigan reads as follows:

"It is imperative that you and others to whom copies of this letter are directed recognize that the point of discharge of the treated effluent would have to be altered if nuisance conditions, public health hazards, damage to fish life or other unlawfull conditions should be created. Surveillance will be maintained of the stream below the point of effluent discharge and we will advise you and others if conditions exist or land uses change requiring an alteration in the point of discharge."

Paragraph three of plaintiffs exhibit No. 9, the same being a letter dated February 27, 1964 from the above referred to Donald M. Pierce to Mr. Francis Shehan, 7209 Stone Street, Hamburg Michigan reads as follows:

"We wish to assure you and the others to whom copies of this letter are being sent that irrespective of

who owns or operates the present treatment plant its expansion will not be permitted until a thorough and complete evaluation and study is made and the matter is discussed with your Township Board and the County of Livingston with specific consideration being given to the point of discharge of the treated effluent from the expanded plant."

Paragraph 2.c of plaintiffs exhibit No. 10, the same being a letter from Mr. Donald M. Pierce dated April 6, 1964 to Mr. Donald A. Moon, 326 W. Main, Brighton, Michigan reads as follows:

"We will require that the point of discharge be relocated if it creates a nuisance, becomes a health hazard or damages fish life in Hamburg Creek, Huron River or any of the chain of lakes located in Hamburg Township."

It was the testimony of Mr. Blakeslee, a Regional Project Engineer of the Michigan Department of Public Health, after reviewing the above passages cited herein from plaintiffs exhibits that plant expansion of defendants plant was never discussed with Hamburg Township.

Mr. John M. Bohunsky, a Water Resources Commission Regional Engineer and holder of a BS and MS Degree with 11 years experience with said commission testified that in 1968 the WRC moved against 11 communities to remove phosphates and that two such communities did not comply, defendant Northfield Township herein being one of those two communities. Mr. Bohunsky testified that the water course in question is highly polluted, with nutrients, both above and below the outfall pipe and testified further that he judged the quality of the receiving waters by a visual observation made some months prior to his testimony. This witness's testimony was further that he did not know if stopping all phosphates from defendants plant would make any appreciable difference with regard to Strawberry Lake. Such witness further testified that he is in total agreement with all the standards set out in defendants exhibit No. 3 above and further opines that the receiving waters would be enhanced if the final order is complied

with. Mr. Bohunsky further testified that defendants herein have two options, 1. Remove phosphates, 2. expand plant and remove phosphates. To this witness defendant has, apparently, elected to follow No. 2 and this witness does not know whether or not Hamburg Township was ever consulted with regard to these two options being offered defendant (see excerpts from plaintiffs exhibits 2,9 and 10 set out above).

It was the further testimony of this witness that if the defendants herein comply with the amended final order of determination and damage is still being done to the receiving waters because of nutrients the levels in the order could be ordered "adjusted" or the complaint ignored even though the "standards" are being abused. See exhibit No. 15 "Water Quality Standards For Michigan Waters".

Francis B. Frost, holder of a BS in Civil Engineering, Sanitary Engineer with the Water Resources Commission for 35 years, Chief Engineer and Chief of Water Research Division and Enforcement of Water Resources Laws was the next witness of defendants herein who testified that the latest WRC order makes the effluent self sustaining if such order is complied with and further that fish could exist in such effluent and further testified that said order is extremely restrictive and has some items, such as l.c, that he feels engineers might well not be able to consistently comply with. It was the further testimony of this witness that the water course in question is so over loaded with nutrients now that the complete removal of defendants plant or the increase of its output to 750,000 gallons per day would make no difference.

It was the further testimony of this witness that there was no feasible alternate outfall site. Mr. Frost further testified that the current order of the WRC calls for a stable effluent which means that the influent does not decompose after leaving

the outfall and further that an increase to 250,000 gallons per day from 225,000 gallons per day of such stable effluent would be a non measurable impact on the receiving waters. It was Mr. Frost's further testimony that he does not recommend stable effluents being discharged into any empounded lake.

Joseph W. Price, Sanitary Public Health Engineer, Washtenaw County, BS, MS, 20 years experience, testified that there are about 2,000 dwellings in the area in question employing the use of septic tanks and that such septic tank purpose is a settlement process and not a treatment process with the idea that such waste is to be absorbed in a tile field. Mr. Price further testified that many of the cottages in the area in question are from one to three feet above ground water and that many are seasonably within the ground water.

Mr. Price accepts the latest WRC standards as proper for expansion of defendants plant to meet population growth.

Dr. Jack A. Borchardt, Professor of Sanitary and Water Resources Engineering University of Michigan testified that in 1956 he studied the Huron River for the City of Ypsilanti by the taking of 30,000 samples at 16 points over 30 miles of the river to study algae. Such studies were not compared to, in the testimony of Mr. Borchardt, present levels in the waters in question. Later grab sampling to show nutrients above and below defendants plant on the Huron River were done within the last year at Horseshoe Creek and up to Ore Lake through Strawberry Lake. High concentrations were detected at Ore Lake and such concentrations rose and fell to Horseshoe Creek. This witness further testified that the entire watershed in question has a super abundance of phosphates and that there is no reason to believe nor feels/contribution of phosphates has a marked effect on the algae already present with the recommendation that these lakes must be sewered inasmuch as septic tank use is a serious

source of contamination in the area in question.

Professor Borchardt was of the opinion that the latest Water Resource Commission recommendations were the most strict of any one would find in the country and would be productive of a high quality discharge and that such discharge would support fish. Professor Borchardt further testified that the expansion of defendants plant as planned would have little if any impact with regard to flow alone and that the important consideration is the poundage of nutrients and further that the quality of the recommended effluent is far superior to the present effluent from such plant and finally that if such plant were closed down completely it would make no difference in nutrients already in existance in the area.

In support of defendants above referred to testimony regarding the extensive use of septic tanks in the area in question and their contribution to the contamination complained of, defendants introduced into evidence exhibits No. 18 through and including No. 27 which were photographic slides of the area in question. Slide No. 22 purports to be a picture of a cottage at Ore Lake pumping water directly onto the surface of the ground. Slide No. 23 purports to be a picture of another cottage with a drainfield under construction at ground water level. Slide No. 25 depicts the East shore of Strawberry Lake showing a high concentration of cottages, the lake level line, and a retaining wall through which there appears to be a drain pipe running directly into the lake. Slides No. 26 and 27 appear to be cumulative of the content of No. 25.

Rebuttal testimony indicated that dye tests have been made at Strawberry Lake resulting in only two traces being apparent, one immediately and the other within a 24 hour surveillance. A 47 year resident on Bob White Beach testified, in rebuttal, that

in his opinion, based on his observations, the water course in question has never been as bad in the past as defendants would indicate but that such water course is currently in poor physical shape and has become so over the past several years. Further rebuttal testimony was received from a party who has lived for the past 27 years on Mill Creek which runs through her property. Such testimony indicated that before 1963 Mill Creek was used for general recreational purposes which included fishing and swimming approximately 1800 feet from the outfall pipe. Said witness further testified that said creek is now useless for swimming and fishing purposes and that she receives a highly offensive odor from said waters.

This Court finds, as a matter of law, that the State of Michigan via its paramount powers, had a right to establish the waste water disposal plant herein in question in Green Oak Township with the discharge pipe located in Hamburg Township and also had the right to, as it did, dispose of such plant as a State facility and sell the same to a lesser municipality but subject to promises and conditions made to or held out to other parties or municipalities affected by the operation of said waste water treatment plant or the location of said plant's discharge pipe.

This Court of equity holds that as a matter of law plaintiffs herein are entitled to rely on those portions of their exhibits No. 2, 9 and 10 herein set out at pages 12 and 13. Such promises, to be enforced, are hereby held to be subject to a showing that the detrimental conditions set out therein do in fact exist, which this Court so finds as a fact.

This Court finds, as a matter of fact, based on the testimony received from both plaintiff and defense witnesses under oath in open Court that the State of Michigan has not lived up to the promises contained in the exhibits above referred to.

This Court further finds, as a matter of fact, based on

the evidence and exhibits presented to it, that defendants herein have in the past and are currently discharging an effluent that pollutes the receiving waters.

This Court further finds that the quality and quantity of defendants effluent can be and will be ordered adjusted. And further, this Court finds, as a matter of fact, based upon the evidence and testimony presented to it, that not only is the existing quality of defendants effluent objectionable but that the proposed standards of quality and quantity set out in defendants exhibit No. 3 above are unreasonable and deficient when taking into account the designated use of the receiving waters.

Before adopting and specifying any particular standards in this case the Court will now address itself to the question of jurisdiction in this case of Lakeland, et al v. Township of Northfield, et al.

Defendants herein seriously contest the jurisdiction not only of this Court in this case but of the Circuit Court in general in any particular litigation wherein there has been activity of the Department of Natural Resources and/or the Water Resources Commission and such activity of such agency has been productive of an order wherein a standard has been fixed.

Public Act 127, 1970, also known as the "Thomas J. Anderson, Gordon Rockwell Environmental Protection Act of 1970", provides in section 2 thereof that any person, natural or otherwise, "may maintain an action in the Circuit Court having jurisdiction where the alleged violation occurred or is likely to occur for declaratory and equitable relief...for the protection of the air, water and other natural resources and the public trust therein from pollution, impairment or destruction."

MSA 14.528 (202) sec. 2.(2) reads as follows:

(2) In granting relief provided by subsection (1) where there is involved a standard for pollution or for an anti-pollution device or procedure, fixed by rule or otherwise, by an

instrumentality or agency of the state or a political subdivision thereof, the Court may: (a) determine the validity, applicability and reasonableness of the standard. (b) When a Court finds the standard to be deficient, direct the adoption of a standard approved and specified by the Court."

This Court finds that the above language is not mandatory. Also in this regard see section 4(2) of the Act which reads as follows:

"If administrative, licensing or other proceedings are required or available to determine the legality of the defendants conduct, the Court may remit the parties to such proceedings..."

Section 6 of the Act recites:

"This Act shall be supplementary to existing administrative and regulatory procedures provided by law."

This Court finds, as a matter of law, that it does have original jurisdiction in litigation such as is presently before the Court. This Court further finds, as a matter of law, that the litigation now before this Court is original litigation authorized by Public Act 127, 1970 and not judicial review of administrative proceedings or orders as set out in section 4 of said Act. One could legitimately confuse litigation now before this Court as one being in the nature of judicial review of an order of an administrative body in that defendants herein attempt to justify their present and future activities on a heretofore entered amended final order of determination from the Water Resources Commission. Plaintiffs herein are not appealing from such order but are merely, in the process of their original litigation, attacking the proposed future conduct of defendants herein based on such WRC Order of Determination.

Defendant, in its Brief, relies heavily on the opinion of Judge Warren, Ingham County Circuit Judge, in the matter of Roberts v. State of Michigan, et al, Ingham County Circuit Court, File No. 12428-C. This Court is of the opinion that it is not controlled by the opinion set out in Roberts by the learned Ingham County Circuit Court Judge and further finds that any

dispute between circuits must be resolved by a higher tribunal.

This Court does not believe Act 127, 1970, is unconstitutional by virtue of it having contained therein a prohibited delegation of powers. Said Act simply states that when a Court finds a standard to be unreasonable or deficient the Court may set an acceptable standard which the Court may enforce directly or order the agency involved to enforce such standard.

This Court is further of the opinion that it can direct the Water Resources Commission to adopt a different pollution standard without a judicial review of Commission proceedings wherein standards were adopted and by virtue of said Act 127 can direct the Commission to adopt different standards via judicial review of the Commission's proceedings. Such power of this Court is not inconsistent with the authority set out in said Act 127 in this regard see also Act 245, 1929 as amended by Public Acts 1970, No. 200, and Public Acts of 1969, No. 306.

In addition to the above, this Court is not unmindful of the law set out in White Lake Association v. Whitehall, 22 Mich App 262. This Court is of the opinion that White lake, and the rules set out therein, is no longer controlling in that Act 127 of 1970, specifically section 2 thereof, denies the Water Resources Commission primary jurisdiction in matters such as are now before the Court. The primary jurisdiction doctrine was the controlling factor employed by the Court of Appeals in its disposition of White lake but such doctrine was coupled with considerations of the lack of advance judicial proceedings when such doctrine was asserted and the fairness or unfairness of remitting plaintiff therein to another proceeding, and further, such doctrine was employed in the absence of the language now found in Act 127 of 1970. It should be understand herein that this Court does not disagree with the rationale for nor the necessity of the primary jurisdiction doctrine but merely points out that the same is not absolutely controlling herein.

This Court further finds, based on the evidence and testimony presented to it, that defendants present effluent discharge as a matter of fact and law is a pollutant and that the same does constitute a nuisance which is abatable via equitable and or declaratory relief. And further, this Court finds as a matter of fact and as a matter of law that such discharge by defendants of a polluted effluent is an unreasonable use of these waters and is Violative of plaintiffs riparian rights. This Court further finds that the offensive quality of defendant's effluent can be corrected by the adjustment of standards, heretofore set out, to improve the quality of such effluent to a state acceptable by this Court.

Section 3(1) of the Act sets forth the standards of evidentiary showings in such matters now before the Court. Without taking issue as to the legislature's power to set rules of evidence in court this court will accept, arguendo, the standards set out in said section 3(1) which reads as follows:

"When the plaintiff in the action has made a prima facie showing that the conduct of the defendant has, or is likely to pollute, impair or destroy the air, water or other natural resources or the public trust therein, the defendant may rebut the prima facie showing by the submission of evidence to the contrary. The defendant may also show, by way of an affirmative defense, that there is no feasible and prudent alternative to defendant's conduct and that such conduct is consistent with the promotion of the public health, safety and welfare in light of the state's paramount concern for the protection of its natural resources from pollution, impairment or destruction."

This Court finds as a matter of fact and as a matter of law that the plaintiff herein has established a Prima Facie showing that the conduct of the defendants herein has polluted and is likely to continue to pollute the natural resources in question. It is the further finding of this Court as a matter of fact and as a matter of law that although the defendant has submitted its case and evidence that such Prima Facie case of

plaintiffs herein has not been overcome. It is the further finding of this Court that the affirmative defense raised by the defendants herein of there being no feasible and prudent alternative to their conduct has not been borne out by defendants proofs. Defendants merely recited, through their witnesses, that there was no reasonable and feasible alternatives to their actions and did not support such recitations with facts other than alluding to economic considerations. Defendants also admitted, by way of their proofs, that present and future population below the outfall pipe had not been taken into consideration at the original construction of their waste water treatment plant and apparently is being ignored currently upon their request to continue operation and expand the volume of their discharge.

Plaintiffs herein, in their Complaint, seek relief from this Court which this Court feels presently may be overly harsh in view of the fact that it is the opinion of this Court that the polluting effect of defendants effluent into plaintiffs receiving waters can be negated and that the receipt of a clean non polluting effluent into plaintiffs receiving waters from defendants waste water treatment plant will not injure plaintiffs herein.

If defendants herein elect not to abide by the hereinafter judicially redetermined effluent standards they are at complete liberty to forthwith cease discharging their effluent in such a manner and at such a place as the same finds its way into, either directly or indirectly, the receiving waters of plaintiffs herein. This may well be accomplished by defendants herein either relocating or constructing anew its outfall pipe to a point of discharge not offensive to plaintiffs herein or their receiving waters.

By authority of MSA 14.528 (202) sec. 2 (2) (a) (b) this Court finds the standards setforth in paragraph 1.a to f of an

nded final order of determination No. 1315, dated October 15, 1969 of the State of Michigan Water Resources Commission to be deficient and directs said Water Resources Commission to adopt the following standards setforth herein as substitutes for and in lieu of the standards setforth in said Water Resources Commission's amended final order of determination No. 1316.

Said judicially directed redetermined standards, and additional standards, shall read as follows:

1. "Treat or control the sewage and wastes collected by its system of sewers and drains to the extent that when discharged from its waste water treatment plant to the Horseshoe Drain or any other water course they shall:
 - a. Contain not more than four (4.0) milligrams per liter of oxygen consuming substances as measured by the five-day biochemical oxygen demand (BOD) test.
 - b. Contain not more than ten (10.0) milligrams per liter of suspended solids.
 - c. Contain not more than five tenths (0.5) milligram per liter of ammonia nitrogen as $\text{NH}_3\text{-N}$.
 - d. Contain not more than one thousand (1,000) total coliform per one hundred (100) milliliters and the average of any series of ten consecutive samples shall not exceed 1,000 coliform per one hundred (100) milliliters. The average fecal coliform density for the same ten consecutive samples shall not exceed 100.
 - e. Contain not more than twenty percent (20%) of the phosphorus contained in the influent to the waste water treatment facility. Township of Northfield, Washtenaw County is ordered to begin complying with this standard forthwith.
 - f. Contain not less than ten (10.0) milligrams per liter of dissolved oxygen (DO).
 - g. Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the receiving waters designated use of recreational, total body contact.
 - h. The temperature of such effluent discharge shall not exceed ninety degrees fahrenheit.

It is the further order of this Court that said water Resources Commission shall adjust, where necessary, the time

schedule set forth in item 2 a through 2 d of said amended order No. 1316, dated October 15, 1969.

It is the further order of this Court that in the event that defendants herein elect not to cease discharging their effluent into plaintiffs receiving waters that the herein judicially redetermined water effluent standards shall be put into effect under a time table to be set by the Water Resources Commission with the exception of the phosphate removal requirement (see e above) which shall be complied with forthwith.

It is the further order of this Court that defendant Northfield Township shall forthwith meet with officials of Hamburg Township and officials of Livingston County, Michigan for a complete disclosure to said officials of their intentions which shall include but not be limited to plant expansion plans and a time table of increased discharge volume up to but not to exceed 750,000 gallons per day of effluent in conformity with the herein judicially redetermined effluent standards.

It is the further order of this Court that defendant herein is no longer restrained from physically increasing the size of its waste water disposal plant but that said defendant cannot and is hereby ordered not to increase the volume of its daily discharges beyond 250,000 gallons per day until further order of the Court and the Court being satisfied, at that time, that the above judicially set standards have been met and will be regularly met and will continue to be met as the discharge volume increases and further that the Court is satisfied that plaintiffs receiving waters will not be polluted by such increase in volume of effluent discharge.

It is the further order of this Court that this Court shall retain jurisdiction of this matter pending completion of the redesignated time schedules mentioned above by the Water Resources Commission.

It is the further order of this Court that pending further

action of the Water Resources Commission temporary restraining orders may issue, as needed, to maintain the present status quo.

It is the further order of this Court that defendants herein are restrained from issuing any new tap-in permits or increasing the number of units or users of their waste water treatment plant if such increase in units or users will provide a discharge in excess of 250,000 gallons per day, notwithstanding the language of the perceeding paragraph.

It is the further order of this Court that plaintiffs herein are directed to prepare an order in conformity with this opinion of the Court, circulate the same amongst all parties hereto for consent as to form and content and present the same for entry no later than 20 days from the date of receipt of this opinion. In the event that plaintiff cannot secure such signatures or that defendants refuse to affix their signatures the same may be brought on for entry, after notice, on a regular motion day.


PAUL R. MAHIWSKE, Circuit Judge

STATE OF MICHIGAN
IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS ASSOCIATION,
a Michigan unincorporated voluntary
association, and TOWNSHIP OF HAMBURG,
a Michigan body corporate, jointly
and severally,

Plaintiffs,

AND

PORTAGE AND BASE LAKE ASSOCIATION,
INC., a Michigan non-profit corporation,

Civil Action

No. 1453

Intervening Plaintiff,

vs.

TOWNSHIP OF NORTHFIELD, a Michigan
body corporate,

Defendant,

AND

TOWNSHIP OF GREEN OAK, a Michigan
body corporate,

Intervening Defendant.

FILED

MAY 4 1972

COUNTY CLERK
Howell, Mich

ORDER

At a session of said Court held
in the Courthouse in Howell, Michi-
gan, this 4 day of MAY,
1972.

PRESENT: THE HONORABLE PAUL R. MAHINSKE
Circuit Judge

This non-jury cause having been tried, argued, briefed and
submitted in July of 1971, the Court being fully advised in the
premises, and pursuant to the Opinion filed herein on February
29, 1972, containing certain findings of fact and conclusions
of law; now, therefore,

IT IS HEREBY ORDERED, ADJUDGED and DECREED as follows:

I. That the standards contained in paragraph 1 of the Amended Final Order of Determination, No. 1478, dated March 18, 1971, of the State of Michigan Water Resources Commission are deficient and said Water Resources Commission is hereby directed to substitute therefor the following redetermined and additional standards:

1. Treat or control the sewage and wastes collected by its system of sewers and drains to the extent that when discharged from its waste water treatment plant to the Horseshoe Drain or any other water course they shall:
 - a. Contain not more than four (4.0) milligrams per liter of oxygen consuming substances as measured by the five-day biochemical oxygen demand (BOD) test.
 - b. Contain not more than ten (10.0) milligrams per liter of suspended solids.
 - c. Contain not more than five tenths (0.5) milligram per liter of ammonia nitrogen as $\text{NH}_3\text{-N}$.
 - d. Contain not more than one thousand (1,000) total coliform per one hundred (100) milliliters and the average of any series of ten consecutive samples shall not exceed one thousand (1,000) coliform per one hundred (100) milliliters. The average fecal coliform density for the same ten consecutive samples shall not exceed one hundred (100).
 - e. Contain not more than twenty percent (20%) of the phosphorus contained in the influent to the waste water treatment facility. Township of Northfield, Washtenaw County is ordered to begin complying with this standard forthwith.
 - f. Contain not less than five (5.0) milligrams per liter of dissolved oxygen (DO), and at no time less than seventy-five percent (75%) of the saturated dissolved oxygen at the actual temperature of the effluent discharge.
 - g. Concentrations of substances of unnatural origin shall be less than those which are or may become injurious to the receiving waters designated use of recreational, total body contact.
 - h. The temperature of such effluent discharge shall not exceed ninety (90) degrees Fahrenheit.

II. That, in the event defendants elect to continue discharging effluent into plaintiffs' receiving waters, the time

schedules contained in paragraph 2 of said Amended Final Order of Determination, No. 1478, shall be adjusted where necessary by said Water Resources Commission, except that the new phosphate removal standard contained in subparagraph e of paragraph 1 shall be complied with forthwith.

III. That defendant NORTHFIELD TOWNSHIP shall forthwith meet with officials of HAMBURG TOWNSHIP and officials of Livingston County and shall make a complete disclosure to said officials of the intentions of NORTHFIELD TOWNSHIP respecting its sewage treatment plant, including but not limited to plant expansion plans and a timetable of increased discharge volume up to but not to exceed 750,000 gallons per day of effluent in conformity with the judicially redetermined effluent standards set forth in part I of this Order.

IV. That NORTHFIELD TOWNSHIP is no longer restrained from increasing the size of its waste water disposal plant but that said defendant shall not increase the volume of its effluent discharges beyond 250,000 gallons per day until further order of this Court, and the Court being satisfied, at that time, that the above judicially set standards have been met and will be regularly met and will continue to be met as the discharge volume increases and further that the Court is satisfied that plaintiffs receiving waters will not be polluted by such increase in volume of effluent discharge.

V. That this Court shall retain jurisdiction of this matter pending completion of all matters set forth in the redesignated time schedules referred to in paragraph II above.

VI. That pending further action of the Water Resources Commission, temporary restraining orders may issue as needed to maintain the present status quo.

VII. That defendants NORTHFIELD TOWNSHIP and GREEN OAK TOWNSHIP are restrained from issuing any new tap-in permits or increasing the number of units or users of their waste water treatment plant if such increase in units or users will result in a discharge in excess of 250,000 gallons per day, notwithstanding any contrary language in this Order.


Circuit Judge

PREPARED AND PRESENTED BY:


Peter A. Davis
HOOPER, HATHAWAY, FICHERA,
PRICE & DAVIS
Tenth Floor, First National Bldg.
Ann Arbor, Michigan 48109
662-4426

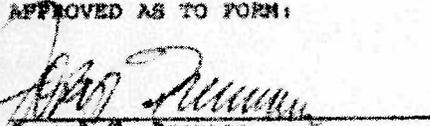
Attorneys for Plaintiffs.

APPROVED AS TO FORM AND CONTENT:


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Attorneys for Intervening Plaintiff.

APPROVED AS TO FORM:


Joseph T. Brennan
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851-6111

Attorneys for Defendant and for
Intervening Defendant.

LEASE OF SEWAGE DISPOSAL SYSTEM
AND SEWAGE TREATMENT AGREEMENT

This Agreement made this 30 day of September, 1969, between the Township of Northfield, Wasténow County, Michigan (herein called Northfield) and the Township of Green Oak, Livingston County, Michigan, (herein called Green Oak).

WHEREAS, Green Oak is constructing a sanitary sewage collection system, herein called the Green Oak system, which system consists of those sanitary sewers constructed by the Township of Green Oak in accordance with its Whitmore Lake West Side Special Assessment Sewer Improvement and its Whitmore Lake East Side Special Assessment Sewer Improvement.

NOW THEREFORE, the parties agree as follows:

1. In consideration of the sum of One (\$1.00) Dollar in hand paid to it by Northfield, receipt of which is hereby acknowledged, and other good and valuable considerations as set forth in this Agreement, Green Oak hereby leases to Northfield and Northfield hereby leases from Green Oak, the sanitary sewers located within the Township of Green Oak and described fully in the plans and specifications filed as a part of the Green Oak Township Special Assessment Improvement known as the Whitmore Lake West Side Special Assessment Sewer Improvement and the Whitmore Lake East Side Special Assessment Sewer Improvement for an initial term commencing on the date hereof and terminating on December 31, 1979. After the initial term of this lease, it shall be extended automatically for successive terms of ten (10) years each. The Agreement may be terminated by either party, after the expiration of the initial term, upon one years written notice served upon the other party by delivering the same to the Clerk of the municipality upon which notice is to be served. The lease may be terminated at any time upon the mutual consent of both parties.

2. During the term of this lease or any extension thereof, Northfield shall maintain and operate the Green Oak system, so far as lawful and practicable, in the same manner as it maintains and operates the Northfield system, including the billing directly to, and collection of all rates, charges and fees directly from the users of the Green Oak system. All Northfield books and records pertaining to the Green Oak system shall be available to Green Oak for inspection by its authorized agents and representatives.

3. Northfield shall provide the services hereunder to the users of the Green Oak system at the rates, charges and fees established for similar users of the Northfield system by ordinances of Northfield. Northfield shall give ninety (90) days notice of any change in said rates, charges and fees to Green Oak in writing, delivered in person or by mail to the Green Oak Township Clerk.

4. Annually, and prior to September 1, Northfield shall certify to the Green Oak Township Assessing Officer all the said rates, charges and fees, together with interest and penalties, owing by users of the Green Oak system and delinquent for six (6) months or more, and such assessing officer shall enter the same on the Green Oak tax roll as a lien against the premises to which such services have been rendered, and Green Oak shall enforce the lien and shall collect said sums as provided by law. Green Oak shall promptly remit to Northfield all sums so collected. If Green Oak fails or neglects to so enter such delinquent charges on its next tax roll, Green Oak shall pay Northfield such charges not later than December 1, of the year of such certification.

5. During the term of this Agreement, Northfield shall perform such maintenance and repairs as shall be necessary to Green Oak's system to the extent possible from the normal revenue of the combined Northfield-Green Oak system. Northfield shall not be obligated to reconstruct or repair parts of the Green Oak system damaged or destroyed by natural disaster, war or

insurrection or similar unusual happenings beyond Northfield's control.

6. The execution of this lease shall be deemed to be the formal consent of the Township of Green Oak to the exercise by Northfield of its powers under Act 94 of the Public Acts of 1933, as amended, within the Township of Green Oak and Northfield is hereby granted a franchise to transact local business in Green Oak Township as may be convenient and necessary to provide the service required under this lease.

7. Northfield shall furnish Green Oak all ordinances, rules and regulations of Northfield pertaining to the Northfield system and Green Oak shall promptly adopt, enact and establish similar ordinances, rules and regulations to effect, so far as practicable, uniformity thereof throughout the Northfield and Green Oak Systems. Green Oak shall be liable to Northfield for any loss or damage of Northfield by reason of Green Oak's neglect or failure to adopt, enact, establish and enforce its said ordinances, rules and regulations.

8. It is understood and agreed by both parties hereto that the Green Oak system has been constructed for the reception and transporation of sanitary sewage only and Green Oak shall take such reasonable steps as are necessary to prevent the introduction thereto of storm or surface drainage.

9. Green Oak agrees that Northfield's standards and specifications from time to time in effect shall govern the installation and maintenance of sewers in the Green Oak system and that plans and specifications for any extensions, alterations or replacements within the Green Oak system shall be submitted to Northfield for approval prior to construction.

10. In the event proper operation of the Northfield system requires Northfield to discontinue temporarily all or a part of service to be rendered to Green Oak hereunder, no claims for damages for such discontinuance shall be made by Green Oak against Northfield, provided that any action hereunder by Northfield shall not discriminate between customers of the

Northfield system and customers of the Green Oak system.

11. To the extent necessary Green Oak hereby grants permission to Northfield to use streets, highways, alleys and/or easements in the Township for the purpose of constructing, maintaining and operating such parts of the Northfield system as are necessary to provide service to the Green Oak system.

12. The parties recognize the possibility that the revenues of the Northfield system, including revenues received from the Green Oak system, may from time to time be insufficient to meet the obligations of Northfield under a certain contract dated July 12, 1967, between Northfield and the Huron Utilities Association, or under any bonds or other contractual undertakings of Northfield for financing future improvements or extensions of the sewage treatment plant and disposal facility which are necessary to provide continued service to Green Oak. In the event of such deficiencies, and to the extent that Northfield has pledged its faith and credit under said bonds, contracts, or other contractual undertakings to advance funds, to meet deficiencies, Green Oak shall be obligated to pay to Northfield its share of such deficiency in the relative proportion of said sum as the then number of customers capacity of the Green Oak system bears to the total number of customer capacity of the combined Northfield and Green Oak systems. It is understood by both townships that such payments of Northfield and Green Oak would be in the nature of advances to the sewage disposal system and that Northfield will adjust its rates so as to provide funds and to meet future payments under said bonds, contract or other contractual undertakings as they become due and to provide a fund from which Northfield and Green Oak will be reimbursed for said advancements within a reasonable period of time.

13. In the event of the termination of this lease, Northfield shall continue to accept, treat, and dispose of

sanitary sewage emanating from the Green Oak system until December 31, 1999, unless sooner terminated by Green Oak upon five (5) year's written notice served upon Northfield by delivering the same to the Clerk of the other municipality or may be terminated at any time upon mutual consent of both parties. Such continued service shall be upon such reasonable conditions and rates as shall be agreed upon by the parties hereto.

14. This Agreement shall inure to the benefit of and be binding upon the respective parties hereto, their successors and assigns and shall take effect upon its adoption and execution by the respective parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by respective, duly authorized officers as of the day and year first written.

In the presence of:

TOWNSHIP OF GREEN OAK

By: Kenneth J. For each
Supervisor

By: Monro W. Young
Clerk

TOWNSHIP OF NORTHFIELD

By: Peter J. Kelly
Supervisor

By: Charles A. Port
Clerk

STATE OF MICHIGAN
IN THE CIRCUIT COURT FOR THE COUNTY OF LIVINGSTON

LAKELAND PROPERTY OWNERS' ASSOCIATION, a Michigan
unincorporated voluntary association, and
TOWNSHIP OF HAMBURG, a Michigan Municipal
Corporation, jointly and severally,

Plaintiffs,

and

MORTGAGE AND BASE LAKES ASSOCIATION, INC.,
a Michigan non-profit Corporation,

Intervening Plaintiff,

vs.

No. 1453

TOWNSHIP OF NORTHFIELD, a Michigan Municipal
Corporation,

Defendant,

and

TOWNSHIP OF GREEN OAK, a Michigan Municipal
Corporation,

Intervening Defendant.

FILED

ARTHUR M. CARPENTER
Attorney for Plaintiffs

(P-2825)

JOHN B. LAIRD
Attorney for Intervening Plaintiff

(P-18248)

DALE E. COOPER
Attorney for Intervening Defendant

(P-13050)

DOUGLAS K. READING
Attorney for Defendant

(P-19373)

SEP 11 1970
COUNTY CLERK
LIVINGSTON

SUPPLEMENTAL ORDER

At a session of said Court held in the
Courtroom in Howell, Michigan this
11 day of Sept 1970.

PRESENT: THE HONORABLE PAUL R. MAHONEY,
Circuit Judge

By order made and entered May 14, 1971 herein this Court having
retained jurisdiction in the above entitled action pending completion of all

matters in the redesignated time schedules referred to in paragraph II of said order, and

Upon motion of Defendant Township of Northfield and Defendant Township of Green Oak for a supplemental order herein it appearing that the improvement of the Northfield Township wastewater treatment facility is substantially completed in conformance to the design thereof, and that the performance of that facility is meeting and exceeding all effluent requirements imposed by the May 12, 1977 order herein, and the Court being fully advised in the premises, now, therefore,

IT IS ORDERED AND ADJUDGED AS FOLLOWS:

1. That the said motion be and hereby is granted, the Court hereby determining that the effluent requirements heretofore imposed by said order have been met, complied with and satisfied.

2. That the Defendant Township of Northfield be and hereby is authorized to increase the volume of effluent to be discharged from the said wastewater treatment facility to a total volume not exceeding 750,000 gallons per day.

3. That the continuing provision of prior orders in this captioned case be and hereby are vacated excepting that this Court shall retain jurisdiction hereinafter provided for effluent quality set by this Court on May 12, 1977 shall be continued in effect and the monthly operating reports shall be filed with the Clerk of Court of the Circuit Court of this State in public record, until further order of the Court.

Approved and decreed to:

Paul H. McKinley
Circuit Judge

John P. Hathaway
Attorney for Plaintiff Township

John E. Grant
Atty for Defendant Project Owners

John E. Grant
Atty for Green Oak Township (amicus)

Richard H. [unclear]
Atty for Northfield Township

Richard H. [unclear]
Atty for Portage and Eau Claire Counties