



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

April 4, 2011

Mr. Bruce F. Zimmerman, Director of Public Works
City of Mackinac Island Wastewater Treatment Plant
3134 Stone Cliffe Road
Mackinac Island, Michigan 49757

Dear Mr. Zimmerman:

SUBJECT: Septage Receiving Facility Operating Plan Approval for City of Mackinac Island Wastewater Treatment Plant

The Department of Environmental Quality (DEQ), Resource Management Division (RMD), has completed the review of the City of Mackinac Island (Mackinac Island) Wastewater Treatment Plant (Plant) Septage Waste Operating Plan (Operating Plan.) The Operating Plan is approved and meets the requirements outlined in Section 11715b of Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The Mackinac Island Plant approved Operating Plan will be posted on the Septage Program Web site and can be viewed at <http://www.michigan.gov/septage> by clicking the "Approved Septage Waste Receiving Facility Operating Plans" link.

The receiving facility must operate in accordance with the approved operating plan. If a change in operations or conditions is anticipated, please file an amendment to the operating plan at least thirty (30) days prior to the proposed date for implementation.

Thank you for your continued environmental stewardship and service to those with on-site wastewater systems in and around your community and those who service them. If you have any questions regarding this matter, please contact me via e-mail at burutolu@michigan.gov; at either of the telephone numbers listed below; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Ebi Burutolu, Soil Scientist
On-Site Wastewater Unit
Solid Waste and Land Application Section
Resource Management Division
Lansing-Phone: 517-241-4598
Warren-Phone: 586-753-3773

cc: Mr. Nick Derusha, Luce-Mackinac-Alger-Schoolcraft District
Mr. Steven Casey, DEQ-Upper Peninsula District Office

February 1, 2011
Project No. G080509SRP

Luce, Mackinac, Alger, Schoolcraft District Health Department
Mackinac County Regional Office
749 Hombach Street
St. Ignace, MI 49781

RE: CITY OF MACKINAC ISLAND WASTEWATER TREATMENT PLANT (WWTP)
SEPTAGE RECEIVING FACILITY OPERATING PLAN
LETTER OF NOTIFICATION

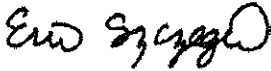
This letter of notification is being sent on behalf of Mr. Bruce Zimmerman of the City of Mackinac Island (City) Department of Public Works. To continue accepting hauled septage waste for treatment at the WWTP, the City is required by the Michigan Department of Natural Resources and Environment (MDNRE) to develop a Septage Receiving Facility Operating Plan. This Operating Plan describes the conditions under which the WWTP will accept hauled domestic septage for treatment; the Plan will be submitted to the MDNRE for approval.

The Operating Plan is available for review during normal business hours at the Mackinac Island City Hall, located at 7358 Market Street, Mackinac Island, Michigan. Written comments may be submitted to Mr. Zimmerman, Director of Public Works, City of Mackinac Island, P.O. Box 515, Mackinac Island, MI 49757, and will be accepted for consideration for up to 30 days following this listed date of notification.

If you have any questions or require additional information, please contact me at 248-324-1582 or ehszczegielniak@ftch.com.

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.



Erin H. Szczegielniak

dmg
By U.S. Mail
cc: Mr. Bruce Zimmerman – City of Mackinac Island (by e-mail)

ftch

engineers
scientists
architects
constructors

39255 Country Club Dr.
Suite B-25
Farmington Hills, MI
48331
ph: 248.324.2090
fax: 248.324.0930
www.ftch.com



Fishbeck, Thompson, Carr & Huber, Inc.

February 1, 2011
Project No. G080509SRP

City of Mackinac Island
P.O. Box 455
Mackinac Island, MI 49757

RE: CITY OF MACKINAC ISLAND WASTEWATER TREATMENT PLANT (WWTP)
SEPTAGE RECEIVING FACILITY OPERATING PLAN
LETTER OF NOTIFICATION

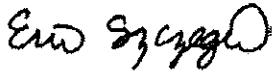
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Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.



Erin H. Szczegielniak

dmg

By U.S. Mail

cc: Mr. Bruce Zimmerman – City of Mackinac Island (by e-mail)

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engineers
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constructors

39255 Country Club Dr.
Suite B-25
Farmington Hills, MI
48331
ph: 248.324.2090
fax: 248.324.0930
www.ftch.com



Fishbeck, Thompson, Carr & Huber, Inc.



Septage Waste Receiving Facility Operating Plan

City of Mackinac Island
Project No. G080509SRP
March 23, 2011

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1.0 Introduction

Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451 (Part 117), regulates the pumping, disposal, and land application of septage waste. To comply with Part 117, a septage receiving facility must develop a Septage Receiving Facility Operating Plan.

2.0 Applicability

A septage receiving facility, as defined by Part 117, as amended, includes a wastewater treatment plant (WWTP) that accepts septage. The Mackinac Island WWTP is currently a receiving facility of septage and will continue to be a receiving facility; therefore, the Mackinac Island WWTP has developed and adopted this Septage Receiving Facility Operating Plan.

Only domestic and food establishment septage is accepted at the Mackinac Island WWTP. For this Operating Plan, domestic septage is defined as the sanitary septic waste pumped from residential or commercial (i.e., hotel) septic tanks only.

3.0 Service Area

The service area is the whole of Mackinac Island, which is approximately 3.8 square miles. (Hauled septage waste may not be transported on to, or off of, the Island due to transportation limitations. Therefore the service area is smaller than the maximum allowable twenty-five mile radius for most WWTPs.)

4.0 Facility Location

4.1 WWTP LOCATION

The Mackinac Island WWTP is located at 3134 Stone Cliffe Road, Mackinac Island, Michigan, as illustrated in Figure 1.

4.2 SEPTAGE RECEIVING FACILITY LOCATION

The Mackinac Island WWTP headworks serves as the Septage Receiving Facility. Septage is offloaded into the equalization basin prior to grit removal, as indicated in Figure 2.

4.3 FACILITY CONTACT

To schedule a septage delivery, please contact the Mackinac Island WWTP at 906-847-3278. To discuss this Operating Plan, please contact Mr. Bruce F. Zimmerman, Director of Public Works, at 906-847-6130.

5.0 Hours of Operation

Regular delivery of all septage to the Mackinac Island WWTP shall occur only during the fall season (September 15 through October 31), and must be scheduled in advance for delivery between Monday and Friday during the hours of 8 a.m. to 12 p.m. Exceptions are made on an as-needed-basis and special appointments may be made throughout the year to deliver smaller septage loads (e.g., in servicing a single residential tank). There are no deliveries on holidays.

6.0 Septage Volume Restrictions

Due to the unique nature of Mackinac Island as a major seasonal tourist site, the Department of Public Works currently makes arrangements for residential septic tanks in need of pumping to be serviced in the fall, typically during the month of October. This restricts septage loading to the Mackinac Island WWTP to after the peak tourist season is over and prior to winterizing major portions of the WWTP.

Considering these circumstances, the allowable septage volume per day was calculated based on 1) the full WWTP design capacity; 2) a 10% safety factor; 3) average background hydraulic flows and organic loads typical for the Mackinac Island WWTP during the month of October; and 4) assumed septage characteristics (i.e., milligrams per liter of five-day biochemical oxygen demand, total suspended solids, phosphorus, and ammonia as nitrogen). Assumed septage characteristics were based on data from the Michigan Department of Natural Resources and Environment (MDNRE) or site specific data, whichever was more conservative. As presented in Table 1, the controlling design parameter is total suspended solids.

Based on the Mackinac Island WWTP's design capacity for total suspended solids, it can accept up to thirteen thousand (13,000) gallons of septage per day. Delivery volumes are recorded by WWTP operating staff. If the daily limit is met, no additional deliveries will be accepted unless authorized by the Mackinac Island Department of Public Works.

Acceptance of septage waste is contingent upon acceptable plant operation and effluent discharge quality. In the interest of protecting the treatment processes and preventing plant overload, the Department of Public Works reserves the right to refuse any septage waste without advanced notice.

7.0 Fee Structure

The current charge to offload septage to the Mackinac Island WWTP is \$70 per thousand gallons. Fees are subject to change without notice. Please contact the Mackinac Island Department of Public Works to verify these fees.

8.0 Invoicing

Septage haulers shall establish an account with the Department of Public Works. The information required for invoicing will be updated as necessary. Upon arrival at the Mackinac Island WWTP, staff records the nominal volume of the septage hauling truck and the number of deliveries the truck makes. Septage delivery records are forwarded to the Department of Public Works for review. The Department of Public Works totalizes the thousands of gallons discharged by each hauler and invoices accordingly.

Any septage hauler failing to compensate the Department of Public Works within 30 days of the invoice date may lose service privileges with the Mackinac Island WWTP.

9.0 Septage Receiving Procedure

9.1 ACCEPTANCE PROCEDURE

Due to the very limited accessibility of septage hauling trucks to Mackinac Island, there is no formal application or permitting process to authorize a hauler to discharge to the WWTP. Septage haulers must have a valid, current Septage License from the MDNRE.

9.2 UNLOADING PROCEDURE

At an appointed time, a hauler may arrive at the Mackinac Island WWTP to deliver and offload septage waste. Mackinac Island WWTP operating staff records the date, time, hauling company, and thousands of gallons to be discharged.

The septage truck will be directed by WWTP staff to pull up outside the WWTP headworks. A quick-connect (cam lock) on the northwest side of the headworks building allows a truck to unload the septage through a 4-inch hose and down-turned elbow directing into the equalization basin inside the headworks building. Unloaded septage drains out of the basin to mix with the influent wastewater stream and passes through the aerated grit chamber for preliminary treatment.

10.0 General Prohibited Discharges

Septage haulers shall deliver only domestic sanitary septage and food establishment septage to the Mackinac Island WWTP. **Unacceptable wastes** include, but are not limited to, portable toilet waste, grease trap waste, and any chemically compromised septage of suspected illicit origin. (Recreational vehicles are not permitted on Mackinac Island and therefore are not of concern.)

11.0 Public Notice

The enclosed public notice was published weekly in the local newspaper, *St. Ignace News*, on February 16, 2011. The comment period was open through March 18, 2011. No written comments were received.

The two Letters of Notification (attached) were sent to the following authorities of the service area on February 1, 2011.

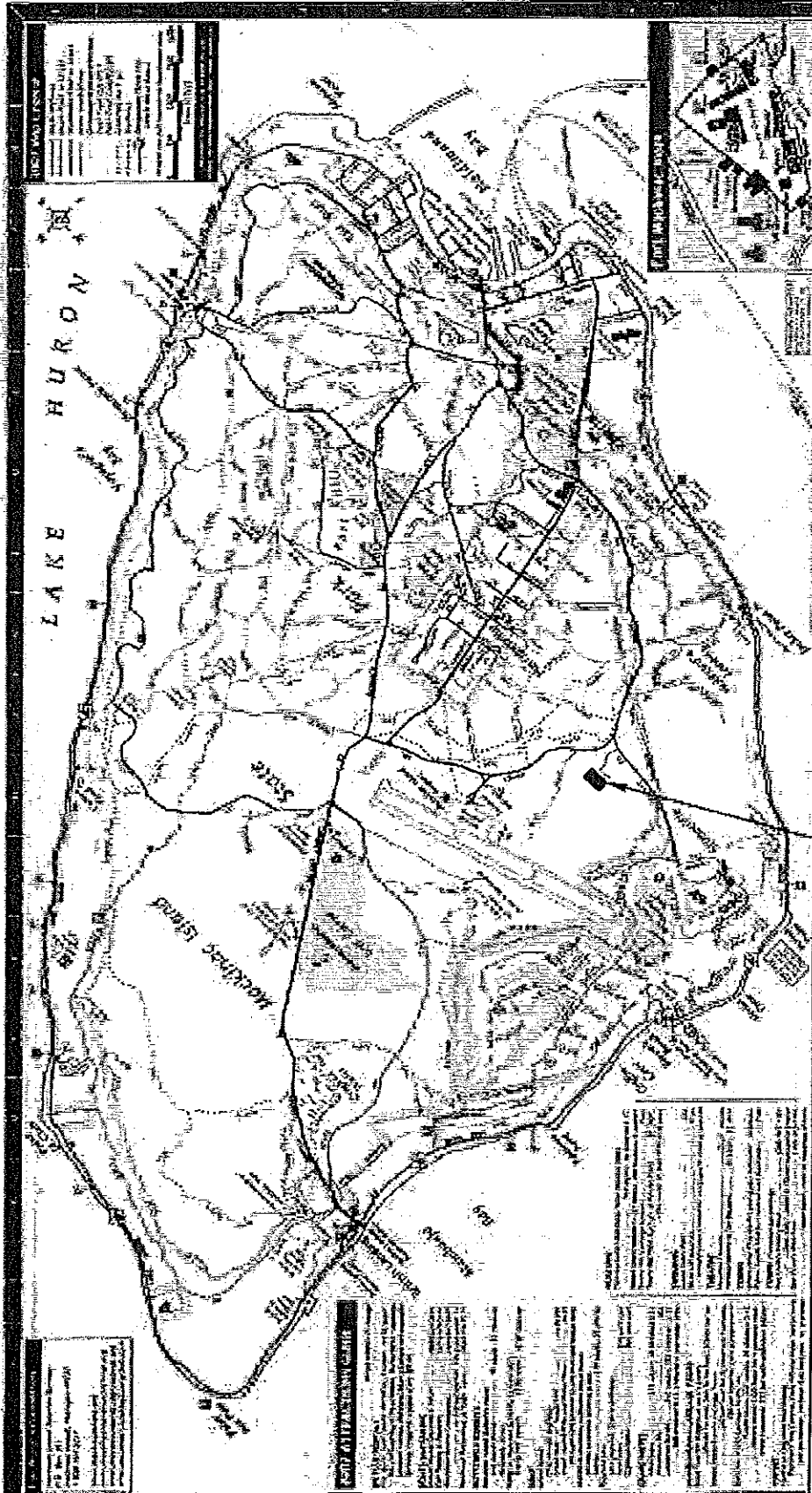
- Luce, Mackinac, Alger, Schoolcraft District Health Department – Mackinac County Regional Office.
- City of Mackinac Island.

The corresponding comment period was open for 30 days. No written comments were received.

Attachments:

- Figure 1 – Map of Service Location
- Figure 2 – Septage Receiving Facility Location Map
- Table 1 – Calculations for Septage Capacity
- Public Notice Publication
- Letter of Notification to LMAS District Health Department
- Letter of Notification to City of Mackinac Island

PLOT INCR. J:\G080509SRP\FIGURES\FIGURE.DWG DATE: 12/03/2010 TIME: 10:45:34 AM USER: RST



WASTEWATER TREATMENT PLANT

MAP OF SERVICE AREA

PROJECT NO. G080509SRP

FIGURE NO. 1

City of Mackinac Island
Mackinac Island, Mackinac County, Michigan
Septage Receiving Facility
Operating Plan

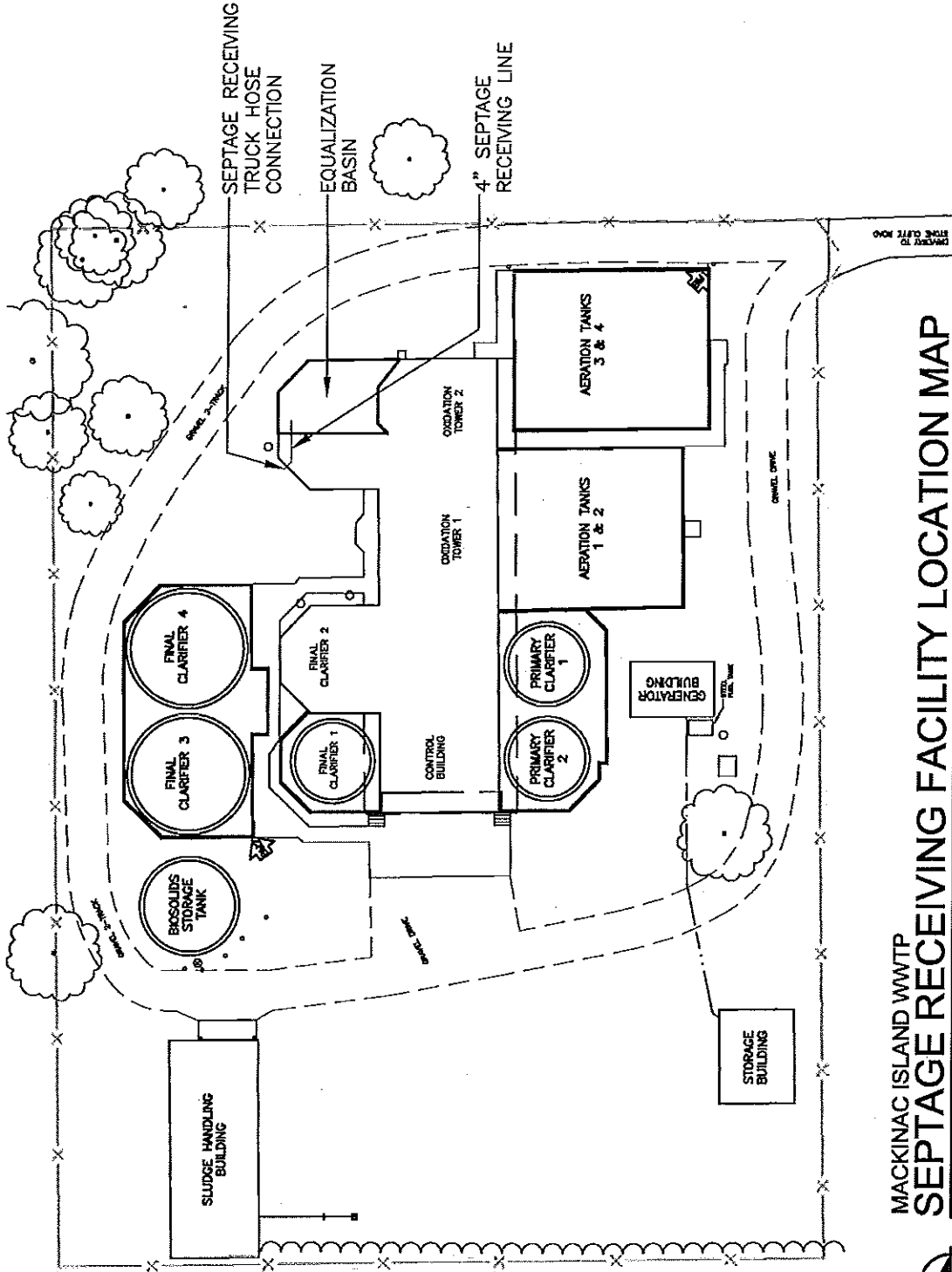
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Heiback, Thompson, and A. Huber, Inc.

engineers
scientists
architects
constructors

fic&h

PLOT INFO: U:\CADD\080509SRP\FIGURES\FIGURE2.DWG DATE: 1/11/2011 TIME: 10:06:11 AM USER: RS2



MACKINAC ISLAND WWTTP
SEPTAGE RECEIVING FACILITY LOCATION MAP

SCALE: 1" = 40'



fic&h
 engineers
 scientists
 architects
 constructors

fishbeck, thompson,
 carr & huber, inc.

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City of Mackinac Island
 Mackinac Island, Mackinac County, Michigan
Septage Receiving Facility
 Operating Plan

PROJECT NO.
 G080509SRP

FIGURE NO.

2

Table 1: City of Mackinac Island WWTP - Septage Capacity

| 1. WWTP Basis of Design | | | 2. Safety Factor of 10% | | | 4. Septage | | |
|-------------------------|------|--------|---|-------|--------|---------------------------------------|--------|------------------|
| Avg Day Flow | 0.96 | MGD | Loadings | | | Available WWTP Capacity | | |
| | | | BOD ₅ | 600.3 | lb/day | BOD ₅ | 4717 | lb/day |
| Concentrations | | | TSS | 520.2 | lb/day | TSS | 3924 | lb/day |
| BOD ₅ | 750 | mg/L | Phos | 5.0 | lb/day | Phos | 28.3 | lb/day |
| TSS | 650 | mg/L | NH ₃ | 24.0 | lb/day | NH ₃ | 127 | lb/day |
| Phos | 6.2 | mg/L | | | | | | |
| NH ₃ | 30 | mg/L | 3. Background (5-yr avg for Oct) | | | Assumed Septage Concentrations | | |
| | | | Avg Day Flow | 0.437 | MGD | BOD ₅ | 6500 | mg/L |
| Loadings | | | Concentrations | | | TSS | 34,000 | mg/L |
| BOD ₅ | 6003 | lb/day | BOD ₅ | 188 | mg/L | Phos | 210 | mg/L |
| TSS | 5202 | lb/day | TSS | 208 | mg/L | NH ₃ | 164 | mg/L |
| Phos | 50 | lb/day | Phos | 4.5 | mg/L | | | |
| NH ₃ | 240 | lb/day | NH ₃ | 24.5 | mg/L | Equivalent Septage Volume | | |
| | | | Loadings | | | BOD ₅ | 87,053 | gpd |
| | | | BOD ₅ | 684.9 | lb/day | TSS | 13,844 | gpd |
| | | | TSS | 757.8 | lb/day | Phos | 16,144 | gpd |
| | | | Phos | 16.4 | lb/day | NH ₃ | 92,765 | gpd |
| | | | NH ₃ | 89.3 | lb/day | 5. Allowable Septage Volume | | |
| | | | | | | 13,000 | gpd | (TSS controlled) |

Abbreviations:

| | | | |
|------------------|------------------------------------|-----------------|------------------------|
| BOD ₅ | five day biochemical oxygen demand | mg/L | milligrams per liter |
| gpd | gallons per day | NH ₃ | ammonia as nitrogen |
| lb/day | pound(s) per day | Phos | total phosphorus |
| MGD | million gallons per day | TSS | total suspended solids |

THE ST. IGNACE NEWS

Mackinac Island

Thursday, February 17, 2011
Mackinac Island: From page 2
 "Wies for Kids." This was a great
 tuning for Ella to do, and friends on
 Mackinac Island are proud of her.
 The next movie night at Emmy
 Chalon will be Wednesday, Febru-
 ary 16. The movie will be "The
 Scientist," starring Jamie Foxx and
 Robert Downey Jr. The potluck
 starts at 6 p.m. and the movie will be
 shown at 7 p.m. Everyone is wel-
 come to attend.

Congratulations to Megan and
 Eddie McNulty of Adman on the
 birth of their daughter, Payton
 Grace, born Friday, February 4. She
 weighed 7 pounds, 5 ounces at birth
 and measured 20 inches in length.
 Proud grandparents are Marti Mol-
 coming Queen, Marie Banker, and

Ely Schoenborn celebrated her
 fifth birthday with family and
 friends at the Village Inn Wednesday
 evening, February 2. A great time
 was enjoyed by all.
 Friday evening, February 4, the
 Mackinac Island Lakers celebrated
 Homecoming with the Beaver Island
 Islanders. Congratulations to Home-
 coming Queen, Marie Banker, and

Homecoming King Austin Kuddle.
 The Lakers girls and boys were we-
 lcomed and a homecoming dance
 was enjoyed by all following the
 game.
 In the December edition of the
Par-in-Ban Gazette, there were
 great photographs of Mackinac and
 articles about the wonderful time
 everyone had on their visit to
 Mackinac Island in early Decem-
 ber. When the two schools gathered
 to play basketball.

Happy birthday to Pat, address
 February 16. Enjoy your day.
 The Mark Gallagher dinner will
 be Thursday, February 17, at the

Community Hall. All proceeds will
 benefit the Mark Gallagher Scho-
 larship Fund at the Mackinac Island
 Community Foundation. Please
 come and enjoy good food and
 help everyone to remember a won-
 derful young man.

Dr. Joseph Solomon will cele-
 brate his 89th birthday February 21
 in Kingsport, Tennessee. Dr.
 Solomon was the Island doctor for
 17 years and has very fond memo-
 ries of Mackinac. Friends may re-
 member him with a birthday card
 at the following address: 111
 Countryside Court, Kingsport, TN
 37663.

Congratulations to the Mackinac
 Island Lakers girls basketball team
 who are undefeated and are the
 to Hoachus for a week. We wish

past weekend and are enjoying time
 at their home in Woodhull.
 Jennifer Blowsick, general man-
 ager of Grand Hotel, has been re-
 ceiving employees for the 2011
 season in Steamboat Springs, Col-
 orado.

Becky Simmons of St. Ignace en-
 joyed a recent weekend visiting
 Candy Smith and family.

Christy May of Petoskey has been
 visiting her daughter, Heather, who
 is the music teacher at the Mackinac
 Island Public School. Heather also
 plays for mass at St. Anne's.

Mike Shockley's mother, Jan, of
 Traverse City has been visiting the
 family on Mackinac.

By Jeanne

STATE OF MICHIGAN

| REAL PROPERTY | | | Published as required by P.A. 185, 1971 | | | | |
|---------------|------------------------------|------------------------------|---|----------------------------------|---------------------------------|---------------------------------|-------|
| Lot | Commercial Ratio % Factor | Industrial Ratio % Factor | Residential Ratio % Factor | Timber Cutover Ratio % Factor | Developmental Ratio % Factor | Personal Prop Ratio % Factor | |
| 1000 | 49.30 | 1.0000 | 42.48 | 1.1241 | 50.00 | 1.0000 | 50.00 |
| 1001 | 57.33 | 0.8721 | 52.72 | 0.9484 | 45.89 | 1.0396 | 50.00 |
| 1002 | 51.91 | 0.9632 | 65.82 | 0.7835 | 52.90 | 0.9452 | 50.00 |
| 1003 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1004 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1005 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1006 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1007 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1008 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1009 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1010 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1011 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1012 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1013 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1014 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1015 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1016 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1017 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1018 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1019 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1020 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1021 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1022 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1023 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1024 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1025 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1026 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1027 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1028 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1029 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1030 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1031 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1032 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1033 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1034 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1035 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |
| 1036 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 | 1.0000 | 50.00 |

The percentages of assessed valuations to true cash value as determined by a survey of individual assessments.
 to bring the Ratios to the required 50% of estimated true cash value
 are and subject to change as the result of possible adjustments by individual assessing officers. Assuming that no
 change may be applied to each individual valuation.
PLEASE PROTECT 2010 AND ARE NOT AN ADDITION TO OR SUBTRACTION FROM THEM!

Mackinac County Equalization Director
 James Fenlon

LIABILITY INSURANCE
 Hawatha Behavioral Health is accepting bids for liability insurance. Bid
 Specifications are available by contacting Jo Anne Pratt, Contracts and
 Procurement Coordinator at (906) 341-2144. Bids must be received to
 later than 5:00 p.m. on Tuesday, March 1, 2011.
 Please send bids to: Hawatha Behavioral Health
 Attn: Insurance Bid
 125 North Lake Street
 Manistique, MI 49854

PUBLIC NOTICE
Mackinac Island
Department of Public Works
 The Mackinac Island Wastewater Treatment Plant has developed a
 Septage Receiving Facility Operating Plan as required because it ac-
 cepts hauled septage waste. A copy of this plan is available for review
 at City Hall, 7358 Market Street, Mackinac Island, between 8 a.m. and
 4 p.m., M-F. Written comments will be accepted until March 18, 2011
 at the following address: Mackinac Island Department of Public Works,
 P.O. Box 515, Mackinac Island, MI 49757.